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WORLD'S FASTEST HYDRAULIC HOSE REPAIR

As the name suggests, here at BOA Hydraulics we are a company focused on providing our customers a strong, fast and flexible solution to repairing and maintaining hydraulic hoses.

We have spent many years listening to our customers and from this have developed an on site solution that gives customers autonomy and control over their own repair and maintenance, using their own staff to cut and crimp the required hose.

Over a period of three generations we have evolved to become a leading supplier of hydraulic crimping and cuttings machines, as well as a key supplier of quality hose and fittings.

At BOA we know that one of the biggest costs to business is loss of productivity through downtime or “time off the tools”. Our integrated solution enables you to have your machines back up and running in 20 mins, Turning Wasted Time into Profit.

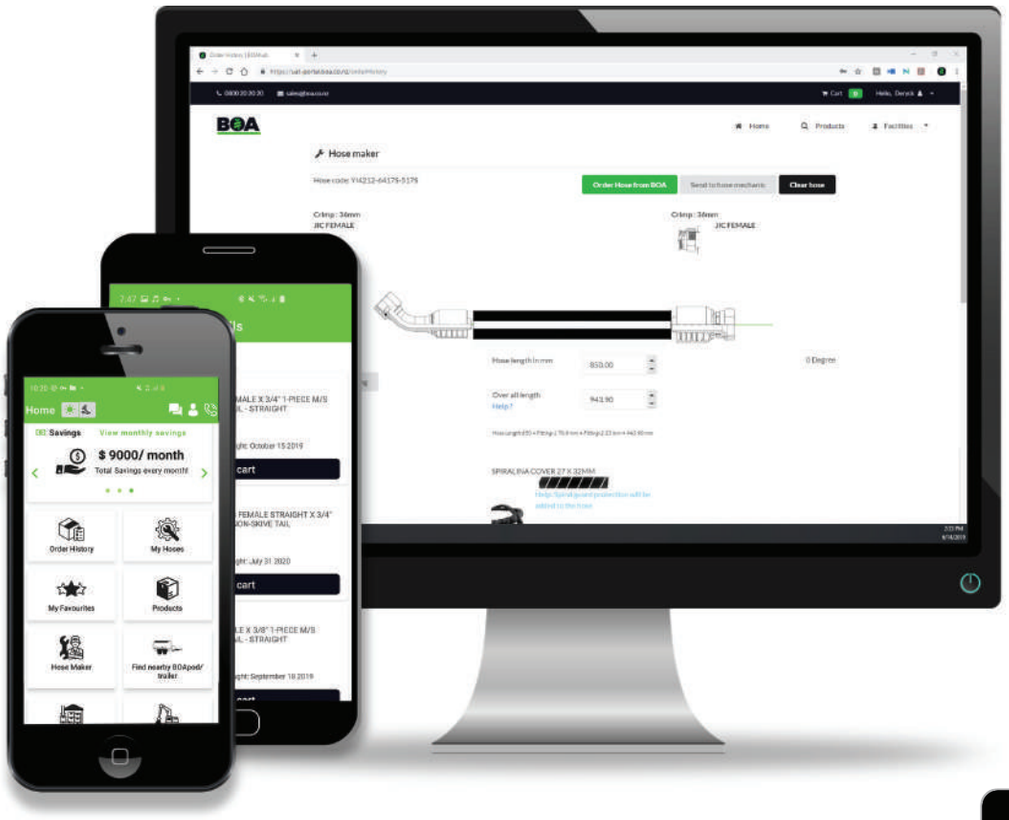
We want to give our customer the best and most effective way to keep their business running so we are constantly innovating in order to provide the best service to our customers.

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See how to get started - page 7

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WORKSHOP EQUIPMENT

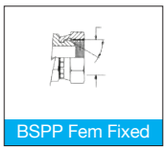
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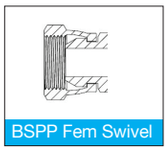
RESOURCES & INFORMATION

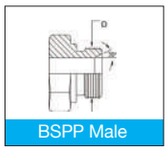
THREAD INFORMATION

BSP (British Standard Pipe)

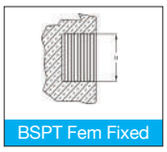
BSP connections include two types of thread, BSP Parallel (BSPP) which are straight (or parallel) and BSP Tapered (BSPT). BSPT couplings seal on the thread and thread sealant is recommended. BSPP couplings seal by a 30° cone which seats with the globe seal in the female swivel. Where a BSPP male is being mated with a fixed female port sealing is accomplished using a bonded seal (Dowty Seal). BSP threads have a 55° thread angle with a rounded crest, as opposed to a 60° thread angle and sharp crest on NPT.

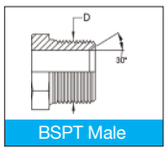

BSPP Fem Fixed


BSPP Fem Swivel



BSPP Male

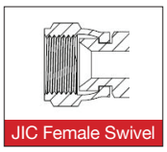

BSPT Fem Fixed

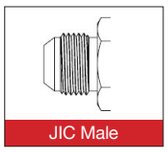


BSPT Male

JIC 37° Flare

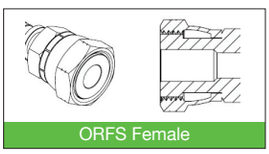
JIC connections seal by the male flare contacting the female cone seat with the connection being held by the thread.

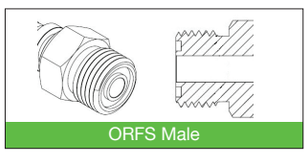

JIC Female Swivel


JIC Male

ORFS

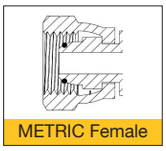
ORFS or 'O' Ring Face Seal connections use an 'O'-ring housed in the face of the male and compressed against the face of the female with the connection being held by the thread.

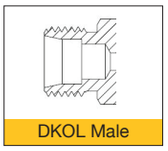

ORFS Female

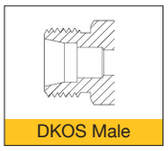

ORFS Male

Metric

The DIN Metrics 24° Cone System seals by the male 24° sealing angle cone seat connecting with the female 24° convex cone with O-ring. The connection is held by the straight metric thread. The DIN Metrics system has two series; The DKOL light series for pressure up to 250 bar and the DKOS heavy series for pressure up to 640 bar.


METRIC Female

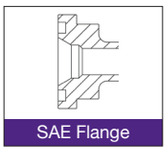

DKOL Male


DKOS Male

SAE O-Ring Flanges

SAE flanges seal by an 'O'-Ring seal housed in the flange head compressing against a flat female port. The flange is clamped in place by either a split or one-piece clamp secured by four bolts.

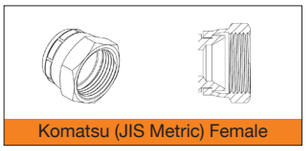
SAE flanges come in two types with different nominal pressure ratings; Code 61 for up to 5000psi on 1/2", 3/4" & 1", 4000psi on 1-1/4" & 1-1/2" and 3000psi on 2". Code 62 for up to 6000 psi for all sizes.


SAE Flange

Komatsu (JIS Metric)

Komatsu connections are to the JIS (Japanese Industrial Standard) but have a metric thread.

Komatsu connections look similar to JIC except they have a 30° flare and use metric fine threads (1.5mm thread pitch on the first three sizes (14, 18, & 22) and a 2mm thread pitch on the larger sizes (27, 33, 42, 50, 60)). Komatsu connections seal on the 30° flare which is held by the thread.


Komatsu (JIS Metric) Female

JIS (JIS BSP) (Mitsubishi)

JIS (Japanese Industrial Standard) has two thread types which both seal on a 30° flare, one type is BSP thread with an inverted flare and the other is metric (Komatsu) (M/MU). JIS BSP connections are not interchangeable with conventional BSP connectors as the JIS flare is inverted.

NPT

NPTF (National Pipe Taper Fuel) males have a 30° cone and will mate with all NPT female types sealing either on the thread or the 30° cone. No thread sealant is required on NPT connections but can be used to prevent galling. NPT look nearly identical to BSP but are not compatible as they have a 60° thread angle as opposed to BSP's 55° thread angle.

UNO

UN 'O'-Ring thread is of the same type as JIC, however the UNO is not seated and has an O-Ring for sealing. A UNO female port is chamfered to seat the O-ring.

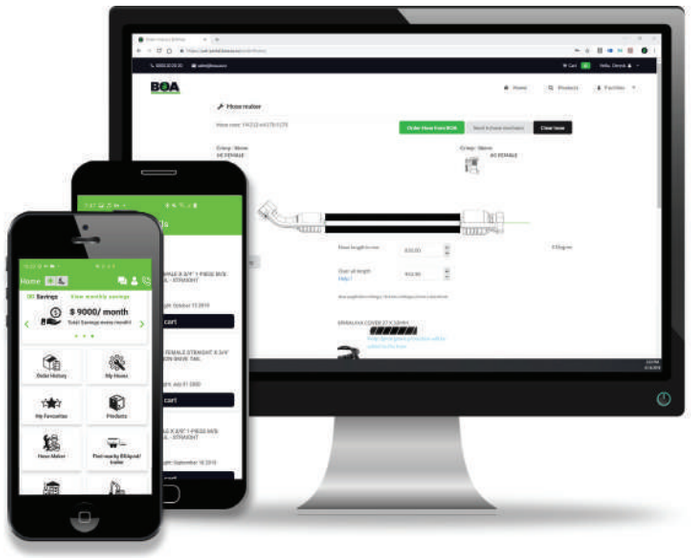
Pressure Washer

Karcher connectors for use with pressure washers using Karcher style connections. The female is a 22mm swivel nut, the male (or gun end) is either a 9.8mm or 11mm stub insert with O-Ring.

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5. Once your email address is verified either
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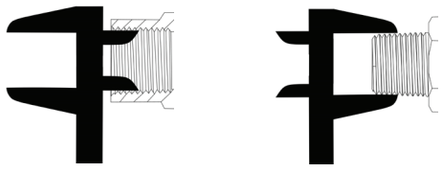
1. Simply go to your favourite browser and enter www.boahub.co in the URL bar.

How to sign up.

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2. Complete and submit the sign-up form.
3. You will receive an email to the email address you entered on the sign-up form. Click 'Verify Email'
4. BOA will be notified you have successfully signed up to BOAhub and attach your login to your BOA account.
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   b. If the system cannot automatically approve your account, you will receive another email once your sign-in has been activated by BOA and is ready to use.

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THREAD IDENTIFICATION USING VERNIERS - JIC, UNO, BSP, ORFS



Metric & Flange identification - Page 9
SAE Code 61 & Code 62 Flange Identification - Page 11
Banjo Nominal Size Identification - page 10

By measuring the outside diameter of a male thread, or the inside diameter of a female thread, with verniers, you will arrive at the mm measurement. By finding the same value on the table below you will be able to accurately determine the correct thread type.

MALE OD	mm	FEMALE ID
	6.85	5/16" JIC FEMALE
5/16" JIC/UNO MALE	7.87	
	8.59	1/8" BSP FEMALE
	10	7/16" JIC FEMALE
7/16" JIC/UNO MALE	11.07	
	11.46	1/4" BSP FEMALE
	11.6	1/2" JIC EFMALE
1/2" JIC/UNO MALE	12.7	9/16" ORFS FEMALE
	12.95	
	13	9/16" JIC FEMALE
1/4" BSP MALE	13.16	
9/16" ORFS MALE	14.22	
9/16" JIC/UNO MALE	14.25	
	14.96	3/8" BSP FEMALE
	16	11/16" ORFS FEMALE
3/8" BSP MALE	16.67	
11/16" ORFS MALE	17.52	
	17.6	3/4" JIC FEMALE
	18.65	1/2" BSP FEMALE
3/4" JIC/UNO MALE	19	
	19.05	13/16" ORFS FEMALE
	20.5	7/8" JIC FEMALE
	20.6	5/8" BSP FEMALE
13/16" ORFS MALE	20.82	
1/2" BSP MALE	20.96	
7/8" JIC/UNO MALE	22.17	
5/8" BSP MALE	22.91	
	23.62	1" ORFS FEMALE
	24.13	3/4" BSP FEMALE
	25	1 - 1/16" JIC FEMALE

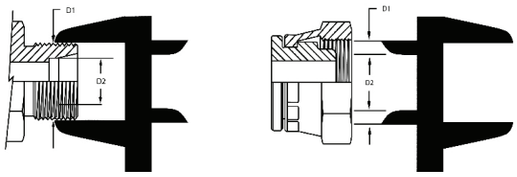
MALE OD	mm	FEMALE ID
1" ORFS MALE	25.4	
3/4" BSP MALE	26.45	
1 - 1/16" JIC/UNO MALE	26.95	
	28.09	1 - 3/16" JIC FEMALE
	28.19	1 3/16" ORFS FEMALE
1 - 3/16" JIC/UNO MALE	30.1	
1 - 3/16" ORFS MALE	30.22	
	30.3	1" BSP FEMALE
	31.3	1 - 5/16" JIC FEMALE
1" BSP MALE	33.25	
1 - 5/16" JIC/UNO MALE	33.3	
	34.54	1 7/16" ORFS FEMALE
1 - 7/16" ORFS MALE	36.57	
	38.97	1 - 1/4" BSP FEMALE
	39.2	1 - 5/8" JIC FEMALE
	40.89	1 11/16" ORFS FEMALE
1 - 5/8" JIC/UNO MALE	41.22	
1 - 1/4" BSP MALE	41.91	
1 - 11/16" ORFS MALE	42.92	
	44.86	1 - 1/2" BSP FEMALE
	45.6	1 - 7/8" JIC FEMALE
1 - 7/8" JIC/UNO MALE	47.57	
1 - 1/2" BSP MALE	47.81	
	48.76	2" ORFS FEMALE
2" ORFS MALE	50.8	
	56.67	2" BSP FEMALE
2" BSP MALE	59.62	
	61.5	2 - 1/2" JIC FEMALE
2 - 1/2" JIC/UNO MALE	63.45	

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THREAD IDENTIFICATION USING VERNIERS - METRIC

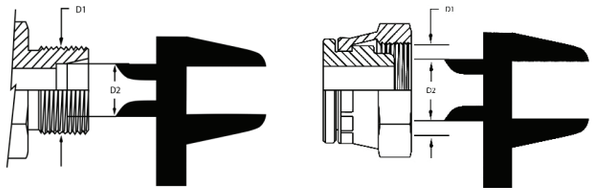
STEP 1

Measure the thread (D)



STEP 2

Measure the Nominal Tube Size (D2)



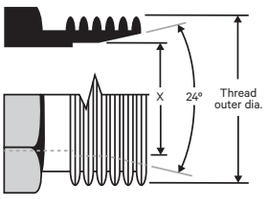
'D' THREAD MEASUREMENT	'D2' NOMINAL TUBE SIZE	THREAD TYPE
10.5	6	M12 1.5 Female DKOL Light Series
12	6	M12 1.5 Male DKOL Light Series
12.5	6	M14 1.5 Female DKOS Heavy Series
14	6	M14 1.5 Male DKOS Heavy Series
12.5	8	M14 1.5 Female DKOL Light Series
14	8	M14 1.5 Male DKOL Light Series
14.5	8	M16 1.5 Female DKOS Heavy Series
16	8	M16 1.5 Male DKOS Heavy Series
14.5	10	M16 1.5 Female DKOL Light Series
16	10	M16 1.5 Male DKOL Light Series
16.5	10	M18 1.5 Female DKOS Heavy Series
18	10	M18 1.5 Male DKOS Heavy Series
16.5	12	M18 1.5 Female DKOL Light Series
18	12	M18 1.5 Male DKOL Light Series
18.5	12	M20 1.5 Female DKOS Heavy Series
20	12	M20 1.5 Male DKOS Heavy Series
20.5	14	M22 1.5 Female DKOS Heavy Series
22	14	M22 1.5 Male DKOS Heavy Series
20.5	15	M22 1.5 Female DKOL Light Series
22	15	M22 1.5 Male DKOL Light Series
22.5	16	M24 1.5 Female DKOS Heavy Series
24	16	M24 1.5 Male DKOS Heavy Series
24.5	18	M26 1.5 Female DKOL Light Series
26	18	M26 1.5 Male DKOL Light Series
28	20	M30 2.0 Female DKOS Heavy Series
30	20	M30 2.0 Male DKOS Heavy Series
34	25	M36 2.0 Female DKOS Heavy Series
36	25	M36 2.0 Male DKOS Heavy Series
40	30	M40 2.0 Female DKOS Heavy Series
42	30	M40 2.0 Male DKOS Heavy Series
50	38	M52 2.0 Female DKOS Heavy Series
52	38	M52 2.0 Male DKOS Heavy Series
50.5	42	M52 1.5 Female DKOL Light Series
52	42	M52 1.5 Male DKOL Light Series

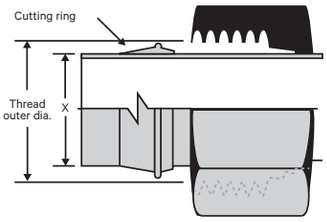
Example		Outcome
'D1' = 12mm	'D2' = 6mm	M12 1.5 Male DKOL Light Series

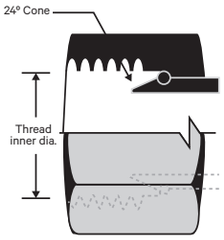
See more next page.

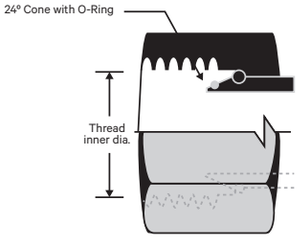
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Metric DIN 2353 24° cone fittings are available in two categories: DIN 2353 L (light) and DIN 2353 S (heavy) classes. Each has its own tube sizes and thread dimensions as shown in the following table:



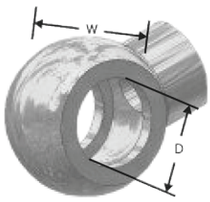






DIN 2353 L TUBE O.D (MM)	DIN 2353 S TUBE O.D. (MM)	METRIC THREAD SIZE	MALE THREAD O.D. (MM)	FEMALE THREAD I.D. (MM)
6		M12 X 1.5	12	10.5
8	6	M14 X 1.5	14	12.5
10	8	M16 X 1.5	16	14.5
12	10	M18 X 1.5	18	16.5
	12	M20 X 1.5	20	18.5
15	14	M22 X 1.5	22	20.5
	16	M24 X 1.5	24	22.5
18		M26 X 1.5	26	24.5
22	20	M30 X 1.5	30	28
28	25	M36 X 1.5	36	34
	30	M42 X 1.5	42	40
35		M45 X 1.5	45	43
42	38	M52 X 1.5	52	50

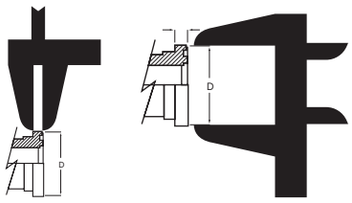
THREAD IDENTIFICATION USING VERNIERS - BANJOS



HOLE DIAMETER 'D' (MM)	THICKNESS 'W' (MM)	NOMINAL SIZE
13.2	14	1/4"
16.7	18	3/8"
21	22	1/2"
22.9	24	5/8"
26.5	29	3/4"
33.3	37	1"
12	12	M12
14	14	M14
16	18	M16
18	20	M18
22	22	M22
26	29	M26
30	37	M30

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THREAD IDENTIFICATION USING VERNIERS - SAE CODE 61 & CODE 62



FLANGE DIAMETER 'D' (MM)	FLANGE THICKNESS 'W' (MM)	FLANGE NOMINAL SIZE AND TYPE
30.18	6.73	1/2" Code 61 Flange
31.75	7.75	1/2" Code 62 Flange
34	6.73	5/8" 'Code 61' Flange*
38.1	6.73	3/4" Code 61 Flange
41.28	8.76	3/4" Code 62 Flange
44.45	8	1" Code 61 Flange
47.63	9.53	1" Code 62 Flange
50.8	8	1-1/4" Code 61 Flange
53.98	10.29	1-1/4" Code 62 Flange
60.33	8	1-1/2" Code 61 Flange
63.5	12.57	1-1/2 Code 62 Flange
71.42	9.53	2" Code 61 Flange
79.38	12.57	2" Code 62 Flange
84.12	9.53	2-1/2" Code 61 Flange

* Komatsu produce flanges to the JIS standard that are the same as Code 61 & Code 62 except for O-Ring groove dimensions. Dash size -10 is unique to JIS Komatsu flange standard

'CAT' or 'Supercat' Flanges

Flanges that are the same diameters as Code 62 flanges but have a thickness of 14.2mm. BOA supplies a range of packers to adapt Code 62 flanges or Code 62 Flange Clamps to replace the Supercat flange clamps to allow the use of a standard Code 62 flange.

GLOSSARY OF ABBREVIATIONS

B.S.P.T. British Standard Pipe Taper Thread

B.S.P.P. British Standard Pipe Parallel Thread

U.N. Unified National Thread

N.P.T. National Pipe Taper Thread

N.P.S. National Pipe Straight Thread

J.I.C. Joint Industries Council (thread U.N.)

S.A.E. Society of Automotive Engineers (Thread U.N. or Flange)

O.R.F.S. O-Ring Face Seal (S.A.E. Standards)

D.K.L. Dicht Kegel Leicht (Metric Light Series 24° Cone)

D.K.O.L. Dicht Kegel O-Ring Leict (Metric Light O-Ring Series 24° Cone)

D.K.S. Dicht Kegel Schwer (Metric Heavy Series 24° Cone)

D.K.O.S Dicht Kegel O-Ring Schwer (Metric Heavy O-Ring Series 24° Cone)

D.K.O. Dicht Kegel O-Ring (Metric O-Ring Seal 24° Cone)

D.K.M. Dicht Kegel Metric (Metric 60° Cone)

D.I.N. Deutsche Industrie Normen (German Industrial Standard)

J.I.S. - M Japanese Industrial Standard - Metric Male Thread

J.I.S. - MU Japanese Industrial Standard - Metric Union (Female Thread and Cone)

J.I.S. - R Japanese Industrial Standard - B.S.P.T. Male Pipe Thread

J.I.S. - G Japanese Industrial Standard B.S.P.P Male Pipe (Thread Female Cone)

J.I.S. - GUI Japanese Industrial Standard B.S.P.P Pipe Thread Female Union (Female Cone)

J.I.S. GUO Japanese Industrial Standard B.S.P.P Pipe Thread Female Union (Female Cone)

J.I.S. - GGO Japanese Industrial Standard B.S.P.P. Male Pipe (Thread (Male Cone)

HS J.I.S. Designation for S.A.E. Flange Connections Standard Pressure Code 61

HH J.I.S. Designation for S.A.E. Flange Connections High Pressure Code 62

I.D. Inside Diameter

N.B. Nominal Bore

O-Ring O-Ring Seal

O.D. Outside Diameter

STD. Standard

T.W. Tube Weld

W.P. Working Pressure

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CONVERSION CHART

METRIC P.S.I.						METRIC P.S.I.					
BAR	KPA	MPA	KG/CM2	ATM	P.S.I	P.S.I	KPA	MPA	KG/CM2	ATM	BAR
1	100	0.1	1.02	0.99	14.5	10	68.9	0.07	0.70	0.80	0.7
2	200	0.2	2.04	1.97	29.0	20	137.9	0.14	1.41	1.36	1.4
3	300	0.3	3.06	2.96	43.5	30	206.8	0.21	2.11	2.04	2.1
4	400	0.4	4.08	3.95	58.0	40	275.8	0.28	2.81	2.72	2.8
5	500	0.5	5.10	4.93	72.5	50	344.7	0.34	3.52	3.4	3.4
6	600	0.6	6.12	5.92	87.0	60	413.7	0.41	4.22	4.08	4.1
7	700	0.7	7.14	6.91	101.5	70	482.6	0.48	4.92	4.78	4.8
8	800	0.8	8.16	7.89	116.0	80	551.6	0.55	5.63	5.44	5.5
9	900	0.9	9.18	8.88	130.5	90	620.5	0.62	6.33	6.12	6.2
10	1,000	1.0	10.2	9.87	145.0	100	689	0.70	7.0	6.80	6.9
20	2,000	2.0	20.4	19.74	290.1	200	1,379	1.4	14.1	13.6	13.8
30	3,000	3.0	30.6	29.6	435.1	300	2,068	2.1	21.1	20.41	20.7
40	4,000	4.0	40.8	39.48	580.2	400	2,758	2.8	28.1	27.21	27.6
50	5,000	5.0	51.0	49.34	725.2	500	3,447	3.4	35.2	34.02	34.5
60	6,000	6.0	61.2	59.21	870.2	600	4,137	4.1	42.2	40.82	41.4
70	7,000	7.0	71.4	69	1,015.3	700	4,826	4.8	49.2	47.63	48.3
80	8,000	8.0	81.6	79	1,160.3	800	5,516	5.5	56.3	54.43	55.2
90	9,000	9.0	91.8	89	1,305.3	900	6,205	6.2	63.3	61.24	62.1
100	10,000	10	102	99	1,450	1,000	6,895	6.9	70.3	68.04	68.9
200	20,000	20	204	197	2,901	2,000	13,790	13.8	140.7	136	137.9
300	30,000	30	306	296	4,351	3,000	20,684	20.7	211.0	204	206.8
400	40,000	40	408	395	5,802	4,000	27,579	27.6	281.3	272	275.8
500	50,000	50	510	493	7,252	5,000	34,474	34.5	351.6	340	344.7
600	60,000	60	612	592	8,702	6,000	41,369	41.4	421.9	408	413.7
700	70,000	70	714	691	10,153	7,000	48,263	48.3	492.3	476	482.6
800	80,000	80	816	790	11,603	8,000	55,158	55.2	562.6	544	551.6
900	90,000	90	918	888	13,053	9,000	62,053	62.1	632.9	612	620.5
1,000	100,000	100	1,020	989	14,504	10,000	68,948	66.9	703	680	689
2,000	200,000	200	2,040	1,974	29,008	20,000	137,895	137.9	1,406	1,361	1,379
3,000	300,000	300	3,060	2,981	43,511	30,000	206,843	206.8	2,110	2,041	2,068
							275,790	275.8	2,813	2,721	2,758

ABBREVIATIONS

KPA	Kilopascal
MPa	Megapascal
kg/cm²	Kilograms per square centimetre
Atm.	Atmosphere
p.s.i	Pounds per square inch
Nm	Newton Metre

CONVERSIONS

KPA X 0.145 = P.S.I.

Bar x 14.5 = p.s.i.

MPa x 145 = p.s.i.

kg/cm² x 14.223 = p.s.i.

Atm. x 14.7 = p.s.i.

1 kPa = .145 p.s.i.

1 Bar = 14.5 p.s.i.

1 MPa = 145 p.s.i.

p.s.i. x 6.89 = kPa

p.s.i. x .0689 = Bar

p.s.i. x .00689 = MPa

TORQUE CONVERSIONS

1 NM = .737 FT/LB

1 Nm = 8.850 in/lb

1 ft/lb = 1.355 Nm

1 in/lb = .113 Nm

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HOSE ASSEMBLY INSTALLATION RECOMMENDATION PRACTICE

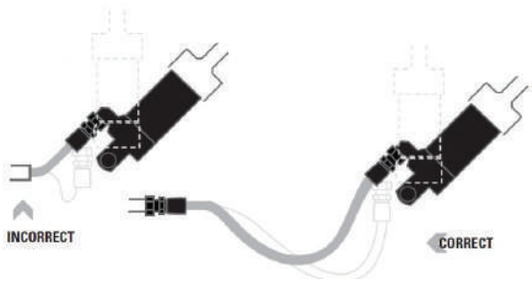
The following are intended only as a guide to installation recommended practices to get the best life from your hose assemblies.

WARNING: No hose fitting can be relied on if it has not been assembled correctly.

- Only use hose in the application it was designed for
- Avoid torsional twist
- Avoid running hose where temperature, rubbing and/or abrasion are high, or consider using appropriate protection.

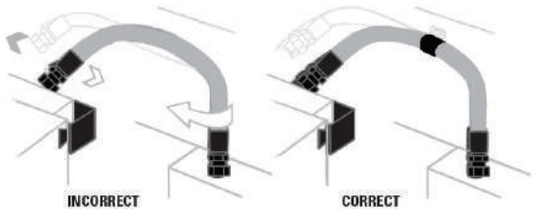
MOTION ABSORPTION

Provide correct length to absorb movement



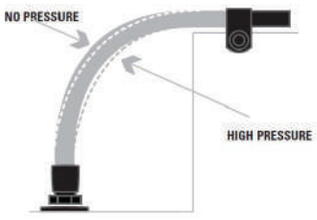
MULTIPLE BENDS

Prevent hose from bending in more than one place



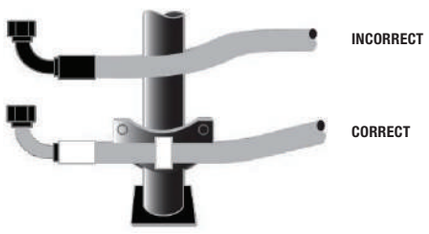
PRESSURE ABSORPTION

Provide correct length to accommodate changing pressures



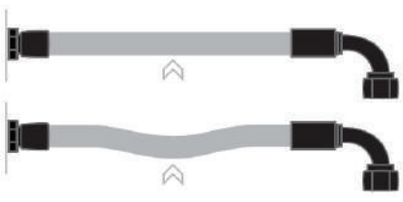
HIGH TEMPERATURES

Hose should keep away or be insulated from high temperatures



PRESSURE & MACHINE TOLERANCES

Provide correct length to allow for pressure changes & movement



HOSE ROUTING

Use correct fittings or adaptors to ensure hose isn't bent beyond minimum bend radius



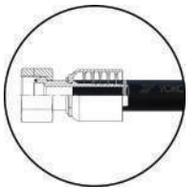
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HOSE ASSEMBLY CHECKS

ALWAYS ENSURE HOSE TAILS ARE PUSHED ALL THE WAY ON TO THE HOSE

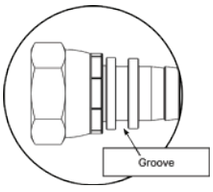


1. Line the fitting up next to the hose and mark where the fitting should come to when pushed all the way home

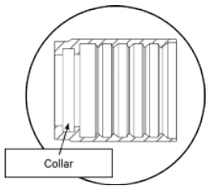


2. It is easy to see when the hose is pushed right on as the end of the ferrule should line up with the mark you have made

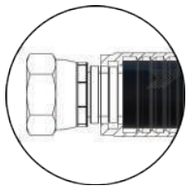
WHEN USING 2-PIECE FITTINGS, ENSURE THE COLLAR OF THE FERRULE ALIGNS WITH THE GROOVE IN THE FITTINGS



1. Identify the groove on the fitting and the collar on the ferrule



2. Ensure the groove and collar align so when crimped, the collar is pushed into the groove



CRIMP THE ENTIRE FERRULE



1. Make sure the entire ferrule is in the crimping dies so the entire ferrule is crimped.



2. If the entire ferrule is not crimped the hose assembly should not be used as it is likely to fail.

ALWAYS CHECK YOUR FINAL CRIMP

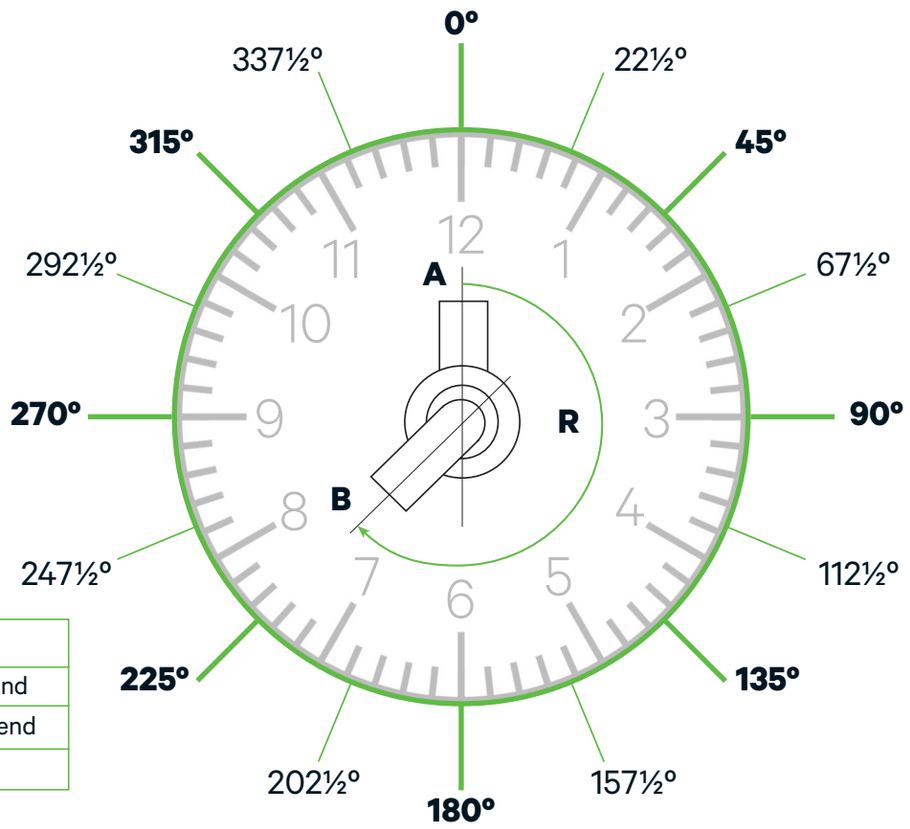


Always measure your completed crimp with verniers and check against the crimp specification.

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ROTATION ANGLE CHART

FOR HOSE ASSEMBLIES WITH TWO ANGLED HOSE-END FITTINGS

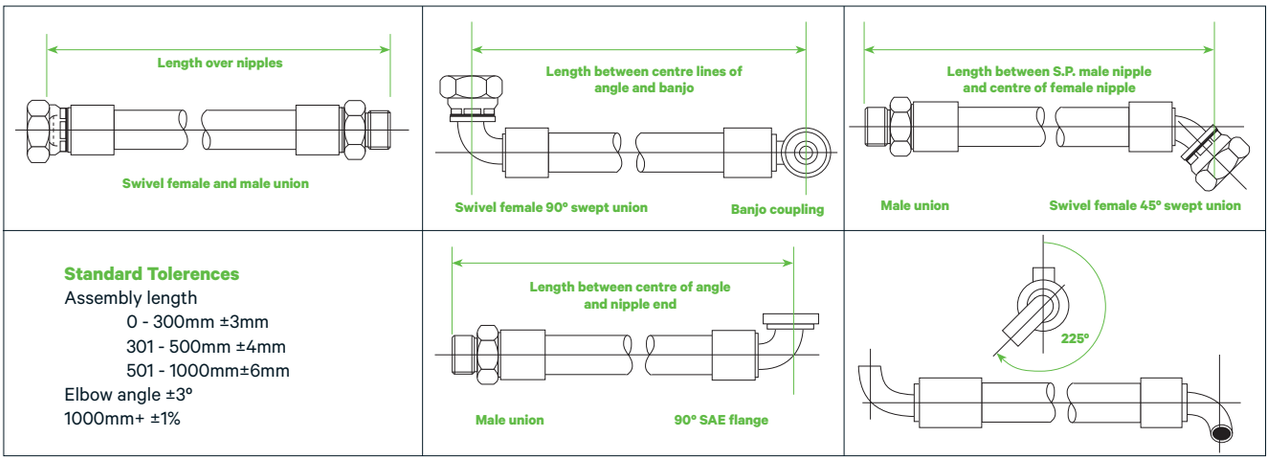


Example
A: 1st Hose-end
B: 2nd Hose-end
R: Rotation

Angular Relationships

Hold the assembly so that you can look along the length of the hose and with the fitting furtherest away from you in the vertical position. Measure the angle between the vertical fitting and the one nearest to you in a clockwise direction. Relationship can be expressed from 0^0 to 360^0
If the angle is not given, the elbows are positioned at 0^0.





Standard Tolerences
Assembly length
0 - 300mm ±3mm
301 - 500mm ±4mm
501 - 1000mm±6mm
Elbow angle ±3°
1000mm+ ±1%

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YOKOHAMA HOSE AND MATCHED FITTINGS

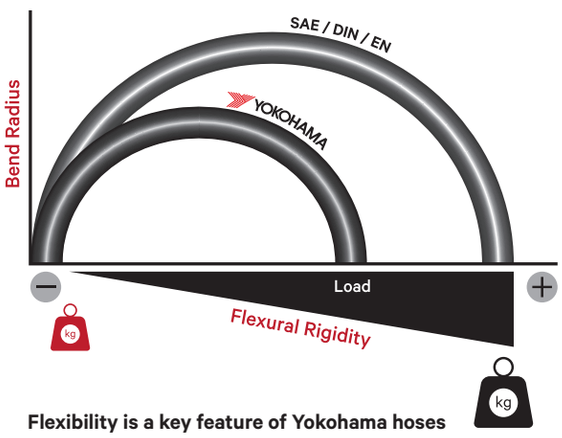
It is important to BOA that our customers who work with high-pressure hoses in high-pressure environments, have a product that is superior in performance and service life. That's why we partnered with Yokohama who have a reputation for "Long Life and High Durability" hoses.

Yokohama have been operating since 1917, and are a market leader who supply many of the industry's best such as Hitachi, IHI, Kato, Kobelco, Komatsu and Yanmar.

As the preferred partner of Yokohama in NZ we take great pride in the service and quality we offer our customers through this partnership.

6 Key Benefits of Yokohama Hoses

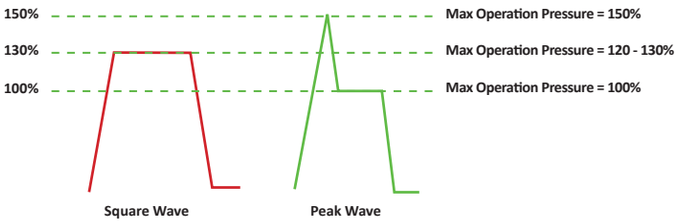
- **Half the Bend Radius -** Bend radius is half of the conventional spiral hoses type SAE, giving you greater flexibility and ease of use.
- **Smaller O.D. -** Enables you to fit more hose in tight quarters, or jump up a hose size for better flow.
- **Impulse Test Performance -** Superior performance & service life.
- **Constant Pressure -** Made to ISO 18752 specifications, and provides constant pressure performance across all sizes.
- **High Abrasion Resistance -** Delivers long dependable service life in rigorous installations.
- **Lighter Hose -** Weighs 25% less than conventional spiral hoses, so is easier to handle and install.



Flexibility is a key feature of Yokohama hoses

SUPERIOR TESTING METHOD FOR YOKOHAMA HOSES

Yokohama hoses are tested using the rigorous Hitachi and Komatsu spike testing method. This method uses a higher pressure cycle than normal SAE testing, at 1.2 million impulses compared with average SAE testing of 400,000-500,000 impulses.



Square Testing Wave
SAE and EN hoses apply this method

Surge/Peak Testing Wave
Comes from the JIS, Komatsu and Hitachi method.
(Simulating the hammering condition of heavy machines)

	Impulse Wave Type	Oil Temp.	Test Pressure	Impulse Times
SAE 100R12	Square	100°C	MOP x133%	500,000 times
SAE 100R13	Square	121°C	MOP x120%	500,000 times
EN 4SP	Square	120°C	MOP x133%	400,000 times
EN 4SH	Square	100°C	MOP x133%	400,000 times
Komatsu	Peak	100°C	MOP x150%	1,200,000 times
Hitachi	Peak	120°C	MOP x150%	1,200,000 times

** MOP is Max Operation Pressure*

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HOSES AND TUBING

RUBBER HYDRAULIC

YKR2SN - 2SN/R2AT 2-WIRE YOKOHAMA PREMIUM HYDRAULIC HOSE



PAGE 18

YKRISO35/42 - ISO18752 4-6-WIRE YOKOHAMA PREMIUM MULTI-SPIRAL HYDRAULIC HOSE



PAGE 18

SF1SN - 1SN/R1AT 1-WIRE SILFLO HYDRAULIC HOSE



PAGE 19

SF1SNSS - 1SN/R1AT 1-WIRE BLUE SUPER SERVICE HOSE



PAGE 20

GA1SNHT - GATES HIGH-TEMPATURE HOSE



PAGE 22

SF2SNSS - 2SN/R2AT 2-WIRE BLUE SUPER SERVICE HOSE



PAGE 21

SFISO42 – 4-6 WIRE SILFLO HIGH PRESSURE MULTI-SPIRAL HYDRAULIC HOSE



PAGE 21

SF2SN - 2SN/R2AT 2-WIRE SILFLO HYDRAULIC HOSE



PAGE 20

BF2SC - BALFLEX SUPER COMPACT HOSE



PAGE 22

RUBBER MULTI-PURPOSE

RMPBS - SILFLO BLACK MULTI-PURPOSE HOSE - AIR/OIL/WATER/ PETROL



PAGE 24

RPS1 - R4 SUCTION & DELIVERY HOSE



PAGE 24

THERMOPLASTIC

SFR8 - R8 TWO-BRAID THERMOPLASTIC HOSE



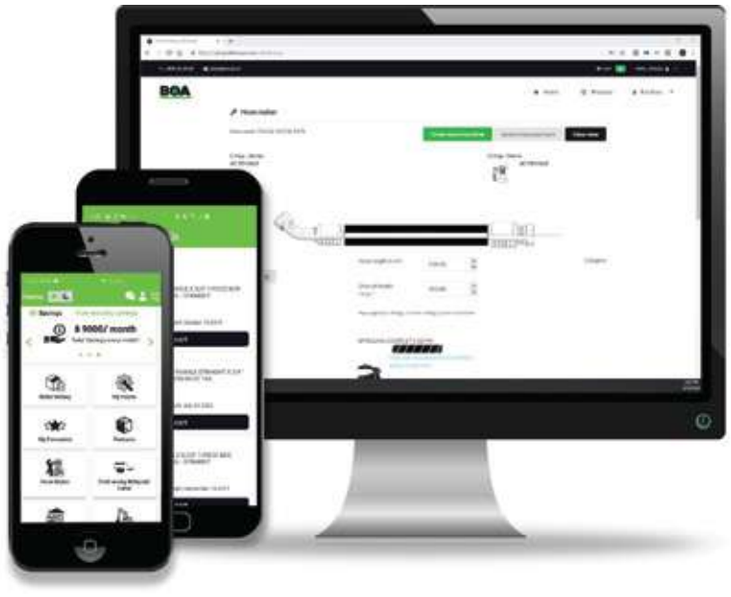
PAGE 25

In **your** time, on **your** device;

Online Ordering & Easy Hose Identification

BOAhub.com

See page 7 for detailed instructions on how to get started.



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YKR2SN - 2SN/R2AT 2-WIRE YOKOHAMA PREMIUM HYDRAULIC HOSE

FOR MEDIUM AND HIGH PRESSURE LINES IN HYDRAULIC CIRCUITS

PROPERTIES

INNER TUBE	oil resistant synthetic rubber
REINFORCEMENT	2 high-tensile steel wire braid
OUTER COVER	abrasion & weather resistant synthetic rubber
APPLICATION	hydraulic fluids and lubricating oils
OPERATING TEMPERATURE RANGE	-40 to 100°C
FITTING TYPE	Suits 1-Piece K Series or 2 Piece S Series with SN3 Ferrule



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	FULL COIL SIZE * (M) *Coil size indiciates the usual coil full coil size, but does not guarantee full coils will always be available	REINFORCING W/B OR SPIRAL
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)		(where applicable)
YKR2SN-04	1/4 2SN/R2AT 2-WIRE YOKOHAMA (85-105m)	1/4"	6.4	15.1	5800	400	100	85-105	2 W/B
YKR2SN-06	3/8 2SN/R2AT 2-WIRE YOKOHAMA (65-75m)	3/8"	9.5	19.1	4800	331	125	65-75	2 W/B
YKR2SN-08	1/2 2SN/R2AT 2-WIRE YOKOHAMA (55-65m)	1/2"	12.7	22.2	4000	276	180	55-65	2 W/B
YKR2SN-10	5/8 2SN/R2AT 2-WIRE YOKOHAMA	5/8	15	25.4	2635	250	200	50-60	2 W/B
YKR2SN-12	3/4 2SN/R2AT 2-WIRE YOKOHAMA (40-50m)	3/4"	19	29.4	3100	214	240	40-50	2 W/B
YKR2SN-16	1 2SN/R2AT 2-WIRE YOKOHAMA (35-45m)	1"	25.4	37.9	2400	165	300	35-45	2 W/B
YKR2SN-20	1-1/4 2SN/R2AT 2-WIRE YOKOHAMA (35-45m)	1-1/4"	31.8	47.8	1600	110	420	35-45	2 W/B
YKR2SN-24	1 1/2 2SN/R2AT 2-WIRE YOKOHAMA (20m)	1-1/2"	38.1	54.6	1200	82	500	20	2 W/B
YKR2SN-32	2 2SN/R2AT 2-WIRE YOKOHAMA	2	50	67.3	1131	78	630	10-20	2 W/B

YKRISO35/42 - ISO18752 4-6-WIRE YOKOHAMA PREMIUM MULTI-SPIRAL HYDRAULIC HOSE

FOR HIGH PRESSURE LINES IN HYDRAULIC CIRCUITS.

PROPERTIES

INNER TUBE	Oil resistant synthetic rubber
REINFORCEMENT	4-6 high tensile steel wire spirals
OUTER COVER	Abrasion, Oil & Weather resistant synthetic rubber
APPLICATION	Hydraulic Fluids and Lubricating Oils
OPERATING TEMPERATURE	-40° - 120°
APPLICABLE STANDARDS	ISO18752
FITTING TYPE	Suites 1-Piece J Series or 2-Piece S Series with SMSNS Ferrules.



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	FULL COIL SIZE * (M) *Coil size indiciates the usual coil full coil size, but does not guarantee full coils will always be available	REINFORCING W/B OR SPIRAL
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)		(where applicable)
YKRISO42-08	1/2 42 6000PSI M/S YOKOHAMA (40m)	1/2"	12.7	23.1	6000	414	140	40	4
YKRISO42-10	5/8 42 6000PSI M/S YOKOHAMA (40m)	5/8"	16	26.5	6000	414	160	40	4
YKRISO42-12	3/4 42 6000PSI M/S YOKOHAMA (40m)	3/4"	19	30.4	6000	414	180	40	4
YKRISO42-16	1 42 6000PSI M/S YOKOHAMA (40m)	1"	25.4	37.5	6000	414	240	40	4
YKRISO42-20	1-1/4 42 6000PSI M/S YOKOHAMA (20m)	1-1/4"	31.8	48.4	6000	414	280	20	6
YKRISO42-24	1-1/2 42 6000PSI M/S YOKOHAMA (20m)	1-1/2"	38.1	56	6000	414	400	20	6
YKRISO42-32	2 35 6000PSI M/S YOKOHAMA (20m)	2"	50.8	71.1	6000	414	500	20	6

UNDERSTANDING ISOBARIC (ISO) RANGE OF HOSES

The isobaric approach is to have the same pressure rating across all sizes in a hose family. The new ISO 18752 details a complete isobaric approach for hose classification and selection.

With these products you can get one family of hose where you can outfit a machine with higher flexibility and impulse life hose, making it easier for maintaining equipment and selecting the correct hose.

"... ISO 18752:2014 specifies requirements for ten classes, four grades and seven types of wire- or textile-reinforced hydraulic hoses and hose assemblies of nominal sizes ranging from 5 to 102. Each class has a single maximum working pressure for all sizes. Such hoses are suitable for use with hydraulic fluids HH, HL, HM, HR and HV as defined in ISO 6743-4 at temperatures ranging from -40 °C to +100 °C for types AS, AC, BS and BC and -40 °C to +120 °C for types CS, CC and DC.

ISO 18752:2014 does not include requirements for the connection ends. It is limited to the performance of hoses and hose assemblies. The hose assembly maximum working pressure is governed by the lowest maximum working pressure of the components. ..."

From www.iso.org, ISO 18752:2014

SILFLO HYDRAULIC HOSE

SILFLO Hose

Choose **SILFLO.**
Choose **Quality & Value.**

SILFLO is a global brand created to bring together some of the world's finest manufacturers of industrial and hydraulic hosing, fittings and components and bring them to market through a single, recognised and trusted brand.

Exclusive to BOA



SF1SN - 1SN/R1AT 1-WIRE HYDRAULIC HOSE

FOR LOW AND MEDIUM HIGH PRESSURE CIRCUITS, RETURN HOSES

SILFLO Hose

PROPERTIES

APPLICATION	Low and medium high pressure circuits, Return hoses
STANDARD	EN 853 1 SN /SAE R1AT
INNER LAYER	Oil resistant synthetic rubber
INSERT	One high tensile steel wire braided insert
OUTER LAYER	Synthetic rubber with high temperature, ozone and weather resistance
COLOUR	Black
TEMPERATURE RANGE	-40 to +100°C
MEDIA	Mineral oil, Polyglycol based oil, Water (0°C to + 70°C), Water-oil emulsions
FITTING TYPE	Suits 1-Piece K Series or 2 Piece S Series with SN3 Ferrule



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	FULL COIL SIZE * (M) *Coil size indicates the usual coil full coil size, but does not guarantee full coils will always be available	REINFORCING W/B OR SPIRAL
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)	(where applicable)	(where applicable)
SF1SN-04	1/4" 1SN/R1AT 1-WIRE HYDRAULIC HOSE (100m)	1/4"	6.4	14.1	3263	225	100	100	1 W/B
SF1SN-05	5/16" 1SN/1AT 1-WIRE HYDRAULIC HOSE	5/16"	8	15.7	3118	215	105	100	1
SF1SN-06	3/8 1SN/R1AT 1-WIRE HYDRAULIC HOSE (100m)	3/8"	9.5	18.1	2611	180	130	100	1 W/B
SF1SN-08	1/2 1SN/R1AT 1-WIRE HYDRAULIC HOSE (100m)	1/2"	12.7	21.4	2321	160	180	100	1 W/B
SF1SN-10	5/8" 1SN/1AT 1-WIRE HYDRAULIC HOSE	5/8"	16	24.5	1885	130	200	50	1
SF1SN-12	3/41SN/R1AT 1_WIRE HYDRAULIC HOSE (50m)	3/4"	19	28.5	1523	105	240	50	1 W/B
SF1SN-16	1" 1SN/1AT 1-WIRE HYDRAULIC HOSE	1"	25.4	36.6	1276	88	300	50	1 W/B
SF1SN-20	1 1/4" 1SN/1AT 1-WIRE HYDRAULIC HOSE	1 1/4"	31.8	44.8	914	63	420	20	1 W/B
SF1SN-24	1 1/2" 1SN/1AT 1-WIRE HYDRAULIC HOSE	1 1/2"	38.1	52.1	725	50	500	20	1 W/B
SF1SN-32	2" 1SN/1AT 1-WIRE HYDRAULIC HOSE	2"	50.8	65.5	580	40	630	20	1 W/B

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SF2SN - 2SN/R2AT 2-WIRE HYDRAULIC HOSE

FOR MEDIUM AND MEDIUM-HIGH PRESSURE CIRCUITS, RETURN HOSES

PROPERTIES

APPLICATION	Medium high pressure circuits
STANDARD	EN 853 2 ST
INNER LAYER	Oil resistant synthetic rubber
INSERT	Two high tensile steel wire braided insert
OUTER LAYER	Synthetic rubber with high temperature, ozone and weather resistance
COLOUR	Black
TEMPERATURE. RANGE	-40°C to +100°C
MEDIA	Mineral oil, Polyglycol based oil ,Water (0°C to + 70°C) ,Water-oil emulsions
FITTING TYPE	Suits 1-Piece K Series or 2 Piece S Series with SN3 Ferrule



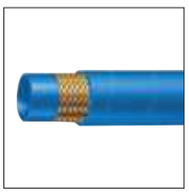
CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	FULL COIL SIZE * (M) *Coil size indiciates the usual coil full coil size, but does not guarantee full coils will always be available	REINFORCING W/B OR SPIRAL
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)	(where applicable)	(where applicable)
SF2SN-04	1/4 2SN/2AT 2-WIRE HYDRAULIC HOSE	1/4	6.4	15.7	5800	400	100	100	2
SF2SN-05	5/16 2SN/2AT 2-WIRE HYDRAULIC HOSE	5/16	8	17.3	5000	345	115	100	2
SF2SN-06	3/8 2SN/2AT 2-WIRE HYDRAULIC HOSE	3/8	9.5	19.7	4750	328	130	100	2
SF2SN-08	1/2 2SN/2AT 2-WIRE HYDRAULIC HOSE	1/2	12.7	23	4000	276	180	100	2
SF2SN-10	5/8 2SN/2AT 2-WIRE HYDRAULIC HOSE	5/8	16	26.2	3600	248	200	50	2
SF2SN-12	3/4 2SN/2AT 2-WIRE HYDRAULIC HOSE	3/4	19	30.1	3100	214	240	50	2
SF2SN-16	1 2SN/2AT 2-WIRE HYDRAULIC HOSE	1	25.4	38.9	2400	165	300	50	2
SF2SN-20	1 1/4 2SN/2AT 2-WIRE HYDRAULIC HOSE	1 1/4	31.8	49.5	1800	124	420	20	2
SF2SN-24	1 1/2 2SN/2AT 2-WIRE HYDRAULIC HOSE	1 1/2	38.1	55.9	1300	90	500	20	2
SF2SN-32	2 2SN/2AT 2-WIRE HYDRAULIC HOSE	2	50.8	68.6	1100	76	630	20	2

SF1SNSS - 1SN/R1AT 1-WIRE BLUE SUPER SERVICE HOSE

FOR LOW AND MEDIUM HIGH PRESSURE CIRCUITS, RETURN HOSES,

PROPERTIES

APPLICATION	Low to medium high pressure lines requiring higher temperatures. High flexibility for use with minerals, glycols, polyglycols oils, synthetic ester oils, oils in water emulsion
STANDARD	Exceeds EN 857 1SC / EN 1829-2
TEMPERATURE RANGE	Continuous: -40°C to +155°C
CORE	Black colour, Synthetic rubber resistant to hot water
REINFORCEMENT	Single steel wire braid
COVER	Synthetic rubber resistant to abrasion and weather, oil & ozone.
FEATURE	Great for pressure washer applications Suitable for higher temperatures
FITTING TYPE	Suits 1-Piece K Series or 2 Piece S Series with SN3 Ferrule



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	REINFORCING
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)	where applic
SF1SNSS-04	1/4 1W SILflo SUPER SERVICE BLUE	1/4"	6.4	13.4	3270	225	100	1 W/B
SF1SNSS-06	3/8 1W SILflo SUPER SERVICE BLUE	3/8"	9.5	17.4	2620	180	100	1 W/B

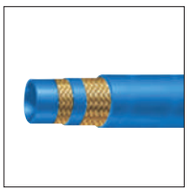
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SF2SNSS - 2SN/R2AT 2-WIRE BLUE SUPER SERVICE HOSE

FOR MEDIUM AND HIGH PRESSURE CIRCUITS, RETURN HOSES

PROPERTIES

APPLICATION	Medium high pressure lines requiring higher temperatures. High flexibility for use with minerals, glycols, polyglycols oils, synthetic ester oils, oils in water emulsion
STANDARD	Exceeds EN 857 2SC / EN 1829-2
TEMPERATURE RANGE	Continuous: -40°C to +155°C
CORE	Black colour, Synthetic rubber resistant to hot water
REINFORCEMENT	2 high tensile steel wire braid
COVER	Synthetic rubber resistant to abrasion and weather, oil & ozone.
FEATURE	Great for pressure washer applications Suitable for higher temperatures
FITTING TYPE	Suits 1-Piece K Series



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	REINFORCING
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)	where applic
SF2SNSS-04	1/4 2W SILflo SUPER SERVICE BLUE	1/4"	6.4	15	5800	400	100	2 W/B
SF2SNSS-06	3/8 2W SILflo SUPER SERVICE BLUE	3/8"	9.5	19	4785	330	125	2 W/B

SFISO42 – 4-6 WIRE SILFLO HIGH PRESSURE MULTI-SPIRAL HYDRAULIC HOSE

FOR HIGH PRESSURE LINES IN HYDRAULIC CIRCUITS

PROPERTIES

INNER TUBE	Oil resistant synthetic rubber
Reinforcement	4-6 steel wire spirals
Outer Cover	Oil & Weather resistant synthetic rubber
Application	Hydraulic Fluids and Lubricating Oils
Operating Temperature	-40° - 120°
Applicable Standards	100R15 / ISO3682 / ISO18752
Fitting Type	Suits 1-Piece J Series or 2-Piece S Series with SMSNS Ferrules.



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	REINFORCING
		(I.D) Inch	(I.D) (mm)	(mm)	(MPA)	(PSI)	(mm)	
SFISO42-06	3/8 42B 6000PSI M/S SILflo (40m)	3/8"	9.5	20.6	42	6000	140	4
SFISO42-08	1/2 42B 6000PSI M/S SILflo (40m)	1/2"	12.7	23.1	42	6000	190	4
SFISO42-10	5/8 42B 6000PSI M/S SILflo (40m)	5/8"	16	26.5	42	6000	200	4
SFISO42-12	3/4 42B 6000PSI M/S SILflo (40m)	3/4"	19	30.4	42	6000	225	4
SFISO42-16	1 42B 6000PSI M/S SILflo (40m)	1"	25.4	37.5	42	6000	270	4
SFISO42-20	1 1/4 42B 6000PSI M/S SILflo (20m)	1 - 1/4"	31.8	48.4	42	6000	400	6
SFISO42-24	1 1/2 42B 6000PSI M/S SILflo (20m)	1- 1/2"	38.1	56.2	42	6000	500	6

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BALFLEX SUPER COMPACT HOSE BF2SC RANGE

EXTREMELY HIGH PRESSURE HYDRAULIC HOSE

PROPERTIES

APPLICATION	Petroleum Base Hydraulic Fluids
STANDARD	Exceeds DIN EN 857
TEMPERATURE RANGE	-40° - 120°
CORE	Seamless Oil Resistant Synthetic Rubber
REINFORCEMENT	2 High Tensile Steel Wire Braid
COVER	Black Wrapped, Oil, Weather and Abrasion Resistant Synthetic Rubber
FEATURE	Petroleum base hydraulic fluids
FITTING TYPE	K-Series and S-Series with SN2 Ferrules



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	REINFORCING
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)	where applic
BF2SC-04	1/4" 2SC 2-WIRE HYDRAULIC HOSE	1/4"	6.3	13.4	7250	6.3	50	2
BF2SC-06	3/8" 2SC 2-WIRE HYDRAULIC HOSE	3/8"	9.5	17.2	6500	9.5	65	2
BF2SC-08	1/2" 2SC 2-WIRE HYDRAULIC HOSE	1/2"	12.7	20.6	5800	20.6	90	2

HIGH-TEMP HOSE GA1SNHT R5 RANGE

HIGH TEMPERATURE HYDRAULIC HOSE

PROPERTIES

APPLICATION	Petroleum base hydraulic fluids
STANDARD	Meets or exceeds SAE 100R5; SAE J1402 Type All, Dot FMVSS 106 Type All
TEMPERATURE RANGE	-40° - 150°
CORE	
REINFORCEMENT	One Braid Textile, One Braid Steel
COVER	Polyester/Textile Braid impregnated with Rubber
FEATURE	High Temp Hose
FITTING TYPE	K-Series 1 Piece Fittings



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	REINFORCING
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)	where applic
GA1SNHT-04	1/4" 1W R5 HIGH TEMP HOSE	1/4"	4.8	13	3000	207	76	1
GA1SNHT-06	3/8" 1W R5 HIGH TEMP HOSE	3/8"	7.9	17	2250	155	102	1
GA1SNHT-08	1/2" 1W R5 HIGH TEMP HOSE	1/2"	10.3	20	2000	139	117	1
GA1SNHT-10	5/8" 1W R5 HIGH TEMP HOSE	5/8"	12.7	24	1750	121	140	1
GA1SNHT-12	3/4" 1W R5 HIGH TEMP HOSE	3/4"	15.9	29	1500	103	165	1
GA1SNHT-16	1" 1W R5 HIGH TEMP HOSE	1"	22.2	35	800	55	187	1
GA1SNHT-20	1 1/4" 1W R5 HIGH TEMP HOSE	1 1/4"	???	42.5	???	???	???	1

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NEW PRODUCT RANGE

BALFLEX SUPER COMPACT HOSE

Extremely high pressure compact, double steel braid reinforced hydraulic hose.

KEY FEATURES OF BALFLEX SUPER COMPACT HOSE:



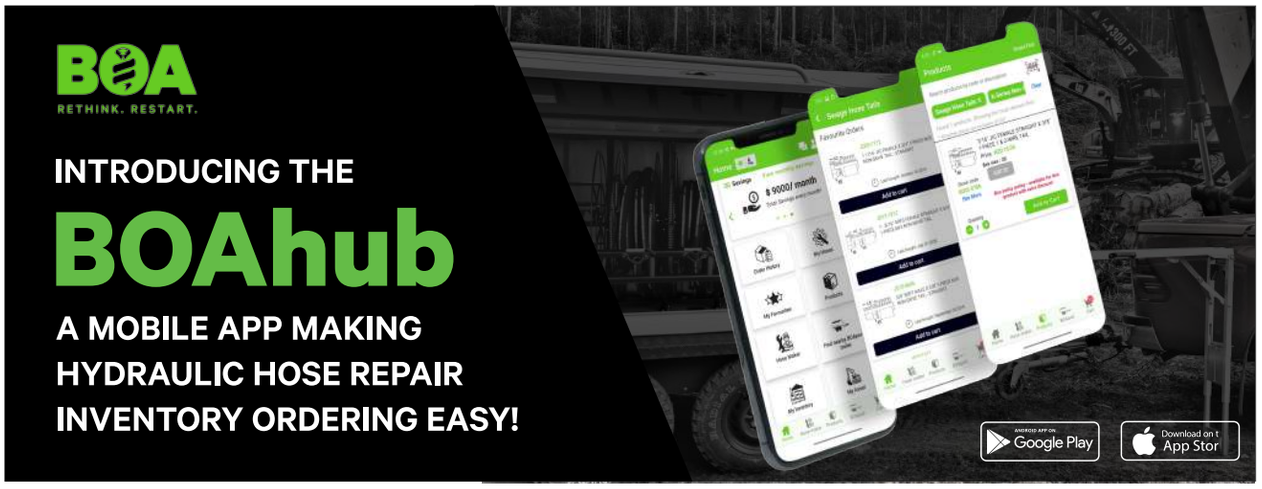
Extremely
High Pressure



Matched with 1-piece
K Series Fittings



Exceeds DIN 857 2SC
& SAE 100R16 – 10.1010



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MULTI PURPOSE

RMPBS - SILFLO BLACK MULTI-PURPOSE HOSE - AIR/OIL/WATER/PETROL

COST EFFECTIVE MULTI-PURPOSE RUBBER HOSE SUITABLE FOR AIR, OIL, WATER (NON POTABLE), PETROL, DIESEL, ETC. SILFLO QUALITY FOR PEACE OF MIND.

PROPERTIES

COMMON APPLICATION	Multi-purpose hose suitable for conveying air, water, oil, petroleum and various chemicals.
SAFETY FACTOR 3:1	Burst pressure is three times that of working pressure.
EXTRUDED CONSTRUCTION TUBE:	Black smooth Nitrile rubber, resistant to 55% aromatic content.
REINFORCEMENT	Braided synthetic cord.
COVER	Rubber, wrapped construction, abrasion & weather resistant.
TEMPERATURE RANGE	-25 °C to 100 °C



CODE	DESCRIPTION	HOSE BORE		WORKING PRESSURE		FULL COIL SIZE * (M) *Coil size indiciates the usual coil full coil size, but does not guarantee full coils will always be available
		(I.D) Inch	(I.D) (mm)	(PSI)	(BAR)	
RMP10BS	10MM SILflo BLK HOSE-AIR/OIL/WATER (100m)	3/8	10	400	28	100
RMP13BS	13MM SILflo BLK HOSE-AIR/OIL/WATER (50m)	1/2	13	400	28	50
RMP16BS	16MM SILflo BLK HOSE-AIR/OIL/WATER (100m)	5/8	16	400	28	50
RMP19BS	19MM SILflo BLK HOSE-AIR/OIL/WATER (50m)	3/4	19	300	21	50
RMP25BS	25MM SILflo BLK HOSE-AIR/OIL/WATER (50m)	1	25	300	21	50

SUCTION DELIVERY HOSE RPS1 R4 RANGE

PROPERTIES

COMMON APPLICATION	Multi-purpose hose suitable for hydraulic oils and fuel with aromatic content <40%.
STANDARDS	Meets or exceeds SAE 100R4
EXTRUDED CONSTRUCTION TUBE:	Black smooth rubber
REINFORCEMENT	High tensile textile plies, helix wire embedded
COVER	Black Synthetic Rubber
TEMPERATURE RANGE	-40 °C to 100 °C



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	MATCHED T-BOLT CLAMPS
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)	where applic
RPSI-019	19MM (3/4") R4 SUCTION & DELIVERY HOSE	3/4	19	32	120	84	125	CCMAR3033
RPSI-025	25MM (1") R4 SUCTION & DELIVERY HOSE	1	25	38	250	17	150	CCMAR3639
RPSI-032	32MM (1 1/4") R4 SUCTION & DELIVERY HOSE	2	32	44	200	14	200	CCMAR4447
RPSI-038	38MM (1 1/2") R4 SUCTION & DELIVERY HOSE	1 1/2	38	52	140	10	255	CCMAR5255
RPSI-051	51MM (2") R4 SUCTION & DELIVERY HOSE	2	51	65	100	7	300	CCMAR6467

T-BOLT CLAMP RANGE

PROPERTIES

COMMON APPLICATION	???
STANDARDS	???
EXTRUDED CONSTRUCTION TUBE:	???
REINFORCEMENT	???
COVER	???
TEMPERATURE RANGE	???

CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS	MATCHED T-BOLT CLAMPS
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)	where applic
???	???	???	???	???	???	???	???	???
???	???	???	???	???	???	???	???	???
???	???	???	???	???	???	???	???	???
???	???	???	???	???	???	???	???	???
???	???	???	???	???	???	???	???	???

HYDRAULIC HOSE ASSEMBLIES

BOA offers a full hose assembly service, focusing largely on the OEM and water-blaster markets. Our press is also large enough to handle the bigger hoses that a lot of customers don't have the capacity or stock to make.

Give us a call to discuss your needs 0800 20 20 20



OEM ASSEMBLIES:

Manufacture equipment requiring hydraulic hoses? BOA can manufacture hoses and pack them in kits with all applicable adapters so all that is left for you to do is fit them to what you make!



WATER-BLASTER HOSE ASSEMBLIES:

From little to long, BOA can manufacture the hose for your pressure washer.

THERMOPLASTIC

BFR8 - R8 TWO-BRAID THERMOPLASTIC HOSE

AVAILABLE AS STANDARD BLACK

Use SN8 Ferrules with SFR8 - see 75

PROPERTIES

APPLICATION	High pressure Hydraulic Lines 100 to 420 bar. Compact, high pressure, light weight and low change in length. Suitable for hydraulic application with increased resistance to abrasion. For use with petroleum, synthetic or water based fluids in hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Safety, Rescue and material handling equipment.
APPLICABLE STANDARD	SAE 100 R8 / DIN EN 855
CORE	Thermoplastic Elastomer
REINFORCEMENT	2 braid of Aramid fiber
COVER	Polyurethane
CONTINUOUS	-40°C to +100°C temp. not to exceed +70°C for Air and water based fluids.
FITTING TYPE	Suits 1-Piece S Series with SN8 Ferrules.



CODE	DESCRIPTION	HOSE BORE		HOSE O.D. *It is normal for this to vary slightly due to manufacturing processes	WORKING PRESSURE		MINIMUM BEND RADIUS
		(I.D) Inch	(I.D) (mm)	(mm)	(PSI)	(BAR)	(mm)
BFR8-03	3/16" R8 THERMOPLASTIC HOSE	3/16"	4.8	10.29	5100	345	25
BFR8-04	1/4" R8 THERMOPLASTIC HOSE	1/4"	6.4	12.3	5100	34	32
BFR8-06	3/8" R8 THERMOPLASTIC HOSE	3/8"	9.5	16.38	4100	276	55
BFR8-08	1/2" R8 THERMOPLASTIC HOSE	1/2"	12.7	19.3	3600	241	77

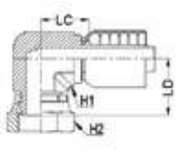
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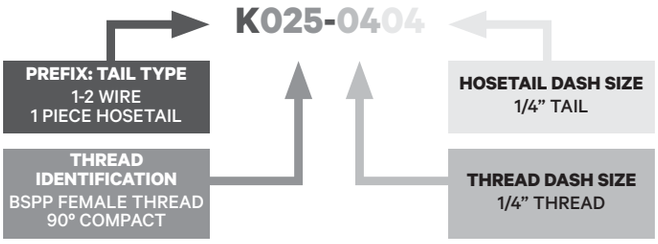
FITTINGS

IDENTIFYING FITTINGS PART NUMBERS

BOA Hydraulics easy-to-use part numbering system splits fittings codes into four essential components to give an accurate product description in code form. Use our handy fittings key on the next page to identity your thread and tail type to turn directly to the part you are after.

EXAMPLES:





PREFIX:

PREFIX	TAIL TYPE
K	1-2 WIRE ONE PIECE HOSETAIL
J	MULTI-SPIRAL ONE PIECE TAIL
S	2 PIECE SWAGE HOSETAIL

THREAD ID NUMBERS:

PREFIX	TAIL TYPE	PREFIX	TAIL TYPE		
001	BSPP FEMALE	029	JIC FEMALE - 90° COMPACT	070	KOMATSU (JIS METRIC) FEMALE
002	BSPP FEMALE FLAT FACE	030	KARCHER FEMALE	074	FRENCH METRIC FEMALE
003	SAE FEMALE	031	KARCHER GUN INSERT	078	DKOS MALE METRIC HEAVY
005	JIC FEMALE	040	ORFS MALE	079	DKOS FEMALE METRIC HEAVY
012	BSPP MALE	051	BSPP FEMALE - 90° SWEPT	080	DKOL MALE METRIC LIGHT
013	ORFS FEMALE	052	ORFS FEMALE SWEPT - 90° SWEPT	081	DKOL FEMALE METRIC LIGHT
015	BSPT MALE	055	JIC FEMALE - 90° SWEPT	082	METRIC STANDPIPE
016	NPT MALE	059	SAE FLANGE CODE 61 - 90° SWEPT	083	DKOS FEMALE METRIC HEAVY - 90° SWEPT
018	JIC MALE	060	BSPP FEMALE - 45° SWEPT	084	DKOS FEMALE METRIC HEAVY - 45° SWEPT
020	UNO MALE	061	SAE FLANGE CODE 62 - 90° SWEPT	086	DKOS FEMALE METRIC LIGHT - 90° SWEPT
022	SAE CODE 62 FLANGE STRAIGHT	062	SAE FLANGE CODE 62 - 45° SWEPT	087	DKOS FEMALE METRIC LIGHT - 45° SWEPT
023	SAE CODE 61 FLANGE STRAIGHT	063	ORFS FEMALE - 45° SWEPT	090	HOSE JOINER
025	BSPP FEMALE - 90° COMPACT	064	JIC FEMALE - 45° SWEPT	096	LIFESAVER
026	JIS (BSP) INVERTED FLARE FEMALE	068	SAE FLANGE CODE 61 - 45° SWEPT		

IMPERIAL THREAD SIZE / TAIL SIZE:

DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE
02	1/8"	09	9/16"	17	1 - 1/16"	27	1 - 11/16"
03	3/16"	10	5/8"	19	1 - 3/16"	30	1 - 7/8"
04	1/4"	11	11/16"	20	1 - 1/4"	32	2"
05	5/16"	12	3/4"	21	1 - 5/16"	40	2 - 1/2"
06	3/8"	13	13/16"	23	1 - 7/16"	???	???
07	7/16"	14	7/8"	24	1 - 1/2"	???	???
08	1/2"	16	1"	26	1 - 5/8"	???	???

METRIC THREAD SIZE/TAIL SIZE NOTE: USE ONLY FOR METRIC THREADS

DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE
06	6 MM	15	15 MM	26	26 MM	36	36 MM
08	8 MM	16	16 MM	28	28 MM	38	38 MM
10	10 MM	18	18 MM	30	30 MM	40	40 MM
11	11 MM	20	20 MM	32	32 MM	42	42 MM
12	12 MM	22	22 MM	33	33 MM	45	45 MM
14	14 MM	24	24 MM	34	34 MM	52	52 MM

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FITTINGS INDEX

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(Suit 1-wire and 2-wire hose)

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J-SERIES 1-PIECE FITTINGS
(Suit 4 & 6 wire hose)

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2-PIECE FITTINGS

Use with SN3 Ferrules for 1-wire and 2-wire hose.
Use with SMSNS Ferrules for 4 & 6 wire hose.
See page 70

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KARCHER	PAGE 71

'Cat' or 'Supercat' flanges refer to a flange that conforms to SAE Code 62 in all aspects except the head thickness which is 14.2mm. Code 62 flanges can be adapted to replace 'cat' flanges either with a packer, or by replacing the Flange Clamps with standard Code 62 clamps. For spacers see page 134.

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K-SERIES 1-PIECE FITTINGS (to suit 1 - 2 wire braid hose)

BSP

BSP

K001 - BSPP FEMALE X 1-2 WIRE 1-PIECE TAIL
PAGE 29

BSP

K012 - BSPP PARALLEL MALE X 1-2 WIRE 1-PIECE TAIL
PAGE 29

BSP

K015 - BSPT TAPER MALE X 1-2 WIRE 1-PIECE TAIL
PAGE 29

BSP

K025 - BSPP FEMALE 90° COMPACT X 1-2 WIRE 1-PIECE TAIL
PAGE 30

BSP

K051 - BSPP FEMALE 90° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 30

BSP

K060 - BSPP FEMALE X 1-2 WIRE 1-PIECE TAIL
PAGE 30

JIC

JIC

K005 - JIC FEMALE X 1-2 WIRE 1-PIECE TAIL
PAGE 31

JIC

K018 - JIC MALE X 1-2 WIRE 1-PIECE TAIL
PAGE 31

JIC

K029 - JIC FEMALE 90° COMPACT X 1-2 WIRE 1-PIECE TAIL
PAGE 31

JIC

K055 - JIC FEMALE 90° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 32

JIC

K064 - JIC FEMALE 45° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 32

ORFS

ORFS

K013 - ORFS FEMALE X 1-2 WIRE 1-PIECE TAIL
PAGE 32

ORFS

K040 - ORFS MALE X 1-2 WIRE 1-PIECE TAIL
PAGE 33

ORFS

K052 - ORFS FEMALE 90° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 33

ORFS

K063 - ORFS FEMALE 45° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 33

METRIC

DKOS

K080 - DKOL MALE METRIC LIGHT X 1-2 WIRE 1-PIECE TAIL
PAGE 34

DKOS

K081 - DKOL FEMALE METRIC LIGHT X 1-2 WIRE 1-PIECE TAIL
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DKOS

K087 - DKOL FEMALE METRIC LIGHT 45° SWEPT X 1-2 WIRE 1-PIECE TAIL
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DKOS

K086 - DKOL FEMALE METRIC LIGHT 90° SWEPT X 1-2 WIRE 1-PIECE TAIL
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DKOS

K078 - DKOS MALE METRIC HEAVY X 1-2 WIRE 1-PIECE TAIL
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DKOS

K079 - DKOS FEMALE METRIC HEAVY X 1-2 WIRE 1-PIECE TAIL
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DKOS

K083 - DKOS FEMALE METRIC HEAVY 90° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 36

SAE

SAE

K023 - SAE CODE 61 STAIGHT FLANGE X 1-2 WIRE 1-PIECE TAIL
PAGE 36

SAE

K068 - SAE FLANGE CODE 61 45° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 36

SAE

K059 - SAE FLANGE CODE 61 90° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 37

SAE

K022 - SAE CODE 62 STRAIGHT FLANGE X 1-2 WIRE 1-PIECE TAIL
PAGE 37

SAE

K062 - SAE FLANGE CODE 62 90° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 37

SAE

K061 - SAE FLANGE CODE 62 90° SWEPT X 1-2 WIRE 1-PIECE TAIL
PAGE 37

KOMATSU

KOMATSU

K070 - KOMATSU FEMALE X 1-2 WIRE 1-PIECE TAIL
PAGE 38

OTHER

JIS

K026 - JIS (BSP) INVERTED FLARE FEMALE X 1-2 WIRE 1-PIECE TAIL
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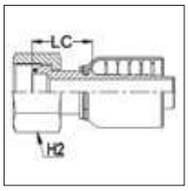
HOSE JOINER

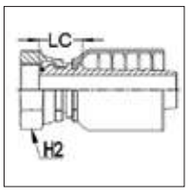
K090 - HOSE JOINER X 1-2 WIRE 1-PIECE TAIL
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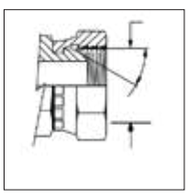
LIFE SAVER

K096 - LIFESAVER X 1-2 WIRE 1-PIECE TAIL
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K001 - BSPP FEMALE X 1-2 WIRE 1-PIECE TAIL

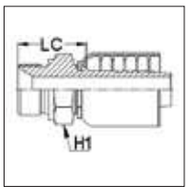


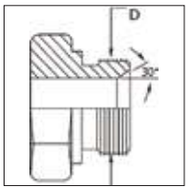




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)
K001-0204	BSPP FEMALE	1/8" - 28	1/8"	8.59	1/4"	15.2	14
K001-0404	BSPP FEMALE	1/4" - 19	1/4"	11.46	1/4"	20.7	19
K001-0406	BSPP FEMALE	1/4" - 19	1/4"	11.46	3/8"	17.5	19
K001-0604	BSPP FEMALE	3/8" - 19	3/8"	14.96	1/4"	23.2	22
K001-0606	BSPP FEMALE	3/8" - 19	3/8"	14.96	3/8"	23.5	22
K001-0608	BSPP FEMALE	3/8" - 19	3/8"	14.96	1/2"	18.0	22
K001-0804	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/4"	24.2	27
K001-0806	BSPP FEMALE	1/2" - 14	1/2"	18.65	3/8"	24.5	27
K001-0808	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/2"	24.5	27
K001-1208	BSPP FEMALE	3/4" - 14	3/4"	24.13	1/2"	28.4	32
K001-1212	BSPP FEMALE	3/4" - 14	3/4"	24.13	3/4"	20.8	32
K001-1616	BSPP FEMALE	1" - 11	1"	30.3	1"	24.5	38
K001-2020	BSPP FEMALE	1 .1/4" - 11	1 1/4"	38.97	1 1/4"	33.0	50

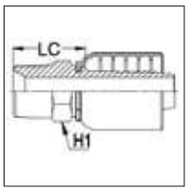
K012 - BSPP PARALLEL MALE X 1-2 WIRE 1-PIECE TAIL

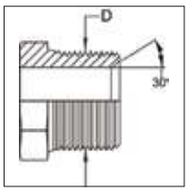




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)
K012-0404	BSPP MALE	1/4" - 19	1/4"	13.16	1/4"	26.2	19
K012-0604	BSPP MALE	3/8" - 19	3/8"	16.67	1/4"	27.7	22
K012-0606	BSPP MALE	3/8" - 19	3/8"	16.67	3/8"	28.0	22
K012-0608	BSPP MALE	3/8" - 19	3/8"	16.67	1/2"	28.0	22
K012-0806	BSPP MALE	1/2" - 14	1/2"	20.96	3/8"	31.5	27
K012-0808	BSPP MALE	1/2" - 14	1/2"	20.96	1/2"	31.5	27
K012-1212	BSPP MALE	3/4" - 14	3/4"	26.45	3/4"	35.8	32
K012-1616	BSPP MALE	1" - 11	1"	33.25	1"	42.5	41

K015 - BSPT TAPER MALE X 1-2 WIRE 1-PIECE TAIL

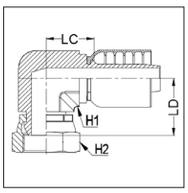


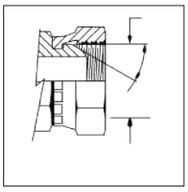


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)
K015-0204	BSPT MALE	1/8" - 28	1/8"	9.73	1/4"	22.2	12
K015-0404	BSPT MALE	1/4" - 19	1/4"	13.16	1/4"	26.7	17
K015-0406	BSPT MALE	1/4" - 19	1/4"	13.16	3/8"	27.0	17
K015-0604	BSPT MALE	3/8" - 19	3/8"	16.67	1/4"	28.2	19
K015-0605	BSPT MALE	3/8" - 19	3/8"	16.67	5/16"		
K015-0606	BSPT MALE	3/8" - 19	3/8"	16.67	3/8"	28.5	19
K015-0608	BSPT MALE	3/8" - 19	3/8"	16.67	1/2"	28.5	19
K015-0806	BSPT MALE	1/2" - 14	1/2"	20.96	3/8"	33.5	22
K015-0808	BSPT MALE	1/2" - 14	1/2"	20.96	1/2"	33.5	22
K015-0812	BSPT MALE	1/2" - 14	1/2"	20.06	3/4"	33.5	22
K015-1208	BSPT MALE	3/4" - 14	3/4"	26.45	1/2"	34.5	27
K015-1212	BSPT MALE	3/4" - 14	3/4"	26.45	3/4"	34.8	27
K015-1616	BSPT MALE	1" - 11	1"	33.25	1"	46.0	36
K015-2020	BSPT MALE	1 1/4" - 11	1 1/4"	41.91	1 1/4"	50.5	46

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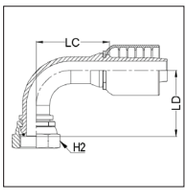
K025 - BSPP FEMALE 90° COMPACT X 1-2 WIRE 1-PIECE TAIL

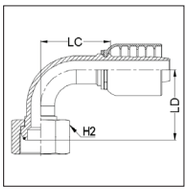


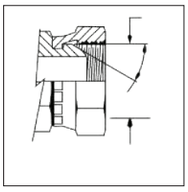


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA			
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1	H2	LD
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)	(mm)
K025-0404	BSPP FEMALE	1/4" - 19	1/4"	11.46	1/4"	17.5	11	19	18.5
K025-0604	BSPP FEMALE	3/8" - 19	3/8"	14.96	1/4"	20.0	16	22	24.0
K025-0606	BSPP FEMALE	3/8" - 19	3/8"	14.96	3/8"	20.0	16	22	24.0
K025-0806	BSPP FEMALE	1/2" - 14	1/2"	18.65	3/8"	23.5	19	27	28.5
K025-0808	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/2"	23.5	19	27	28.5
K025-1008	BSPP FEMALE	5/8" - 14	5/8" *	20.6	1/2"	24.5	22	27	30.5
K025-1212	BSPP FEMALE	3/4" - 14	3/4"	24.13	3/4"	27.5	27	32	33.0
K025-1616	BSPP FEMALE	1" - 11	1"	30.3	1"	43.0	33	38	38.5

K051 - BSPP FEMALE 90° SWEPT X 1-2 WIRE 1-PIECE TAIL

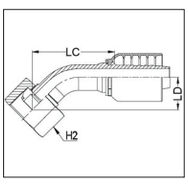


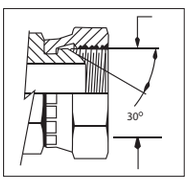




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K051-0204	BSPP FEMALE	1/8" - 28	1/8"	8.59	1/4"	30.3	14	33.7
K051-0404	BSPP FEMALE	1/4" - 19	1/4"	11.46	1/4"	31.7	19	35
K051-0604	BSPP FEMALE	3/8" - 19	3/8"	14.96	1/4"	32.0	22	36
K051-0606	BSPP FEMALE	3/8" - 19	3/8"	14.96	3/8"	33.2	22	36
K051-0608	BSPP FEMALE	3/8" - 19	3/8"	14.96	1/2"	41.2	22	42
K051-0806	BSPP FEMALE	1/2" - 14	1/2"	18.65	3/8"	33.2	27	35.5
K051-0808	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/2"	37.4	27	40.5
K051-1212	BSPP FEMALE	3/4" - 14	3/4"	24.13	3/4"	56.7	32	53
K051-1616	BSPP FEMALE	1" - 11	1"	30.3	1"	72.4	38	68

K060 - BSPP FEMALE X 1-2 WIRE 1-PIECE TAIL

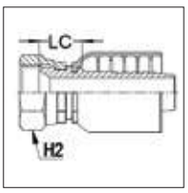


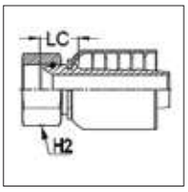


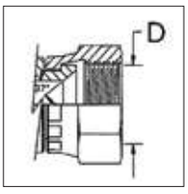
THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K060-0404	BSPP FEMALE	1/4" - 19	1/4"	11.46	1/4"	42.5	19	18.4
K060-0604	BSPP FEMALE	3/8" - 19	3/8"	14.96	1/4"	43.7	22	19.4
K060-0606	BSPP FEMALE	3/8" - 19	3/8"	14.96	3/8"	44.7	22	19.7
K060-0608	BSPP FEMALE	3/8" - 19	3/8"	14.96	1/2"	44.3	27	19.4
K060-0806	BSPP FEMALE	1/2" - 14	1/2"	18.65	3/8"	44.3	27	19.4
K060-0808	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/2"	49.1	27	21.6
K060-1212	BSPP FEMALE	3/4" - 14	3/4"	24.13	3/4"	67.1	32	26.3
K060-1616	BSPP FEMALE	1" - 11	1"	30.3	1"	80.5	38	31.5

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K005 - JIC FEMALE X 1-2 WIRE 1-PIECE TAIL

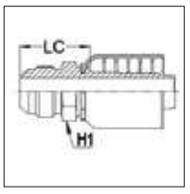


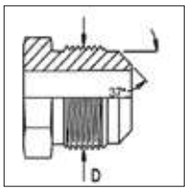




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)
K005-0704	JIC FEMALE	7/16" - 20	1/4"	10	1/4"	14.7	15
K005-0706	JIC FEMALE	7/16" - 20	1/4"	10	3/8"	15	15
K005-0804	JIC FEMALE	1/2" - 20	5/16"	11.6	1/4"	15.2	17
K005-0806	JIC FEMALE	1/2" - 20	5/16"	11.6	3/8"	15.5	17
K005-0904	JIC FEMALE	9/16" - 18	3/8"	13	1/4"	15.2	19
K005-0906	JIC FEMALE	9/16" - 18	3/8"	13	3/8"	15.5	19
K005-1206	JIC FEMALE	3/4" - 16	1/2"	17.6	3/8"	18.0	25
K005-1208	JIC FEMALE	3/4" - 16	1/2"	17.6	1/2"	18.0	25
K005-1406	JIC FEMALE	7/8" - 14	5/8"	20.5	3/8"	20.0	27
K005-1408	JIC FEMALE	7/8" - 14	5/8"	20.5	1/2"	20.0	27
K005-1412	JIC FEMALE	7/8" - 14	5/8"	20.5	3/4"	20.3	27
K005-1708	JIC FEMALE	1 1/16" - 12	3/4"	25	1/2"	20.5	32
K005-1712	JIC FEMALE	1 1/16" - 12	3/4"	25	3/4"	20.8	32
K005-2112	JIC FEMALE	1 5/16" - 12	1"	31.3	3/4"	22.3	38
K005-2116	JIC FEMALE	1 5/16" - 12	1"	31.3	1"	24.0	38
K005-2616	JIC FEMALE	1 5/8" - 12	1 1/4"	39.2	1"	26.6	50
K005-2620	JIC FEMALE	1 5/8" - 12	1 1/4"	39.2	1 1/4"	28.1	50

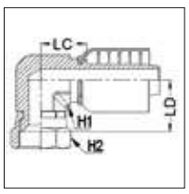
K018 - JIC MALE X 1-2 WIRE 1-PIECE TAIL

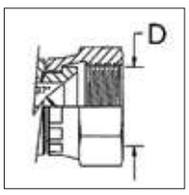




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)
K018-0704	JIC MALE	7/16" - 20	1/4"	11.07	1/4"	25.2	12
K018-0804	JIC MALE	1/2" - 20	5/16"	12.7	1/4"	25.2	14
K018-0904	JIC MALE	9/16" - 18	3/8"	14.25	1/4"	26.2	17
K018-0906	JIC MALE	9/16" - 18	3/8"	14.25	3/8"	26.5	17
K018-1206	JIC MALE	3/4" - 16	1/2"	19	3/8"	30.0	19
K018-1208	JIC MALE	3/4" - 16	1/2"	19	1/2"	30.0	19
K018-1408	JIC MALE	7/8" - 14	5/8"	22.17	1/2"	34.0	24
K018-1708	JIC MALE	1 1/16" - 12	3/4"	26.95	1/2"	36.5	27
K018-1712	JIC MALE	1 1/16" - 12	3/4"	26.95	3/4"	36.8	27
K018-2116	JIC MALE	1 5/16" - 12	1"	33.3	1"	43.5	36

K029 - JIC FEMALE 90° COMPACT X 1-2 WIRE 1-PIECE TAIL

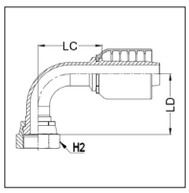


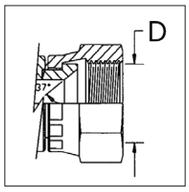


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1	H2
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K029-0704	JIC FEMALE	7/16" - 20	1/4"	10	1/4"	17.5	11	15
K029-0904	JIC FEMALE	9/16" - 18	3/8"	13	1/4"	20	16	19
K029-0906	JIC FEMALE	9/16" - 18	3/8"	13	3/8"	20.0	16	19
K029-1206	JIC FEMALE	3/4" - 16	1/2"	17.6	3/8"	23.5	19	25
K029-1208	JIC FEMALE	3/4" - 16	1/2"	17.6	1/2"	23.5	19	25
K029-1408	JIC FEMALE	7/8" - 14	5/8"	20.5	1/2"	23.5	19	27
K029 - 1708	JIC FEMALE	1 1/16" - 12	3/4"	30.1	1/2"	23.5	27	32
K029 - 1712	JIC FEMALE	1 1/16" - 12	3/4"	30.1	3/4"	27.5	27	32

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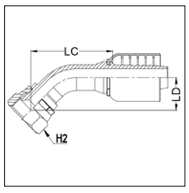
K055 - JIC FEMALE 90° SWEPT X 1-2 WIRE 1-PIECE TAIL

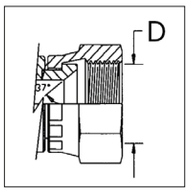




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K055-0704	JIC FEMALE	7/16" - 20	1/4"	10	1/4"	30.3	15	29.5
K055-0804	JIC FEMALE	1/2" - 20	5/16"	11.6	1/4"	30.3	17	30
K055-0904	JIC FEMALE	9/16" - 18	3/8"	13	1/4"	30.3	19	30
K055-0906	JIC FEMALE	9/16" - 18	3/8"	13	3/8"	31.9	19	31
K055-1206	JIC FEMALE	3/4" - 16	1/2"	17.6	3/8"	31.9	25	34.5
K055-1208	JIC FEMALE	3/4" - 16	1/2"	17.6	1/2"	35.9	25	39.5
K055-1408	JIC FEMALE	7/8" - 14	5/8"	20.5	1/2"	35.9	27	40.5
K055-1712	JIC FEMALE	1 1/16" - 12	3/4"	25	3/4"	56.7	32	53
K055-2116	JIC FEMALE	1 5/16" - 12	1"	31.3	1"	72.4	38	67.5

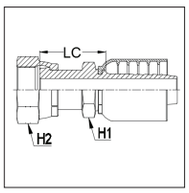
K064 - JIC FEMALE 45° SWEPT X 1-2 WIRE 1-PIECE TAIL

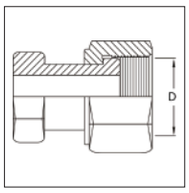




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K064-0704	JIC FEMALE	7/16" - 20	1/4"	10	1/4"	38.2	15	15.5
K064-0904	JIC FEMALE	9/16" - 18	3/8"	13	1/4"	38.6	19	15.8
K064-0906	JIC FEMALE	9/16" - 18	3/8"	13	3/8"	39.9	19	16.2
K064-1206	JIC FEMALE	3/4" - 16	1/2"	17.6	3/8"	42.4	25	18.6
K064-1208	JIC FEMALE	3/4" - 16	1/2"	17.6	1/2"	48.7	25	20.7
K064-1408	JIC FEMALE	7/8" - 14	5/8"	20.5	1/2"	49.4	27	22.8
K064-1410	JIC FEMALE	7/8" - 14	5/8"	20.5	5/8"	55.8	27	22.8
K064-1708	JIC FEMALE	1 1/16" - 12	3/4"	25	1/2"	50.8	32	22.9
K064-1712	JIC FEMALE	1 1/16" - 12	3/4"	25	3/4"	67.1	32	26.3
K064-2116	JIC FEMALE	1 5/16" - 12	1"	31.3	1"	79.7	38	32

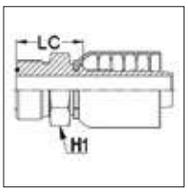
K013 - ORFS FEMALE X 1-2 WIRE 1-PIECE TAIL

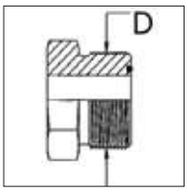




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1	H2
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K013-0904	ORFS FEMALE	9/16 - 18	1/4"	12.95	1/4"	27.2	14	17
K013-0906	ORFS FEMALE	9/16 - 18	1/4"	12.95	3/8"	28.5	17	17
K013-1104	ORFS FEMALE	11/16 - 16	3/8"	16	1/4"	30.2	17	22
K013-1106	ORFS FEMALE	11/16 - 16	3/8"	16	3/8"	30.5	17	22
K013-1108	ORFS FEMALE	11/16 - 16	3/8"	16	1/2"	31.5	22	22
K013-1306	ORFS FEMALE	13/16 - 16	1/2"	19.05	3/8"	35.5	22	24
K013-1308	ORFS FEMALE	13/16 - 16	1/2"	19.05	1/2"	35.5	22	24
K013-1608	ORFS FEMALE	1 - 14	5/8"	23.62	1/2"	39.0	24	30
K013-1908	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	1/2"	41.5	30	36
K013-1912	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	3/4"	41.8	30	36
K013-2316	ORFS FEMALE	1. 7/16 - 12	1"	34.54	1"	49.5	36	41

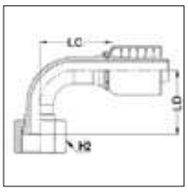
K040 - ORFS MALE X 1-2 WIRE 1-PIECE TAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)
K040-0904	ORFS MALE	9/16 - 18	1/4"	14.22	1/4"	22.2	17
K040-1106	ORFS MALE	11/16- 16	3/8"	17.52	3/8"	24.5	19
K040-1306	ORFS MALE	13/16 - 16	1/2"	20.82	3/8"	26.5	22
K040-1308	ORFS MALE	13/16 - 16	1/2"	20.82	1/2"	26.5	22
K040-1608	ORFS MALE	1" - 14	5/8"	XX	1/2"	XX	XX
K040-1912	ORFS MALE	1. 3/16 - 12	3/4"	30.22	3/4"	33.8	32
K040-2316	ORFS MALE	1. 7/16 - 12	1"	36.57	1"	38.0	38

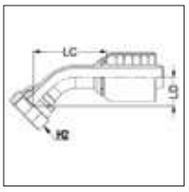
K052 - ORFS FEMALE 90° SWEPT X 1-2 WIRE 1-PIECE TAIL

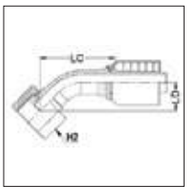




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K052-0904	ORFS FEMALE	9/16 - 18	1/4"	12.95	1/4"	32.0	17	26.5
K052-1104	ORFS FEMALE	11/16 - 16	3/8"	16	1/4"	32.0	22	29
K052-1106	ORFS FEMALE	11/16 - 16	3/8"	16	3/8"	33.3	24	30
K052-1306	ORFS FEMALE	13/16 - 16	1/2"	19.05	3/8"	33.3	24	31
K052-1308	ORFS FEMALE	13/16 - 16	1/2"	19.05	1/2"	35.9	24	36
K052-1608	ORFS FEMALE	1 - 14	5/8"	23.62	1/2"	37.9	30	39
K052-1912	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	3/4"	56.3	36	50.5
K052-2316	ORFS FEMALE	1. 7/16 - 12	1"	34.54	1"	71.6	41	64

K063 - ORFS FEMALE 45° SWEPT X 1-2 WIRE 1-PIECE TAIL



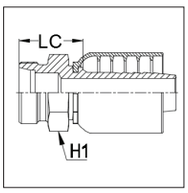


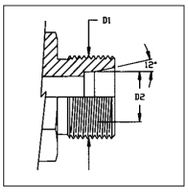


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
		thread size	to suit hard piping size	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K063-0904	ORFS FEMALE	9/16 - 18	1/4"	12.95	1/4"	37.7	17	13.4
K063-1104	ORFS FEMALE	11/16 - 16	3/8"	16	1/4"	39.5	22	15.1
K063-1106	ORFS FEMALE	11/16 - 16	3/8"	16	3/8"	40.5	22	15.5
K063-1306	ORFS FEMALE	13/16 - 16	1/2"	19.05	3/8"	41.2	24	16.2
K063-1308	ORFS FEMALE	13/16 - 16	1/2"	19.05	1/2"	45.9	24	17.9
K063-1912	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	3/4"	65.0	36	24.5
K063-2316	ORFS FEMALE	1. 7/16 - 12	1"	34.54	1"	76.5	41	29.5

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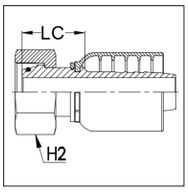
K080 - DKOL MALE METRIC LIGHT X 1-2 WIRE 1-PIECE TAIL

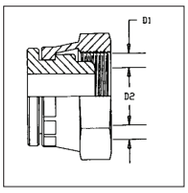




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D2' TUBE SIZE	'D1' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1
		thread size	(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)
K080-1204	DKOL MALE METRIC LIGHT	M12 - 1.5	6	12	1/4"	21.2	12
K080-1404	DKOL MALE METRIC LIGHT	M14 - 1.5	8	14	1/4"	21.2	14
K080-1604	DKOL MALE METRIC LIGHT	M16 - 1.5	10	16	1/4"	23.2	17
K080-1606	DKOL MALE METRIC LIGHT	M16 - 1.5	10	16	3/8"	23.5	17
K080-1806	DKOL MALE METRIC LIGHT	M18 - 1.5	12	18	3/8"	24.5	19
K080-2206	DKOL MALE METRIC LIGHT	M22 - 1.5	15	22	3/8"	25.5	22
K080-2208	DKOL MALE METRIC LIGHT	M22 - 1.5	15	22	1/2"	25.5	22

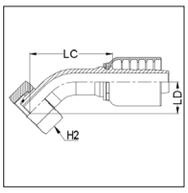
K081 - DKOL FEMALE METRIC LIGHT X 1-2 WIRE 1-PIECE TAIL

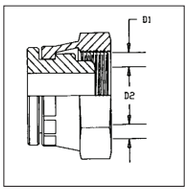




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D2' TUBE SIZE	'D1' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2
		thread size	(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)
K081-1204	DKOL FEMALE METRIC LIGHT	M12 - 1.5	6	10.5	1/4"	24.7	14
K081-1404	DKOL FEMALE METRIC LIGHT	M14 - 1.5	8	12.5	1/4"	24.3	17
K081-1406	DKOL FEMALE METRIC LIGHT	M14 - 1.5	8	12.5	3/8"	26.4	19
K081-1604	DKOL FEMALE METRIC LIGHT	M16 - 1.5	10	14.5	1/4"	25.3	19
K081-1606	DKOL FEMALE METRIC LIGHT	M16 - 1.5	10	14.5	3/8"	27.5	22
K081-1804	DKOL FEMALE METRIC LIGHT	M18 - 1.5	12	16.5	1/4"	25.3	22
K081-1806	DKOL FEMALE METRIC LIGHT	M18 - 1.5	12	16.5	3/8"	25.6	22
K081-2006	DKOL FEMALE METRIC LIGHT	M20 - 1.5	12	18.5	3/8"	27.6	24
K081-2206	DKOL FEMALE METRIC LIGHT	M22 - 1.5	15	20.5	3/8"	27.6	27
K081-2208	DKOL FEMALE METRIC LIGHT	M22 - 1.5	15	20.5	1/2"	27.6	27
K081-2608	DKOL FEMALE METRIC LIGHT	M26 - 1.5	18	24.5	1/2"	28.6	32
K081-2610	DKOL FEMALE METRIC LIGHT	M26 - 1.5	18	24.5	5/8"	28.8	32

K087 - DKOL FEMALE METRIC LIGHT 45° SWEPT X 1-2 WIRE 1-PIECE TAIL

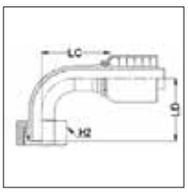


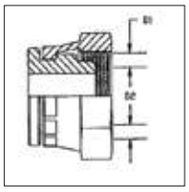


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D2' TUBE SIZE	'D1' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
		thread size	(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K087-1404	DKOL FEMALE METRIC LIGHT	M14 - 1.5	8	12.5	1/4"	41.6	17	17.6
K087-1606	DKOL FEMALE METRIC LIGHT	M16 - 1.5	10	14.5	3/8"	41.6	22	18.5
K087-1806	DKOL FEMALE METRIC LIGHT	M18 - 1.5	12	16.5	3/8"	43.5	22	18.5
K087-2006	DKOL FEMALE METRIC LIGHT	M20 - 1.5			3/8"	44.4	24	19.4
K087-2206	DKOL FEMALE METRIC LIGHT	M22 - 1.5	15	20.5	3/8"	44.4	27	19.4
K087-2208	DKOL FEMALE METRIC LIGHT	M22 - 1.5	15	20.5	1/2"	48.6	27	21.2

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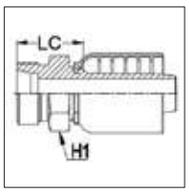
K086 - DKOL FEMALE METRIC LIGHT 90° SWEPT X 1-2 WIRE 1-PIECE TAIL

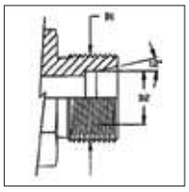




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE/ FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D2' TUBE SIZE	'D1' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
		thread size	(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K086-1204	DKOL FEMALE METRIC LIGHT	M12 - 1.5	6	10.5	1/4"	30.3	14	32.5
K086-1404	DKOL FEMALE METRIC LIGHT	M14 - 1.5	8	12.5	1/4"	31.6	17	32.5
K086-1604	DKOL FEMALE METRIC LIGHT	M16 - 1.5	10	14.5	1/4"	32.0	19	32.8
K086-1606	DKOL FEMALE METRIC LIGHT	M16 - 1.5	10	14.5	1/4"	31.9	22	33.8
K086-1806	DKOL FEMALE METRIC LIGHT	M18 - 1.5	12	16.5	3/8"	33.2	22	34.3
K086-2006	DKOL FEMALE METRIC LIGHT	???	???	???	???	???	???	???
K086-2206	DKOL FEMALE METRIC LIGHT	M22 - 1.5	15	20.5	3/8"	33.3	27	34.9
K086-2208	DKOL FEMALE METRIC LIGHT	M22 - 1.5	15	20.5	1/2"	37.4	27	39.9
K086-2608	DKOL FEMALE METRIC LIGHT	M26 - 1.5	18	24.5	1/2"	43.2	32	43.4
K086-2610	DKOL FEMALE METRIC LIGHT	M26 - 1.5	18	24.5	5/8"	50.5	32	49.4

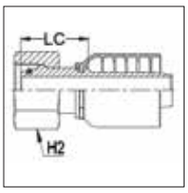
K078 - DKOS MALE METRIC HEAVY X 1-2 WIRE 1-PIECE TAIL

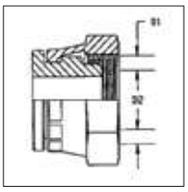




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D2' TUBE SIZE	'D1' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1
		thread size	(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)
K078-1604	DKOS MALE METRIC HEAVY	???	???	???	???	???	???
K078-1804	DKOS MALE METRIC HEAVY	M18 - 1.5	10	18	1/4"	25.2	19
K078-1806	DKOS MALE METRIC HEAVY	M18 - 1.5	10	18	3/8"	25.5	19
K078-2006	DKOS MALE METRIC HEAVY	M20 - 1.5	12	20	3/8"	25.5	22
K078-2206	DKOS MALE METRIC HEAVY	M22 - 1.5	14	22	3/8"	27.5	22
K078-2408	DKOS MALE METRIC HEAVY	M24 - 1.5	16	24	1/2"	28.5	24
K078-3612	DKOS MALE METRIC HEAVY	M36 - 2.0	25	36	3/4"	36.8	36
K078-4216	DKOS MALE METRIC HEAVY	M42 - 2.0	30	45	1"	42.5	46

K079 - DKOS FEMALE METRIC HEAVY X 1-2 WIRE 1-PIECE TAIL

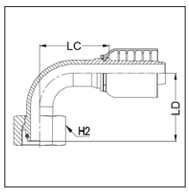


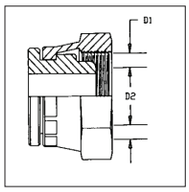


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D2' TUBE SIZE	'D1' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2
		thread size	(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)
K079-1404	DKOS FEMALE METRIC HEAVY	M14 - 1.5	6	12.5	1/4"	26.9	16
K079-1604	DKOS FEMALE METRIC HEAVY	M16 - 1.5	8	14.5	1/4"	27.6	19
K079-1804	DKOS FEMALE METRIC HEAVY	M18 - 1.5	10	16.5	1/4"	27.5	22
K079-1806	DKOS FEMALE METRIC HEAVY	M18 - 1.5	10	16.5	3/8"	28.4	24
K079-2006	DKOS FEMALE METRIC HEAVY	M20 - 1.5	12	18.5	3/8"	27.8	24
K079-2206	DKOS FEMALE METRIC HEAVY	M22 - 1.5	14	20.5	3/8"	27.6	27
K079-2208	DKOS FEMALE METRIC HEAVY	M22 - 1.5	14	20.5	1/2"	27.6	27
K079-2406	DKOS FEMALE METRIC HEAVY	???	???	???	???	???	???
K079-2406	DKOS FEMALE METRIC HEAVY	M24 - 1.5	16	22.5	3/8"	31.1	30
K079-2408	DKOS FEMALE METRIC HEAVY	M24 - 1.5	16	22.5	1/2"	31.1	30

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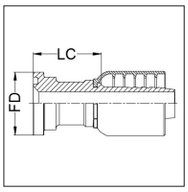
K083 - DKOS FEMALE METRIC HEAVY 90° SWEPT X 1-2 WIRE 1-PIECE TAIL

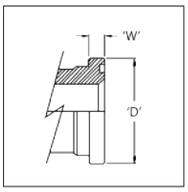




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D2' TUBE SIZE	'D1' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
		thread size	(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K083-1604	DKOS FEMALE METRIC HEAVY	M16 - 1.5	8	14.5	1/4"	31.9	19	32.8
K083-1804	DKOS FEMALE METRIC HEAVY	M18 - 1.5	10	16.5	1/4"	32	22	32.7
K083-1806	DKOS FEMALE METRIC HEAVY	M18 - 1.5	10	16.5	3/8"	33.3	24	32.7
K083-2006	DKOS FEMALE METRIC HEAVY	M20 - 1.5	12	18.5	3/8"	33.3	24	34.7
K083-2206	DKOS FEMALE METRIC HEAVY	M22 - 1.5	14	20.5	3/8"	33.3	27	37
K083-2208	DKOS FEMALE METRIC HEAVY	M22 - 1.5	14	20.5	1/2"			
K083-2408	DKOS FEMALE METRIC HEAVY	M24 - 1.5	16	22.5	1/2"	42.7	30	43.5
K083-3612	DKOS FEMALE METRIC HEAVY	M36 - 2.0	25	34	3/4"	56.3	41	55.5

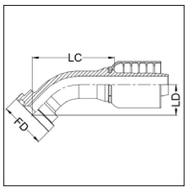
K023 - SAE CODE 61 STRAIGHT FLANGE X 1-2 WIRE 1-PIECE TAIL

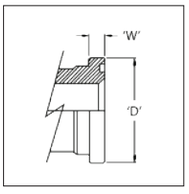




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	FLANGE OD D	FLANGE THICKNESS W	TAIL SIZE	LC
			(mm)	(mm)	(to suit hose I.D)	(mm)
K023-1212	SAE CODE 61 FLANGE	3/4"	38.1	6.73	3/4"	41.7
K023-1612	SAE CODE 61 FLANGE	1"	44.45	8	3/4"	49.7
K023-1616	SAE CODE 61 FLANGE	1"	44.45	8	1"	51.5
K023-2016	SAE CODE 61 FLANGE	1.1/4"	50.8	8	1"	54.0

K068 - SAE FLANGE CODE 61 45° SWEPT X 1-2 WIRE 1-PIECE TAIL

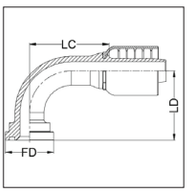


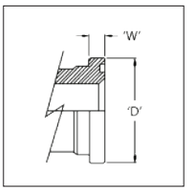


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	FLANGE OD D	FLANGE THICKNESS W	TAIL SIZE	LC	LD
			(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)
K068-0808	SAE FLANGE CODE 61	1/2"	30.18	6.73	1/2"	50.2	21.9
K068-1612	SAE FLANGE CODE 61	1"	44.45	8	3/4"	65.8	25.2

'Cat' or 'Supercat' flanges refer to a flange that conforms to SAE Code 62 in all aspects except the head thickness which is 14.2mm. Code 62 flanges can be adapted to replace 'cat' flanges either with a packer, or by replacing the Flange Clamps with standard Code 62 clamps. For spacers see page 134.

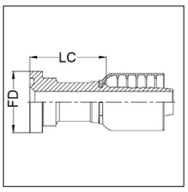
K059 - SAE FLANGE CODE 61 90° SWEPT X 1-2 WIRE 1-PIECE TAIL





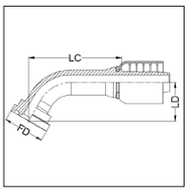
THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	FLANGE OD D	FLANGE THICKNESS W	TAIL SIZE	LC	LD
			(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)
K059-0808	SAE FLANGE CODE 61	1/2"	30.18	6.73	1/2"	42.4	45
K059-1212	SAE FLANGE CODE 61	3/4"	38.1	6.73	3/4"	59.9	55
K059-1612	SAE FLANGE CODE 61	1"	44.45	8	3/4"	59.9	55
K059-1616	SAE FLANGE CODE 61	1"	44.45	8	1"	72.4	62

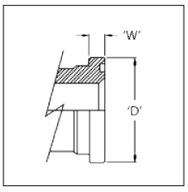
K022 - SAE CODE 62 STRAIGHT FLANGE X 1-2 WIRE 1-PIECE TAIL



THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	FLANGE OD D	FLANGE THICKNESS W	TAIL SIZE	LC
			(mm)	(mm)	(to suit hose I.D)	(mm)
K022-1212	SAE CODE 62 STRAIGHT FLANGE	3/4"	41.28	8.76	3/4"	51.7

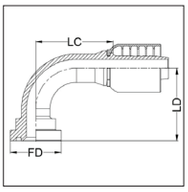
K062 - SAE FLANGE CODE 62 45° SWEPT X 1-2 WIRE 1-PIECE TAIL

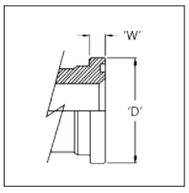




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	FLANGE OD	FLANGE THICKNESS W	TAIL SIZE	LC
			(mm)	(mm)	(to suit hose I.D)	(mm)
K062-2016	SAE FLANGE CODE 62	1 1/4"	53.98	10.29	1"	84

K061 - SAE FLANGE CODE 62 90° SWEPT X 1-2 WIRE 1-PIECE TAIL

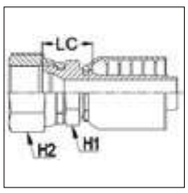




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	FLANGE OD	FLANGE THICKNESS W	TAIL SIZE	LC	LD
			(mm)		(to suit hose I.D)	(mm)	(mm)
K061-1212	SAE FLANGE CODE 62	3/4"	41.28	8.76	3/4"	59.9	59
K061-1616	SAE FLANGE CODE 62	1"	47.63	9.53	1"	72.4	69
K061-2016	SAE FLANGE CODE 62	1 1/4"	53.98	10.29	1"	72.4	73

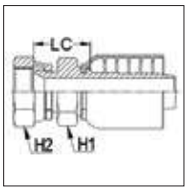
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K070 - KOMATSU FEMALE X 1-2 WIRE 1-PIECE TAIL



THREAD & TERMINATION INFORMATION				HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1	H2
			(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K070-1404	KOMATSU FEMALE	14 - 1.5	12.5	1/4"	20.7	17	19
K070-1406	KOMATSU FEMALE	14 - 1.5	12.5	3/8"	21	17	19
K070-1606	KOMATSU FEMALE	16 - 1.5	14.5	3/8"	22	17	22
K070-1804	KOMATSU FEMALE	18 - 1.5	16.5	1/4"	22.0	19	22
K070-1806	KOMATSU FEMALE	18 - 1.5	16.5	3/8"	22.3	19	22
K070-1808	KOMATSU FEMALE	18 - 1.5	16.5	1/2"	22.3	19	22
K070-2006	KOMATSU FEMALE	???	???	???	???	???	???
K070-2206	KOMATSU FEMALE	???	???	???	???	???	???
K070-2208	KOMATSU FEMALE	22 - 1.5	20.5	1/2"	23.0	22	27
K070-2408	KOMATSU FEMALE	24 - 1.5	22.5	1/2"	26.5	30	32
K070-2412	KOMATSU FEMALE	24 - 1.5	22.5	3/4"	26.8	30	32
K070-3012	KOMATSU FEMALE	30 - 1.5	28.5	3/4"	26.8	30	36
K070-3316	KOMATSU FEMALE	33 - 1.5	31.5	1"	35.8	36	41

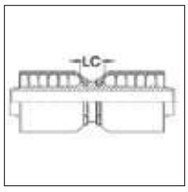
K026 - JIS (BSP) INVERTED FLARE FEMALE X 1-2 WIRE 1-PIECE TAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1	H2
				(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
K026-0404	JIS (BSP) INVERTED FLARE FEMALE	1/4" - 19	1/4"	11.46	1/4"	21.2	19	19
K026-0606	JIS (BSP) INVERTED FLARE FEMALE	3/8" - 19	3/8"	14.96	3/8"	23.0	22	22
K026-0808	JIS (BSP) INVERTED FLARE FEMALE	1/2" - 14	1/2"	18.65	1/2"	25.0	27	27

K090 - HOSE JOINER X 1-2 WIRE 1-PIECE TAIL



THREAD & TERMINATION INFORMATION		HOSETAIL INFO	TECHNICAL DATA
CODE	THREAD TYPE / FITTING TYPE	TAIL SIZE	LC
		(to suit hose I.D)	(mm)
K090-0404	HOSE JOINER	1/4"	12.4
K090-0606	HOSE JOINER	3/8"	13.0
K090-0808	HOSE JOINER	1/2"	13.0
K090-1212	HOSE JOINER	3/4"	15.6
K090-1616	HOSE JOINER	1"	19.0

K096 - LIFESAVER X 1-2 WIRE 1-PIECE TAIL



THREAD & TERMINATION INFORMATION		HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	TAIL SIZE
		(to suit hose I.D)
K096-0004	LIFESAVER	1/4"
K096-0006	LIFESAVER	3/8"
K096-0008	LIFESAVER	1/2"
K096-0012	LIFESAVER	3/4"
K096-0016	LIFESAVER	1"

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BSP

BSP

J001 - BSPP FEMALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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BSP

J012 - BSPP PARALLEL MALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
PAGE 40

BSP

J015 - BSPT TAPER MALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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BSP

J025 - BSPP FEMALE 90° COMPACT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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BSP

J051 - BSPP FEMALE 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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BSP

J060 - BSPP FEMALE 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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JIC

JIC

J005 - JIC FEMALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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JIC

J018 - JIC MALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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JIC

J029 - JIC FEMALE 90° COMPACT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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JIC

J055 - JIC FEMALE 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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JIC

J064 - JIC FEMALE 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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ORFS

ORFS

J013 - ORFS FEMALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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J040 - ORFS MALE X MS355/360 1-PIECE M/S NON-SKIVE TAIL
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ORFS

J052 - ORFS FEMALE 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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ORFS

J063 - ORFS FEMALE 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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SAE

SAE

J023 - SAE CODE 61 STAIGHT FLANGE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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SAE

J068 - SAE FLANGE CODE 61 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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SAE

J059 - SAE FLANGE CODE 61 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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SAE
J059L - SAE FLANGE CODE 61 90° SWEPT LONG X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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SAE

J022 - SAE CODE 62 STRAIGHT FLANGE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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SAE

J062 - SAE FLANGE CODE 62 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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SAE

J061 - SAE FLANGE CODE 62 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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SAE
J061L - SAE FLANGE CODE 62 90° SWEPT LONG X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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METRIC

DKOS

J078 - DKOS METRIC MALE HEAVY X MS355/360 M/S NON-SKIVE TAIL
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DKOS

J079 - DKOS METRIC FEMALE HEAVY X MS355/360 M/S NON-SKIVE TAIL
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OTHER

JIS

J027 - JIS (BSP INVERTED FLARE) FEMALE X MS355 /360 1-PIECE M/S NON-SKIVE TAIL
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HOSE JOINER

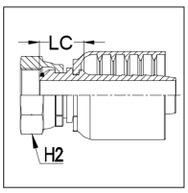
J090 - HOSE JOINER X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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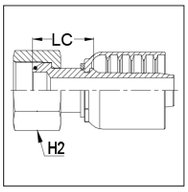
LIFE SAVER

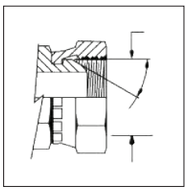
J096 - LIFESAVER X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL
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J001 - BSPP FEMALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

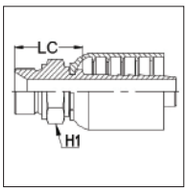


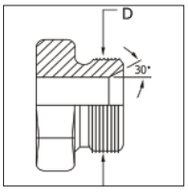




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2
				(mm)	(to suit hose I.D)	(mm)	(mm)
J001-0606	BSPP FEMALE	3/8" - 19	3/8"	14.96	3/8"	23.5	22
J001-0806	BSPP FEMALE	1/2" - 14	1/2"	18.65	3/8"	24.5	27
J001-0808	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/2"	24.4	27
J001-1008	BSPP FEMALE	5/8" - 14	5/8" *	20.6	1/2"	27.6	27
J001-1010	BSPP FEMALE	5/8" - 14	5/8" *	20.6	5/8"	17.7	27
J001-1208	BSPP FEMALE	3/4" - 14	3/4"	24.13	1/2"	28.1	32
J001-1210	BSPP FEMALE	3/4" - 14	3/4"	24.13	5/8"	28.6	32
J001-1212	BSPP FEMALE	3/4" - 14	3/4"	24.13	3/4"	26.9	36
J001-1612	BSPP FEMALE	1" - 11	1"	30.3	3/4"	29.1	41
J001-1616	BSPP FEMALE	1" - 11	1"	30.3	1"	31.6	41
J001-2016	BSPP FEMALE	1 .1/4" - 11	1 1/4"	38.97	1"	34.8	50
J001-2020	BSPP FEMALE	1 .1/4" - 11	1 1/4"	38.97	1 1/4"	36.8	50
J001-2420	BSPP FEMALE	1. 1/2" - 11	1 1/2"	44.86	1 1/4"	38.3	55
J001-2424	BSPP FEMALE	1 1/2" - 11	1 1/2"	44.86	1 1/2"	36.5	55
J001-3232	BSPP FEMALE	2" - 11	2"	56.67	2"	36.5	70

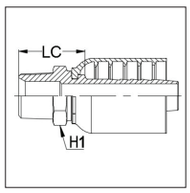
J012 - BSPP PARALLEL MALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

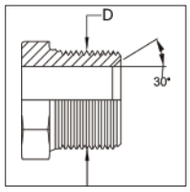




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1
				(mm)	(to suit hose I.D)	(mm)	(mm)
J012-0606	BSPP MALE	3/8" - 19	3/8"	16.67	3/8"	28.0	22
J012-0608	BSPP MALE	3/8" - 19	3/8"	16.67	1/2"	27.8	22
J012-0806	BSPP MALE	1/2" - 14	1/2"	20.96	3/8"	31.5	27
J012-0808	BSPP MALE	1/2" - 14	1/2"	20.96	1/2"	31.3	27
J012-1008	BSPP MALE	5/8" - 14	5/8" *	22.91	1/2"	35.3	30
J012-1010	BSPP MALE	5/8" - 14	5/8" *	22.91	5/8"	35.7	30
J012-1208	BSPP MALE	3/4" - 14	3/4"	26.45	1/2"	35.3	32
J012-1210	BSPP MALE	3/4" - 14	3/4"	26.45	5/8"	35.7	32
J012-1212	BSPP MALE	3/4" - 14	3/4"	26.45	3/4"	38.3	32
J012-1612	BSPP MALE	1" - 11	1"	33.25	3/4"	43.3	41
J012-1616	BSPP MALE	1" - 11	1"	33.25	1"	45.8	41
J012-2016	BSPP MALE	1. 1/4" - 11	1 1/4"	41.91	1"	49.8	50
J012-2020	BSPP MALE	1. 1/4" - 11	1 1/4"	41.91	1 1/4"	51.5	50
J012-2420	BSPP MALE	1 .1/2" - 11	1 1/2"	47.81	1 1/4"	55.7	55

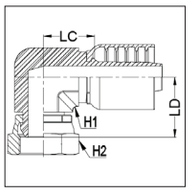
J015 - BSPT TAPER MALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

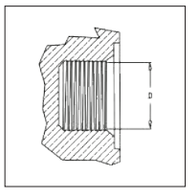




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1
				(mm)	(to suit hose I.D)	(mm)	(mm)
J015-0606	BSPT MALE	3/8" - 19	3/8"	16.67	3/8"	28.5	19
J015-0806	BSPT MALE	1/2" - 14	1/2"	20.96	3/8"	33.5	22
J015-0808	BSPT MALE	1/2" - 14	1/2"	20.96	1/2"	33.3	22
J015-1210	BSPT MALE	3/4" - 14	3/4"	26.45	5/8"	34.7	27
J015-1212	BSPT MALE	3/4" - 14	3/4"	26.45	3/4"	37.3	27
J015-1612	BSPT MALE	1" - 11	1"	33.25	3/4"	46.8	36
J015-1616	BSPT MALE	1" - 11	1"	33.25	1"	49.3	36
J015-2020	BSPT MALE	1 1/4" - 11	1 1/4"	41.91	1 1/4"	54.0	46

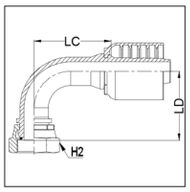
J025 - BSPP FEMALE 90° COMPACT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

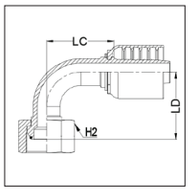


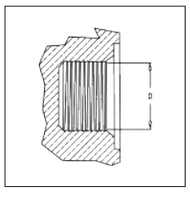


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA			
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1	H2	LD
				(mm)	(To suit hose I.D.)	(mm)	(mm)	(mm)	(mm)
J025-0808	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/2"	22	18	27	29
J025-1212	BSPP FEMALE	3/4" - 14	3/4"	24.13	3/4"	28	21	32	35
J025-1616	BSPP FEMALE	1" - 11	1"	30.3	1"	40	31	38	40

J051 - BSPP FEMALE 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL



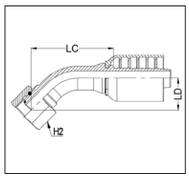


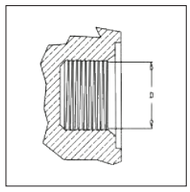


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
				(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
J051-0606	BSPP FEMALE	3/8" - 19	3/8"	14.96	3/8"	33.2	22	36
J051-0806	BSPP FEMALE	1/2" - 14	1/2"	18.65	3/8"	33.2	27	35.5
J051-0808	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/2"	42.5	27	43
J051-1008	BSPP FEMALE	5/8" - 14	5/8" *	20.6	1/2"	42.8	27	45.5
J051-1010	BSPP FEMALE	5/8" - 14	5/8" *	20.6	5/8"	49.6	27	46.5
J051-1208	BSPP FEMALE	3/4" - 14	3/4"	24.13	1/2"	43	32	43.4
J051-1210	BSPP FEMALE	3/4" - 14	3/4"	24.13	5/8"	50.9	32	49.4
J051-1212	BSPP FEMALE	3/4" - 14	3/4"	24.13	3/4"	62.4	32	62.3
J051-1612	BSPP FEMALE	1" - 11	1"	30.3	3/4"	62.4	38	64.5
J051-1616	BSPP FEMALE	1" - 11	1"	30.3	1"	75.4	38	71.5
J051-2016	BSPP FEMALE	1 1/4" - 11	1 1/4"	38.97	1"	75.4	50	77
J051-2020	BSPP FEMALE	1 1/4" - 11	1 1/4"	38.97	1 1/4"	91.1	50	89
J051-2420	BSPP FEMALE	1 1/2" - 11	1 1/2"	44.86	1 1/4"	91.1	55	92.8
J051-2424	BSPP FEMALE	1 1/2" - 11	1 1/2"	44.86	1 1/2"	113.6	55	110.8

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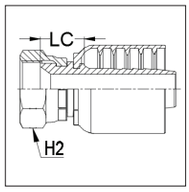
J060 - BSPP FEMALE 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

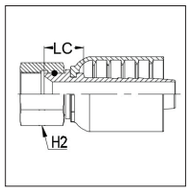


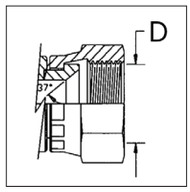


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
				(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
J060-0606	BSPP FEMALE	3/8" - 19	3/8"	14.96	3/8"	44.7	22	19.7
J060-0806	BSPP FEMALE	1/2" - 14	1/2"	18.65	3/8"	44.3	27	19.4
J060-0808	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/2"	50.4	27	21.1
J060-1008	BSPP FEMALE	5/8" - 14	5/8" *	20.6	1/2"	52.5	27	22.9
J060-1010	BSPP FEMALE	5/8" - 14	5/8" *	20.6	5/8"	54	27	21.1
J060-1208	BSPP FEMALE	3/4" - 14	3/4"	24.13	1/2"	51.2	32	21.4
J060-1210	BSPP FEMALE	3/4" - 14	3/4"	24.13	5/8"	57.3	32	23.1
J060-1212	BSPP FEMALE	3/4" - 14	3/4"	24.13	3/4"	73.5	32	30.4
J060-1612	BSPP FEMALE	1" - 11	1"	30.3	3/4"	75	38	31.9
J060-1616	BSPP FEMALE	1" - 11	1"	30.3	1"	88.3	38	34.8
J060-2016	BSPP FEMALE	1.1/4" - 11	1 1/4"	38.97	1"	91.8	50	38.7
J060-2020	BSPP FEMALE	1.1/4" - 11	1 1/4"	38.97	1 1/4"	104.1	50	42.2
J060-2420	BSPP FEMALE	1. 1/2" - 11	1 1/2"	44.86	1 1/4"	106.7	55	44.9

J005 - JIC FEMALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL



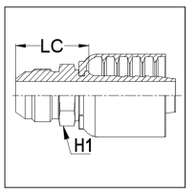


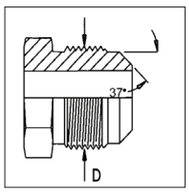


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2
				(mm)	(to suit hose I.D)	(mm)	(mm)
J005-0906	JIC FEMALE	9/16" - 18	3/8"	13	3/8"	15.5	19
J005-1206	JIC FEMALE	3/4" - 16	1/2"	17.6	3/8"	18.0	25
J005-1208	JIC FEMALE	3/4" - 16	1/2"	17.6	1/2"	17.8	25
J005-1408	JIC FEMALE	7/8" - 14	5/8"	20.5	1/2"	19.7	27
J005-1410	JIC FEMALE	7/8" - 14	5/8"	20.5	5/8"	20.2	27
J005-1708	JIC FEMALE	1 1/16" - 12	3/4"	25	1/2"	20.3	32
J005-1710	JIC FEMALE	1 1/16" - 12	3/4"	25	5/8"	20.7	32
J005-1712	JIC FEMALE	1 1/16" - 12	3/4"	25	3/4"	23.0	36
J005-2112	JIC FEMALE	1 5/16" - 12	1"	31.3	3/4"	24.6	41
J005-2116	JIC FEMALE	1 5/16" - 12	1"	31.3	1"	27.3	41
J005-2616	JIC FEMALE	1 5/8" - 12	1 1/4"	39.2	1"	28.7	50
J005-2620	JIC FEMALE	1 5/8" - 12	1 1/4"	39.2	1 1/4"	31.4	50
J005-3020	JIC FEMALE	1 7/8" - 12	1 1/2"	45.6	1 1/4"	33.9	55
J005-1412	JIC FEMALE	7/8" - 14	5/8"	20.5	3/4"	20.6	27
J005-3024	JIC FEMALE	1 7/8" - 12	1 1/2"	45.6	1 1/2"	32.1	55
J005-4032	JIC FEMALE	2 1/2" - 12	2"	61.5	2"	34.5	70

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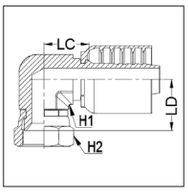
J018 - JIC MALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

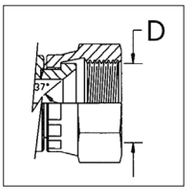




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1
				(mm)	(to suit hose I.D)	(mm)	(mm)
J018-0906	JIC MALE	9/16" - 18	3/8"	14.25	3/8"	26.5	17
J018-1206	JIC MALE	3/4" - 16	1/2"	19	3/8"	30.0	19
J018-1208	JIC MALE	3/4" - 16	1/2"	19	1/2"	29.8	19
J018-1408	JIC MALE	7/8" - 14	5/8"	22.17	1/2"	33.8	24
J018-1410	JIC MALE	7/8" - 14	5/8"	22.17	5/8"	34.2	24
J018-1708	JIC MALE	1 1/16" - 12	3/4"	26.95	1/2"	36.3	27
J018-1710	JIC MALE	1 1/16" - 12	3/4"	26.95	5/8"	36.7	27
J018-1712	JIC MALE	1 1/16" - 12	3/4"	26.95	3/4"	41.3	30
J018-2112	JIC MALE	1 5/16" - 12	1"	33.3	3/4"	44.3	38
J018-2116	JIC MALE	1 5/16" - 12	1"	33.3	1"	46.8	38
J018-2616	JIC MALE	1 5/8" - 12	1 1/4"	41.22	1"	50.3	46
J018-2620	JIC MALE	1 5/8" - 12	1 1/4"	41.22	1 1/4"	52.0	46
J018-3020	JIC MALE	1 7/8" - 12	1 1/2"	47.57	1 1/4"	56.0	50

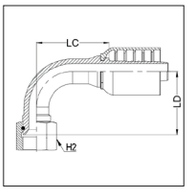
J029 - JIC FEMALE 90° COMPACT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

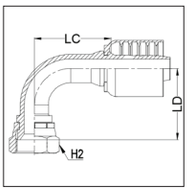


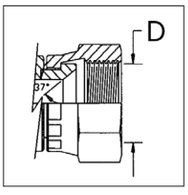


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA			
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	H1	H2	LC	LD
				(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)	(mm)
J029-1208	JIC FEMALE	3/4" - 16	1/2"	17.6	1/2"	18.5	25	22	23.78
J029-1408	JIC FEMALE	7/8" - 14	5/8"	20.5	1/2"	18.5	27	24.5	25.8
J029-1712	JIC FEMALE	1 1/16" - 12	3/4"	25	3/4"	27	32	25.3	26.9

J055 - JIC FEMALE 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL



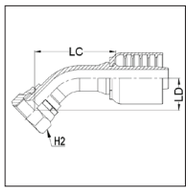


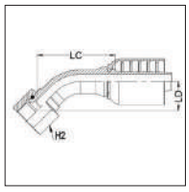


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
				(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
J055-0906	JIC FEMALE	9/16" - 18	3/8"	13	3/8"	31.9	19	31
J055-1206	JIC FEMALE	3/4" - 16	1/2"	17.6	3/8"	31.9	25	34.5
J055-1208	JIC FEMALE	3/4" - 16	1/2"	17.6	1/2"	35.8	25	39.5
J055-1408	JIC FEMALE	7/8" - 14	5/8"	20.5	1/2"	35.8	27	40.5
J055-1410	JIC FEMALE	7/8" - 14	5/8"	20.5	5/8"	49.4	27	48.5
J055-1708	JIC FEMALE	1 1/16" - 12	3/4"	25	1/2"	35.8	32	43
J055-1710	JIC FEMALE	1 1/16" - 12	3/4"	25	5/8"	49.4	32	54
J055-1712	JIC FEMALE	1 1/16" - 12	3/4"	25	3/4"	62.4	36	58.7
J055-2112	JIC FEMALE	1 5/16" - 12	1"	31.3	3/4"			54.5
J055-2116	JIC FEMALE	1 5/16" - 12	1"	31.3	1"	77.7	41	67.5
J055-2620	JIC FEMALE	1 5/8" - 12	1 1/4"	39.2	1 1/4"	91.2	50	84.1
J055-3024	JIC FEMALE	1 7/8"	1 1/2"	45.6	1 1/2"	116.6	55	106.4

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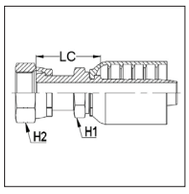
J064 - JIC FEMALE 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

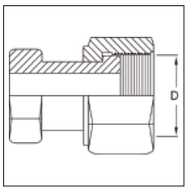




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
				(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
J064-0906	JIC FEMALE	9/16" - 18	3/8"	13	3/8"	39.9	19	16.2
J064-1206	JIC FEMALE	3/4" - 16	1/2"	17.6	3/8"	42.4	25	18.6
J064-1208	JIC FEMALE	3/4" - 16	1/2"	17.6	1/2"	46.7	25	20.9
J064-1408	JIC FEMALE	7/8" - 14	5/8"	20.5	1/2"	47.4	27	21.6
J064-1410	JIC FEMALE	7/8" - 14	5/8"	20.5	5/8"	58.7	27	23.9
J064-1708	JIC FEMALE	1 1/16" - 12	3/4"	25	1/2"	49.2	32	23.4
J064-1710	JIC FEMALE	1 1/16" - 12	3/4"	25	5/8"	60.5	32	25.7
J064-1712	JIC FEMALE	1 1/16" - 12	3/4"	25	3/4"	70.9	36	27.8
J064-2116	JIC FEMALE	1 5/16" - 12	1"	31.3	1"	85.8	41	31.2
J064-2620	JIC FEMALE	1 5/8" - 12	1 1/4"	39.2	1 1/4"	99.9	50	38.8

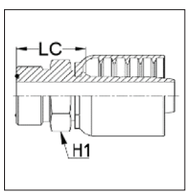
J013 - ORFS FEMALE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H1	H2
				(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
J013-1106	ORFS FEMALE	11/16" - 16	3/8"	16	3/8"	30.5	17	22
J013-1306	ORFS FEMALE	13/16" - 16	1/2"	19.05	3/8"	35.5	22	24
J013-1308	ORFS FEMALE	13/16" - 16	1/2"	19.05	1/2"	35.3	22	24
J013-1608	ORFS FEMALE	1" - 14	5/8"	23.62	1/2"	38.8	24	30
J013-1610	ORFS FEMALE	1" - 14	5/8"	23.62	5/8"	39.2	24	30
J013-1612	ORFS FEMALE	1" - 14	5/8"	23.62	3/4"	41.8	27	30
J013-1908	ORFS FEMALE	1 3/16" - 12	3/4"	44.3	1/2"	41.5	30	36
J013-1910	ORFS FEMALE	1. 3/16" - 12	3/4"	28.19	5/8"	41.7	30	36
J013-1912	ORFS FEMALE	1. 3/16" - 12	3/4"	28.19	3/4"	44.3	30	36
J013-2312	ORFS FEMALE	1. 7/16" - 12	1"	34.54	3/4"	50.3	36	41
J013-2316	ORFS FEMALE	1. 7/16" - 12	1"	34.54	1"	52.8	38	41
J013-2716	ORFS FEMALE	1. 11/16" - 12	1. 1/4"	40.89	1"	53.8	41	50
J013-2720	ORFS FEMALE	1. 11/16" - 12	1. 1/4"	40.89	1 1/4"	56.5	46	50

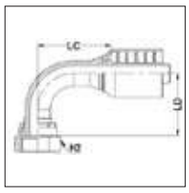
J040 - ORFS MALE X MS355/360 1-PIECE M/S NON-SKIVE TAIL

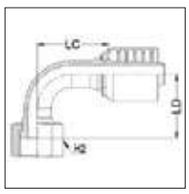


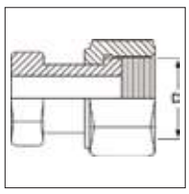
THREAD & TERMINATION INFORMATION							
CODE	THREAD TYPE/ FITTING TYPE	NOMINAL THREAD SIZE	NOMINAL PIPE SIZE	PHYSICAL	TAIL SIZE	LC	H1
J040-1308	ORFS MALE	13/16" - 16	1/2"	20.82	1/2"	26.3	22
J040-1912	ORFS MALE	1 3/16" - 12	3/4"	30.22	3/4"	34.1	32
J040-2316	ORFS MALE	1 7/16" - 12	1"	36.57	1"	38.3	38

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J052 - ORFS FEMALE 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

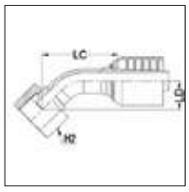






THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
				(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
J052-1106	ORFS FEMALE	11/16 - 16	3/8"	16	3/8"	33.3	22	30
J052-1306	ORFS FEMALE	13/16 - 16	1/2"	19.05	3/8"	33.3	24	31
J052-1308	ORFS FEMALE	13/16 - 16	1/2"	19.05	1/2"	35.8	24	38.5
J052-1608	ORFS FEMALE	1 - 14	5/8"	23.62	1/2"	37.8	30	41.5
J052-1610	ORFS FEMALE	1 - 14	5/8"	23.62	5/8"	50.6	30	47.5
J052-1910	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	5/8"	56.6	36	49
J052-1912	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	3/4"	62.4	36	50.5
J052-2312	ORFS FEMALE	1. 7/16 - 12	1"	34.54	3/4"	62.4	41	N/A
J052-2316	ORFS FEMALE	1. 7/16 - 12	1"	34.54	1"	77.7	41	64
J052-2720	ORFS FEMALE	1.1/16	1 1/4"	40.89	1 1/4"	90	30	75

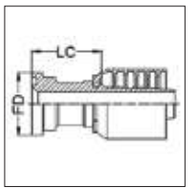
J063 - ORFS FEMALE 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

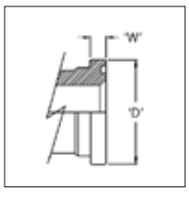




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2	LD
				(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
J063-1106	ORFS FEMALE	11/16 - 16	3/8"	16	3/8"	40.5	22	15.5
J063-1306	ORFS FEMALE	13/16 - 16	1/2"	19.05	3/8"	41.2	24	16.2
J063-1308	ORFS FEMALE	13/16 - 16	1/2"	19.05	1/2"	45.7	24	17.9
J063-1608	ORFS FEMALE	1 - 14	5/8"	23.62	1/2"	49.8	30	20
J063-1610	ORFS FEMALE	1 - 14	5/8"	23.62	5/8"	55.9	30	21.8
J063-1910	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	5/8"	65.4	36	24.5
J063-1912	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	3/4"	69.3	36	26.3
J063-2312	ORFS FEMALE	1. 7/16 - 12	1"	34.54	3/4"	69.7	41	26.6
J063-2316	ORFS FEMALE	1. 7/16 - 12	1"	34.54	1"	82.6	41	29.5

J023 - SAE CODE 61 STRAIGHT FLANGE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

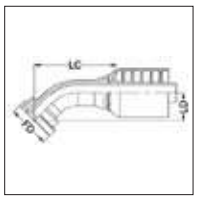


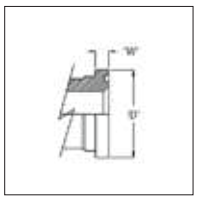


THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	'D' OR 'FD' FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE	LC	FD
			(mm)		(to suit hose I.D)	(mm)	(mm)
J023-0808	SAE CODE 61 STRAIGHT FLANGE	1/2"	30.1	6.73	1/2"	40.2	30.18
J023-1208	SAE CODE 61 STRAIGHT FLANGE	3/4"	38.1	6.73	1/2"	41.2	38.10
J023-1212	SAE CODE 61 STRAIGHT FLANGE	3/4"	38.1	6.73	3/4"	44.3	38.10
J023-1216	SAE CODE 61 STRAIGHT FLANGE	3/4"	38.1	6.73	1"		38.1
J023-1612	SAE CODE 61 STRAIGHT FLANGE	1"	44.45	8	3/4"	52.3	44.45
J023-1616	SAE CODE 61 STRAIGHT FLANGE	1"	44.45	8	1"	54.8	44.45
J023-2016	SAE CODE 61 STRAIGHT FLANGE	1 .1/4"	50.8	8	1"	57.3	50.80
J023-2020	SAE CODE 61 STRAIGHT FLANGE	1 .1/4"	50.8	8	1 1/4"	59.0	50.80
J023-2420	SAE CODE 61 STRAIGHT FLANGE	1 .1/2"	60.33	8	1 1/4"	62.0	60.33

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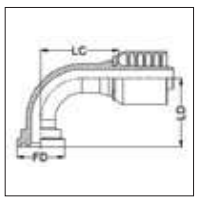
J068 - SAE FLANGE CODE 61 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

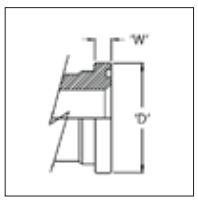




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	'D' OR 'FD' FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE	LC	FD	LD
			(mm)		(to suit hose I.D)	(mm)	(mm)	(mm)
J068-0808	SAE FLANGE CODE 61	1/2"	30.18	6.73	1/2"	50.0	30.18	21.9
J068-1208	SAE FLANGE CODE 61	3/4"	38.1	6.73	1/2"	50.7	38.10	22.6
J068-1212	SAE FLANGE CODE 61	3/4"	38.1	6.73	3/4"	68.3	38.10	25.2
J068-1612	SAE FLANGE CODE 61	1"	44.45	8	3/4"	68.3	44.45	25.2
J068-1616	SAE FLANGE CODE 61	1"	44.45	8	1"	81.6	44.45	27.3
J068-2016	SAE FLANGE CODE 61	1.1/4"	50.8	8	1"	81.6	50.80	27.3
J068-2020	SAE FLANGE CODE 61	1.1/4"	50.8	8	1 1/4"	98.9	50.80	31.6
J068-2420	SAE FLANGE CODE 61	1.1/2"	60.33	8	1 1/4"	94.9	60.33	33

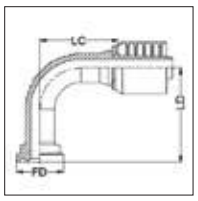
J059 - SAE FLANGE CODE 61 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

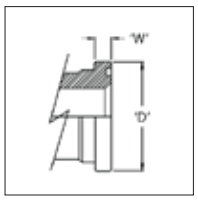




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	'D' OR 'FD' FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE	LC	FD	LD
			(mm)		(to suit hose I.D)	(mm)	(mm)	(mm)
J059-0808	SAE FLANGE CODE 61	1/2"	30.18	6.73	1/2"	42.2	30.18	45
J059-1208	SAE FLANGE CODE 61	3/4"	38.1	6.73	1/2"	42.2	38.10	46
J059-1212	SAE FLANGE CODE 61	3/4"	38.1	6.73	3/4"	62.4	38.10	55
J059-1612	SAE FLANGE CODE 61	1"	44.45	8	3/4"	62.4	44.45	55
J059-1616	SAE FLANGE CODE 61	1"	44.45	8	1"	77.7	44.45	62
J059-2016	SAE FLANGE CODE 61	1.1/4"	50.8	8	1"	77.7	50.80	62
J059-2020	SAE FLANGE CODE 61	1.1/4"	50.8	8	1 1/4"	91.1	50.80	74
J059-2420	SAE FLANGE CODE 61	1.1/2"	60.33	8	1 1/4"	91.1	60.33	76

J059L - SAE FLANGE CODE 61 90° SWEPT LONG X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL



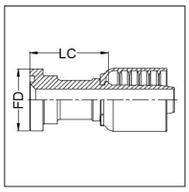


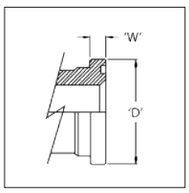
THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE/FITTING TYPE	NOM PIPE SIZE	'D' OR 'FD' FLANGE DIAMETER	FLANGE THICKNESS	TAIL SIZE	LC	LD
			(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)
J059-1212L-4	SAE FLANGE CODE 61	3/4"	38.1	6.73	3/4"	62.3	4" (101mm)
J059-1216L	SAE FLANGE CODE 61	3/4	38.1	6.73	1"	75	4" (101mm)
J059-1616L-4	SAE FLANGE CODE 61	1"	44.45	8	1"	77.7	4" (101mm)
J059-1616L-6	SAE FLANGE CODE 61	1"	44.45	8	1"	77.7	6" (150mm)

'Cat' or 'Supercat' flanges refer to a flange that conforms to SAE Code 62 in all aspects except the head thickness which is 14.2mm. Code 62 flanges can be adapted to replace 'cat' flanges either with a packer, or by replacing the Flange Clamps with standard Code 62 clamps. For spacers see page 134.

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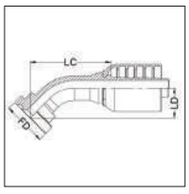
J022 - SAE CODE 62 STRAIGHT FLANGE X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

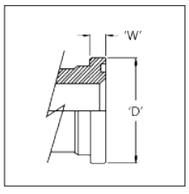




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	'D' OR 'FD' FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE	LC	FD
			(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)
J022-0808	SAE CODE 62 STRAIGHT FLANGE	1/2"	31.75	7.75	1/2"	46.2	31.75
J022-1208	SAE CODE 62 STRAIGHT FLANGE	3/4"	41.28	8.76	1/2"	51.2	41.28
J022-1212	SAE CODE 62 STRAIGHT FLANGE	3/4"	41.28	8.76	3/4"	54.3	41.28
J022-1612	SAE CODE 62 STRAIGHT FLANGE	1"	47.63	9.53	3/4"	57.3	47.63
J022-1616	SAE CODE 62 STRAIGHT FLANGE	1"	47.63	9.53	1"	59.8	47.63
J022-1620	SAE CODE 62 STRAIGHT FLANGE	1"	47.63	9.53	1 1/4"	61.5	47.63
J022-2016	SAE CODE 62 STRAIGHT FLANGE	1.1/4"	53.98	10.29	1"	66.8	53.98
J022-2020	SAE CODE 62 STRAIGHT FLANGE	1.1/4"	53.98	10.29	1 1/4"	68.5	53.98
J022-2420	SAE CODE 62 STRAIGHT FLANGE	1.1/2"	63.5	12.57	1 1/4"	72.5	63.50
J022-2424	SAE CODE 62 STRAIGHT FLANGE	1 1/2"	63.5	12.57	1 1/2"	78.7	63.5
J022-3232	SAE CODE 62 STRAIGHT FLANGE	2"	79.38	12.57	2"	94	79.38

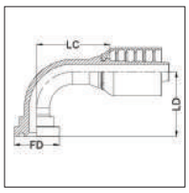
J062 - SAE FLANGE CODE 62 45° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

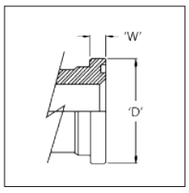




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	'D' OR 'FD' FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE	LC	FD	LD
			(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
J062-0808	SAE FLANGE CODE 62	1/2"	31.75	7.75	1/2"	50.7	31.75	22.6
J062-1208	SAE FLANGE CODE 62	3/4"	41.28	8.76	1/2"	53.7	41.28	25.4
J062-1212	SAE FLANGE CODE 62	3/4"	41.28	8.76	3/4"	71.1	41.28	28.1
J062-1612	SAE FLANGE CODE 62	1"	47.63	9.53	3/4"	73.3	47.63	30.2
J062-1616	SAE FLANGE CODE 62	1"	47.63	9.53	1"	86.5	47.63	32.2
J062-2016	SAE FLANGE CODE 62	1.1/4"	53.98	10.29	1"	89.4	53.98	35.1
J062-2020	SAE FLANGE CODE 62	1.1/4"	53.98	10.29	1 1/4"	101.2	53.98	39.4
J062-2424	SAE FLANGE CODE 62	1.1/2"	63.5	12.57	1 1/2"	123.9	63.5	49

J061 - SAE FLANGE CODE 62 90° SWEPT X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL

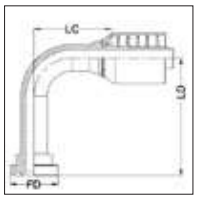




THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA		
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	'D' OR 'FD' FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE	LC	FD	LD
			(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)	(mm)
J061-0808	SAE FLANGE CODE 62	1/2"	31.75	7.75	1/2"	42.2	31.75	46
J061-1208	SAE FLANGE CODE 62	3/4"	41.28	8.76	1/2"	42.2	41.28	50
J061-1212	SAE FLANGE CODE 62	3/4"	41.28	8.76	3/4"	62.4	41.28	59
J061-1216	SAE FLANGE CODE 62	3/4"	41.28	8.76	1	60.2	41.28	62
J061-1612	SAE FLANGE CODE 62	1"	47.63	9.53	3/4"	62.4	47.63	62
J061-1616	SAE FLANGE CODE 62	1"	47.63	9.53	1"	77.7	47.63	69
J061-2016	SAE FLANGE CODE 62	1.1/4"	53.98	10.29	1"	77.7	53.98	73
J061-2020	SAE FLANGE CODE 62	1.1/4"	53.98	10.29	1 1/4"	91.1	53.98	85
J061-2420	SAE FLANGE CODE 62	1.1/2"	63.5	12.57	1 1/4"	91.1	63.50	90
J061-2424	SAE FLANGE CODE 62	1 1/2"	63.5	12.57	1 1/2"	111.1	63.50	100
J061-3232	SAE FLANGE CODE 62	2"	79.39	12.57	2"	138.4	79.39	130

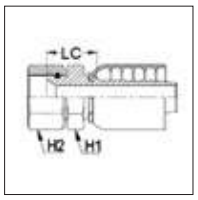
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J061L - SAE FLANGE CODE 62 90° SWEPT LONG X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL



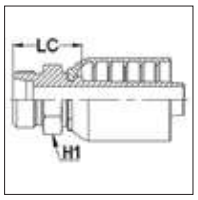
THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE/FITTING TYPE	NOM PIPE SIZE	'D' OR 'FD' FLANGE DIAMETER	FLANGE THICKNESS	TAIL SIZE	LC	LD
			(mm)	(mm)	(to suit hose I.D)	(mm)	(mm)
J061-1212L	SAE FLANGE CODE 62	3/4"	41.28	8.76	3/4"	70	4" (105mm)
J061-1616L	SAE FLANGE CODE 62	1"	47.63	9.53	1"	77.7	6" (150mm)
J061-2016L	SAE FLANGE CODE 62	1 1/4"	53.98	10.29	1"	77.7	6" (150mm)
J061-2020L	SAE FLANGE CODE 62	1 1/4"	53.98	10.29	1 1/4"	91.1	6" (150mm)

J027 - JIS (BSP INVERTED FLARE) FEMALE X MS355/360 1-PIECE M/S NON-SKIVE TAIL



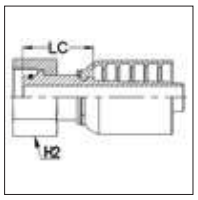
THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE/FITTING TYPE	NOMINAL THREAD SIZE	NOMINAL PIPE SIZE	PHYSICAL	TAIL SIZE	LC	H1
					(to suit hose I.D)	(mm)	(mm)
J027-1616	JIS (BSP INVERTED) FEMALE	1"	1"	30.3	1"	45	13

J078 - DKOS METRIC MALE HEAVY X MS355/360 M/S NON-SKIVE TAIL



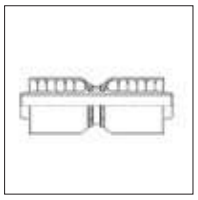
THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE/FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D2' TUBE SIZE	'D1' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2
					(to suit hose I.D)	(mm)	(mm)
J078-3012	DKOS MALE METRIC HEAVY	M30 x 2.0	20	28	3/4	31.1	32
J078-3612	DKOS MALE METRIC HEAVY	M36 x 2.0	25	34	3/4	39.3	36
J078-4216	DKOS MALE METRIC HEAVY	M42 x 2.0	30	40	1	45.8	46
J078-5220	DKOS MALE METRIC HEAVY	M52 x 2.0	38	50	1-1/4	51.5	55

J079 - DKOS METRIC FEMALE HEAVY X MS355/360 M/S NON-SKIVE TAIL



THREAD & TERMINATION INFORMATION					HOSETAIL INFO	TECHNICAL DATA	
CODE	THREAD TYPE/FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D2' TUBE SIZE	'D1' THREAD PHYSICAL OD/ID	TAIL SIZE	LC	H2
					(to suit hose I.D)	(mm)	(mm)
J079-3012	DKOS FEMALE METRIC HEAVY	M30 x 2.0	20	30	3/4	31.2	36
J079-3612	DKOS FEMALE METRIC HEAVY	M36 x 2.0	25	36	3/4	41.8	46
J079-4216	DKOS FEMALE METRIC HEAVY	M42 x 2.0	30	42	1	46.5	50
J079-5220	DKOS FEMALE METRIC HEAVY	M52 x 2.0	38	52	1-1/4	51.5	60

J090 - HOSE JOINER X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL



THREAD & TERMINATION INFORMATION		HOSETAIL INFO
CODE	NOMINAL THREAD SIZE & PITCH	TAIL SIZE
		(to suit hose I.D)
J090-0808	1/2"	1/2"
J090-1212	3/4"	3/4"
J090-1616	1"	1"

J096 - LIFESAVER X MS355/MS360 1-PIECE M/S NON-SKIVE TAIL



THREAD & TERMINATION INFORMATION		HOSETAIL INFO
CODE	NOMINAL THREAD SIZE & PITCH	TAIL SIZE
		(to suit hose I.D)
J096-0008	1/2"	1/2"
J096-0012	3/4"	3/4"
J096-0016	1"	1"

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2 PIECE SWAGE FITTINGS

FERRULES - SEE PAGE 70

Use SN3 Ferrules for 1-2 wire hose.
Use SMSNS Ferrules for 4-6 wire hoses.

BSP

BSP

S001 - BSPP FEMALE X SWAGE HOSETAIL
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BSP

S002 - BSPP FEMALE FLAT FACE X SWAGE HOSETAIL
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BSP

S012 - BSPP MALE X SWAGE HOSETAIL
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BSP

S015 - BSPT MALE X SWAGE HOSETAIL
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BSP

S025 - BSPP FEMALE COMPACT 90° X SWAGE HOSETAIL
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BSP

S051 - BSPP FEMALE SWEPT 90° X SWAGE HOSETAIL
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BSP

S060 - BSPP FEMALE SWEPT 45° X SWAGE HOSETAIL
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JIC

JIC

S018 - JIC MALE X SWAGE HOSETAIL
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S005 - JIC FEMALE X SWAGE HOSETAIL
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JIC

S029 - JIC FEMALE COMPACT 90° X SWAGE HOSETAIL
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JIC

S055 - JIC FEMALE SWEPT 90° X SWAGE HOSETAIL
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JIC

S064 - JIC FEMALE SWEPT 45° X SWAGE HOSETAIL
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ORFS

ORFS

S013 - ORFS FEMALE X SWAGE HOSETAIL
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ORFS

S040 - ORFS MALE X SWAGE HOSETAIL
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S052 - ORFS FEMALE SWEPT 90° X SWAGE HOSETAIL
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DKOL

S081 - DKOL FEMALE METRIC LIGHT X SWAGE HOSETAIL
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DKOL

S087 - DKOL FEMALE METRIC LIGHT SWEPT 45° X SWAGE HOSETAIL
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DKOL

S086 - DKOL FEMALE METRIC LIGHT SWEPT 90° X SWAGE HOSETAIL
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S059L - SAE FLANGE CODE 61 SWEPT 90° X SWAGE HOSETAIL LONG DROP
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S062 - SAE FLANGE CODE 62 SWEPT 45° X SWAGE HOSETAIL
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S061 - SAE FLANGE CODE 62 SWEPT 90° X SWAGE HOSETAIL
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SAE

S061L - SAE FLANGE CODE 62 SWEPT 90 X SWAGE HOSETAIL LONG
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SAE - SAE FLANGE O-RING
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FLANGE CLAMPS

FLANGE CLAMPS

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FLANGE CLAMPS

WHP - CODE 62 FLANGE CLAMPS
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KOMATSU

S070 - KOMATSU FEMALE X SWAGE HOSETAIL
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S072 - KOMATSU FEMALE SWEPT 90° X SWAGE HOSETAIL
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JIS

S026 - JIS (BSP) INVERTED FLARE FEMALE X SWAGE HOSETAIL
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JIS

S027 - JIS (BSP) INVERTED FLARE MALE X SWAGE HOSETAIL
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BANJO

S038 - IMPERIAL BANJO X SWAGE HOSETAIL
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S038M - IMPERIAL BANJO X SWAGE HOSETAIL
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BANJO

S038B - IMPERIAL BANJO BOLT
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S095B - METRIC BANJO BOLT
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S016 - NPT MALE X SWAGE HOSETAIL
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PRESSURE WASHER

PRESSURE WASHER

S030 - KARCHER FEMALE X SWAGE HOSETAIL
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PRESSURE WASHER

S031 - KARCHER GUN INSERT X SWAGE HOSETAIL
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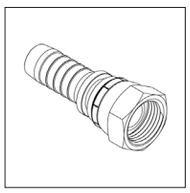
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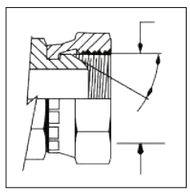
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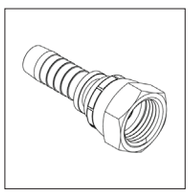
S001 - BSPP FEMALE X SWAGE HOSETAIL

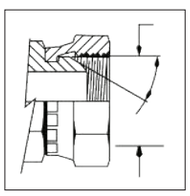




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	**THREAD TYPE /** FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD **PHYSICAL OD/ID**	TAIL SIZE
				(mm)	(to suit hose I.D)
S001-0202	BSPP FEMALE	1/8" - 28	1/8"	8.59	1/4"
S001-0203	BSPP FEMALE	1/8" - 28	1/8"	8.59	3/16"
S001-0204	BSPP FEMALE	1/8" - 28	1/8"	8.59	1/4"
S001-0402	BSPP FEMALE	1/4" - 19	1/4"	11.46	1/8"
S001-0403	BSPP FEMALE	1/4" - 19	1/4"	11.46	3/16"
S001-0404	BSPP FEMALE	1/4" - 19	1/4"	11.46	1/4"
S001-0405	BSPP FEMALE	1/4" - 19	1/4"	11.46	5/16"
S001-0406	BSPP FEMALE	1/4" - 19	1/4"	11.46	3/8"
S001-0603	BSPP FEMALE	3/8" - 19	3/8"	14.96	3/16"
S001-0604	BSPP FEMALE	3/8" - 19	3/8"	14.96	1/4"
S001-0605	BSPP FEMALE	3/8" - 19	3/8"	14.96	5/16"
S001-0606	BSPP FEMALE	3/8" - 19	3/8"	14.96	3/8"
S001-0608	BSPP FEMALE	3/8" - 19	3/8"	14.96	1/2"
S001-0804	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/4"
S001-0806	BSPP FEMALE	1/2" - 14	1/2"	18.65	3/8"
S001-0808	BSPP FEMALE	1/2" - 14	1/2"	18.65	1/2"
S001-0810	BSPP FEMALE	1/2" - 14	1/2"	18.65	5/8"
S001-0812	BSPP FEMALE	1/2" - 14	1/2"	18.65	3/4"
S001-1008	BSPP FEMALE	5/8" - 14	5/8" *	20.6	1/2"
S001-1010	BSPP FEMALE	5/8" - 14	5/8" *	20.6	5/8"
S001-1208	BSPP FEMALE	3/4" - 14	3/4"	24.13	1/2"
S001-1210	BSPP FEMALE	3/4" - 14	3/4"	24.13	5/8"
S001-1212	BSPP FEMALE	3/4" - 14	3/4"	24.13	3/4"
S001-1216	BSPP FEMALE	3/4" - 14	3/4"	24.13	1"
S001-1612	BSPP FEMALE	1" - 11	1"	30.3	3/4"
S001-1616	BSPP FEMALE	1" - 11	1"	30.3	1"
S001-1620	BSPP FEMALE	1" - 11	1"	30.3	1 1/4"
S001-2016	BSPP FEMALE	1 .1/4" - 11	1 1/4"	38.97	1"
S001-2020	BSPP FEMALE	1 .1/4" - 11	1 1/4"	38.97	1 1/4"
S001-2424	BSPP FEMALE	1. 1/2" - 11	1 1/2"	44.86	1 1/2"
S001-3224	BSPP FEMALE	2" - 11	2"	56.67	1 1/2"
S001-3232	BSPP FEMALE	2" - 11	2"	56.67	2"

S002 - BSPP FEMALE FLAT FACE X SWAGE HOSETAIL

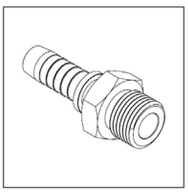


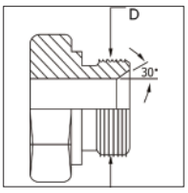


THREAD & TERMINATION INFORMATION			HOSETAIL INFO
CODE	**THREAD TYPE / FITTING TYPE**	NOMINAL THREAD SIZE	TAIL SIZE
			(to suit hose I.D)
S002-0404	BSPP FEMALE FLAT FACE	1/4"	1/4"
S002-0606	BSPP FEMALE FLAT FACE	3/8"	3/8"
S002-0608	BSPP FEMALE FLAT FACE	3/8"	1/2"
S002-0806	BSPP FEMALE FLAT FACE	1/2"	3/8"
S002-0808	BSPP FEMALE FLAT FACE	1/2"	1/2"
S002-1208	BSPP FEMALE FLAT FACE	3/4"	1/2"
S002-1212	BSPP FEMALE FLAT FACE	3/4"	3/4"
S002-1616	BSPP FEMALE FLAT FACE	1"	1"

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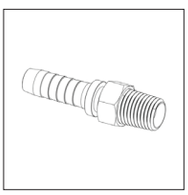
S012 - BSPP MALE X SWAGE HOSETAIL

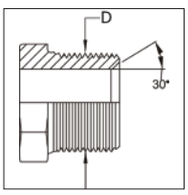




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S012-0204	BSPP MALE	1/8" - 28	1/8"	9.73	1/4"
S012-0404	BSPP MALE	1/4" - 19	1/4"	13.16	1/4"
S012-0406	BSPP MALE	1/4" - 19	1/4"	13.16	3/8"
S012-0604	BSPP MALE	3/8" - 19	3/8"	16.67	1/4"
S012-0605	BSPP MALE	3/8" - 19	3/8"	16.67	5/16"
S012-0606	BSPP MALE	3/8" - 19	3/8"	16.67	3/8"
S012-0804	BSPP MALE	1/2" - 14	1/2"	20.96	1/4"
S012-0806	BSPP MALE	1/2" - 14	1/2"	20.96	3/8"
S012-0808	BSPP MALE	1/2" - 14	1/2"	20.96	1/2"
S012-1010	BSPP MALE	5/8" - 14	5/8"	22.91	5/8"
S012-1212	BSPP MALE	3/4" - 14	3/4"	26.45	3/4"
S012-1616	BSPP MALE	1" - 11	1"	33.25	1"
S012-2020	BSPP MALE	1. 1/4" - 11	1 1/4"	41.91	1 1/4"

S015 - BSPT MALE X SWAGE HOSETAIL

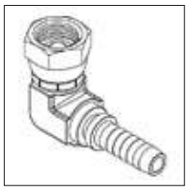


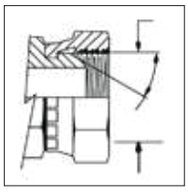


THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S015-0203	BSPT MALE	1/8" - 28	1/8"	9.73	3/16"
S015-0204	BSPT MALE	1/8" - 28	1/8"	9.73	1/4"
S015-0403	BSPT MALE	1/4" - 19	1/4"	13.16	3/16"
S015-0404	BSPT MALE	1/4" - 19	1/4"	13.16	1/4"
S015-0405	BSPT MALE	1/4" - 19	1/4"	13.16	5/16"
S015-0406	BSPT MALE	1/4" - 19	1/4"	13.16	3/8"
S015-0604	BSPT MALE	3/8" - 19	3/8"	16.67	1/4"
S015-0605	BSPT MALE	3/8" - 19	3/8"	16.67	5/16"
S015-0606	BSPT MALE	3/8" - 19	3/8"	16.67	3/8"
S015-0608	BSPT MALE	3/8" - 19	3/8"	16.67	1/2"
S015-0804	BSPT MALE	1/2" - 14	1/2"	20.96	1/4"
S015-0806	BSPT MALE	1/2" - 14	1/2"	20.96	3/8"
S015-0808	BSPT MALE	1/2" - 14	1/2"	20.96	1/2"
S015-0810	BSPT MALE	1/2" - 14	1/2"	20.96	5/8"
S015-0812	BSPT MALE	1/2" - 14	1/2"	20.96	3/4"
S015-1010	BSPT MALE	5/8" - 14	5/8" *	22.91	5/8"
S015-1208	BSPT MALE	3/4" - 14	3/4"	26.45	1/2"
S015-1210	BSPT MALE	3/4" - 14	3/4"	26.45	5/8"
S015-1212	BSPT MALE	3/4" - 14	3/4"	26.45	3/4"
S015-1216	BSPT MALE	3/4" - 14	3/4"	26.45	1"
S015-1612	BSPT MALE	1" - 11	1"	33.25	3/4"
S015-1616	BSPT MALE	1" - 11	1"	33.25	1"
S015-1620	BSPT MALE	1" - 11	1"	33.25	1 1/4"
S015-2016	BSPT MALE	1 1/4" - 11	1 1/4"	41.91	1"
S015-2020	BSPT MALE	1 1/4" - 11	1 1/4"	41.91	1 1/4"
S015-2424	BSPT MALE	1 1/2" - 11	1 1/2"	47.81	1 1/2"
S015-3232	BSPT MALE	2" - 11	2"	59.62	2"

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S025 - BSPP FEMALE COMPACT 90° X SWAGE HOSETAIL

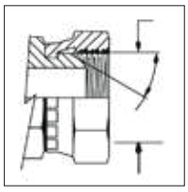




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S025-0404	BSPP FEMALE COMPACT 90°	1/4" - 19	1/4" - 19	11.46	1/4"
S025-0406	BSPP FEMALE COMPACT 90°	1/4" - 19	1/4" - 19	11.46	3/8"
S025-0604	BSPP FEMALE COMPACT 90°	3/8" - 19	3/8" - 19	14.96	1/4"
S025-0606	BSPP FEMALE COMPACT 90°	3/8" - 19	3/8" - 19	14.96	3/8"
S025-0608	BSPP FEMALE COMPACT 90°	3/8" - 19	3/8" - 19	14.96	1/2"
S025-0806	BSPP FEMALE COMPACT 90°	1/2" - 14	1/2" - 14	18.65	3/8"
S025-0808	BSPP FEMALE COMPACT 90°	1/2" - 14	1/2" - 14	18.65	1/2"
S025-1208	BSPP FEMALE COMPACT 90°	3/4" - 14	3/4" - 14	24.13	1/2"
S025-1212	BSPP FEMALE COMPACT 90°	3/4" - 14	3/4" - 14	24.13	3/4"
S025-1616	BSPP FEMALE COMPACT 90°	1" - 11	1" - 11	30.3	1"
S015-2020	BSPP FEMALE COMPACT 90°	1.1/4" - 11	1.1/4" - 11	38.97	1 1/4"

S051 - BSPP FEMALE SWEPT 90° X SWAGE HOSETAIL

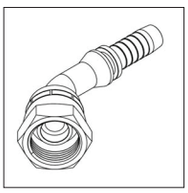


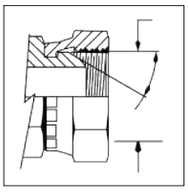


THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S051-0203	BSPP FEMALE SWEPT 90°	???	???	???	???
S051-0204	BSPP FEMALE SWEPT 90°	1/8" - 28	1/8" - 28	8.59	1/4"
S051-0404	BSPP FEMALE SWEPT 90°	1/4" - 19	1/4" - 19	11.46	1/4"
S051-0604	BSPP FEMALE SWEPT 90°	3/8" - 19	3/8" - 19	14.96	1/4"
S051-0606	BSPP FEMALE SWEPT 90°	3/8" - 19	3/8" - 19	14.96	3/8"
S051-0608	BSPP FEMALE SWEPT 90°	3/8" - 19	3/8" - 19	14.96	1/2"
S051-0806	BSPP FEMALE SWEPT 90°	1/2" - 14	1/2" - 14	18.65	3/8"
S051-0808	BSPP FEMALE SWEPT 90°	1/2" - 14	1/2" - 14	18.65	1/2"
S051-1010	BSPP FEMALE SWEPT 90°	5/8" - 14	5/8" - 14	20.6	5/8"
S051-1206	BSPP FEMALE SWEPT 90°	3/4" - 14	3/4" - 14	24.13	3/8"
S051-1208	BSPP FEMALE SWEPT 90°	3/4" - 14	3/4" - 14	24.13	1/2"
S051-1210	BSPP FEMALE SWEPT 90°	3/4" - 14	5/8" - 14	24.13	5/8"
S051-1212	BSPP FEMALE SWEPT 90°	3/4" - 14	3/4" - 14	24.13	3/4"
S051-1612	BSPP FEMALE SWEPT 90°	1" - 11	1" - 11	30.3	3/4"
S051-1616	BSPP FEMALE SWEPT 90°	1" - 11	1" - 11	30.3	1"
S051-2016	BSPP FEMALE SWEPT 90°	1.1/4" - 11	1.1/4" - 11	38.97	1"
S051-2020	BSPP FEMALE SWEPT 90°	1.1/4" - 11	1.1/4" - 11	38.97	1 1/4"
S051-2424	BSPP FEMALE SWEPT 90°	1. 1/2" - 11	1. 1/2" - 11	44.86	1 1/2"
S051-3232	BSPP FEMALE SWEPT 90°	2" - 11	2" - 11	56.67	2"

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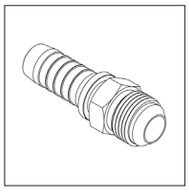
S060 - BSPP FEMALE SWEPT 45° X SWAGE HOSETAIL

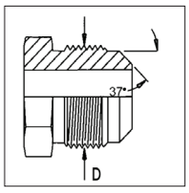




CODE	THREAD & TERMINATION INFORMATION				HOSETAIL INFO
	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S060-0203	BSPP FEMALE SWEPT 45°	???	???	???	???
S060-0204	BSPP FEMALE SWEPT 45°	1/8" - 28	1/8"	8.59	1/4"
S060-0404	BSPP FEMALE SWEPT 45°	1/4" - 19	1/4"	11.46	1/4"
S060-0604	BSPP FEMALE SWEPT 45°	3/8" - 19	3/8"	14.96	1/4"
S060-0606	BSPP FEMALE SWEPT 45°	3/8" - 19	3/8"	14.96	3/8"
S060-0806	BSPP FEMALE SWEPT 45°	1/2" - 14	1/2"	18.65	3/8"
S060-0808	BSPP FEMALE SWEPT 45°	1/2" - 14	1/2"	18.65	1/2"
S060-1010	BSPP FEMALE SWEPT 45°	5/8" - 14	5/8" *	20.6	5/8"
S060-1208	BSPP FEMALE SWEPT 45°	3/4" - 14	3/4"	24.13	1/2"
S060-1212	BSPP FEMALE SWEPT 45°	3/4" - 14	3/4"	24.13	3/4"
S060-1616	BSPP FEMALE SWEPT 45°	1" - 11	1"	30.3	1"
S060-2020	BSPP FEMALE SWEPT 45°	1 .1/4" - 11	1 1/4"	38.97	1 1/4"
S060-2424	BSPP FEMALE SWEPT 45°	1. 1/2" - 11	1 1/2"	44.86	1 1/2"
S060-3232	BSPP FEMALE SWEPT 45°	2" - 11	2"	56.67	2"

S018 - JIC MALE X SWAGE HOSETAIL

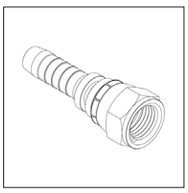


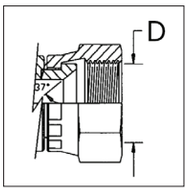


CODE	THREAD & TERMINATION INFORMATION				HOSETAIL INFO
	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S018-0704	JIC MALE	7/16" - 20	1/4"	11.07	1/4"
S018-0803	JIC MALE	1/2" - 20	5/16"	12.7	3/16"
S018-0804	JIC MALE	1/2" - 20	5/16"	12.7	1/4"
S018-0904	JIC MALE	9/16" - 18	3/8"	14.25	1/4"
S018-0906	JIC MALE	9/16" - 18	3/8"	14.25	3/8"
S018-1206	JIC MALE	3/4" - 16	1/2"	19	3/8"
S018-1208	JIC MALE	3/4" - 16	1/2"	19	1/2"
S018-1406	JIC MALE	7/8" - 14	5/8"	22.17	3/8"
S018-1408	JIC MALE	7/8" - 14	5/8"	22.17	1/2"
S018-1410	JIC MALE	7/8" - 14	5/8"	22.17	5/8"
S018-1412	JIC MALE	7/8" - 14	5/8"	22.17	3/4"
S018-1708	JIC MALE	1 1/16" - 12	3/4"	26.95	1/2"
S018-1710	JIC MALE	1 1/16" - 12	3/4"	26.95	5/8"
S018-1712	JIC MALE	1 1/16" - 12	3/4"	26.95	3/4"
S018-1716	JIC MALE	1 1/16" - 12	3/4"	26.95	1"
S018-1912	JIC MALE	1 3/16" - 12	7/8"	30.1	3/4"
S018-1916	JIC MALE	1 3/16" - 12	7/8"	30.1	1"
S018-2112	JIC MALE	1 5/16" - 12	1"	33.3	3/4"
S018-2116	JIC MALE	1 5/16" - 12	1"	33.3	1"
S018-2616	JIC MALE	1 5/8" - 12	1 1/4"	41.22	1"
S018-2620	JIC MALE	1 5/8" - 12	1 1/4"	41.22	1 1/4"
S018-3024	JIC MALE	1 7/8" - 12	1 1/2"	47.57	1 1/2"
S018-4032	JIC MALE	2 1/2" - 12	2"	63.45	2"

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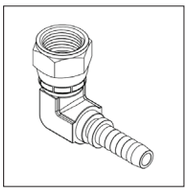
S005 - JIC FEMALE X SWAGE HOSETAIL

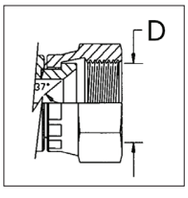




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S005-0702	JIC FEMALE	7/16" - 20	1/4"	10	1/8"
S005-0703	JIC FEMALE	7/16" - 20	1/4"	10	3/16"
S005-0704	JIC FEMALE	7/16" - 20	1/4"	10	1/4"
S005-0706	JIC FEMALE	7/16" - 20	1/4"	10	3/8"
S005-0803	JIC FEMALE	1/2" - 20	5/16"	11.6	3/16"
S005-0804	JIC FEMALE	1/2" - 20	5/16"	11.6	1/4"
S005-0806	JIC FEMALE	1/2" - 20	5/16"	11.6	3/8"
S005-0904	JIC FEMALE	9/16" - 18	3/8"	13	1/4"
S005-0906	JIC FEMALE	9/16" - 18	3/8"	13	3/8"
S005-0908	JIC FEMALE	9/16" - 18	3/8"	13	1/2"
S005-1206	JIC FEMALE	3/4" - 16	1/2"	17.6	3/8"
S005-1208	JIC FEMALE	3/4" - 16	1/2"	17.6	1/2"
S005-1212	JIC FEMALE	3/4" - 16	1/2"	17.6	3/4"
S005-1406	JIC FEMALE	7/8" - 14	5/8"	20.5	3/8"
S005-1408	JIC FEMALE	7/8" - 14	5/8"	20.5	1/2"
S005-1410	JIC FEMALE	7/8" - 14	5/8"	20.5	5/8"
S005-1412	JIC FEMALE	7/8" - 14	5/8"	20.5	3/4"
S005-1708	JIC FEMALE	1 1/16" - 12	3/4"	25	1/2"
S005-1710	JIC FEMALE	1 1/16" - 12	3/4"	25	5/8"
S005-1712	JIC FEMALE	1 1/16" - 12	3/4"	25	3/4"
S005-1716	JIC FEMALE	1 1/16" - 12	3/4"	25	1"
S005-1912	JIC FEMALE	1 3/16" - 12	7/8"	28.09	3/4"
S005-2112	JIC FEMALE	1 5/16" - 12	1"	31.3	3/4"
S005-2116	JIC FEMALE	1 5/16" - 12	1"	31.3	1"
S005-2616	JIC FEMALE	1 5/8" - 12	1 1/4"	39.2	1"
S005-2620	JIC FEMALE	1 5/8" - 12	1 1/4"	39.2	1 1/4"
S005-3024	JIC FEMALE	1 7/8" - 12	1 1/2"	45.6	1 1/2"
S005-4032	JIC FEMALE	2 1/2" - 12	2"	61.5	2"

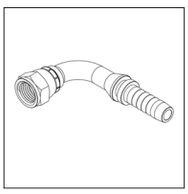
S029 - JIC FEMALE COMPACT 90° X SWAGE HOSETAIL

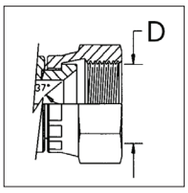




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S029-0704	JIC FEMALE COMPACT 90°	7/16" - 20	1/4"	10	1/4"
S029-0804	JIC FEMALE COMPACT 90°	1/2" - 20	5/16"	11.6	1/4"
S029-0904	JIC FEMALE COMPACT 90°	9/16" - 18	3/8"	13	1/4"
S029-0906	JIC FEMALE COMPACT 90°	9/16" - 18	3/8"	13	3/8"
S029-1206	JIC FEMALE COMPACT 90°	3/4" - 16	1/2"	17.6	3/8"
S029-1208	JIC FEMALE COMPACT 90°	3/4" - 16	1/2"	17.6	1/2"
S029-1408	JIC FEMALE COMPACT 90°	7/8" - 14	5/8"	20.5	1/2"
S029-1712	JIC FEMALE COMPACT 90°	1 1/16" - 12	3/4"	25	3/4"
S029-2116	JIC FEMALE COMPACT 90°	1 5/16" - 12	1"	31.3	1"

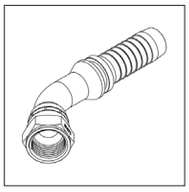
S055 - JIC FEMALE SWEPT 90° X SWAGE HOSETAIL

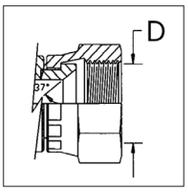




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S055-0704	JIC FEMALE SWEPT 90°	7/16" - 20	1/4"	10	1/4"
S055-0804	JIC FEMALE SWEPT 90°	1/2" - 20	5/16"	11.6	1/4"
S055-0904	JIC FEMALE SWEPT 90°	9/16" - 18	3/8"	13	1/4"
S055-0906	JIC FEMALE SWEPT 90°	9/16" - 18	3/8"	13	3/8"
S055-1206	JIC FEMALE SWEPT 90°	3/4" - 16	1/2"	17.6	3/8"
S055-1208	JIC FEMALE SWEPT 90°	3/4" - 16	1/2"	17.6	1/2"
S055-1406	JIC FEMALE SWEPT 90°	7/8" - 14	5/8"	20.5	3/8"
S055-1408	JIC FEMALE SWEPT 90°	7/8" - 14	5/8"	20.5	1/2"
S055-1410	JIC FEMALE SWEPT 90°	7/8" - 14	5/8"	20.5	5/8"
S055-1412	JIC FEMALE SWEPT 90°	7/8" - 14	5/8"	20.5	3/4"
S055-1708	JIC FEMALE SWEPT 90°	1 1/16" - 12	3/4"	25	1/2"
S055-1710	JIC FEMALE SWEPT 90°	1 1/16" - 12	3/4"	25	5/8"
S055-1712	JIC FEMALE SWEPT 90°	1 1/16" - 12	3/4"	25	3/4"
S055-1912	JIC FEMALE SWEPT 90°	1 3/16" - 12	7/8"	28.09	3/4"
S055-2112	JIC FEMALE SWEPT 90°	1 5/16" - 12	1"	31.3	3/4"
S055-2116	JIC FEMALE SWEPT 90°	1 5/16" - 12	1"	31.3	1"
S055-2616	JIC FEMALE SWEPT 90°	1 5/8" - 12	1 1/4"	39.2	1"
S055-2620	JIC FEMALE SWEPT 90°	1 5/8" - 12	1 1/4"	39.2	1 1/4"
S055-3024	JIC FEMALE SWEPT 90°	1 7/8" - 12	1 1/2"	45.6	1 1/2"
S055-4032	JIC FEMALE SWEPT 90°	2 1/2" - 12	2"	61.5	2"

S064 - JIC FEMALE SWEPT 45° X SWAGE HOSETAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S064-0704	JIC FEMALE SWEPT 45°	7/16" - 20	1/4"	10	1/4"
S064-0804	JIC FEMALE SWEPT 45°	1/2" - 20	5/16"	11.6	1/4"
S064-0904	JIC FEMALE SWEPT 45°	9/16" - 18	3/8"	13	1/4"
S064-0905	JIC FEMALE SWEPT 45°	9/16" - 18	3/8"	13	5/16"
S064-0906	JIC FEMALE SWEPT 45°	9/16" - 18	3/8"	13	3/8"
S064-1206	JIC FEMALE SWEPT 45°	3/4" - 16	1/2"	17.6	3/8"
S064-1208	JIC FEMALE SWEPT 45°	3/4" - 16	1/2"	17.6	1/2"
S064-1212	JIC FEMALE SWEPT 45°	3/4" - 16	1/2"	17.6	3/4"
S064-1406	JIC FEMALE SWEPT 45°	7/8" - 14	5/8"	20.5	3/8"
S064-1408	JIC FEMALE SWEPT 45°	7/8" - 14	5/8"	20.5	1/2"
S064-1708	JIC FEMALE SWEPT 45°	1 1/16" - 12	3/4"	25	1/2"
S064-1710	JIC FEMALE SWEPT 45°	1 1/16" - 12	3/4"	25	5/8"
S064-1712	JIC FEMALE SWEPT 45°	1 1/16" - 12	3/4"	25	3/4"
S064-1912	JIC FEMALE SWEPT 45°	1 3/16" - 12	7/8"	28.09	3/4"
S064-2112	JIC FEMALE SWEPT 45°	1 5/16" - 12	1"	31.3	3/4"
S064-2116	JIC FEMALE SWEPT 45°	1 5/16" - 12	1"	31.3	1"
S064-2616	JIC FEMALE SWEPT 45°	1 5/8" - 12	1 1/4"	39.2	1"
S064-2620	JIC FEMALE SWEPT 45°	1 5/8" - 12	1 1/4"	39.2	1 1/4"
S064-3024	JIC FEMALE SWEPT 45°	1 7/8" - 12	1 1/2"	45.6	1 1/2"
S064-4032	JIC FEMALE SWEPT 45°	2 1/2" - 12	2"	61.5	2"

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S013 - ORFS FEMALE X SWAGE HOSETAIL

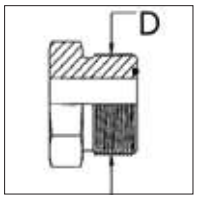




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S013-0904	ORFS FEMALE	9/16 - 18	1/4"	12.95	1/4"
S013-0906	ORFS FEMALE	9/16 - 18	1/4"	12.95	3/8"
S013-1104	ORFS FEMALE	11/16 - 16	3/8"	16	1/4"
S013-1106	ORFS FEMALE	11/16 - 16	3/8"	16	3/8"
S013-1108	ORFS FEMALE	11/16 - 16	3/8"	16	1/2"
S013-1306	ORFS FEMALE	13/16 - 16	1/2"	19.05	3/8"
S013-1308	ORFS FEMALE	13/16 - 16	1/2"	19.05	1/2"
S013-1608	ORFS FEMALE	1 - 14	5/8"	23.62	1/2"
S013-1610	ORFS FEMALE	1 - 14	5/8"	23.62	5/8"
S013-1612	ORFS FEMALE	1 - 14	5/8"	23.62	3/4"
S013-1616	ORFS FEMALE	1 - 14	5/8"	23.62	1"
S013-1908	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	1/2"
S013-1910	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	5/8"
S013-1912	ORFS FEMALE	1. 3/16 - 12	3/4"	28.19	3/4"
S013-2312	ORFS FEMALE	1. 7/16 - 12	1"	34.54	3/4"
S013-2316	ORFS FEMALE	1. 7/16 - 12	1"	34.54	1"
S013-2716	ORFS FEMALE	1. 11/16 - 12	1. 1/4"	40.89	1"
S013-2720	ORFS FEMALE	1. 11/16 - 12	1. 1/4"	40.89	1 1/4"

S040 - ORFS MALE X SWAGE HOSETAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S040-0904	ORFS MALE	9/16 - 18	1/4"	14.22	1/4"
S040-1104	ORFS MALE	11/16- 16	1/4"	17.52	1/4"
S040-1106	ORFS MALE	11/16- 16	3/8"	17.52	3/8"
S040-1306	ORFS MALE	13/16 - 16	1/2"	20.82	3/8"
S040-1308	ORFS MALE	13/16 - 16	1/2"	20.82	1/2"
S040-1608	ORFS MALE	1"	5/8	25.4	1/2"
S040-1912	ORFS MALE	1. 3/16 - 12	3/4"	30.22	3/4"
S040-2316	ORFS MALE	1. 7/16 - 12	1"	36.57	1"

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S052 - ORFS FEMALE SWEPT 90° X SWAGE HOSETAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S052-0904	ORFS FEMALE SWEPT 90°	9/16 - 18	1/4"	12.95	1/4"
S052-1104	ORFS FEMALE SWEPT 90°	11/16	3/8	16	1/4
S052-1106	ORFS FEMALE SWEPT 90°	11/16 - 16	3/8"	16.00	3/8"
S052-1306	ORFS FEMALE SWEPT 90°	13/16 - 16	1/2"	19.05	3/8"
S052-1308	ORFS FEMALE SWEPT 90°	13/16 - 16	1/2"	19.05	1/2"
S052-1608	ORFS FEMALE SWEPT 90°	1 - 14	5/8"	23.62	1/2"
S052-1610	ORFS FEMALE SWEPT 90°	1 - 14	5/8"	23.62	5/8"
S052-1616	ORFS FEMALE SWEPT 90°	1 - 14	5/8"	23.62	1"
S052-1908	ORFS FEMALE SWEPT 90°	1. 3/16 - 12	3/4"	28.19	1/2"
S052-1912	ORFS FEMALE SWEPT 90°	1. 3/16 - 12	3/4"	28.19	3/4"
S052-2316	ORFS FEMALE SWEPT 90°	1. 7/16 - 12	1"	24.54	1"
S052-2720	ORFS FEMALE SWEPT 90°	1. 11/16 - 12	1. 1/4"	40.89	1 1/4"
S052-1104	ORFS FEMALE SWEPT 90°	11/16" - 16	3/8"	16	1/4"
S052-1612	ORFS FEMALE SWEPT 90°	1" - 14	5/8"	23.62	3/4"
S052-2312	ORFS FEMALE SWEPT 90°	1 7/16" - 12	1"	34.54	3/4"
S052-2316	ORFS FEMALE SWEPT 90°	1.7/16	1"	34.54	1"
S052-2716	ORFS FEMALE SWEPT 90°	1.11/16	1"	40.89	1"
S052-2720	ORFS FEMALE SWEPT 90°	1.11/16	1.1/4"	40.89	1 1/4"

S063 - ORFS FEMALE SWEPT 45° X SWAGE HOSETAIL

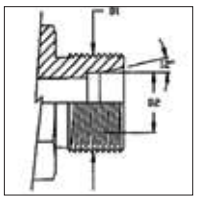




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S063-0904	ORFS FEMALE SWEPT 45°	9/16 - 18	1/4"	12.95	1/4"
S063-1104	ORFS FEMALE SWEPT 45°	11/16	3/8	16	1/4"
S063-1106	ORFS FEMALE SWEPT 45°	11/16 - 16	3/8"	16	3/8"
S063-1306	ORFS FEMALE SWEPT 45°	13/16 - 16	1/2"	19.05	3/8"
S063-1308	ORFS FEMALE SWEPT 45°	13/16 - 16	1/2"	19.05	1/2"
S063-1608	ORFS FEMALE SWEPT 45°	1 - 14	5/8"	23.62	1/2"
S063-1610	ORFS FEMALE SWEPT 45°	1 - 14	5/8"	23.62	5/8"
S063-1912	ORFS FEMALE SWEPT 45°	1. 3/16 - 12	3/4"	28.19	3/4"
S063-2316	ORFS FEMALE SWEPT 45°	1. 7/16 - 12	1"	34.54	1"
S063-2720	ORFS FEMALE SWEPT 45°	1.11/16	1.1/4	40.89	1.1/4

S080 - DKOL MALE METRIC LIGHT X SWAGE HOSETAIL

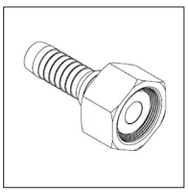


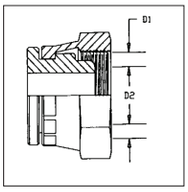


THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	'D2' NOMINAL PIPE SIZE	TAIL SIZE (TO SUIT HOSE I.D.)
S080-1204	DKOL MALE METRIC LIGHT	M12 - 1.5	12	6	1/4"
S080-1404	DKOL MALE METRIC LIGHT	M14 - 1.5	14	8	1/4"
S080-1604	DKOL MALE METRIC LIGHT	M16 - 1.5	16	10	1/4"
S080-1606	DKOL MALE METRIC LIGHT	M16 - 1.5	16	10	3/8"
S080-1804	DKOL MALE METRIC LIGHT	M18 - 1.5	18	12	1/4"
S080-1806	DKOL MALE METRIC LIGHT	M18 - 1.5	18	12	3/8"
S080-2206	DKOL MALE METRIC LIGHT	M22 - 1.5	22	15	3/8"
S080-2208	DKOL MALE METRIC LIGHT	M22 - 1.5	22	15	1/2"
S080-2608	DKOL MALE METRIC LIGHT	M26 - 1.5	26	18	1/2"
S080-2610	DKOL MALE METRIC LIGHT	M26 - 1.5	26	18	5/8"
S080-2612	DKOL MALE METRIC LIGHT	M26 - 1.5	26	18	3/4"
S080-3010	DKOL MALE METRIC LIGHT	M30 - 2.0	30	22	5/8"
S080-3012	DKOL MALE METRIC LIGHT	M30 - 2.0	30	22	3/4"
S080-3612	DKOL MALE METRIC LIGHT	M36 - 2.0	36	28	3/4"
S080-3616	DKOL MALE METRIC LIGHT	M36 - 2.0	36	28	1"
S080-4516	DKOL MALE METRIC LIGHT	M45 - 2.0	45	35	1"

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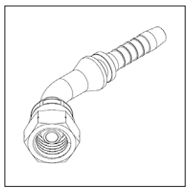
S081 - DKOL FEMALE METRIC LIGHT X SWAGE HOSETAIL

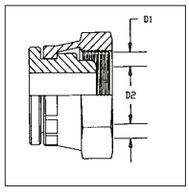




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE /FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	'D2' NOMINAL PIPE SIZE	TAIL SIZE (TO SUIT HOSE I.D.)
				(mm)	(to suit hose I.D)
S081-1204	DKOL FEMALE METRIC LIGHT	M12 - 1.5	10.5	6	1/4"
S081-1206	DKOL FEMALE METRIC LIGHT	M12 - 1.5	10.5	6	3/8"
S081-1404	DKOL FEMALE METRIC LIGHT	M14 - 1.5	12.5	8	1/4"
S081-1406	DKOL FEMALE METRIC LIGHT	M14 - 1.5	12.5	8	3/8"
S081-1604	DKOL FEMALE METRIC LIGHT	M16 - 1.5	14.5	10	1/4"
S081-1606	DKOL FEMALE METRIC LIGHT	M16 - 1.5	14.5	10	3/8"
S081-1804	DKOL FEMALE METRIC LIGHT	M18 - 1.5	16.5	12	1/4"
S081-1805	DKOL FEMALE METRIC LIGHT	M18 - 1.5	16.5	12	5/16"
S081-1806	DKOL FEMALE METRIC LIGHT	M18 - 1.5	16.5	12	3/8"
S081-1808	DKOL FEMALE METRIC LIGHT	M18 - 1.5	16.5	12	1/2"
S081-2206	DKOL FEMALE METRIC LIGHT	M22 - 1.5	20.5	15	3/8"
S081-2208	DKOL FEMALE METRIC LIGHT	M22 - 1.5	20.5	15	1/2"
S081-2608	DKOL FEMALE METRIC LIGHT	M26 - 1.5	24.5	18	1/2"
S081-2610	DKOL FEMALE METRIC LIGHT	M26 - 1.5	24.5	18	5/8"
S081-2612	DKOL FEMALE METRIC LIGHT	M26 - 1.5	24.5	18	3/4"
S081-3008	DKOL FEMALE METRIC LIGHT	M30 - 2.0	28	22	1/2"
S081-3010	DKOL FEMALE METRIC LIGHT	M30 - 2.0	28	22	5/8"
S081-3012	DKOL FEMALE METRIC LIGHT	M30 - 2.0	28	22	3/4"
S081-3612	DKOL FEMALE METRIC LIGHT	M36 - 2.0	34	28	3/4"
S081-3616	DKOL FEMALE METRIC LIGHT	M36 - 2.0	34	28	1"
S081-4516	DKOL FEMALE METRIC LIGHT	M45 - 2.0	43	35	1"
S081-4520	DKOL FEMALE METRIC LIGHT	M45 - 2.0	43	35	1"
S081-5220	DKOL FEMALE METRIC LIGHT	M52 - 2.0	50	42	1 1/4"
S081-5224	DKOL FEMALE METRIC LIGHT	M52 - 2.0	50	42	1 1/2"

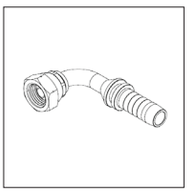
S087 - DKOL FEMALE METRIC LIGHT SWEPT 45° X SWAGE HOSETAIL

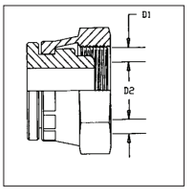




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE /FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	'D2' NOMINAL PIPE SIZE	TAIL SIZE
				(mm)	(to suit hose I.D)
S087-1204	DKOL FEMALE METRIC LIGHT SWEPT 45°	M12 - 1.5	10.5	6	1/4"
S087-1404	DKOL FEMALE METRIC LIGHT SWEPT 45°	M14 - 1.5	12.5	8	1/4"
S087-1604	DKOL FEMALE METRIC LIGHT SWEPT 45°	M16 - 1.5	14.5	10	1/4"
S087-1806	DKOL FEMALE METRIC LIGHT SWEPT 45°	M18 - 1.5	16.5	12	3/8"
S087-2206	DKOL FEMALE METRIC LIGHT SWEPT 45°	M22 - 1.5	20.5	15	3/8"
S087-2208	DKOL FEMALE METRIC LIGHT SWEPT 45°	M22 - 1.5	20.5	15	1/2"
S087-3012	DKOL FEMALE METRIC LIGHT SWEPT 45°	M30 - 2.0	28	22	3/4"
S087-3616	DKOL FEMALE METRIC LIGHT SWEPT 45°	M36 - 2.0	34	28	1"

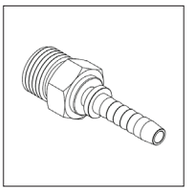
S086 - DKOL FEMALE METRIC LIGHT SWEPT 90° X SWAGE HOSETAIL

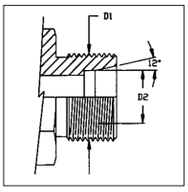




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE /FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	'D2' NOMINAL PIPE SIZE	TAIL SIZE
				(mm)	(to suit hose I.D)
S086-1204	DKOL FEMALE METRIC LIGHT SWEPT 90°	M12 - 1.5	10.5	6	1/4"
S086-1404	DKOL FEMALE METRIC LIGHT SWEPT 90°	M14 - 1.5	12.5	8	1/4"
S086-1604	DKOL FEMALE METRIC LIGHT SWEPT 90°	M16 - 1.5	14.5	10	1/4"
S086-1606	DKOL FEMALE METRIC LIGHT SWEPT 90°	M16 - 1.5	14.5	10	3/8"
S086-1806	DKOL FEMALE METRIC LIGHT SWEPT 90°	M18 - 1.5	16.5	12	3/8"
S086-2206	DKOL FEMALE METRIC LIGHT SWEPT 90°	M22 - 1.5	20.5	15	3/8"
S086-2208	DKOL FEMALE METRIC LIGHT SWEPT 90°	M22 - 1.5	20.5	15	1/2"
S086-2608	DKOL FEMALE METRIC LIGHT SWEPT 90°	M26 - 1.5	24.5	18	1/2"
S086-2610	DKOL FEMALE METRIC LIGHT SWEPT 90°	M26 - 1.5	24.5	18	5/8"
S086-2612	DKOL FEMALE METRIC LIGHT SWEPT 90°	M26 - 1.5	24.5	18	3/4"
S086-3012	DKOL FEMALE METRIC LIGHT SWEPT 90°	M30 - 2.0	28	22	3/4"
S086-3612	DKOL FEMALE METRIC LIGHT SWEPT 90°	M36 - 2.0	34	28	3/4"
S086-3616	DKOL FEMALE METRIC LIGHT SWEPT 90°	M36 - 2.0	34	28	1"
S086-4516	DKOL FEMALE METRIC LIGHT SWEPT 90°	M45 - 2.0	43	35	1"

S078 - DKOS MALE METRIC HEAVY X SWAGE HOSETAIL

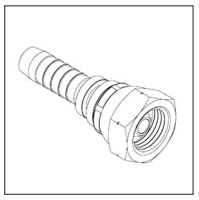


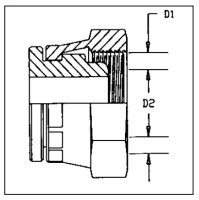


THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE /FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	'D2' NOMINAL PIPE SIZE	TAIL SIZE
				(mm)	(to suit hose I.D)
S078-1404	DKOS MALE METRIC HEAVY	M14 - 1.5	14	6	14
S078-1604	DKOS MALE METRIC HEAVY	M16 - 1.5	16	8	16
S078-1606	DKOS MALE METRIC HEAVY	M16 - 1.5	16	8	16
S078-1804	DKOS MALE METRIC HEAVY	M18 - 1.5	18	10	18
S078-1806	DKOS MALE METRIC HEAVY	M18 - 1.5	18	10	18
S078-2006	DKOS MALE METRIC HEAVY	M20 - 1.5	20	12	20
S078-2206	DKOS MALE METRIC HEAVY	M22 - 1.5	22	14	22
S078-2208	DKOS MALE METRIC HEAVY	M22 - 1.5	22	14	22
S078-2406	DKOS MALE METRIC HEAVY	M24 - 1.5	24	16	24
S078-2408	DKOS MALE METRIC HEAVY	M24 - 1.5	24	16	24
S078-3010	DKOS MALE METRIC HEAVY	M30 - 2.0	30	20	30
S078-3012	DKOS MALE METRIC HEAVY	M30 - 2.0	30	20	30
S078-3612	DKOS MALE METRIC HEAVY	M36 - 2.0	36	25	36
S078-3616	DKOS MALE METRIC HEAVY	M36 - 2.0	36	25	36
S078-4216	DKOS MALE METRIC HEAVY	M42 - 2.0	45	30	45

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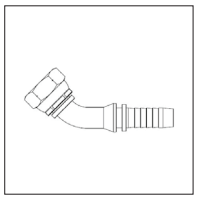
S079 - DKOS FEMALE METRIC HEAVY X SWAGE HOSETAIL

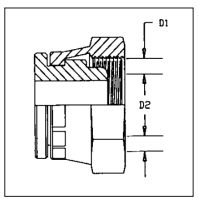




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE /FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	'D2' NOMINAL PIPE SIZE	TAIL SIZE
				(mm)	(to suit hose I.D)
S079-1404	DKOS FEMALE METRIC HEAVY	M14 - 1.5	12.5	6	1/4"
S079-1406	DKOS FEMALE METRIC HEAVY	M14 - 1.5	12.5	6	3/8"
S079-1604	DKOS FEMALE METRIC HEAVY	M16 - 1.5	14.5	8	1/4"
S079-1606	DKOS FEMALE METRIC HEAVY	M16 - 1.5	14.5	8	3/8"
S079-1804	DKOS FEMALE METRIC HEAVY	M18 - 1.5	16.5	10	1/4"
S079-1806	DKOS FEMALE METRIC HEAVY	M18 - 1.5	16.5	10	3/8"
S079-2006	DKOS FEMALE METRIC HEAVY	M20 - 1.5	18.5	12	3/8"
S079-2008	DKOS FEMALE METRIC HEAVY	M20 - 1.5	18.5	12	1/2"
S079-2206	DKOS FEMALE METRIC HEAVY	M22 - 1.5	20.5	14	3/8"
S079-2208	DKOS FEMALE METRIC HEAVY	M22 - 1.5	20.5	14	1/2"
S079-2406	DKOS FEMALE METRIC HEAVY	M24 - 1.5	22.5	16	3/8"
S079-2408	DKOS FEMALE METRIC HEAVY	M24 - 1.5	22.5	16	1/2"
S079-2608	DKOS FEMALE METRIC HEAVY	M26 - 1.5	24.5	18	1/2"
S079-3010	DKOS FEMALE METRIC HEAVY	M30 - 2.0	28	20	5/8"
S079-3012	DKOS FEMALE METRIC HEAVY	M30 - 2.0	28	20	3/4"
S079-3016	DKOS FEMALE METRIC HEAVY	M30 - 2.0	28	20	1"
S079-3612	DKOS FEMALE METRIC HEAVY	M36 - 2.0	34	25	3/4"
S079-3616	DKOS FEMALE METRIC HEAVY	M36 - 2.0	34	25	1"
S079-4216	DKOS FEMALE METRIC HEAVY	M42 - 2.0	40	30	1"

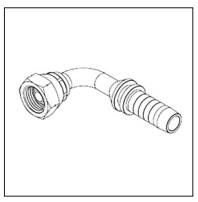
S084 - DKOS FEMALE METRIC HEAVY SWEPT 45° X SWAGE HOSETAIL

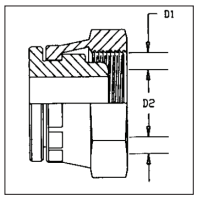




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE /FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	'D2' NOMINAL PIPE SIZE	TAIL SIZE
				(mm)	(to suit hose I.D)
S084-1804	DKOS FEMALE METRIC HEAVY SWEPT 45°	M18 - 1.5	16.5	10	1/4"
S084-2206	DKOS FEMALE METRIC HEAVY SWEPT 45°	M22 - 1.5	20.5	14	3/8"
S084-2408	DKOS FEMALE METRIC HEAVY SWEPT 45°	M24 - 1.5	22.5	16	1/2"
S084-3010	DKOS FEMALE METRIC HEAVY SWEPT 45°	M30 - 2.0	28	20	5/8"
S084-3012	DKOS FEMALE METRIC HEAVY SWEPT 45°	M30 - 2.0	28	20	3/4
S084-3612	DKOS FEMALE METRIC HEAVY SWEPT 45°	M36 - 2.0	34	25	3/4"
S084-4216	DKOS FEMALE METRIC HEAVY SWEPT 45°	M42 - 2.0	40	30	1"
S084-5220	DKOS FEMALE METRIC HEAVY SWEPT 45°	M52 - 2.0	50	38	1 1/4"

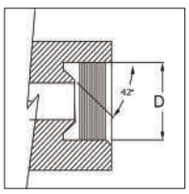
S083 - DKOS FEMALE METRIC HEAVY SWEPT 90° X SWAGE HOSETAIL





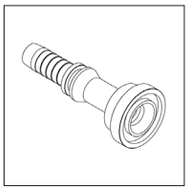
THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE /FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	'D2' NOMINAL PIPE SIZE	TAIL SIZE
				(mm)	(to suit hose I.D)
S083-1404	DKOS FEMALE METRIC HEAVY SWEPT 90°	M14 - 1.5	12.5	6	1/4"
S083-1604	DKOS FEMALE METRIC HEAVY SWEPT 90°	M16 - 1.5	14.5	8	1/4"
S083-1804	DKOS FEMALE METRIC HEAVY SWEPT 90°	M18 - 1.5	16.5	10	1/4"
S083-1806	DKOS FEMALE METRIC HEAVY SWEPT 90°	M18 - 1.5	16.5	10	3/8"
S083-2006	DKOS FEMALE METRIC HEAVY SWEPT 90°	M20 - 1.5	18.5	12	3/8"
S083-2206	DKOS FEMALE METRIC HEAVY SWEPT 90°	M22 - 1.5	20.5	14	3/8"
S083-2208	DKOS FEMALE METRIC HEAVY SWEPT 90°	M22 - 1.5	20.5	14	1/2"
S083-2408	DKOS FEMALE METRIC HEAVY SWEPT 90°	M24 - 1.5	22.5	16	1/2"
S083-2612	DKOS FEMALE METRIC HEAVY SWEPT 90°	M26 - 1.5	24.5	18	3/4"
S083-3012	DKOS FEMALE METRIC HEAVY SWEPT 90°	M30 - 2.0	28	20	3/4"
S083-3016	DKOS FEMALE METRIC HEAVY SWEPT 90°	M30 - 2.0	28	20	1"
S083-3612	DKOS FEMALE METRIC HEAVY SWEPT 90°	M36 - 2.0	34	25	3/4"
S083-3616	DKOS FEMALE METRIC HEAVY SWEPT 90°	M36 - 2.0	34	25	1"
S083-4216	DKOS FEMALE METRIC HEAVY SWEPT 90°	M42 - 2.0	40	30	1"

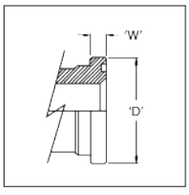
S003 - SAE FEMALE X SWAGE HOSETAIL



THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S003-0704	SAE FEMALE	7/16" - 24	1/4"	10	1/4"
S003-0804	SAE FEMALE	1/2"- 20	5/16"	11.6	1/4"
S003-1006	SAE FEMALE	5/8" - 18	3/8"	14.7	3/8"
S003-1208	SAE FEMALE	3/4" - 18	1/2"	17.6	1/2"
S003-1408	SAE FEMALE	7/8" - 18	5/8"	22.1	1/2"
S003-1410	SAE FEMALE	7/8" - 18	5/8"	22.1	5/8"
S003-1712	SAE FEMALE	1.1/16" - 16	3/4"	25.3	3/4"

S023 - SAE CODE 61 FLANGE STRAIGHT X SWAGE HOSETAIL

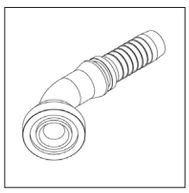


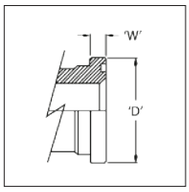


THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	D OR FD FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE
			(mm)	(mm)	(to suit hose I.D)
S023-0808	SAE CODE 61 FLANGE STRAIGHT	1/2"	30.18	6.73	1/2"
S023-1010	SAE CODE 61 FLANGE STRAIGHT	5/8"	34	6.73	5/8"
S023-1208	SAE CODE 61 FLANGE STRAIGHT	3/4"	38.1	6.73	1/2"
S023-1212	SAE CODE 61 FLANGE STRAIGHT	3/4"	38.1	6.73	3/4"
S023-1216	SAE CODE 61 FLANGE STRAIGHT	3/4"	38.1	6.73	1"
S023-1612	SAE CODE 61 FLANGE STRAIGHT	1"	44.45	8	3/4"
S023-1616	SAE CODE 61 FLANGE STRAIGHT	1"	44.45	8	1"
S023-2012	SAE CODE 61 FLANGE STRAIGHT	1.1/4"	50.8	8	3/4"
S023-2016	SAE CODE 61 FLANGE STRAIGHT	1.1/4"	50.8	8	1"
S023-2020	SAE CODE 61 FLANGE STRAIGHT	1.1/4"	50.8	8	1 1/4"
S023-2416	SAE CODE 61 FLANGE STRAIGHT	1.1/2"	60.33	8	1"
S023-2420	SAE CODE 61 FLANGE STRAIGHT	1.1/2"	60.33	8	1 1/4"
S023-2424	SAE CODE 61 FLANGE STRAIGHT	1.1/2"	60.33	8	1 1/2"
S023-3232	SAE CODE 61 FLANGE STRAIGHT	2"	71.42	9.53	2"

All images displayed are generic and product supplied may not be identical to image. Details and specifications are correct at date of publication; however, Silverline Group T/A BOA reserves the right to change details and specifications without notice. Please contact Silverline Group T/A BOA for further specifications and availability. It is the end users responsibility to ensure products are used & installed safely, Silverline Group T/A BOA accepts no responsibility for any damage or personal injury gained while using products. Names and numbers used in this catalogue for reference only. E & OE.

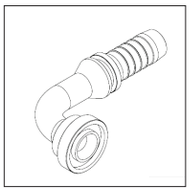
S068 - SAE FLANGE CODE 61 SWEPT 45° X SWAGE HOSETAIL

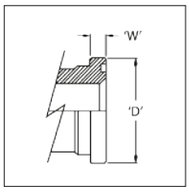




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	D OR FD FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE
			(mm)	(mm)	(to suit hose I.D)
S068-1010	SAE FLANGE CODE 61 SWEPT 45°	???	???	???	???
S068-1212	SAE FLANGE CODE 61 SWEPT 45°	3/4"	38.1	6.73	3/4"
S068-1612	SAE FLANGE CODE 61 SWEPT 45°	1"	44.45	8	3/4"
S068-1616	SAE FLANGE CODE 61 SWEPT 45°	1"	44.45	8	1"
S068-2016	SAE FLANGE CODE 61 SWEPT 45°	1.1/4"	50.8	8	1"
S068-2020	SAE FLANGE CODE 61 SWEPT 45°	1.1/4"	50.8	8	1 1/4"
S068-2420	SAE FLANGE CODE 61 SWEPT 45°	1.1/2"	60.33	8	1 1/4"
S068-2424	SAE FLANGE CODE 61 SWEPT 45°	1.1/2"	60.33	8	1 1/2"

S059 - SAE FLANGE CODE 61 SWEPT 90° X SWAGE HOSETAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	D OR FD FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE
			(mm)	(mm)	(to suit hose I.D)
S059-0808	SAE FLANGE CODE 61 SWEPT 90°	1/2"	30.18	6.73	1/2"
S059-1208	SAE FLANGE CODE 61 SWEPT 90°	3/4"	38.1	6.73	1/2"
S059-1212	SAE FLANGE CODE 61 SWEPT 90°	3/4"	38.1	6.73	3/4"
S059-1612	SAE FLANGE CODE 61 SWEPT 90°	1"	44.45	8	3/4"
S059-1616	SAE FLANGE CODE 61 SWEPT 90°	1"	44.45	8	1"
S059-2012	SAE FLANGE CODE 61 SWEPT 90°	1.1/4"	50.8	8	3/4"
S059-2016	SAE FLANGE CODE 61 SWEPT 90°	1.1/4"	50.8	8	1"
S059-2020	SAE FLANGE CODE 61 SWEPT 90°	1.1/4"	50.8	8	1 1/4"
S059-2420	SAE FLANGE CODE 61 SWEPT 90°	1.1/2"	60.33	8	1 1/4"
S059-2424	SAE FLANGE CODE 61 SWEPT 90°	1.1/2"	60.33	8	1 1/2"
S059-3232	SAE FLANGE CODE 61 SWEPT 90°	2"	71.42	9.53	2"

S059L - SAE FLANGE CODE 61 SWEPT 90° X SWAGE HOSETAIL LONG DROP

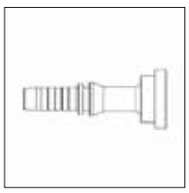


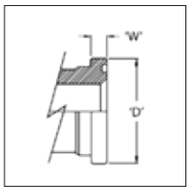
THREAD & TERMINATION INFORMATION						
CODE	THREAD TYPE / FITTING TYPE	NOM PIPE SIZE	D OR FD FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE	DROP
S059-1212L-4	SAE FLANGE CODE 61 SWEPT 90°	3/4"	38.1	6.73	3/4"	4" (100mm)
S059-1212L-5	SAE FLANGE CODE 61 SWEPT 90°	3/4"	38.1	6.73	3/4"	5" (125mm)
S059-1616L-4	SAE FLANGE CODE 61 SWEPT 90°	1"	44.45	8	1"	4" (100mm)
S059-1616L-5	SAE FLANGE CODE 61 SWEPT 90°	1"	44.45	8	1"	5" (125mm)

'Cat' or 'Supercat' flanges refer to a flange that conforms to SAE Code 62 in all aspects except the head thickness which is 14.2mm. Code 62 flanges can be adapted to replace 'cat' flanges either with a packer, or by replacing the Flange Clamps with standard Code 62 clamps. For spacers see page 134.

Order online in your time, on your preferred device
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S022 - SAE CODE 62 FLANGE STRAIGHT X SWAGE HOSETAIL

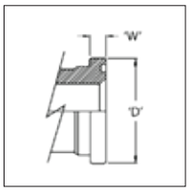




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	D OR FD FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE
			(mm)	(mm)	(to suit hose I.D)
S022-1208	SAE CODE 62 FLANGE STRAIGHT				
S022-1212	SAE CODE 62 FLANGE STRAIGHT	3/4"	41.28	8.76	3/4"
S022-1612	SAE CODE 62 FLANGE STRAIGHT	1"	47.63	9.53	3/4"
S022-1616	SAE CODE 62 FLANGE STRAIGHT	1"	47.63	9.53	1"
S022-2016	SAE CODE 62 FLANGE STRAIGHT	1 1/4"	53.98	10.29	1"
S022-2020	SAE CODE 62 FLANGE STRAIGHT	1 1/4"	53.98	10.29	1 1/4"
S022-2420	SAE CODE 62 FLANGE STRAIGHT	1 1/2"	63.5	12.57	1 1/4"
S022-2424	SAE CODE 62 FLANGE STRAIGHT	1 1/2"	63.5	12.57	1 1/2"
S022-3232	SAE CODE 62 FLANGE STRAIGHT	2"	79.38	12.57	2"

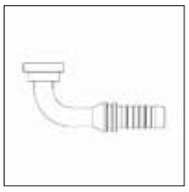
S062 - SAE FLANGE CODE 62 SWEPT 45° X SWAGE HOSETAIL

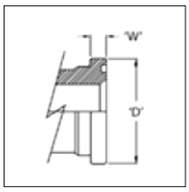




THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	D OR FD FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE
			(mm)	(mm)	(to suit hose I.D)
S062-1212	SAE FLANGE CODE 62 SWEPT 45°	3/4"	41.28	8.76	3/4"
S062-1612	SAE FLANGE CODE 62 SWEPT 45°	1"	47.63	9.53	3/4"
S062-1616	SAE FLANGE CODE 62 SWEPT 45°	1"	47.63	9.53	1"
S062-2016	SAE FLANGE CODE 62 SWEPT 45°	1 1/4"	53.98	10.29	1"
S062-2020	SAE FLANGE CODE 62 SWEPT 45°	1 1/4"	53.98	10.29	1 1/4"
S062-2420	SAE FLANGE CODE 62 SWEPT 45°	1 1/2"	63.5	12.57	1 1/4"
S062-2424	SAE FLANGE CODE 62 SWEPT 45°	1 1/2"	63.5	12.57	1 1/2"

S061 - SAE FLANGE CODE 62 SWEPT 90° X SWAGE HOSETAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL PIPE SIZE	D OR FD FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE
			(mm)	(mm)	(to suit hose I.D)
S061-0808	SAE FLANGE CODE 62 SWEPT 90°	1/2"	31.75	7.75	1/2"
S061-1212	SAE FLANGE CODE 62 SWEPT 90°	3/4"	41.28	8.76	3/4"
S061-1612	SAE FLANGE CODE 62 SWEPT 90°	1"	47.63	9.53	3/4"
S061-1616	SAE FLANGE CODE 62 SWEPT 90°	1"	47.63	9.53	1"
S061-2016	SAE FLANGE CODE 62 SWEPT 90°	1 1/4"	53.98	10.29	1"
S061-2020	SAE FLANGE CODE 62 SWEPT 90°	1-1/4"	53.98	10.29	1 1/4
S061-2420	SAE FLANGE CODE 62 SWEPT 90°	1 1/2"	63.5	12.57	1 1/4"
S061-2424	SAE FLANGE CODE 62 SWEPT 90°	1 1/2"	63.5	12.57	1 1/2"
S061-3232	SAE FLANGE CODE 62 SWEPT 90°	2"	79.38	12.57	2"

S061L – SAE FLANGE CODE 62 SWEPT 90 X SWAGE HOSETAIL LONG DROP

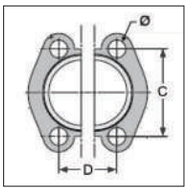


THREAD & TERMINATION INFORMATION						
CODE	THREAD TYPE / FITTING TYPE	NOM PIPE SIZE	D OR FD FLANGE DIAMETER	FLANGE THICKNESS W	TAIL SIZE	DROP
S061-1616L	SAE FLANGE CODE 62 SWEPT 90	1"	47.63	9.53	1"	5" (127mm)
S061-2016L	SAE FLANGE CODE 62 SWEPT 90	1-1/4"	53.98	10.29	1"	5" (127mm)
S061-2020L	SAE FLANGE CODE 62 SWEPT 90	1-1/4"	53.98	10.29	1-1/4"	5" (127mm)

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W - CODE 61 FLANGE CLAMPS

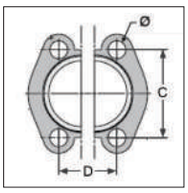




THREAD & TERMINATION INFORMATION				
CODE	DESCRIPTION	TO SUIT	'C' BOLT HOLE SPACING (+- 0.25MM)	'D' BOLT HOLE SPACING (+- 0.25MM)
W08	1/2 Code 61 Flange Clamp (1 Set)	1/2" Code 61 Flange	38.1	17.47
W12	3/4 Code 61 Flange Clamp (1 Set)	3/4" Code 61 Flange	47.63	22.22
W16	1 Code 61 Flange Clamp (1 Set)	1" Code 61 Flange	52.37	26.18
W20	1-1/4 Code 61 Flange Clamp (1 Set)	1-1/4" Code 61 Flange	58.72	30.17
W24	1-1/2 Code 61 Flange Clamp (1 Set)	1-1/2" Code 61 Flange	69.85	35.71
W32	2 Code 61 Flange Clamp (1 Set)	2" Code 61 Flange	77.77	42.87

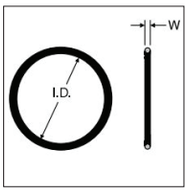
WHP - CODE 62 FLANGE CLAMPS





THREAD & TERMINATION INFORMATION				
CODE	DESCRIPTION	TO SUIT	'C' BOLT HOLE SPACING (+- 0.25MM)	'D' BOLT HOLE SPACING (+- 0.25MM)
WHP08	1/2 Code 62 Flange Clamp (1 Set)	1/2" Code 62 Flange	40.5	18.2
WHP12	3/4 Code 62 Flange Clamp (1 Set)	3/4" Code 62 Flange	47.75	22.35
WHP16	1 Code 62 Flange Clamp (1 Set)	1" Code 62 Flange	57.15	27.76
WHP20	1-1/4 Code 62 Flange Clamp (1 Set)	1-1/4" Code 62 Flange	66.67	31.75
WHP24	1-1/2 Code 62 Flange Clamp (1 Set)	1-1/2" Code 62 Flange	79.37	36.49
WHP32	2 Code 62 Flange Clamp (1 Set)	2" Code 62 Flange	96.82	44.45

SAE - SAE FLANGE O-RING



THREAD & TERMINATION INFORMATION			
CODE	DESCRIPTION	I.D.	CROSS SECTION (W)
SAE-08	1/2 SAE O-RING [.734 x .139]	18.64	3.53
SAE-12	3/4 SAE / Flange O-RING [.984 x .139]	25	3.53
SAE-16	1 SAE / Flange O-RING [1.296 x .139]	32.92	3.53
SAE-20	1 1/4 SAE / Flange O-RING [1.484 x .139]	37.69	3.53
SAE-24	1 1/2 SAE / Flange O-RING [1.859 x .139]	47.22	3.53
SAE-32	2 SAE / Flange O-RING [2.234 x .139]	56.74	3.53

F61-F62-KIT - SAE C61 & C62 FLANGE ADAPTOR TO JIC KIT

Keep one of these kits handy to ensure you aren't found wanting when you require a SAE flange termination!



STOCK CODE	DESCRIPTION	QTY
F61G-0814	1/2 C61 Flange x 7/8 JICM ADAPTER	1
F61G-1217	3/4 C61 Flange x 1 - 1/16 JICM ADAPTER	1
F61G-1621	1 C61 Flange x 1 - 5/16 JICM ADAPTER	1
F61G-2026	1 1/4 C61 Flange x 1 5/8 JICM ADAPTER	1
F62G-0814	1/2 C62 Flange x 7/8 JICM ADAPTER	1
F62G-1217	3/4 C62 Flange x 1 - 1/16 JICM	1
F62G-1621	1 C62 Flange x 1 - 5/16 JICM	1
F62G-2026	1 - 1/4 C62 Flange x 1 - 5/8 JICM	1

STOCK CODE	DESCRIPTION	QTY
W08	1/2 CODE 61 FLANGE CLAMP (1 Set)	1
W12	3/4 CODE 61 FLANGE CLAMP (1 Set)	1
W16	1 CODE 61 FLANGE CLAMP (1 Set)	1
W20	1-1/4 CODE 61 FLANGE CLAMP (1 Set)	1
WHP08	1/2 CODE 62 FLANGE CLAMP (1 Set)	1
WHP12	3/4 CODE 62 FLANGE CLAMP (1 set)	1
WHP16	1 CODE 62 FLANGE CLAMP (1 Set)	1
WHP20	1-1/4 CODE62 FLANGE CLAMPS (1 Set)	1

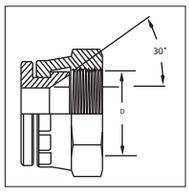
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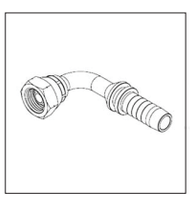
S070 - KOMATSU FEMALE X SWAGE HOSETAIL

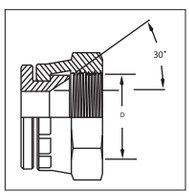




THREAD & TERMINATION INFORMATION				HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
			(mm)	(to suit hose I.D)
S070-1004	KOMATSU FEMALE	M10 - 1.5	8.5	1/4"
S070-1204	KOMATSU FEMALE	M12 - 1.5	10.5	1/4"
S070-1404	KOMATSU FEMALE	M14 - 1.5	12.5	1/4"
S070-1406	KOMATSU FEMALE	M14 - 1.5	12.5	3/8"
S070-1604	KOMATSU FEMALE	M16 - 1.5	14.5	1/4"
S070-1606	KOMATSU FEMALE	M16 - 1.5	14.5	3/8"
S070-1804	KOMATSU FEMALE	M18 - 1.5	16.5	1/4"
S070-1806	KOMATSU FEMALE	M18 - 1.5	16.5	3/8"
S070-1808	KOMATSU FEMALE	M18 - 1.5	16.5	1/2"
S070-2006	KOMATSU FEMALE	M20 - 1.5	18.5	3/8"
S070-2008	KOMATSU FEMALE	M20 - 1.5	18.5	1/2"
S070-2206	KOMATSU FEMALE	M22 - 1.5	20.5	3/8"
S070-2208	KOMATSU FEMALE	M22 - 1.5	20.5	1/2"
S070-2408	KOMATSU FEMALE	M24 - 1.5	22.5	1/2"
S070-2410	KOMATSU FEMALE	M24 - 1.5	22.5	5/8"
S070-2412	KOMATSU FEMALE	M24 - 1.5	22.5	3/4"
S070-2608	KOMATSU FEMALE	M26 - 1.5	24.5	1/2"
S070-2612	KOMATSU FEMALE	M26 - 1.5	24.5	3/4"
S070-3012	KOMATSU FEMALE	M30 - 1.5	28.5	3/4"
S070-3316	KOMATSU FEMALE	M33 - 1.5	31.5	1"
S070-3620	KOMATSU FEMALE	M36 - 1.5	34.5	1 1/4"
S070-4220	KOMATSU FEMALE	M42 - 1.5	40.5	1 1/4"
S070-2610	KOMATSU FEMALE	M26 - 1.5	24.5	5/8"
S070-3016	KOMATSU FEMALE	M30 - 1.5	28.5	1"
S070-3308	KOMATSU FEMALE	M33 - 1.5	31.5	1/2"
S070-3312	KOMATSU FEMALE	M33 - 1.5	31.5	3/4"

S072 - KOMATSU FEMALE SWEPT 90° X SWAGE HOSETAIL

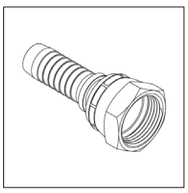


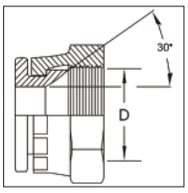


THREAD & TERMINATION INFORMATION				HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOM THREAD SIZE	PHYSICAL THREAD	TAIL SIZE
S072-1806	KOMATSU FEMALE SWEPT 90°	M18-1.5	16.5	3/8"
S072-2208	KOMATSU FEMALE SWEPT 90°	M22-1.5	20.5	1/2"
S072-2408	KOMATSU FEMALE SWEPT 90°	M24-1.5	22.5	1/2"
S072-2410	KOMATSU FEMALE SWEPT 90°	M24-1.5	22.5	5/8"
S072-3316	KOMATSU FEMALE SWEPT 90°	M33-1.5	31.5	1"

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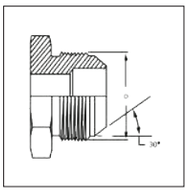
S026 - JIS (BSP) INVERTED FLARE FEMALE X SWAGE HOSETAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S026-0204	JIS (BSP) INVERTED FLARE FEMALE	1/8" - 28	1/8"	8.59	1/4"
S026-0404	JIS (BSP) INVERTED FLARE FEMALE	1/4" - 19	1/4"	11.46	1/4"
S026-0406	JIS (BSP) INVERTED FLARE FEMALE	1/4" - 19	1/4"	11.46	3/8"
S026-0604	JIS (BSP) INVERTED FLARE FEMALE	3/8" - 19	3/8"	14.96	1/4"
S026-0606	JIS (BSP) INVERTED FLARE FEMALE	3/8" - 19	3/8"	14.96	3/8"
S026-0806	JIS (BSP) INVERTED FLARE FEMALE	1/2" - 14	1/2"	18.65	3/8"
S026-0808	JIS (BSP) INVERTED FLARE FEMALE	1/2" - 14	1/2"	18.65	1/2"
S026-1208	JIS (BSP) INVERTED FLARE FEMALE	3/4" - 14	3/4"	24.13	1/2"
S026-1212	JIS (BSP) INVERTED FLARE FEMALE	3/4" - 14	3/4"	24.13	3/4"
S026-1616	JIS (BSP) INVERTED FLARE FEMALE	1" - 11	1"	30.3	1"
S026-2020	JIS (BSP) INVERTED FLARE FEMALE	1. 1/4" - 11	1 1/4"	38.97	1 1/4"
S026-2424	JIS (BSP) INVERTED FLARE FEMALE	1. 1/2" - 11	1 1/2"	44.86	1 1/2"

S027 - JIS (BSP) INVERTED FLARE MALE X SWAGE HOSETAIL



THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOM THREAD SIZE	NOM PIPE SIZE	PHYSICAL THREAD	TAIL SIZE
S027-0204	JIS (BSP) INVERTED FLARE MALE	1/8" - 28	1/8"	8.59	1/4"
S027-0404	JIS (BSP) INVERTED FLARE MALE	1/4" - 19	1/4"	11.46	1/4"
S027-0606	JIS (BSP) INVERTED FLARE MALE	3/8" - 19	3/8"	14.96	3/8"
S027-0808	JIS (BSP) INVERTED FLARE MALE	1/2" - 14	1/2"	18.65	1/2"
S027-1212	JIS (BSP) INVERTED FLARE MALE	3/4" - 14	3/4"	24.13	3/4"

S038 - IMPERIAL BANJO X SWAGE HOSETAIL



THREAD & TERMINATION INFORMATION					
CODE	THREAD TYPE	NOM THREAD SIZE	PHYSICAL THREAD	TAIL SIZE	MATCHING BANJO BOLT
S038-0203	IMPERIAL BANJO	1/8"	11.1	3/16"	S038B-0002
S038-0204	IMPERIAL BANJO	1/8"	11.1	1/4"	S038B-0002
S038-0403	IMPERIAL BANJO	1/4"	13.3	3/16"	S038B-0004
S038-0404	IMPERIAL BANJO	1/4"	13.3	1/4"	S038B-0004
S038-0604	IMPERIAL BANJO	3/8"	16.8	1/4"	S038B-0006
S038-0606	IMPERIAL BANJO	3/8"	16.8	3/8"	S038B-0006
S038-0806	IMPERIAL BANJO	1/2"	21.1	3/8"	S038B-0008
S038-0808	IMPERIAL BANJO	1/2"	21.1	1/2"	S038B-0008
S038-1008	IMPERIAL BANJO	5/8"	23.1	1/2"	S038B-0010
S038-1208	IMPERIAL BANJO	3/4"	26.6	1/2"	S038B-0012
S038-1212	IMPERIAL BANJO	3/4"	26.6	3/4"	S038B-0012
S038-1616	IMPERIAL BANJO	1"	33.5	1"	S038B-0016

S038M - METRIC BANJO X SWAGE HOSETAIL



THREAD & TERMINATION INFORMATION					
CODE	THREAD TYPE	NOM THREAD SIZE	PHYSICAL THREAD	TAIL SIZE	MATCHING BANJO BOLT
S038M-1003	METRIC BANJO	10mm	10	3/16"	S095B-0010
S038M-1004	METRIC BANJO	10mm	10	1/4"	S095B-0010
S038M-1203	METRIC BANJO	12mm	12	3/16"	S095B-0012
S038M-1204	METRIC BANJO	12mm	12	1/4"	S095B-0012
S038M-1206	METRIC BANJO	12mm	12	3/8"	S095B-0012
S038M-1212	METRIC BANJO	12mm	12	3/4"	S095B-0012
S038M-1404	METRIC BANJO	14mm	14	1/4"	S095B-0014
S038M-1406	METRIC BANJO	14mm	14	3/8"	S095B-0014
S038M-1604	METRIC BANJO	16mm	16	1/4"	S095B-0016
S038M-1606	METRIC BANJO	16mm	16	3/8"	S095B-0016
S038M-1806	METRIC BANJO	18mm	18	3/8"	S095B-0018
S038M-1808	METRIC BANJO	18mm	18	1/2"	S095B-0018
S038M-2208	METRIC BANJO	22mm	22	1/2"	S095B-0022
S038M-2210	METRIC BANJO	22mm	22	5/8"	S095B-0022

S038B - IMPERIAL BANJO BOLT



THREAD & TERMINATION INFORMATION			
CODE	THREAD TYPE	NOM THREAD SIZE	PHYSICAL THREAD
S038B-0002	IMPERIAL BANJO BOLT	1/8"	9.73
S038B-0004	IMPERIAL BANJO BOLT	1/4"	13.16
S038B-0006	IMPERIAL BANJO BOLT	3/8"	16.67
S038B-0008	IMPERIAL BANJO BOLT	1/2"	20.96
S038B-0010	IMPERIAL BANJO BOLT	5/8"	22.91
S038B-0012	IMPERIAL BANJO BOLT	3/4"	26.45
S038B-0016	IMPERIAL BANJO BOLT	1"	33.25

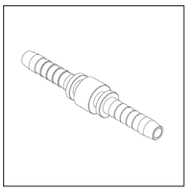
S095B - METRIC BANJO BOLT



THREAD & TERMINATION INFORMATION			
CODE	THREAD TYPE	NOM THREAD SIZE	PHYSICAL THREAD
S095B-0010	METRIC BANJO BOLT	M10 x 1.0	10
S095B-0012	METRIC BANJO BOLT	M12 x 1.5	12
S095B-0014	METRIC BANJO BOLT	M14 x 1.5	14
S095B-0016	METRIC BANJO BOLT	M16 x 1.5	16
S095B-0018	METRIC BANJO BOLT	M18 x 1.5	18
S095B-0020	METRIC BANJO BOLT	M20 x 1.5	20
S095B-0022	METRIC BANJO BOLT	M22 x 1.5	22
S095B-0024	METRIC BANJO BOLT	M24 x 1.5	24

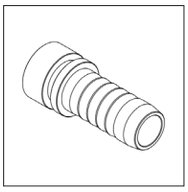
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S090 - HOSE JOINER X SWAGE HOSETAIL



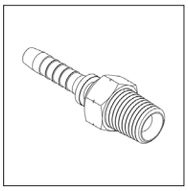
THREAD & TERMINATION INFORMATION		HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	TAIL SIZE
		(to suit hose I.D)
S090-0404	HOSE JOINER	1/4"
S090-0505	HOSE JOINER	5/16"
S090-0606	HOSE JOINER	3/8"
S090-0808	HOSE JOINER	1/2"
S090-1212	HOSE JOINER	3/4"
S090-1616	HOSE JOINER	1"
S090-0303	HOSE JOINER	3/16"
S090-1010	HOSE JOINER	5/8"

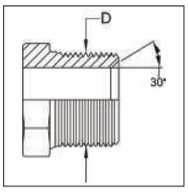
S096 - LIFESAVER X SWAGE HOSETAIL



THREAD & TERMINATION INFORMATION		HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	TAIL SIZE
		(to suit hose I.D)
S096-0004	LIFESAVER	1/4"
S096-0005	LIFESAVER	5/16"
S096-0006	LIFESAVER	3/8"
S096-0008	LIFESAVER	1/2"
S096-0010	LIFESAVER	5/8"
S096-0012	LIFESAVER	3/4"
S096-0016	LIFESAVER	1"
S096-0020	LIFESAVER	1 1/4"
S096-0024	LIFESAVER	1 1/2"
S096-0032	LIFESAVER	2"

S016 - NPT MALE X SWAGE HOSETAIL

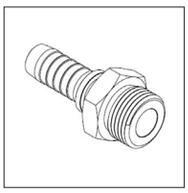


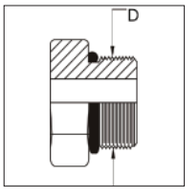


THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S016-0204	NPT MALE	1/8" - 27	1/8"	10.32	1/4"
S016-0404	NPT MALE	1/4" - 18	1/4"	13.89	1/4"
S016-0406	NPT MALE	1/4" - 18	1/4"	13.89	3/8"
S016-0604	NPT MALE	3/8" - 18	3/8"	17.06	1/4"
S016-0606	NPT MALE	3/8" - 18	3/8"	17.06	3/8"
S016-0608	NPT MALE	3/8" - 18	3/8"	17.06	1/2"
S016-0806	NPT MALE	1/2" - 14	1/2"	21.43	3/8"
S016-0808	NPT MALE	1/2" - 14	1/2"	21.43	1/2"
S016-1208	NPT MALE	3/4" - 14	3/4"	26.98	1/2"
S016-1212	NPT MALE	3/4" - 14	3/4"	26.98	3/4"
S016-1612	NPT MALE	1" - 11. 1/2	1"	33.33	3/4"
S016-1616	NPT MALE	1" - 11. 1/2	1"	33.33	1"
S016-2020	NPT MALE	1 1/4" - 11. 1/2	1 1/4"	42.46	1 1/4"
S016-2424	NPT MALE	1 1/2" - 11. 1/2	1 1/2"	48.42	1 1/2"
S016-3232	NPT MALE	2" - 11. 1/2	2"	60.32	2"

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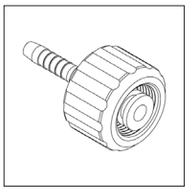
S020 - UNO MALE X SWAGE HOSETAIL





THREAD & TERMINATION INFORMATION					HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE & PITCH	NOMINAL PIPE SIZE	'D' THREAD PHYSICAL OD/ID	TAIL SIZE
				(mm)	(to suit hose I.D)
S020-0704	UNO MALE	7/16" - 20	1/4"	11.07	11.07
S020-0804	UNO MALE	1/2" - 20	5/16"	12.7	12.7
S020-0806	UNO MALE	1/2" - 20	5/16"	12.7	12.7
S020-0904	UNO MALE	9/16" - 18	3/8"	14.25	14.25
S020-0906	UNO MALE	9/16" - 18	3/8"	14.25	14.25
S020-1206	UNO MALE	3/4" - 16	1/2"	19	19
S020-1208	UNO MALE	3/4" - 16	1/2"	19	19
S020-1406	UNO MALE	7/8" - 14	5/8"	22.17	22.17
S020-1408	UNO MALE	7/8" - 14	5/8"	22.17	22.17
S020-1410	UNO MALE	7/8" - 14	5/8"	22.17	22.17
S020-1708	UNO MALE	1. 1/16" - 12	3/4"	26.95	26.95
S020-1710	UNO MALE	1. 1/16" - 12	3/4"	26.95	26.95
S020-1712	UNO MALE	1. 1/16" - 12	3/4"	26.95	26.95
S020-2112	UNO MALE	1. 5/16" - 12	1"	33.3	33.3
S020-2116	UNO MALE	1. 5/16" - 12	1"	33.3	33.3
S020-2620	UNO MALE	1. 5/8" - 12	1 1/4"	41.22	41.22
S020-3024	UNO MALE	1. 7/8" - 12	1 1/2"	47.57	47.57
S020-4032	UNO MALE	2. 1 /2" - 12	2"	63.45	63.45

S030 - KARCHER FEMALE X SWAGE HOSETAIL



THREAD & TERMINATION INFORMATION			HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE	TAIL SIZE
			(to suit hose I.D)
S030-2204	KARCHER FEMALE	22 MM	1/4"
S030-2205	KARCHER FEMALE	22 MM	5/16"
S030-2206	KARCHER FEMALE	22 MM	3/8"

S031 - KARCHER GUN INSERT X SWAGE HOSETAIL



THREAD & TERMINATION INFORMATION			HOSETAIL INFO
CODE	THREAD TYPE / FITTING TYPE	NOMINAL THREAD SIZE	TAIL SIZE
			(to suit hose I.D)
S031-1004	KARCHER GUN INSERT	10 MM	1/4"
S031-1104	KARCHER GUN INSER	11 MM	1/4"

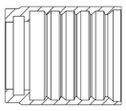
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FERRULES

RUBBER HYDRAULIC

SN3 - UNIVERSAL FERRULE (1-2 WIRE)

TO SUIT BOTH R1AT/1SN 1-WIRE & R2AT/2SN 2-WIRE HOSE



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SMSNS - MULTI-SPIRAL NON-SKIVE FERRULE

TO SUIT ISO/4SP/4SH MULTI-SPIRAL HOSE - NON-SKIVE

THE 2-PIECE NON-SKIVE OPTION FOR MULTI-SPIRAL HOSE APPLICATIONS! REAT OPTION WHEN USING 2-PIECE FITTINGS IN MULTI-SPIRAL APPLICATIONS OR FOR LESS COMMON THREADS THAT AREN'T YET AVAILABLE IN J-SERIES 1-PIECE. USE WITH OUR S-SERIES TAILS FOR A GREAT RESULT.



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THERMOPLASTIC

SN8 - THERMOPLASTIC FERRULE

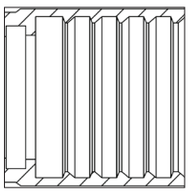
TO SUIT R7 & R8 THERMOPLASTIC HOSE



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SN1 - UNIVERSAL FERRULE (1-2WIRE)

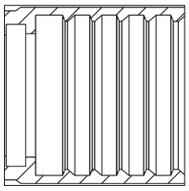
TO SUIT BOTH R1AT/1SN 1-WIRE & R2AT/2SN 2-WIRE HOSE WITH S-SERIES FITTINGS



ITEM NUMBER	DESCRIPTION	TO SUIT SIZE (HOSE ID)
SN3-04	1/4" UNIVERSAL FERRULE (1-2 WIRE)	1/4"
SN3-05	5/16" UNIVERSAL FERRULE (1-2 WIRE)	5/16"
SN3-06	3/8" UNIVERSAL FERRULE (1-2 WIRE)	3/8"
SN3-08	1/2" UNIVERSAL FERRULE (1-2 WIRE)	1/2"
SN3-10	5/8" UNIVERSAL FERRULE (1-2 WIRE)	5/8"
SN3-12	3/4" UNIVERSAL FERRULE (1-2 WIRE)	3/4"
SN3-16	1" UNIVERSAL FERRULE (1-2 WIRE)	1"
SN3-20	1 1/4" UNIVERSAL FERRULE (1-2 WIRE)	1 1/4"
SN3-24	1 1/2" UNIVERSAL FERRULE (1-2 WIRE)	1 1/2"
SN3-32	2" UNIVERSAL FERRULE (1-2 WIRE)	2"

SN2 - UNIVERSAL FERRULE (1-2WIRE)

TO SUIT BOTH R1AT/1SN 1-WIRE & R2AT/2SN 2-WIRE HOSE WITH S-SERIES FITTINGS



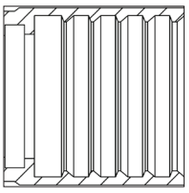
ITEM NUMBER	DESCRIPTION	TO SUIT SIZE (HOSE ID)
SN3-04	1/4" UNIVERSAL FERRULE (1-2 WIRE)	1/4"
SN3-05	5/16" UNIVERSAL FERRULE (1-2 WIRE)	5/16"
SN3-06	3/8" UNIVERSAL FERRULE (1-2 WIRE)	3/8"
SN3-08	1/2" UNIVERSAL FERRULE (1-2 WIRE)	1/2"
SN3-10	5/8" UNIVERSAL FERRULE (1-2 WIRE)	5/8"
SN3-12	3/4" UNIVERSAL FERRULE (1-2 WIRE)	3/4"
SN3-16	1" UNIVERSAL FERRULE (1-2 WIRE)	1"
SN3-20	1 1/4" UNIVERSAL FERRULE (1-2 WIRE)	1 1/4"
SN3-24	1 1/2" UNIVERSAL FERRULE (1-2 WIRE)	1 1/2"
SN3-32	2" UNIVERSAL FERRULE (1-2 WIRE)	2"

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TO SUIT RUBBER HYDRAULIC

SN3 - UNIVERSAL FERRULE (1-2 WIRE)

TO SUIT BOTH R1AT/1SN 1-WIRE & R2AT/2SN 2-WIRE HOSE WITH S-SERIES FITTINGS

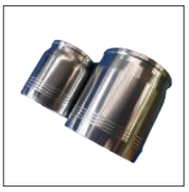


ITEM NUMBER	DESCRIPTION	TO SUIT SIZE (HOSE ID)
SN3-04	1/4" UNIVERSAL FERRULE (1-2 WIRE)	1/4"
SN3-05	5/16" UNIVERSAL FERRULE (1-2 WIRE)	5/16"
SN3-06	3/8" UNIVERSAL FERRULE (1-2 WIRE)	3/8"
SN3-08	1/2" UNIVERSAL FERRULE (1-2 WIRE)	1/2"
SN3-10	5/8" UNIVERSAL FERRULE (1-2 WIRE)	5/8"
SN3-12	3/4" UNIVERSAL FERRULE (1-2 WIRE)	3/4"
SN3-16	1" UNIVERSAL FERRULE (1-2 WIRE)	1"
SN3-20	1 1/4" UNIVERSAL FERRULE (1-2 WIRE)	1 1/4"
SN3-24	1 1/2" UNIVERSAL FERRULE (1-2 WIRE)	1 1/2"
SN3-32	2" UNIVERSAL FERRULE (1-2 WIRE)	2"

PREMIUM QUALITY

SMSNS - MULTI-SPIRAL NON-SKIVE FERRULE (4-6 WIRE)

NON-SKIVE TO SUIT MULTI-SPIRAL 4-6 WIRE HOSE WITH S-SERIES FITTINGS



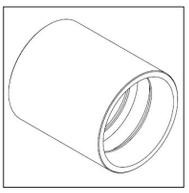


ITEM NUMBER	DESCRIPTION	TO SUIT SIZE (HOSE ID)
SMSNS-06	3/8 MS210 NON-SKIVE FERRULE	3/8"
SMSNS-08	1/2" MS210 NON- SKIVE FERRULE	1/2"
SMSNS-10	5/8" MS210 NON- SKIVE FERRULE	5/8"
SMSNS-12	3/4" MS210 NON- SKIVE FERRULE	3/4"
SMSNS-16	1" MS210 NON- SKIVE FERRULE	1"
SMSNS-20	1 1/4" MS210 NON- SKIVE FERRULE	1 1/4"
SMSNS-24	1 1/2" MS210 NON- SKIVE FERRULE	1 1/2"
SMSNS-32	2" MS210 NON- SKIVE FERRULE	2"

TO SUIT THERMOPLASTIC

SN8 - THERMOPLASTIC FERRULE

TO SUIT R7 & R8 THERMOPLASTIC HOSE



ITEM NUMBER	DESCRIPTION	TO SUIT SIZE (HOSE ID)
SN8-03	3/16" THERMOPLASTIC FERRULE	3/16"
SN8-04	1/4" THERMOPLASTIC FERRULE	1/4"
SN8-06	3/8" THERMOPLASTIC FERRULE	3/8"
SN8-08	1/2" THERMOPLASTIC FERRULE	1/2"
SN8-12	3/4" THERMOPLASTIC FERRULE	3/4"

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TESTIMONIALS

OUR CUSTOMERS LOVE WHAT WE DO



John, Northland Civil Contractor

"Since we have been with BOA Hydraulics we no longer have to wait half a day or sometimes more for a mobile hose repairer to come and fix the hose. This has been a huge savings for us as we have deadlines to meet. Being down for half a day every time a hose blows is just putting unnecessary pressure on my guys."

Ron, Taupo Based Logging Contractor

"The two areas we save the most is the Uptime of our machines – our machines are going all the time, and that alone is huge. When the machines are broken down, no money. Another place that we do save is in the cost of the hoses, I'm saving up to 50% on some other suppliers, so that's good for me and good for my pocket!"

"Having machines running well without break down delay, "Machine Uptime", leads to our machines and our people having to work less over hours and increased profit for our business."

Conan, Rotorua Logging Contractor

"The quality of hoses are great and I have especially noticed that on the drive motors on the Woodsmans I've got that they are definitely lasting longer."

With the BOA Solution "I'm now paying around 65% of what I was paying beforehand and plus I've got no call out fee now, so the savings have been significant and it has allowed me to keep an eye on exactly what hoses are blowing and what areas I need to focus on, with how the boys operate the machines. I would recommend this to all other loggers."

Lars, Northland Logging Contractor & Equipment Manufacturer

"It's a great working relationship with the team at BOA - We place the order, get what we've ordered, on time and at half the cost of using a hose doctor"

Pete, Kaitaia Logging Contractor

"I'd like to thank Albert and BOA for coming up and training us on how to use the Cutting and Crimping machine. We are saving a lot of money doing these hoses and its great now we can do our own."

Dave, Workshop Manager

"The transmission over to BOA was easy and we were fully supported through the process of the crimper & stock set up by the team. I've found all the staff at BOA very easy and a real pleasure to deal with.

I would certainly recommend BOA to other companies."

Tony, Canterbury Contractor

"Since making the switch to BOA, we have made significant savings in our hydraulic hose costs. Albert and the BOA team were very proactive and hands on with the initial set up of our hose room and have continued to back up their products with excellent and efficient customer service and knowledge."

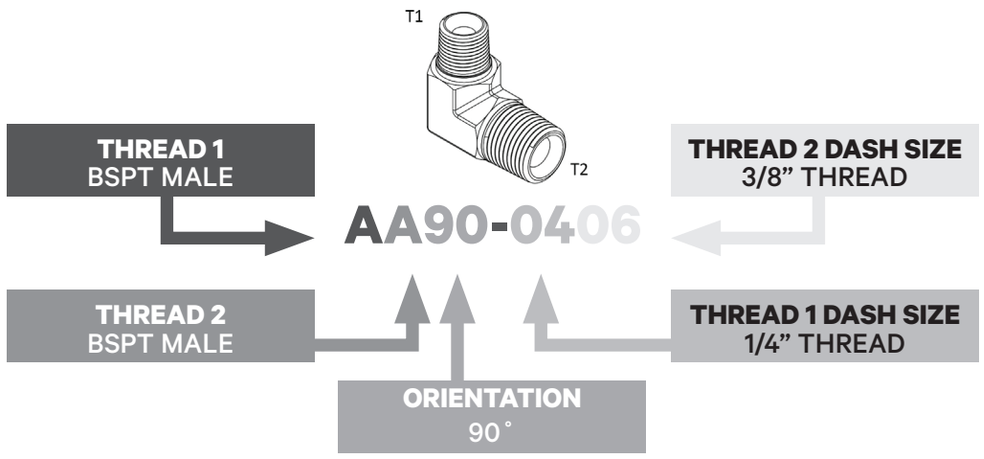
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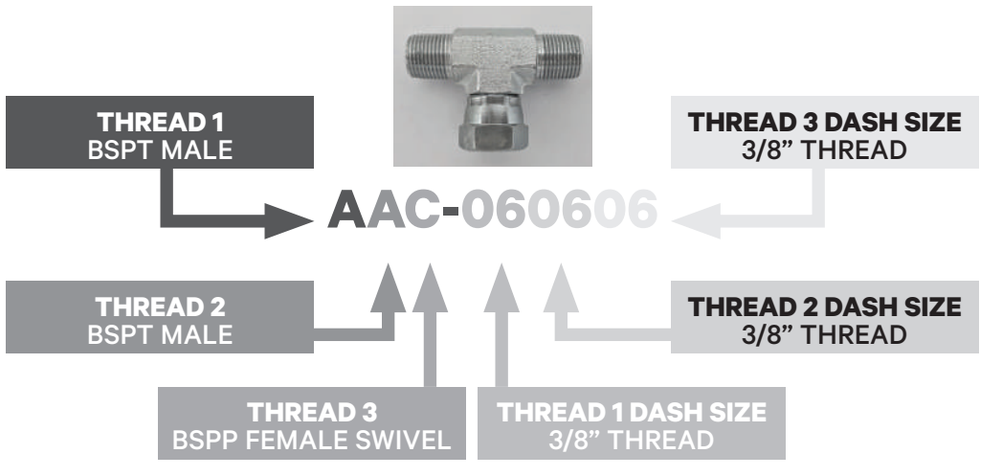
ADAPTORS

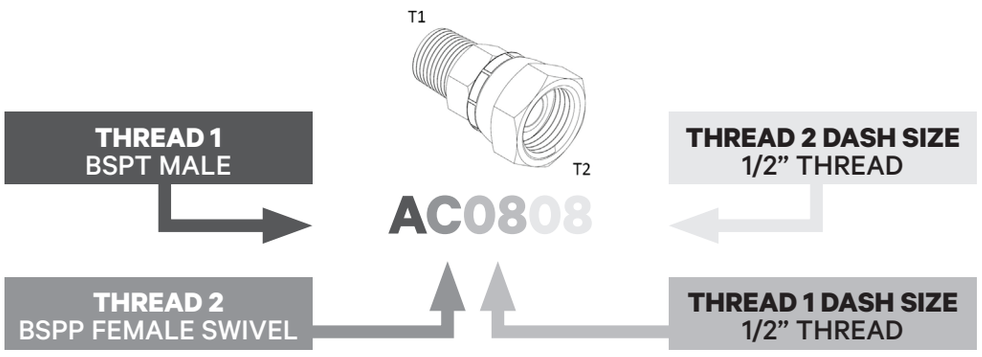
IDENTIFYING ADAPTORS PART NUMBERS

BOA's easy-to-use part numbering system utilises alpha-numerical coding to give an accurate product description in code form. Use our handy adaptors key opposite to identify your thread identification and size codes to turn directly to the part you are after.

EXAMPLES:







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ADAPTORS KEY

THREAD IDENTIFCATION

IDENTIFICATION	THREAD TYPE	IDENTIFICATION	THREAD TYPE
A	BSPT MALE	TW	TUBE WELD
AK	BSP LOCKNUT	L	NPT MALE
B	BSPP MALE	M	METRIC MALE
BK	BSPP MALE BULKHEAD	MX	METRIC FEMALE SWIVEL
C	BSP FEMALE SUNVEL	N	UNO MALE
D	NPT FEMALE	P	POSITIONAL (I.E. BBP90 = BSPP MALE X BSPP MALE POSITIONAL 90°)
E	BSPT FEMALE FIXED	R	ORFS MALE
F	BSPP FEMALE FIXED	RRK	ORFS MALE BULKHEAD
G	JIC MALE	S	SAE MALE
GK	JIC MALE BULKHEAD	T	ORFS FEMALE SWIVEL
H	JIS FEMALE	MCR	METRIC CUTTING RING
I	JIS (BSP) MALE	MNUT	METRIC TUBE NUT
J	JIC FEMALE SWIVEL	CD62	SAE CODE 62 FLANGE
W	SAE CODE 61 CLAMPS	JCR	FLARELESS CUTTING RING
WHP	SAE CODE 62 CLAMPS	JNUT	JIC NUT FOR FLARELESS CUTTING RING
KF	KOMATSU FEMALE		
KM	KOMATSU MALE		
SAE	SAE O-RING		

IMPERIAL SIZE CHART

DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE
02	1/8”	09	9/16”	17	1 - 1/16”	27	1 - 11/16”
03	3/16”	10	5/8”	19	1 - 3/16”	30	1 - 7/8”
04	1/4”	11	11/16”	20	1 - 1/4”	32	2”
05	5/16”	12	3/4”	21	1 - 5/16”	40	2 - 1/2”
06	3/8”	13	13/16”	23	1 - 7/16”	???	???
07	7/16”	14	7/8”	24	1 - 1/2”	???	???
08	1/2”	16	1”	26	1 - 5/8”	???	???

METRIC SIZE CHART

DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE	DASH SIZE	IMPERIAL SIZE
06	6 MM	15	15 MM	26	26 MM	36	36 MM
08	8 MM	16	16 MM	28	28 MM	38	38 MM
10	10 MM	18	18 MM	30	30 MM	40	40 MM
11	11 MM	20	20 MM	32	32 MM	42	42 MM
12	12 MM	22	22 MM	33	33 MM	45	45 MM
14	14 MM	24	24 MM	34	34 MM	52	52 MM

NOTE: PLEASE ENSURE YOU REFER TO THE CORRECT SIZE CHART; METRIC SIZE CHART FOR METRIC THREADS ONLY, NOT PHYSICAL SIZE OF IMPERIAL THREADS.

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45°

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STRAIGHT

BSP

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BSP

AB - BSPT MALE X BSPP MALE
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BSP

AC - BSPT MALE X BSPP FEMALE SWIVEL
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BSP

AE - BSPT MALE X BSPT FIXED FEMALE (REDUCING BUSH)
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BSP

AE - BSPT MALE X BSPT FIXED FEMALE (EXTENSION & UPSIZE)
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BSP JIS

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BSP JIC

AG - BSPT MALE X JIC MALE
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AML - BSPT MALE X METRIC MALE DKOL LIGHT SERIES
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BSP UNO

AN - BSPT MALE X UNO MALE
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BSP

BB - BSPP MALE X BSPP MALE
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BSP

BB-EXT - BSPP MALE X BSPP MALE LONG CONNECTOR
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BSP

BB RESTRICTOR - BSPP MALE X BSPP MALE WITH RESTRICTOR
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BSP

BC - BSPP MALE X BSPP FEMALE SWIVEL
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BSP

BE - BSPP MALE X BSPT FIXED FEMALE (TAPER)
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BSP

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BR - BSPP MALE X ORFS MALE
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BSP ORFS

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BSP

CE - BSPP FEMALE SWIVEL X BSPT FIXED FEMALE
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CG - BSPP FEMALE SWIVEL X JIC MALE
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BSP

EE - BSPT FIXED FEMALE X BSPT FIXED FEMALE
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BSP

FF - BSPP FIXED FEMALE X BSPP FIXED FEMALE
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BSP METRIC

FM - BSPP FIXED FEMALE X METRIC MALE
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BSP UNO

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F61G - SAE CODE 61 FLANGE X JIC MALE ADAPTER
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GM - JIC MALE X METRIC MALE
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GT - JIC MALE X ORFS FEMALE
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JIC

JJ - JIC FEMALE SWIVEL X JIC FEMALE SWIVEL
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LL - NPT MALE X NPT MALE
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ORFS

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ORFS

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TW-A - TUBE WELD X BSPT MALE
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BSP METRIC

BML - BSPP MALE X METRIC MALE DKOL
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BSP METRIC

BMS - BSPP MALE X METRIC MALE DKOS
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BSP METRIC

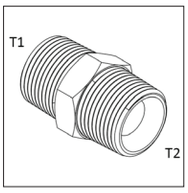
BMX-L - BSPP MALE X FEMALE METRIC DKOL
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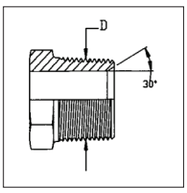
BSP METRIC

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AA - BSPT MALE X BSPT MALE





CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AA0202	1/8" - 28	9.73	1/8" - 28	9.73
AA0204	1/8" - 28	9.73	1/4" - 19	13.16
AA0206	1/8" - 28	9.73	3/8" - 19	16.67
AA0404	1/4" - 19	13.16	1/4" - 19	13.16
AA0406	1/4" - 19	13.16	3/8" - 19	16.67
AA0408	1/4" - 19	13.16	1/2" - 14	20.96
AA0412	1/4" - 19	13.16	3/4" - 14	26.45
AA0416	1/4" - 19	13.16	1" - 11	33.25
AA0606	3/8" - 19	16.67	3/8" - 19	16.67
AA0608	3/8" - 19	16.67	1/2" - 14	20.96
AA0612	3/8" - 19	16.67	3/4" - 14	26.45
AA0616	3/8" - 19	16.67	1" - 11	33.25
AA0808	1/2" - 14	20.96	1/2" - 14	20.96
AA0810	1/2" - 14	20.96	5/8" - 14	22.91
AA0812	1/2" - 14	20.96	3/4" - 14	26.45
AA0816	1/2" - 14	20.96	1" - 11	33.25
AA1010	5/8" - 14	22.91	5/8" - 14	22.91
AA1012	5/8" - 14	22.91	3/4" - 14	26.45
AA1212	3/4" - 14	26.45	3/4" - 14	26.45
AA1216	3/4" - 14	26.45	1" - 11	33.25
AA1220	3/4" - 14	26.45	1 1/4" - 11	41.91
AA1616	1" - 11	33.25	1" - 11	33.25
AA1620	1" - 11	33.25	1 1/4" - 11	41.91
AA1624	1" - 11	33.25	1 1/2" - 11	47.81
AA2020	1 1/4" - 11	41.91	1 1/4" - 11	41.91
AA2024	1 1/4" - 11	41.91	1 1/2" - 11	47.81
AA2032	1 1/4" - 11	41.91	2" - 11	59.62
AA2424	1 1/2" - 11	47.81	1 1/2" - 11	47.81
AA2432	1 1/2" - 11	47.81	2" - 11	59.62
AA3232	2" - 11	59.62	2" - 11	59.62

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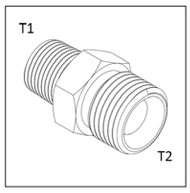
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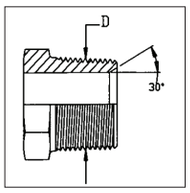
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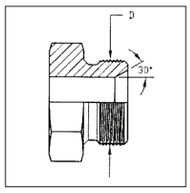
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AB - BSPT MALE X BSPP MALE



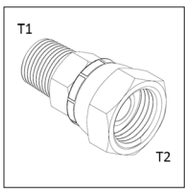


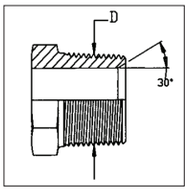


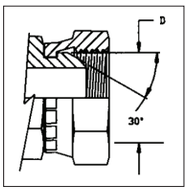
CODE	THREAD 1		THREAD 2	
	BSPT		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AB0202	1/8" - 28	9.73	1/8" - 28	9.73
AB0204	1/8" - 28	9.73	1/4" - 19	13.16
AB0206	1/8" - 28	9.73	3/8" - 19	16.67
AB0208	1/8" - 28	9.73	1/2" - 14	20.96
AB0402	1/4" - 19	13.16	1/8" - 28	9.73
AB0404	1/4" - 19	13.16	1/4" - 19	13.16
AB0406	1/4" - 19	13.16	3/8" - 19	16.67
AB0408	1/4" - 19	13.16	1/2" - 14	20.96
AB0602	3/8" - 19	16.67	1/8" - 28	9.73
AB0604	3/8" - 19	16.67	1/4" - 19	13.16
AB0606	3/8" - 19	16.67	3/8" - 19	16.67
AB0608	3/8" - 19	16.67	1/2" - 14	20.96
AB0612	3/8" - 19	16.67	3/4" - 14	26.45
AB0816	1/2" - 14	20.96	1" - 11	33.25
AB0804	1/2" - 14	20.96	1/4" - 19	13.16
AB0806	1/2" - 14	20.96	3/8" - 19	16.67
AB0808	1/2" - 14	20.96	1/2" - 14	20.96
AB0812	1/2" - 14	20.96	3/4" - 14	26.45
AB1206	3/4" - 14	26.45	3/8" - 19	16.67
AB1208	3/4" - 14	26.45	1/2" - 14	20.96
AB1212	3/4" - 14	26.45	3/4" - 14	26.45
AB1216	3/4" - 14	26.45	1" - 11	33.25
AB1220	3/4" - 14	26.45	1. 1/4" - 11	41.91
AB1608	1" - 11	33.25	1/2" - 14	20.96
AB1612	1" - 11	33.25	3/4" - 14	26.45
AB1616	1" - 11	33.25	1" - 11	33.25
AB1620	1" - 11	33.25	1. 1/4" - 11	41.91
AB1624	1" - 11	33.25	1 .1/2" - 11	47.81
AB2012	1 1/4" - 11	41.91	3/4" - 14	26.45
AB2016	1 1/4" - 11	41.91	1" - 11	33.25
AB2020	1 1/4" - 11	41.91	1. 1/4" - 11	41.91
AB2024	1 1/4" - 11	41.91	1 .1/2" - 11	47.81
AB2420	1 1/2" - 11	47.81	1. 1/4" - 11	41.91
AB2424	1 1/2" - 11	47.81	1 .1/2" - 11	47.81
AB2432	1 1/2" - 11	47.81	2" - 11	59.62
AB3216	2" - 11	59.62	1" - 11	33.25
AB3220	2" - 11	59.62	1 1/4" - 11	41.91
AB3232	2" - 11	59.62	2" - 11	59.62

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AC - BSPT MALE X BSPP FEMALE SWIVEL

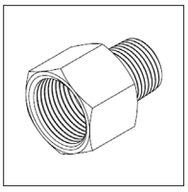






CODE	THREAD 1		THREAD 2	
	BSPT		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AC0202	1/8" - 28	9.73	1/8" - 28	8.59
AC0204	1/8" - 28	9.73	1/4" - 19	11.46
AC0402	1/4" - 19	13.16	1/8" - 28	8.59
AC0404	1/4" - 19	13.16	1/4" - 19	11.46
AC0406	1/4" - 19	13.16	3/8" - 19	14.96
AC0408	1/4" - 19	13.16	1/2" - 14	18.65
AC0606	3/8" - 19	16.67	3/8" - 19	14.96
AC0608	3/8" - 19	16.67	1/2" - 14	18.65
AC0806	1/2" - 14	20.96	3/8" - 19	14.96
AC0808	1/2" - 14	20.96	1/2" - 14	18.65
AC0812	1/2" - 14	20.96	3/4" - 14	24.13
AC1208	3/4" - 14	26.45	1/2" - 14	18.65
AC1212	3/4" - 14	26.45	3/4" - 14	24.13
AC1216	3/4" - 14	26.45	1" - 11	30.3
AC1612	1" - 11	33.25	3/4" - 14	24.13
AC1616	1" - 11	33.25	1" - 11	30.3
AC1620	1" - 11	33.25	1 .1/4" - 11	38.97
AC2020	1 1/4" - 11	41.91	1 .1/4" - 11	38.97
AC2424	1 1/2" - 11	47.81	1. 1/2" - 11	44.86
AC0604	3/8" - 19	16.67	1/4" - 19	11.46
AC0804	1/2" - 14	20.96	1/4" - 19	11.46
AC3232	2" - 11	59.62	2" - 11	56.67

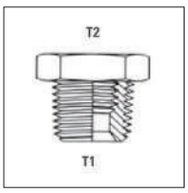
AE - BSPT MALE X BSPT FIXED FEMALE (EXTENSION & UPSIZE)

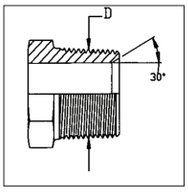


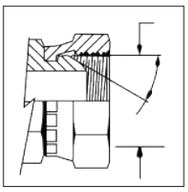
CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AE0604L	3/8" - 19	16.67	1/4" - 19	11.46
AE0608	3/8" - 19	16.67	1/2" - 14	18.65
AE0806L	1/2" - 14	20.96	3/8" -19	14.96
AE1220	3/4" - 14	26.45	1 1/4" - 11	38.97
AE1624	1" - 11	33.25	1 1/2" - 11	44.86

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AE - BSPT MALE X BSPT FIXED FEMALE (REDUCING BUSH)

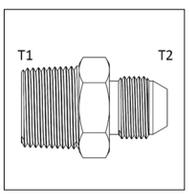


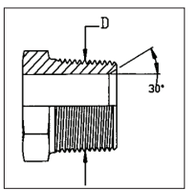


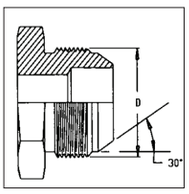


CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AE0202	1/8" - 28	9.73	1/8" - 28	8.59
AE0204	1/8" - 28	9.73	1/4" - 19	11.46
AE0402	1/4" - 19	13.16	1/8" - 28	8.59
AE0404	1/4" - 19	13.16	1/4" - 19	11.46
AE0406	1/4" - 19	13.16	3/8" - 19	14.96
AE0602	3/8" - 19	16.67	1/8" - 28	8.59
AE0604	3/8" - 19	16.67	1/4" - 19	11.46
AE0606	3/8" - 19	16.67	3/8" - 19	14.96
AE0804	1/2" - 14	20.96	1/4" - 19	11.46
AE0806	1/2" - 14	20.96	3/8" - 19	14.96
AE0808	1/2" - 14	20.96	1/2" - 14	18.65
AE1204	3/4" - 14	26.45	1/4" - 19	11.46
AE1206	3/4" - 14	26.45	3/8" - 19	14.96
AE1208	3/4" - 14	26.45	1/2" - 14	18.65
AE1212	3/4" - 14	26.45	3/4" - 14	24.13
AE1604	1" - 11	33.25	1/4" - 19	11.46
AE1606	1" - 11	33.25	3/8" - 19	14.96
AE1608	1" - 11	33.25	1/2" - 14	18.65
AE1612	1" - 11	33.25	3/4" - 14	24.13
AE1620	1" - 11	33.25	1 .1/4" - 11	38.97
AE2016	1 1/4" - 11	41.91	1" - 11	30.3
AE2420	1 1/2" - 11	47.81	1 .1/4" - 11	38.97
AE3224	2" - 11	59.62	1. 1/2" - 11	44.86
AE2008	1 1/4" - 11	41.91	1/2" - 14	18.65
AE2012	1 1/4" - 11	41.91	3/4" - 14	24.13
AE2412	1 1/2" - 11	47.81	3/4" - 14	24.13
AE2416	1 1/2" - 11	47.81	1" - 11	30.3

AI - BSPT MALE X JIS (BSP INVERTED) MALE



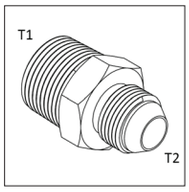


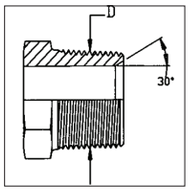


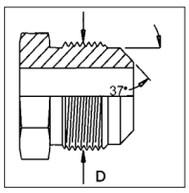
CODE	THREAD 1		THREAD 2	
	BSPT		JIS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AI0404	1/4" - 19	13.16	1/4" - 19	13.16
AI0606	3/8" - 19	16.67	3/8" - 19	16.67
AI0808	1/2" - 14	20.96	1/2" - 14	20.96
AI1212	3/4" - 14	26.45	3/4" - 14	26.45
AI1616	1" - 11	33.25	1" - 11	33.25

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AG - BSPT MALE X JIC MALE



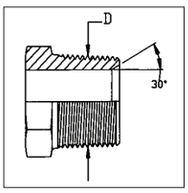


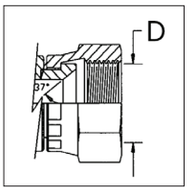


CODE	THREAD 1		THREAD 2	
	BSPT		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AG0207	1/8" - 28	9.73	7/16" - 20	11.07
AG0209	1/8" - 28	9.73	9/16" - 18	14.25
AG0407	1/4" - 19	13.16	7/16" - 20	11.07
AG0408	1/4" - 19	13.16	1/2" - 20	12.7
AG0409	1/4" - 19	13.16	9/16" - 18	14.25
AG0607	3/8" - 19	16.67	7/16" - 20	11.07
AG0608	3/8" - 19	16.67	1/2" - 20	12.7
AG0609	3/8" - 19	16.67	9/16" - 18	14.25
AG0612	3/8" - 19	16.67	3/4" - 16	19
AG0614	3/8" - 19	16.67	7/8" - 14	22.17
AG0807	1/2" - 14	20.96	7/16" - 20	11.07
AG0808	1/2" - 14	20.96	1/2" - 20	12.7
AG0809	1/2" - 14	20.96	9/16" - 18	14.25
AG0812	1/2" - 14	20.96	3/4" - 16	19
AG0814	1/2" - 14	20.96	7/8" - 14	22.17
AG0817	1/2" - 14	20.96	1 1/16" - 12	26.95
AG1212	3/4" - 14	26.45	3/4" - 16	19
AG1214	3/4" - 14	26.45	7/8" - 14	22.17
AG1217	3/4" - 14	26.45	1 1/16" - 12	26.95
AG1219	3/4" - 14	26.45	1 3/16" - 12	30.1
AG1221	3/4" - 14	26.45	1 5/16" - 12	33.3
AG1617	1" - 11	33.25	1 1/16" - 12	26.95
AG1621	1" - 11	33.25	1 5/16" - 12	33.3
AG1626	1" - 11	33.25	1 5/8" - 12	41.22
AG2017	1 1/4" - 11	41.91	1 1/16" - 12	26.95
AG2026	1 1/4" - 11	41.91	1 5/8" - 12	41.22
AG2430	1 1/2" - 11	47.81	1 7/8" - 12	47.57
AG3240	2" - 11	59.62	2 1/2" - 12	63.45

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AJ - BSPT MALE X JIC FEMALE SWIVEL

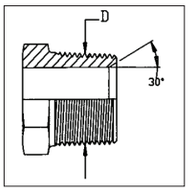


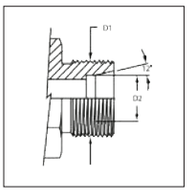


CODE	THREAD 1		THREAD 2	
	BSPT		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AJ0407	1/4" - 19	13.16	7/16" - 20	10
AJ0408	1/4" - 19	13.16	1/2" - 20	11.6
AJ0409	1/4" - 19	13.16	9/16" - 18	13
AJ0607	3/8" - 19	16.67	7/16" - 20	10
AJ0609	3/8" - 19	16.67	9/16" - 18	13
AJ0612	3/8" - 19	16.67	3/4" - 16	17.6
AJ0614	3/8" - 19	16.67	7/8" - 14	20.5
AJ0812	1/2" - 14	20.96	3/4" - 16	17.6
AJ0814	1/2" - 14	20.96	7/8" - 14	20.5
AJ0817	1/2" - 14	20.96	1 1/16" - 12	25
AJ1214	3/4" - 14	26.45	7/8" - 14	20.5
AJ1217	3/4" - 14	26.45	1 1/16" - 12	25
AJ1621	1" - 11	33.25	1 5/16"	33.3

AM - BSPT MALE X METRIC MALE







CODE	THREAD 1		THREAD 2	
	BSPT		METRIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AM0418	1/4" - 19	13.16	M18 - 1.5	18
AM0618	3/8" - 19	16.67	M18 - 1.5	18
AM0622	3/8" - 19	16.67	M22 - 1.5	22
AM0822	1/2" - 14	20.96	M22 - 1.5	22

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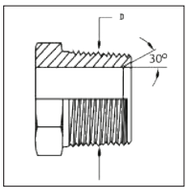
OEM supplier to Hitachi, Komatsu, Kobelco, IHI, Yanmar & many other top brands.

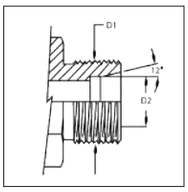


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AML - BSPT MALE X METRIC MALE DKOL LIGHT SERIES

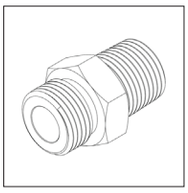


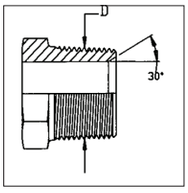


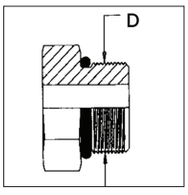


CODE	THREAD 1		THREAD 2	
	BSPT		METRIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AM0410L	1/4" - 19	13.16	M10 - 1.5	10
AM0418L	1/4" - 19	13.16	M18 - 1.5	18
AM0614L	3/8" - 19	16.67	M14 - 1.5	14
AM0616L	3/8" - 19	16.67	M16 - 1.5	16
AM0618L	3/8" - 19	16.67	M18 - 1.5	18
AM0622L	3/8" - 19	16.67	M22 - 1.5	22
AM0816L	1/2" - 14	20.96	M16 - 1.5	16
AM0818L	1/2" - 14	20.96	M18 - 1.5	18
AM0820L	1/2" - 14	20.96	M20 - 1.5	20
AM0822L	1/2" - 14	20.96	M22 - 1.5	22
AM0824L	1/2" - 14	20.96	M24 - 1.5	24
AM1226L	3/4" - 14	26.45	M26 - 1.5	26
AM1230L	3/4" - 14	26.45	M30 - 2.0	30
AM2045L	1 1/4" - 11	41.91	M45 - 2.0	45

AN - BSPT MALE X UNO MALE



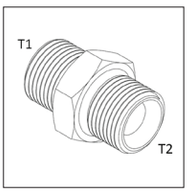


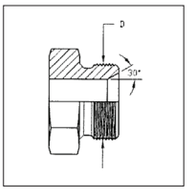


CODE	THREAD 1		THREAD 2	
	BSPT		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AN0407	1/4" - 19	13.16	7/16" - 20	11.07
AN0408	1/4" - 19	13.16	1/2" - 20	12.7
AN0409	1/4" - 19	13.16	9/16" - 18	14.25
AN0412	1/4" - 19	13.16	3/4" - 16	19
AN0609	3/8" - 19	16.67	9/16" - 18	14.25
AN0612	3/8" - 19	16.67	3/4" - 16	19
AN0614	3/8" - 19	16.67	7/8" - 14	22.17
AN0809	1/2" - 14	20.96	9/16" - 18	14.25
AN0812	1/2" - 14	20.96	3/4" - 16	19
AN0817	1/2" - 14	20.96	1 1/16" - 12	26.95
AN1214	3/4" - 14	26.45	7/8" - 14	22.17
AN1217	3/4" - 14	26.45	1. 1/16" - 12	26.95
AN1617	1" - 11	33.25	1. 1/16" - 12	26.95
AN1621	1" - 11	33.25	1. 5/16" - 12	33.3
AN2030	1 1/4" - 11	41.91	1. 7/8" - 12	47.57
AN0607	3/8" - 19	16.67	7/16" - 20	11.07

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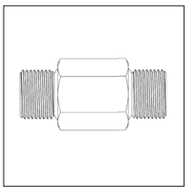
BB - BSPP MALE X BSPP MALE





CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BB0202	1/8" - 28	9.73	1/8" - 28	9.73
BB0204	1/8" - 28	9.73	1/4" - 19	13.16
BB0206	1/8" - 28	9.73	3/8" - 19	16.67
BB0404	1/4" - 19	13.16	1/4" - 19	13.16
BB0406	1/4" - 19	13.16	3/8" - 19	16.67
BB0408	1/4" - 19	13.16	1/2" - 14	20.96
BB0410	1/4" - 19	13.16	5/8" - 14	22.91
BB0412	1/4" - 19	13.16	3/4" - 14	26.45
BB0416	1/4" - 19	13.16	1" - 11	33.25
BB0606	3/8" - 19	16.67	3/8" - 19	16.67
BB0608	3/8" - 19	16.67	1/2" - 14	20.96
BB0610	3/8" - 19	16.67	5/8" - 14	22.91
BB0612	3/8" - 19	16.67	3/4" - 14	26.45
BB0616	3/8" - 19	16.67	1" - 11	33.25
BB0808	1/2" - 14	20.96	1/2" - 14	20.96
BB0810	1/2" - 14	20.96	5/8" - 14	22.91
BB0812	1/2" - 14	20.96	3/4" - 14	26.45
BB0816	1/2" - 14	20.96	1" - 11	33.25
BB1010	5/8" - 14	22.91	5/8" - 14	22.91
BB1012	5/8" - 14	22.91	3/4" - 14	26.45
BB1212	3/4" - 14	26.45	3/4" - 14	26.45
BB1216	3/4" - 14	26.45	1" - 11	33.25
BB1220	3/4" - 14	26.45	1. 1/4" - 11	41.91
BB1616	1" - 11	33.25	1" - 11	33.25
BB1620	1" - 11	33.25	1. 1/4" - 11	41.91
BB1624	1" - 11	33.25	1 1/2" - 11	47.81
BB2020	1. 1/4" - 11	41.91	1. 1/4" - 11	41.91
BB2024	1. 1/4" - 11	41.91	1 .1/2" - 11	47.81
BB2424	1 .1/2" - 11	47.81	1 .1/2" - 11	47.81
BB2432	1 .1/2" - 11	47.81	2" - 11	59.62
BB3232	2" - 11	59.62	2" - 11	59.62

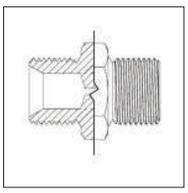
BB-EXT - BSPP MALE X BSPP MALE LONG CONNECTOR



CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BB-EXT0404	1/4" - 19	13.16	1/4" - 19	13.16
BB-EXT0606	3/8" - 19	16.67	3/8" - 19	16.67
BB-EXT0608	3/8" - 19	16.67	1/2" - 14	20.96
BB-EXT0808	1/2" - 14	20.96	1/2" - 14	20.96
BB-EXT1616	1" - 11	33.25	1" - 11	33.25

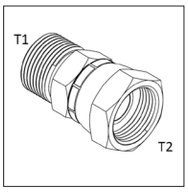
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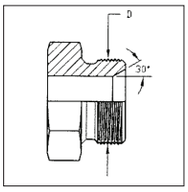
BB RESTRICTOR - BSPP MALE X BSPP MALE WITH RESTRICTOR

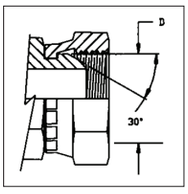


CODE	THREAD 1		THREAD 2		
	BSPP		BSPP		
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	RESTRICTION SIZE (MM)
BB0404-0.5	1/4" - 19	13.16	1/4" - 19	13.16	0.5
BB0404-1.0	1/4" - 19	13.16	1/4" - 19	13.16	1
BB0404-1.5	1/4" - 19	13.16	1/4" - 19	13.16	1.5
BB0406-1.5	1/4" - 19	13.16	3/8" - 19	16.67	1.5
BB0408-1.0	1/4" - 19	13.16	1/2" - 14	20.96	1
BB0408-1.5	1/4" - 19	13.16	1/2" - 14	20.96	1.5

BC - BSPP MALE X BSPP FEMALE SWIVEL

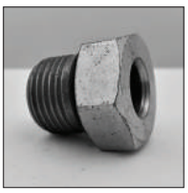


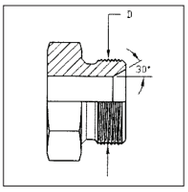


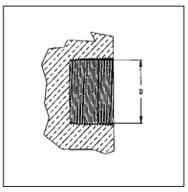


CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BC0202	1/8" - 28	9.73	1/8" - 28	8.59
BC0204	1/8" - 28	9.73	1/4" - 19	11.46
BC0402	1/4" - 19	13.16	1/8" - 28	8.59
BC0404	1/4" - 19	13.16	1/4" - 19	11.46
BC0406	1/4" - 19	13.16	3/8" - 19	14.96
BC0408	1/4" - 19	13.16	1/2" - 14	18.65
BC0412	1/4" - 19	13.16	3/4" - 14	24.13
BC0604	3/8" - 19	16.67	1/4" - 19	11.46
BC0606	3/8" - 19	16.67	3/8" - 19	14.96
BC0608	3/8" - 19	16.67	1/2" - 14	18.65
BC0612	3/8" - 19	16.67	3/4" - 14	24.13
BC0806	1/2" - 14	20.96	3/8" - 19	14.96
BC0808	1/2" - 14	20.96	1/2" - 14	18.65
BC0812	1/2" - 14	20.96	3/4" - 14	24.13
BC1010	5/8" - 14	22.91	5/8" - 14	20.6
BC1204	3/4" - 14	26.45	1/4" - 19	11.46
BC1206	3/4" - 14	26.45	3/8" - 19	14.96
BC1208	3/4" - 14	26.45	1/2" - 14	18.65
BC1210	3/4" - 14	26.45	5/8" - 14	20.6
BC1212	3/4" - 14	26.45	3/4" - 14	24.13
BC1216	3/4" - 14	26.45	1" - 11	30.3
BC1220	3/4" - 14	26.45	1.1/4" - 11	38.97
BC1612	1" - 11	33.25	3/4" - 14	24.13
BC1616	1" - 11	33.25	1" - 11	30.3

BE - BSPP MALE X BSPT FIXED FEMALE (TAPER)

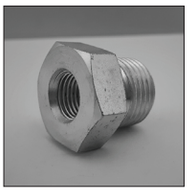


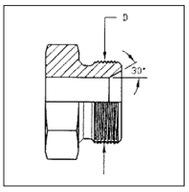


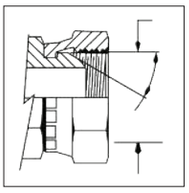


CODE	THREAD 1		THREAD 2	
	BSPP		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BE0202	1/8" - 28	9.73	1/8" - 28	8.59
BE0404	1/4" - 19	13.16	1/4" - 19	11.46
BE0406	1/4" - 19	13.16	3/8" - 19	14.96
BE0408	1/4" - 19	13.16	1/2" - 14	18.65
BE0604	3/8" - 19	16.67	1/4" - 19	11.46
BE0606	3/8" - 19	16.67	3/8" - 19	14.96
BE0608	3/8" - 19	16.67	1/2" - 14	18.65
BE0808	1/2" - 14	20.96	1/2" - 14	18.65
BE0812	1/2" - 14	20.96	3/4" - 14	24.13
BE1612	1" - 11	33.25	3/4" - 14	24.13
BE2412	1 .1/2" - 11	47.81	3/4" - 14	24.13
BE0804	1/2" - 14	20.96	1/4" - 19	11.46
BE1220	3/4" - 14	26.45	1 1/4" - 11	38.97
BE1620	1" - 11	33.25	1 1/4" - 11	38.97
BE2012	1 1/4" - 11	41.91	3/4" - 14	24.13
BE2420	1 1/2" - 11	47.81	1 1/4" - 11	38.97

BF - BSPP MALE X BSPP FIXED FEMALE (PARALLEL)



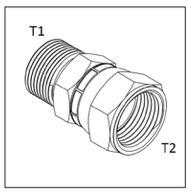


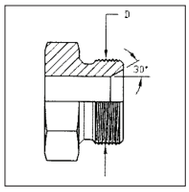


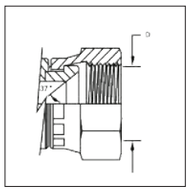
CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BF0404	1/4" - 19	13.16	1/4" - 19	11.46
BF0604	3/8" - 19	16.67	1/4" - 19	11.46
BF0606	3/8" - 19	16.67	3/8" - 19	14.96
BF0608	3/8" - 19	16.67	1/2" - 14	18.65
BF0804	1/2" - 14	20.96	1/4" - 19	11.46
BF0806	1/2" - 14	20.96	3/8" - 19	14.96
BF0808	1/2" - 14	20.96	1/2" - 14	18.65
BF0812	1/2" - 14	20.96	3/4" - 14	24.13
BF0816	1/2" - 14	20.96	1" - 11	30.3
BF2012	1. 1/4" - 11	41.91	3/4" - 14	24.13
BF2408	1 .1/2" - 11	47.81	1/2" - 14	18.65
BF0204	1/8" - 28	9.73	1/4" - 19	11.46
BF1204	3/4" - 14	26.45	1/4" - 19	11.46
BF1208	3/4" - 14	26.45	1/2" - 14	18.65
BF1216	3/4" - 14	26.45	1" - 11	30.3
BF1220	3/4" - 14	26.45	1 1/4" - 11	38.97
BF1612	1" - 11	33.25	3/4" - 14	24.13
BF2416	1 1/2" - 11	47.81	1" - 11	30.3

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BJ - BSPP MALE X JIC FEMALE SWIVEL

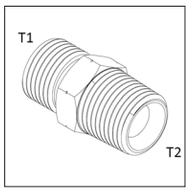


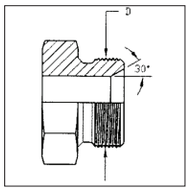


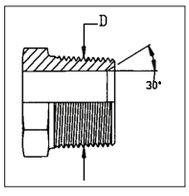


CODE	THREAD 1		THREAD 2	
	BSPP		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BJ0407	1/4" - 19	13.16	7/16" - 20	10
BJ0409	1/4" - 19	13.16	9/16" - 18	13
BJ0608	3/8" - 19	16.67	1/2" - 20	11.6
BJ0609	3/8" - 19	16.67	9/16" - 18	13
BJ0612	3/8" - 19	16.67	3/4" - 16	17.6
BJ0812	1/2" - 14	20.96	3/4" - 16	17.6
BJ0814	1/2" - 14	20.96	7/8" - 14	20.5
BJ1214	3/4" - 14	26.45	7/8" - 14	20.5
BJ1217	3/4" - 14	26.45	1 1/16" - 12	25
BJ1219	3/4" - 14	26.45	1 3/16" - 12	28.09
BJ2026	1. 1/4" - 11	41.91	1 5/8" - 12	39.2
BJ0614	3/8" - 19	16.67	7/8" - 14	20.5
BJ0817	1/2" - 14	20.96	1 1/16" - 12	25
BJ1221	3/4" - 14	26.45	1 5/16" - 12	31.3
BJ1614	1" - 11	33.25	7/8" - 14	20.5
BJ1621	1" - 11	33.25	1 5/16" - 12	31.3
BJ2017	1 1/4" - 11	41.91	1 1/16" - 12	25
BJ2430	1 1/2 - 11	47.81	1 7/8" - 12	45.6

BL - BSPP MALE X NPT MALE



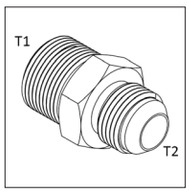


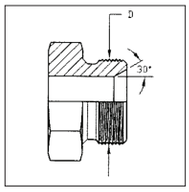


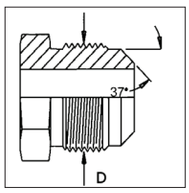
CODE	THREAD 1		THREAD 2	
	BSPP		NPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BL0404	1/4" - 19	13.16	1/4" - 18	13.89
BL0606	3/8" - 19	16.67	3/8" - 18	17.06
BL0808	1/2" - 14	20.96	1/2" - 14	21.43
BL0812	1/2" - 14	20.96	3/4" - 14	26.98
BL1212	3/4" - 14	26.45	3/4" - 14	26.98
BL1216	3/4" - 14	26.45	1" - 11. 1/2	33.33
BL0402	1/4" - 19	13.16	1/4" - 18	13.89
BL0608	3/8" - 19	16.67	1/2" - 18	21.43
BL1616	1" - 11	33.25	1" - 11.5	33.33
BL2020	1 1/4" - 11	41.91	1 1/4" - 11.5	42.46
BL2424	1 1/2" - 11	47.81	1 1/2" - 11.5	48.42

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BG - BSPP MALE X JIC MALE



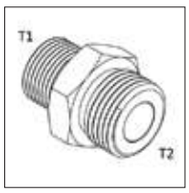


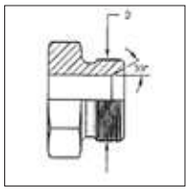


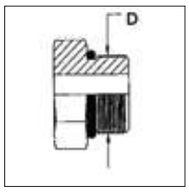
CODE	THREAD 1		THREAD 2	
	BSPP		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BG0207	1/8" - 28	9.73	7/16" - 20	11.07
BG0407	1/4" - 19	13.16	7/16" - 20	11.07
BG0408	1/4" - 19	13.16	1/2" - 20	12.7
BG0409	1/4" - 19	13.16	9/16" - 18	14.25
BG0412	1/4" - 19	13.16	3/4" - 16	19
BG0414	1/4" - 19	13.16	7/8" - 14	22.17
BG0417	1/4" - 19	13.16	1 1/16" - 12	26.95
BG0607	3/8" - 19	16.67	7/16" - 20	11.07
BG0608	3/8" - 19	16.67	1/2" - 20	12.7
BG0609	3/8" - 19	16.67	9/16" - 18	14.25
BG0612	3/8" - 19	16.67	3/4" - 16	19
BG0614	3/8" - 19	16.67	7/8" - 14	22.17
BG0617	3/8" - 19	16.67	1 1/16" - 12	26.95
BG0807	1/2" - 14	20.96	7/16" - 20	11.07
BG0808	1/2" - 14	20.96	1/2" - 20	12.7
BG0809	1/2" - 14	20.96	9/16" - 18	14.25
BG0812	1/2" - 14	20.96	3/4" - 16	19
BG0814	1/2" - 14	20.96	7/8" - 14	22.17
BG0817	1/2" - 14	20.96	1 1/16" - 12	26.95
BG0821	1/2" - 14	20.96	1 5/16" - 12	33.3
BG1017	5/8" - 14	22.91	1 1/16" - 12	26.95
BG1207	3/4" - 14	26.45	7/16" - 20	11.07
BG1208	3/4" - 14	26.45	1/2" - 20	12.7
BG1209	3/4" - 14	26.45	9/16" - 18	14.25
BG1212	3/4" - 14	26.45	3/4" - 16	19
BG1214	3/4" - 14	26.45	7/8" - 14	22.17
BG1217	3/4" - 14	26.45	1 1/16" - 12	26.95
BG1219	3/4" - 14	26.45	1 3/16" - 12	30.1
BG1221	3/4" - 14	26.45	1 5/16" - 12	33.3
BG1226	3/4" - 14	26.45	1 5/8" - 12	41.22
BG1612	1" - 11	33.25	3/4" - 16	19
BG1617	1" - 11	33.25	1 1/16" - 12	26.95
BG1621	1" - 11	33.25	1 5/16" - 12	33.3
BG1626	1" - 11	33.25	1 5/8" - 12	41.22
BG2017	1. 1/4" - 11	41.91	1 1/16" - 12	26.95
BG2021	1. 1/4" - 11	41.91	1 5/16" - 12	33.3
BG2026	1. 1/4" - 11	41.91	1 5/8" - 12	41.22
BG2426	1 .1/2" - 11	47.81	1 5/8" - 12	41.22
BG2430	1 .1/2" - 11	47.81	1 7/8" - 12	47.57
BG2421	1 1/2" - 11	47.81	1 5/16" - 12	33.3

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BN - BSPP MALE X UNO MALE



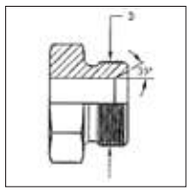


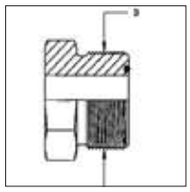


CODE	THREAD 1		THREAD 2	
	BSPP		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BN0406	1/4" - 19	13.16	3/8" - 24	9.65
BN0407	1/4" - 19	13.16	7/16" - 20	11.07
BN0408	1/4" - 19	13.16	1/2" - 20	12.7
BN0409	1/4" - 19	13.16	9/16" - 18	14.25
BN0412	1/4" - 19	13.16	3/4" - 16	19
BN0607	3/8" - 19	16.67	7/16" - 20	11.07
BN0608	3/8" - 19	16.67	1/2" - 20	12.7
BN0609	3/8" - 19	16.67	9/16" - 18	14.25
BN0610	3/8" - 19	16.67	5/8 - 18	15.6
BN0612	3/8" - 19	16.67	3/4" - 16	19
BN0614	3/8" - 19	16.67	7/8" - 14	22.17
BN0807	1/2" - 14	20.96	7/16" - 20	11.07
BN0808	1/2" - 14	20.96	1/2" - 20	12.7
BN0809	1/2" - 14	20.96	9/16" - 18	14.25
BN0810	1/2" - 14	20.96	5/8 - 18	15.6
BN0812	1/2" - 14	20.96	3/4" - 16	19
BN0814	1/2" - 14	20.96	7/8" - 14	22.17
BN0817	1/2" - 14	20.96	1. 1/16" - 12	26.95
BN1212	3/4" - 14	26.45	3/4" - 16	19
BN1214	3/4" - 14	26.45	7/8" - 14	22.17
BN1217	3/4" - 14	26.45	1. 1/16" - 12	26.95
BN1219	3/4" - 14	26.45	1.3/16	30.1
BN1221	3/4" - 14	26.45	1. 5/16" - 12	33.3
BN1617	1" - 11	33.25	1. 1/16" - 12	26.95
BN1621	1" - 11	33.25	1. 5/16" - 12	33.3
BN1626	1" - 11	33.25	1. 5/8" - 12	41.22
BN2026	1. 1/4" - 11	41.91	1. 5/8" - 12	41.22
BN0414	1/4" - 19	13.16	7/8" - 14	22.17
BN0821	1/2" - 14	20.96	1 5/16" - 12	33.3
BN1226	3/4" - 14	26.45	1 5/8" - 12	41.22
BN2017	1 1/4" - 11	41.91	1 1/16" - 12	26.95
BN2021	1 1/4" - 11	41.91	1 5/16" - 12	33.3

BR - BSPP MALE X ORFS MALE

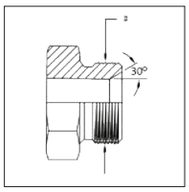


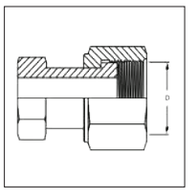




CODE	THREAD 1		THREAD 2	
	BSPP		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BR0409	1/4" - 19	13.16	9/16 - 18	14.22
BR0411	1/4" - 19	13.16	11/16- 16	17.52
BR0611	3/8" - 19	16.67	11/16- 16	17.52
BR0613	3/8" - 19	16.67	13/16 - 16	20.82
BR0811	1/2" - 14	20.96	11/16- 16	17.52
BR0813	1/2" - 14	20.96	13/16 - 16	20.82
BR0816	1/2" - 14	20.96	1"	25.4
BR0819	1/2" - 14	20.96	1. 3/16 - 12	30.22
BR1216	3/4" - 14	26.45	1"	25.4
BR1219	3/4" - 14	26.45	1. 3/16 - 12	30.22
BR1623	1" - 11	33.25	1. 7/16 - 12	36.57
BR1619	1" - 11	33.25	1 3/16" - 12	30.22
BR1627	1" - 11	33.25	1 11/16" - 12	42.92

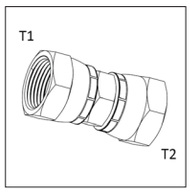
BT - BSPP MALE X ORFS FEMALE

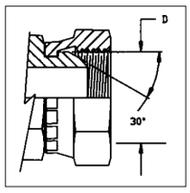


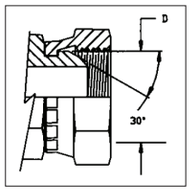


CODE	THREAD 1		THREAD 2	
	BSPP		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BT0409	1/4" - 19	13.16	9/16" - 18	12.95
BT0609	3/8" - 19	16.67	9/16" - 18	12.95
BT0811	1/2" - 14	20.96	11/16" - 16	16
BT0813	1/2" - 14	20.96	13/16" - 16	19.05
BT1219	3/4" - 14	26.45	1 3/16" - 12	28.19
BT1223	3/4" - 14	26.45	1 7/16" - 12	34.54
BT1623	1" - 11	33.25	1 7/16" - 12	34.54
BT2027	1 1/4" - 11	41.91	1 11/16" - 12	40.89

CC - BSPP FEMALE SWIVEL X BSPP FEMALE SWIVEL



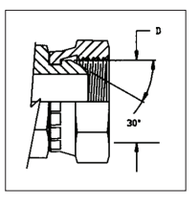


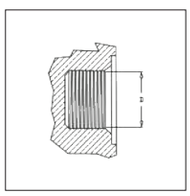


CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
CC0202	1/8" - 28	8.59	1/8" - 28	8.59
CC0404	1/4" - 19	11.46	1/4" - 19	11.46
CC0406	1/4" - 19	11.46	3/8" - 19	14.96
CC0408	1/4" - 19	11.46	1/2" - 14	18.65
CC0606	3/8" - 19	14.96	3/8" - 19	14.96
CC0608	3/8" - 19	14.96	1/2" - 14	18.65
CC0808	1/2" - 14	18.65	1/2" - 14	18.65
CC0812	1/2" - 14	18.65	3/4" - 14	24.13
CC1010	5/8" - 14	20.6	5/8" - 14	20.6
CC1212	3/4" - 14	24.13	3/4" - 14	24.13
CC1216	3/4" - 14	24.13	1" - 11	30.3
CC1616	1" - 11	30.3	1" - 11	30.3
CC2020	1 .1/4" - 11	38.97	1 .1/4" - 11	38.97

CE - BSPP FEMALE SWIVEL X BSPT FIXED FEMALE





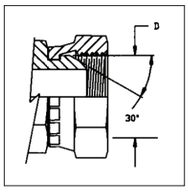


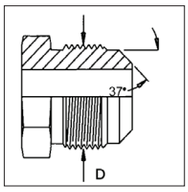
CODE	THREAD 1		THREAD 2	
	BSPP		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
CE0606	3/8" - 19	14.96	3/8" - 19	14.96

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CG - BSPP FEMALE SWIVEL X JIC MALE

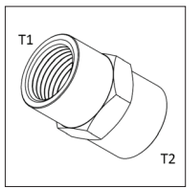


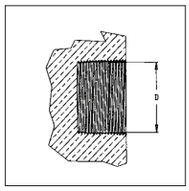




CODE	THREAD 1		THREAD 2	
	BSPP		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
CG0409	1/4" - 19	11.46	9/16" - 18	14.25
CG0812	1/2" - 14	18.65	3/4" - 16	19
CG1217	3/4" - 14	24.13	1 1/16" - 12	26.95
CG1617	1" - 11	30.3	1 1/16" - 12	26.95
CG0612	3/8" - 19	14.96	3/4" - 16	19
CG0814	1/2" - 14	18.65	7/8" - 14	22.17
CG1621	1" - 11	30.3	1 5/16" - 12	33.3

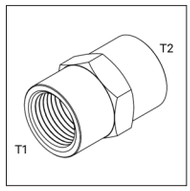
EE - BSPT FIXED FEMALE X BSPT FIXED FEMALE





CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
EE0202	1/8" - 28	8.59	1/8" - 28	8.59
EE0204	1/8" - 28	8.59	1/4" - 19	11.46
EE0404	1/4" - 19	11.46	1/4" - 19	11.46
EE0406	1/4" - 19	11.46	3/8" - 19	14.96
EE0408	1/4" - 19	11.46	1/2" - 14	18.65
EE0606	3/8" - 19	14.96	3/8" - 19	14.96
EE0608	3/8" - 19	14.96	1/2" - 14	18.65
EE0808	1/2" - 14	18.65	1/2" - 14	18.65
EE0812	1/2" - 14	18.65	3/4" - 14	24.13
EE1212	3/4" - 14	24.13	3/4" - 14	24.13
EE1616	1" - 11	30.3	1" - 11	30.3
EE2020	1 1/4" - 11	38.97	1 1/4" - 11	38.97
EE3232	2" - 11	56.67	2" - 11	56.67

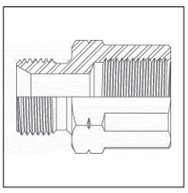
FF - BSPP FIXED FEMALE X BSPP FIXED FEMALE



CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
FF0404	1/4" - 19	11.46	1/4" - 19	11.46
FF0406	1/4" - 19	11.46	3/8" - 19	14.96
FF0606	3/8" - 19	14.96	3/8" - 19	14.96
FF0808	1/2" - 14	18.65	1/2" - 14	18.65
FF1212	3/4" - 14	24.13	3/4" - 14	24.13

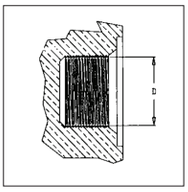
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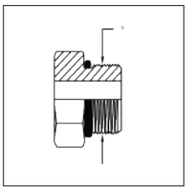
FM - BSPP FIXED FEMALE X METRIC MALE



CODE	THREAD 1		THREAD 2	
	BSPP		METRIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
FM0216	1/8" - 28	8.59	M16 - 1.5	16
FM0418	1/4" - 19	11.46	M18 - 1.5	18
FM0422	1/4" - 19	11.46	M22 - 1.5	22
FM0622	3/8" - 19	14.96	M22 - 1.5	22

FN - BSPP FIXED FEMALE X UNO MALE

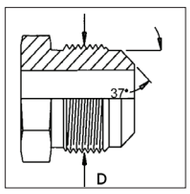


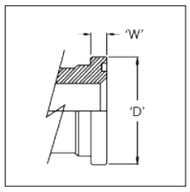


CODE	THREAD 1		THREAD 2	
	BSPP		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
FN0212	1/8" - 28	8.59	3/4" - 16	19
FN0621	3/8" - 19	14.96	1. 5/16" - 12	33.3

F61G - SAE CODE 61 FLANGE X JIC MALE ADAPTER







CODE	THREAD 1		THREAD 2	
	SAE FLANGE		JIC	
	FLANGE DIAMETER 'D'	FLANGE THICKNESS 'W'	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
F61G-0812	30.18	6.73	3/4 - 16	19
F61G-0814	30.18	6.73	7/8" - 14	20.5
F61G-1217	38.1	6.73	1 1/16" - 12	25
F61G-1219	38.1	6.73	1 3/16 - 12	30.1
F61G-1221	38.1	6.73	1 5/16 - 12	33.3
F61G-1617	44.45	8	1 1/16 - 12	26.95
F61G-1621	44.45	8	1 5/16" - 12	31.3
F61G-2026	50.8	8	1 5/8" - 12	39.2
F61G-2430	60.33	8	1 7/8" - 12	45.6
F61G-3240	71.42	9.53	2 1/2" - 12	61.5

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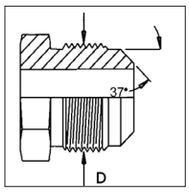
W - CODE 61 FLANGE CLAMP SET

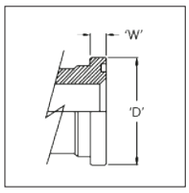


THREAD & TERMINATION INFORMATION				
CODE	DESCRIPTION	TO SUIT	'C' BOLT HOLE SPACING (+- 0.25MM)	'D' BOLT HOLE SPACING (+- 0.25MM)
			(mm)	(mm)
W08	1/2 Code 61 Flange Clamp (1 Set)	1/2" Code 61 Flange	38.1	17.47
W12	3/4 Code 61 Flange Clamp (1 Set)	3/4" Code 61 Flange	47.63	22.22
W16	1 Code 61 Flange Clamp (1 Set)	1" Code 61 Flange	52.37	26.18
W20	1-1/4 Code 61 Flange Clamp (1 Set)	1-1/4" Code 61 Flange	58.72	30.17
W24	1-1/2 Code 61 Flange Clamp (1 Set)	1-1/2" Code 61 Flange	69.85	35.71
W32	2 Code 61 Flange Clamp (1 Set)	2" Code 61 Flange	77.77	42.87

F62G - SAE CODE 62 FLANGE X JIC MALE ADAPTER







CODE	THREAD 1		THREAD 2	
	SAE FLANGE		JIC	
	FLANGE DIAMETER 'D'	FLANGE THICKNESS 'W'	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
F62G-0814	31.75	7.75	7/8" - 14	20.5
F62G-1217	41.28	8.76	1 1/16" - 12	25
F62G-1219	41.28	8.76	1 3/16 - 12	30.1
F62G-1221	41.28	8.76	1 5/16 - 12	33.3
F62G-1617	47.63	9.53	1 1/16 - 12	26.95
F62G-1621	47.63	9.53	1 5/16" - 12	31.3
F62G-2026	53.98	10.29	1 5/8" - 12	39.2
F62G-2430	63.5	12.57	1 7/8" - 12	45.6
F62G-3240	79.38	12.57	2 1/2" - 12	61.5

WHP - CODE 62 FLANGE CLAMP SET



THREAD & TERMINATION INFORMATION				
CODE	DESCRIPTION	TO SUIT	'C' BOLT HOLE SPACING (+- 0.25MM)	'D' BOLT HOLE SPACING (+- 0.25MM)
WHP08	1/2 Code 62 Flange Clamp (1 Set)	1/2" Code 62 Flange	40.5	18.2
WHP12	3/4 Code 62 Flange Clamp (1 Set)	3/4" Code 62 Flange	47.75	22.35
WHP16	1 Code 62 Flange Clamp (1 Set)	1" Code 62 Flange	57.15	27.76
WHP20	1-1/4 Code 62 Flange Clamp (1 Set)	1-1/4" Code 62 Flange	66.67	31.75
WHP24	1-1/2 Code 62 Flange Clamp (1 Set)	1-1/2" Code 62 Flange	79.37	36.49
WHP32	2 Code 62 Flange Clamp (1 Set)	2" Code 62 Flange	96.82	44.45

'Cat' or 'Supercat' flanges refer to a flange that conforms to SAE Code 62 in all aspects except the head thickness which is 14.2mm. Code 62 flanges can be adapted to replace 'cat' flanges either with a packer, or by replacing the Flange Clamps with standard Code 62 clamps. For spacers see page 134.

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F61-F62-KIT - SAE C61 & C62 FLANGE ADAPTOR TO JIC KIT

Keep one of these kits handy to ensure you aren't found wanting when you require a SAE flange termination!

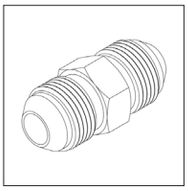


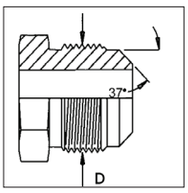
STOCK CODE	DESCRIPTION	QTY
F61G-0814	1/2 C61 Flange x 7/8 JICM ADAPTER	1
F61G-1217	3/4 C61 Flange x 1 - 1/16 JICM ADAPTER	1
F61G-1621	1 C61 Flange x 1 - 5/16 JICM ADAPTER	1
F61G-2026	1 1/4 C61 Flange x 1 5/8 JICM ADAPTER	1
F62G-0814	1/2 C62 Flange x 7/8 JICM ADAPTER	1
F62G-1217	3/4 C62 Flange x 1 - 1/16 JICM	1
F62G-1621	1 C62 Flange x 1 - 5/16 JICM	1
F62G-2026	1 - 1/4 C62 Flange x 1 - 5/8 JICM	1

STOCK CODE	DESCRIPTION	QTY
W08	1/2 CODE 61 FLANGE CLAMP (1 Set)	1
W12	3/4 CODE 61 FLANGE CLAMP (1 Set)	1
W16	1 CODE 61 FLANGE CLAMP (1 Set)	1
W20	1-1/4 CODE 61 FLANGE CLAMP (1 Set)	1
WHP08	1/2 CODE 62 FLANGE CLAMP (1 Set)	1
WHP12	3/4 CODE 62 FLANGE CLAMP (1 set)	1
WHP16	1 CODE 62 FLANGE CLAMP (1 Set)	1
WHP20	1-1/4 CODE62 FLANGE CLAMPS (1 Set)	1

We can also set up customised kits to suit your needs - call us on 0800 20 20 20

GG - JIC MALE X JIC MALE

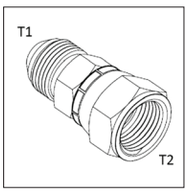


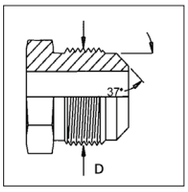


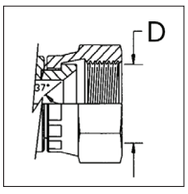
CODE	THREAD 1		THREAD 2	
	JIC		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GG0505	5/16" - 24	7.87	5/16" - 24	7.87
GG0507	5/16" - 24	7.87	7/16" - 20	11.07
GG0606	3/8" - 24	9.65	3/8" - 24	9.65
GG0707	7/16" - 20	11.07	7/16" - 20	11.07
GG0708	7/16" - 20	11.07	1/2" - 20	12.7
GG0709	7/16" - 20	11.07	9/16" - 18	14.25
GG0712	7/16" - 20	11.07	3/4" - 16	19
GG0714	7/16" - 20	11.07	7/8" - 14	22.17
GG0808	1/2" - 20	12.7	1/2" - 20	12.7
GG0809	1/2" - 20	12.7	9/16" - 18	14.25
GG0812	1/2" - 20	12.7	3/4" - 16	19
GG0814	1/2" - 20	12.7	7/8" - 14	22.17
GG0817	1/2" - 20	12.7	1 1/16" - 12	26.95
GG0909	9/16" - 18	14.25	9/16" - 18	14.25
GG0912	9/16" - 18	14.25	3/4" - 16	19
GG0914	9/16" - 18	14.25	7/8" - 14	22.17
GG1212	3/4" - 16	19	3/4" - 16	19
GG1214	3/4" - 16	19	7/8" - 14	22.17
GG1217	3/4" - 16	19	1 1/16" - 12	26.95
GG1414	7/8" - 14	22.17	7/8" - 14	22.17
GG1417	7/8" - 14	22.17	1 1/16" - 12	26.95
GG1717	1 1/16" - 12	26.95	1 1/16" - 12	26.95
GG1712	1 1/16" - 12	26.95	3/4" - 16	19
GG1719	1 1/16" - 12	26.95	1 3/16" - 12	30.1
GG1721	1 1/16" - 12	26.95	1 5/16" - 12	33.3
GG1919	1 3/16" - 12	30.1	1 3/16" - 12	30.1
GG2121	1 5/16" - 12	33.3	1 5/16" - 12	33.3
GG2626	1 5/8" - 12	41.22	1 5/8" - 12	41.22
GG3030	1 7/8" - 12	47.57	1 7/8" - 12	47.57

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GJ - JIC MALE X JIC FEMALE SWIVEL

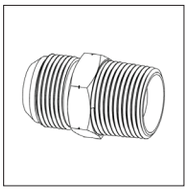


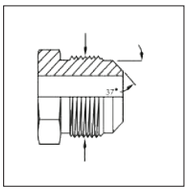


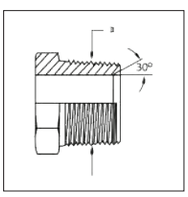


CODE	THREAD 1		THREAD 2	
	JIC		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GJ0707	7/16" - 20	11.07	7/16" - 20	10
GJ0709	7/16" - 20	11.07	9/16" - 18	13
GJ0907	9/16" - 18	14.25	7/16" - 20	10
GJ0812	1/2" - 20	12.7	3/4" - 16	17.6
GJ0909	9/16" - 18	14.25	9/16" - 18	13
GJ0912	9/16" - 18	490	3/4" - 16	17.6
GJ0914	9/16" - 18	490	7/8" - 14	20.5
GJ1212	3/4" - 16	19	3/4" - 16	17.6
GJ1214	3/4" - 16	19	7/8" - 14	20.5
GJ1217	3/4" - 16	19	1 1/16" - 12	25
GJ1412	7/8" - 14	22.17	3/4" - 16	17.6
GJ1414	7/8" - 14	22.17	7/8" - 14	20.5
GJ1417	7/8" - 14	22.17	1 1/16" - 12	25
GJ1712	1 1/16" - 12	26.95	3/4" - 16	17.6
GJ1714	1 1/16" - 12	26.95	7/8" - 14	20.5
GJ1717	1 1/16" - 12	26.95	1 1/16" - 12	25
GJ1721	1 1/16" - 12	26.95	1 5/16" - 12	31.3
GJ2121	1 5/16" - 12	33.3	1 5/16" - 12	31.3
GJ2626	1 5/8" - 12	41.22	1 5/8" - 12	39.2
GJ2630	1 5/8" - 12	41.22	1 7/8" - 12	45.6

GL - JIC MALE X NPT MALE



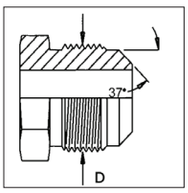


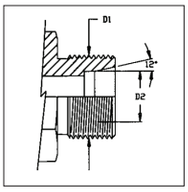


CODE	THREAD 1		THREAD 2	
	JIC		NPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GL0904	9/16" - 18	14.25	1/4" - 18	13.89
GL1206	3/4" - 16	19	3/8" - 14	26.98
GL1716	1 1/16" - 12	26.95	1" - 11.5	33.33
GL2116	1 5/16" - 12	33.3	1" - 11.5	33.33
GL2616	1 5/8" - 12	41.22	1" - 11.5	33.33

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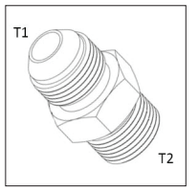
GM - JIC MALE X METRIC MALE

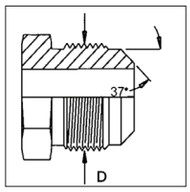


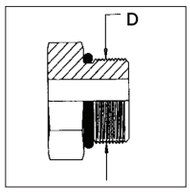


CODE	THREAD 1		THREAD 2	
	JIC		METRIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GM0712L	7/16" - 20	11.07	M12 - 1.5	12
GM0714L	7/16" - 20	11.07	M14 - 1.5	14
GM0916L	9/16" - 18	14.25	M16 - 1.5	16
GM0918L	9/16" - 18	14.25	M18 - 1.5	18
GM0920S	9/16" - 18	14.25	M20 - 1.5	20
GM1422L	7/8" - 14	22.17	M22 - 1.5	22
GM1426L	7/8" - 14	22.17	M26 - 1.5	26
GM1222L	3/4" - 16	19	M22 - 1.5	22
GM1242S	3/4" - 16	19	M24 - 1.5	24

GN - JIC MALE X UNO MALE



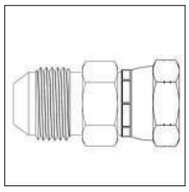


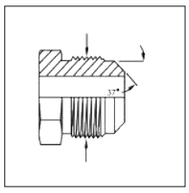


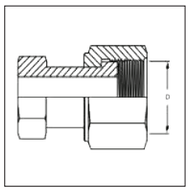
CODE	THREAD 1		THREAD 2	
	JIC		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GN0707	7/16" - 20	11.07	7/16" - 20	11.07
GN0708	7/16" - 20	11.07	1/2" - 20	12.7
GN0709	7/16" - 20	11.07	9/16" - 18	14.25
GN0808	1/2" - 20	12.7	1/2" - 20	12.7
GN0907	9/16" - 18	14.25	7/16" - 20	11.07
GN0909	9/16" - 18	14.25	9/16" - 18	14.25
GN0912	9/16" - 18	14.25	3/4" - 16	19
GN0914	9/16" - 18	14.25	7/8" - 14	22.17
GN0917	9/16" - 18	14.25	1. 1/16" - 12	26.95
GN1209	3/4" - 16	19	9/16" - 18	14.25
GN1212	3/4" - 16	19	3/4" - 16	19
GN1214	3/4" - 16	19	7/8" - 14	22.17
GN1217	3/4" - 16	19	1. 1/16" - 12	26.95
GN1412	7/8" - 14	22.17	3/4" - 16	19
GN1414	7/8" - 14	22.17	7/8" - 14	22.17
GN1417	7/8" - 14	22.17	1. 1/16" - 12	26.95
GN1712	1 1/16" - 12	26.95	3/4" - 16	19
GN1714	1 1/16" - 12	26.95	7/8" - 14	22.17
GN1717	1 1/16" - 12	26.95	1. 1/16" - 12	26.95
GN1721	1 1/16" - 12	26.95	1. 5/16" - 12	33.3
GN2117	1 5/16" - 12	33.3	1. 1/16" - 12	26.95
GN2121	1 5/16" - 12	33.3	1. 5/16" - 12	33.3
GN2126	1 5/16" - 12	33.3	1. 5/8" - 12	41.22
GN2626	1 5/8" - 12	41.22	1. 5/8" - 12	41.22

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GT - JIC MALE X ORFS FEMALE

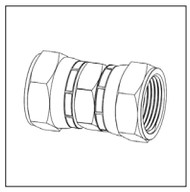


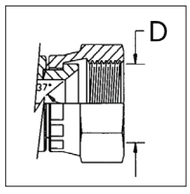




CODE	THREAD 1		THREAD 2	
	JIC		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GT0709	7/16" - 20	11.07	9/16" - 18	12.95
GT1219	3/4" - 16	19	1 3/16" - 12	28.19
GT1416	7/8" - 14	22.17	1" - 14	23.62
GT1419	7/8" - 14	22.17	1 3/16" - 12	28.19
GT2123	1 5/16" - 12	33.3	1 7/16" - 12	34.54
GT2623	1 5/8" - 12	41.22	1 7/16" - 12	34.54
GT2627	1 5/8" - 12	41.22	1 11/16" - 12	40.89

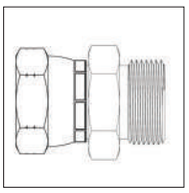
JJ - JIC FEMALE SWIVEL X JIC FEMALE SWIVEL





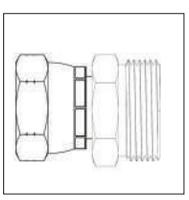
CODE	THREAD 1		THREAD 2	
	JIC		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
JJ0707	7/16" - 20	10	7/16" - 20	10
JJ0808	1/2" - 20	11.6	1/2" - 20	11.6
JJ0909	9/16" - 18	13	9/16" - 18	13
JJ1212	3/4" - 16	17.6	3/4" - 16	17.6
JJ1414	7/8" - 14	20.5	7/8" - 14	20.5
JJ1717	1 1/16" - 12	25	1 1/16" - 12	25
JJ1919	1 3/16" - 12	28.09	1 3/16" - 12	28.09
JJ2121	1 5/16" - 12	31.3	1 5/16" - 12	31.3
JJ2626	1 5/8" - 12	39.2	1 5/8" - 12	39.2

JN - JIC FEMALE X UNO MALE



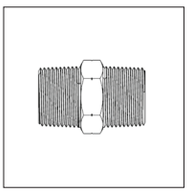
CODE	THREAD 1		THREAD 2	
	JIC		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
JN0909	9/16" - 18	13	9/16" - 18	14.25
JN1414	7/8" - 14	20.5	7/8" - 14	22.17
JN1717	1 1/16" - 12	25	1 1/16" - 12	26.95

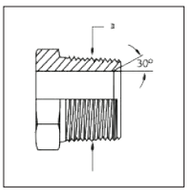
JR - JIC FEMALE X ORFS MALE



CODE	THREAD 1		THREAD 2	
	JIC		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
JR1213	3/4" - 16	17.6	13/16" - 16	20.82
JR1719	1 1/16" - 12	25	1 3/16" - 12	30.22
JR2123	1 5/16" - 12	31.3	1 7/16" - 12	36.57

LL - NPT MALE X NPT MALE

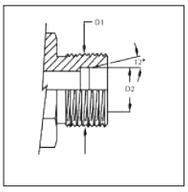




CODE	THREAD 1		THREAD 2	
	NPT		NPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
LL0404	1/4" - 18	13.89	1/4" - 18	13.89
LL0606	3/8" - 18	17.06	3/8" - 18	17.06
LL0608	3/8" - 18	17.06	1/2" - 14	21.43
LL0808	1/2" - 14	21.43	1/2" - 14	21.43
LL1208	3/4" - 14	26.98	1/2" - 14	21.43
LL1212	3/4" - 14	26.98	3/4" - 14	26.98
LL1612	1" - 11.5	33.33	3/4" - 14	26.98
LL1616	1" - 11.5	33.33	1" - 11.5	33.33

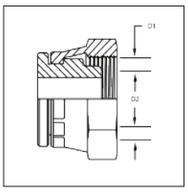
MM - METRIC MALE X METRIC MALE





CODE	THREAD 1		THREAD 2	
	METRIC		METRIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
MM1414S	M14 - 1.5	14	M14 - 1.5	14
MM1418S	M14 - 1.5	14	M18 - 1.5	18
MM1616S	M16 - 1.5	16	M16 - 1.5	16
MM1818S	M18 - 1.5	18	M18 - 1.5	18
MM2222S	M22 - 1.5	22	M22 - 1.5	22
MM1212L	M12 - 1.5	12	M12 - 1.5	12
MM1214L	M12 - 1.5	12	M14 - 1.5	14
MM1216L	M12 - 1.5	12	M16 - 1.5	16
MM1218L	M12 - 1.5	12	M18 - 1.5	18
MM1414L	M14 - 1.5	14	M14 - 1.5	14
MM1418L	M14 - 1.5	14	M18 - 1.5	18
MM1616L	M16 - 1.5	16	M16 - 1.5	16
MM1818L	M18 - 1.5	18	M18 - 1.5	18
MM2222L	M22 - 1.5	22	M22 - 1.5	22

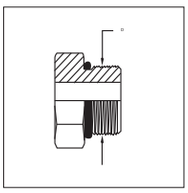
MXMX - METRIC FEMALE SWIVEL X METRIC FEMALE SWIVEL

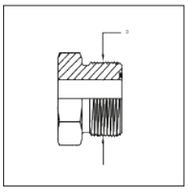


CODE	THREAD 1		THREAD 2	
	METRIC		METRIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
MXMX1414	M14 - 1.5	12.5	M14 - 1.5	12.5
MXMX1818	M18 - 1.5	16.5	M18 - 1.5	16.5
MXMX2222	M22 - 1.5	20.5	M22 - 1.5	20.5

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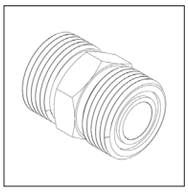
NR - UNO MALE X ORFS MALE

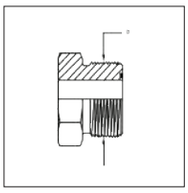




CODE	THREAD 1		THREAD 2	
	UNO		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
NR0809	1/2" - 20	12.7	9/16" - 18	14.22
NR0909	9/16" - 18	14.25	9/16" - 18	14.22
NR0911	9/16" - 18	14.25	11/16" - 16	17.52
NR1213	3/4" - 16	19	13/16" - 16	20.82
NR1219	3/4" - 16	19	1 3/16" - 12	30.22
NR1413	7/8" - 14	22.17	13/16" - 16	20.82
NR1719	1. 1/16" - 12	26.95	1 3/16" - 12	30.22
NR1723	1. 1/16" - 12	26.95	1 7/16" - 12	36.57
NR2123	1. 5/16" - 12	33.3	1 7/16" - 12	36.57
NR2627	1. 5/8" - 12	41.22	1 11/16" - 12	42.92

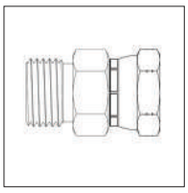
RR - ORFS MALE X ORFS MALE

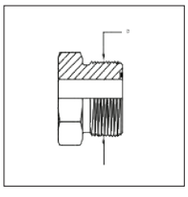


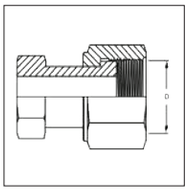


CODE	THREAD 1		THREAD 2	
	ORFS		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
RR0909	9/16" - 18	14.22	9/16" - 18	14.22
RR1111	11/16" - 16	17.52	11/16" - 16	17.52
RR1313	13/16" - 16	20.82	13/16" - 16	20.82
RR1919	1 3/16" - 12	30.22	1 3/16" - 12	30.22
RR2323	1 7/16" - 12	36.57	1 7/16" - 12	36.57
RR2727	1 11/16" - 12	42.92	1 11/16" - 12	42.92
RR3232	2" - 12	50.8	2" - 12	50.8

RT - ORFS MALE X ORFS FEMALE



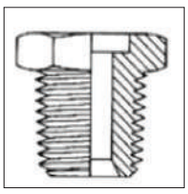




CODE	THREAD 1		THREAD 2	
	ORFS		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
RT0911	9/16" - 18	14.22	11/16" - 16	16
RT0919	9/16" - 18	14.22	1 3/16" - 12	30.22
RT1109	11/16" - 16	17.52	9/16" - 18	12.95
RT1111	11/16" - 16	17.52	11/16" - 16	16
RT1113	11/16" - 16	17.52	13/16" - 16	19.05
RT1319	13/16" - 16	20.82	1 3/16" - 12	28.19
RT1323	13/16" - 16	20.82	1 7/16" - 12	34.54
RT1919	1 3/16" - 12	30.22	1 3/16" - 12	28.19
RT1923	1 3/16" - 12	30.22	1 7/16" - 12	34.54
RT2319	1 7/16" - 12	36.57	1 3/16" - 12	34.54
RT2323	1 7/16" - 12	36.57	1 7/16" - 12	34.54
RT2727	1 11/16" - 12	42.92	1 11/16" - 12	40.89

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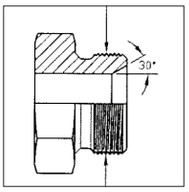
TW-A - TUBE WELD X BSPT MALE

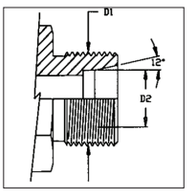


CODE	THREAD 1: TUBE WELD	THREAD 2: NOM. SIZE & PITCH	PHYSICAL
TW-A0606	3/8" TUBE WELD	3/8" - 19	16.67
TW-A0808	1/2" TUBE WELD	1/2"" - 14	20.96
TW-A1212	3/4" TUBE WELD	3/4" - 14	26.45

BML - BSPP MALE X METRIC MALE DKOL





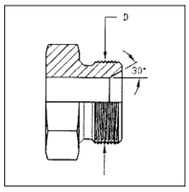


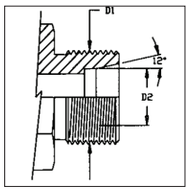
CODE	THREAD 1		THREAD 2	
	BSPP		MERTIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BM0210L	1/8" - 28	9.73	M10 - 1.5	10
BM0212L	1/8" - 28	9.73	M12 - 1.5	12
BM0214L	1/8" - 28	9.73	M14 - 1.5	14
BM0410L	1/4" - 19	13.16	M10 - 1.5	10
BM0412L	1/4" - 19	13.16	M12 - 1.5	12
BM0414L	1/4" - 19	13.16	M14 - 1.5	14
BM0416L	1/4" - 19	13.16	M16 - 1.5	16
BM0418L	1/4" - 19	13.16	M18 - 1.5	18
BM0422L	1/4" - 19	13.16	M22 - 1.5	22
BM0612L	3/8" - 19	16.67	M12 - 1.5	12
BM0614L	3/8" - 19	16.67	M14 - 1.5	14
BM0616L	3/8" - 19	16.67	M16 - 1.5	16
BM0618L	3/8" - 19	16.67	M18 - 1.5	18
BM0622L	3/8" - 19	16.67	M22 - 1.5	22
BM0812L	1/2" - 14	20.96	M12 - 1.5	12
BM0814L	1/2" - 14	20.96	M14 - 1.5	14
BM0816L	1/2" - 14	20.96	M16 - 1.5	16
BM0818L	1/2" - 14	20.96	M18 - 1.5	18
BM0822L	1/2" - 14	20.96	M22 - 1.5	22
BM0824L	1/2" - 14	20.96	M24 - 1.5	24
BM0826L	1/2" - 14	20.96	M26 - 1.5	26
BM0830L	1/2" - 14	20.96	M30 - 2.0	30
BM1016L	5/8" - 14	22.91	M16 - 1.5	16
BM1026L	5/8" - 14	22.91	M26 - 1.5	26
BM1216L	3/4" - 14	26.45	M16 - 1.5	16
BM1218L	3/4" - 14	26.45	M18 - 1.5	18
BM1222L	3/4" - 14	26.45	M22 - 1.5	22
BM1226L	3/4" - 14	26.45	M26 - 1.5	26
BM1230L	3/4" - 14	26.45	M30 - 2.0	30
BM1236L	3/4" - 14	26.45	M36 - 2.0	36
BM1618L	1" - 11	33.25	M18 - 1.5	18
BM1622L	1" - 11	33.25	M22 - 1.5	22
BM1628L	1" - 11	33.25	M28 - 1.5	28
BM1630L	1" - 11	33.25	M30 - 2.0	30
BM1636L	1" - 11	33.25	M36 - 2.0	36
BM1645L	1" - 11	33.25	M45 - 2.0	45
BM2045L	1. 1/4" - 11	41.91	M45 - 2.0	45
BM2052L	1. 1/4" - 11	41.91	M52 - 2.0	52
BM2452L	1 .1/2" - 11	47.81	M52 - 2.0	52

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BMS - BSPP MALE X METRIC MALE DKOS

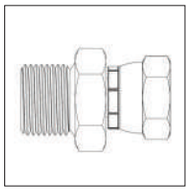






CODE	THREAD 1		THREAD 2	
	BSPP		METRIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BM0414S	1/4" - 19	13.16	M14 - 1.5	14
BM0416S	1/4" - 19	13.16	M16 - 1.5	16
BM0418S	1/4" - 19	13.16	M18 - 1.5	18
BM0420S	1/4" - 19	13.16	M20 - 1.5	20
BM0616S	3/8" - 19	16.67	M16 - 1.5	16
BM0618S	3/8" - 19	16.67	M18 - 1.5	18
BM0620S	3/8" - 19	16.67	M20 - 1.5	20
BM0622S	3/8" - 19	16.67	M22 - 1.5	22
BM0624S	3/8" - 19	16.67	M24 - 1.5	24
BM0818S	1/2" - 14	20.96	M18 - 1.5	18
BM0820S	1/2" - 14	20.96	M20 - 1.5	20
BM0822S	1/2" - 14	20.96	M22 - 1.5	22
BM0824S	1/2" - 14	20.96	M24 - 1.5	24
BM0830S	1/2" - 14	20.96	M30 - 2.0	30
BM1224S	3/4" - 14	26.45	M24 - 1.5	24
BM1230S	3/4" - 14	26.45	M30 - 2.0	30
BM1236S	3/4" - 14	26.45	M36 - 2.0	36
BM1242S	3/4" - 14	26.45	M42 - 2.0	42
BM1630S	1" - 11	33.25	M30 - 2.0	30
BM1636S	1" - 11	33.25	M36 - 2.0	36
BM1642S	1" - 11	33.25	M42 - 2.0	45
BM2042S	1. 1/4" - 11	41.91	M42 - 2.0	45
BM2052S	1. 1/4" - 11	41.91	M52 - 2.0	52
BM2452S	1 .1/2" - 11	47.81	M52 - 2.0	52
BM0842S	1/2" - 14	20.96	M42 - 2.0	42
BM1220S	3/4" - 14	26.45	M20 - 1.5	20
BM1652S	1" - 11	33.25	M52 - 2.0	52

BMX-L - BSPP MALE X FEMALE METRIC DKOL



CODE	THREAD 1		THREAD 2	
	BSPP		METRIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BMX0618L	3/8" - 19	16.67	M18 - 1.5	16.5
BMX0622L	3/8" - 19	16.67	M22 - 1.5	20.5
BMX0818L	1/2" - 14	20.96	M18 - 1.5	16.5
BMX0822L	1/2" - 14	20.96	M22 - 1.5	20.5
BMX1226L	3/4" - 14	26.45	M26 - 1.5	24.5
BMX1230L	3/4" - 14	26.45	M30 - 2.0	28
BMX1636L	1" - 11	33.25	M36 - 2.0	34

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BMX-S - BSPP MALE X FEMALE METRIC DKOS



CODE	THREAD 1		THREAD 2	
	BSPP		METRIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BMX0418S	1/4" - 19	13.16	M18 - 1.5	16.5
BMX0622S	3/8" - 19	16.67	M22 - 1.5	20.5
BMX0830S	1/2" - 14	20.96	M30 - 2.0	28
BMX1630S	1" - 11	33.25	M30 - 2.0	28
BMX2052S	1 1/4" - 11	41.91	M52 - 2.0	50

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90° ANGLE

BSP

AA90 - BSPT MALE X BSPT MALE - 90° COMPACT
PAGE 106

BSP

AC90 - BSPT MALE X BSPP FEMALE - 90° COMPACT
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BSP

AE90 - BSPT MALE X BSPT FIXED FEMALE 90° COMPACT
PAGE 107

BSP JIC

AJ90 - BSPT MALE X JIC FEMALE SWIVEL 90° COMPACT
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ORFS

RT90 - ORFS MALE X ORFS FEMALE - 90° COMPACT
PAGE 106

BSP JIC

AG90 - BSPT MALE X JIC MALE 90° COMPACT
PAGE 107

BSP

BC90 - BSPP MALE X BSPP FEMALE SWIVEL 90° COMPACT
PAGE 107

BSP JIC

BG90 - BSPP MALE X JIC MALE 90° COMPACT
PAGE 108

BSP JIC

BJ90 - BSPP MALE X JIC FEMALE SWIVEL 90° COMPACT
PAGE 108

BSP

CC90 - BSPP FEMALE SWIVEL X BSPP FEMALE SWIVEL 90° COMPACT
PAGE 109

BSP JIC

CG90 - BSPP FEMALE SWIVEL X JIC MALE 90° COMPACT
PAGE 109

BSP

EE90 - BSPT FIXED FEMALE X BSPT FIXED FEMALE 90° COMPACT
PAGE 109

JIC

GG90 - JIC MALE X JIC MALE 90° COMPACT
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JIC

GJ90 - JIC MALE X JIC FEMALE SWIVEL 90° COMPACT
PAGE 110

JIC

JJ90 - JIC FEMALE SWIVEL X JIC FEMALE SWIVEL 90° COMPACT
PAGE 110

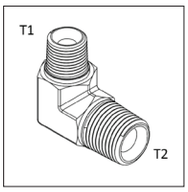
NPT JIC

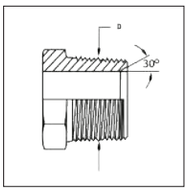
LG90 - NPT MALE X JIC MALE 90° COMPACT
PAGE 111

ORFS

RR90 - ORFS MALE X ORFS MALE 90° COMPACT
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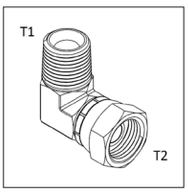
AA90 - BSPT MALE X BSPT MALE - 90° COMPACT

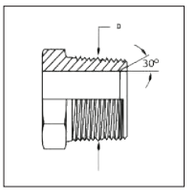


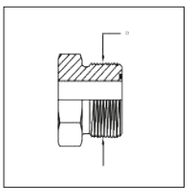


CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AA90-0202	1/8"	9.73	1/8"	9.73
AA90-0204	1/8"	9.73	1/4"	13.16
AA90-0404	1/4"	13.16	1/4"	13.16
AA90-0406	1/4"	13.16	3/8"	16.67
AA90-0408	1/4"	13.16	1/2"	20.96
AA90-0606	3/8"	16.67	3/8"	16.67
AA90-0608	3/8"	16.67	1/2"	20.96
AA90-0808	1/2"	20.96	1/2"	20.96
AA90-0812	1/2"	20.96	3/4"	26.45
AA90-1212	3/4"	26.45	3/4"	26.45
AA90-1216	3/4"	26.45	1"	33.25
AA90-1616	1"	33.25	1"	33.25
AA90-2020	1 - 1/4"	41.91	1 - 1/4"	41.91
AA90-2424	1 - 1/2"	47.81	1 - 1/2"	47.81

AC90 - BSPT MALE X BSPP FEMALE - 90° COMPACT

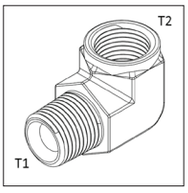


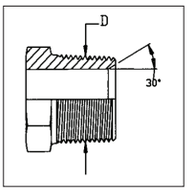


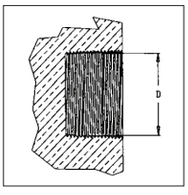


CODE	THREAD 1		THREAD 2	
	BSPT		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AC90-0202	1/8"	9.73	1/8"	8.59
AC90-0204	1/8"	9.73	1/4"	11.46
AC90-0402	1/4"	13.16	1/8"	8.59
AC90-0404	1/4"	13.16	1/4"	11.46
AC90-0406	1/4"	13.16	3/8"	14.96
AC90-0604	3/8"	16.67	1/4"	11.46
AC90-0606	3/8"	16.67	3/8"	14.96
AC90-0608	3/8"	16.67	1/2"	18.65
AC90-0806	1/2"	20.96	3/8"	14.96
AC90-0808	1/2"	20.96	1/2"	18.65
AC90-0812	1/2"	20.96	3/4"	24.13
AC90-1208	3/4"	26.45	1/2"	18.65
AC90-1212	3/4"	26.45	3/4"	24.13
AC90-1616	1"	33.25	1"	30.3
AC90-2020	1 - 1/4"	41.91	1 - 1/4"	38.97
AC90-2424	1 - 1/2"	47.81	1 - 1/2"	44.86
AC90-3232	2"	59.62	2"	56.67

AE90 - BSPT MALE X BSPT FIXED FEMALE 90° COMPACT





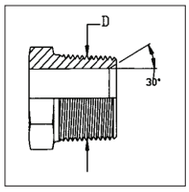


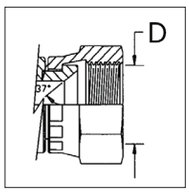
CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AE90-0202	1/8" - 28	9.73	1/8" - 28	8.59
AE90-0404	1/4" - 19	13.16	1/4" - 19	11.46
AE90-0604	3/8" - 19	16.67	1/4" - 19	11.46
AE90-0606	3/8" - 19	16.67	3/8" - 19	14.96
AE90-0808	1/2" - 14	20.96	1/2" - 14	18.65
AE90-1212	3/4" - 14	26.45	3/4" - 14	24.13
AE90-1616	1" - 11	33.25	1" - 11	30.3
AE90-2020	1 1/4" - 11	41.91	1 .1/4" - 11	38.97

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AJ90 - BSPT MALE X JIC FEMALE SWIVEL 90° COMPACT

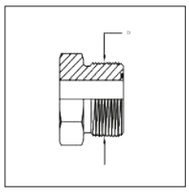


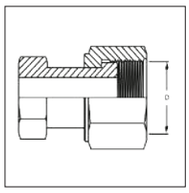




CODE	THREAD 1		THREAD 2	
	BSPT		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AJ90-0609	3/8" - 19	16.67	9/16" - 18	13
AJ90-0812	1/2" - 14	20.96	3/4" - 16	17.6
AJ90-0814	1/2" - 14	20.96	7/8" - 14	20.5
AJ90-1217	3/4" - 14	26.45	1 1/16" - 12	25
AJ90-0612	3/8" - 19	16.67	3/4" - 16	13
AJ90-1621	1" - 11	33.25	1 5/16" - 12	31.3

RT90 - ORFS MALE X ORFS FEMALE - 90° COMPACT

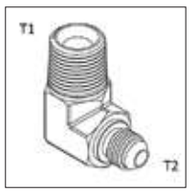


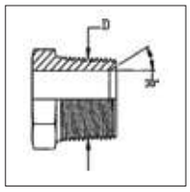


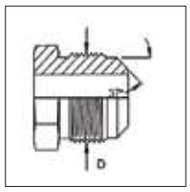
CODE	THREAD 1		THREAD 2	
	ORFS		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
RT90-1111	11/16	17.52	11/16	16
RT90-1313	13/16	20.82	13/16	19.05
RT90-1616	1	25.4	1	23.62
RT90-1919	1 3/16	30.22	1 3/16	28.19
RT90-2323	1 7/16	36.57	1 7/16	34.54



AG90 - BSPT MALE X JIC MALE 90° COMPACT

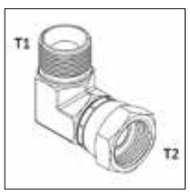


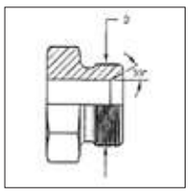


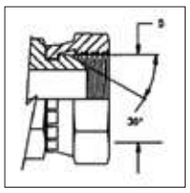


CODE	THREAD 1		THREAD 2	
	BSPT		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AG90-0207	1/8" - 28	9.73	7/16" - 20	11.07
AG90-0209	1/8" - 28	9.73	9/16" - 18	14.25
AG90-0407	1/4" - 19	13.16	7/16" - 20	11.07
AG90-0408	1/4" - 19	13.16	1/2" - 20	12.7
AG90-0409	1/4" - 19	13.16	9/16" - 18	14.25
AG90-0412	1/4" - 19	13.16	3/4" - 16	19
AG90-0607	3/8" - 19	16.67	7/16" - 20	11.07
AG90-0608	3/8" - 19	16.67	1/2" - 20	12.7
AG90-0609	3/8" - 19	16.67	9/16" - 18	14.25
AG90-0612	3/8" - 19	16.67	3/4" - 16	19
AG90-0614	3/8" - 19	16.67	7/8" - 14	22.17
AG90-0809	1/2" - 14	20.96	9/16" - 18	14.25
AG90-0812	1/2" - 14	20.96	3/4" - 16	19
AG90-0814	1/2" - 14	20.96	7/8" - 14	22.17
AG90-0817	1/2" - 14	20.96	1 1/16" - 12	26.95
AG90-1212	3/4" - 14	26.45	3/4" - 16	19
AG90-1214	3/4" - 14	26.45	7/8" - 14	22.17
AG90-1217	3/4" - 14	26.45	1 1/16" - 12	26.95
AG90-1221	3/4" - 14	26.45	1 5/16" - 12	33.3
AG90-1617	1" - 11	33.25	1 1/16" - 12	26.95
AG90-1621	1" - 11	33.25	1 5/16" - 12	33.3
AG90-2026	1 1/4" - 11	41.91	1 5/8" - 12	41.22
AG90-2430	1 1/2" - 11	47.81	1 7/8" - 12	45.6

BC90 - BSPP MALE X BSPP FEMALE SWIVEL 90° COMPACT



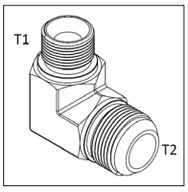


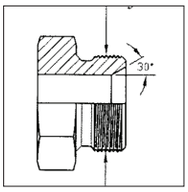


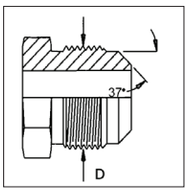
CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BC90-0202	1/8" - 28	9.73	1/8" - 28	8.59
BC90-0404	1/4" - 19	13.16	1/4" - 19	11.46
BC90-0606	3/8" - 19	16.67	3/8" - 19	14.96
BC90-0808	1/2" - 14	20.96	1/2" - 14	18.65
BC90-0812	1/2" - 14	20.96	3/4" - 14	24.13
BC90-1212	3/4" - 14	26.45	3/4" - 14	24.13
BC90-1616	1" - 11	33.25	1" - 11	30.3
BC90-2424	1 .1/2" - 11	47.81	1. 1/2" - 11	44.86

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BG90 - BSPP MALE X JIC MALE 90° COMPACT

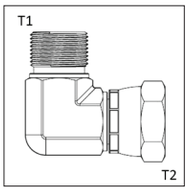


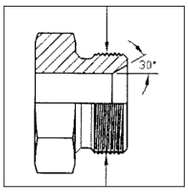


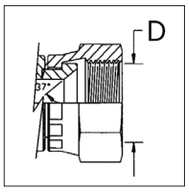


CODE	THREAD 1		THREAD 2	
	BSPP		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BG90-0407	1/4" - 19	13.16	7/16" - 20	11.07
BG90-0408	1/4" - 19	13.16	1/2" - 20	12.7
BG90-0409	1/4" - 19	13.16	9/16" - 18	14.25
BG90-0609	3/8" - 19	16.67	9/16" - 18	14.25
BG90-0612	3/8" - 19	16.67	3/4" - 16	19
BG90-0812	1/2" - 14	20.96	3/4" - 16	19
BG90-0814	1/2" - 14	20.96	7/8" - 14	22.17
BG90-1214	3/4" - 14	26.45	7/8" - 14	22.17
BG90-1217	3/4" - 14	26.45	1 1/16" - 12	26.95
BG90-2026	1. 1/4" - 11	41.91	1 5/8" - 12	41.22

BJ90 - BSPP MALE X JIC FEMALE SWIVEL 90° COMPACT







CODE	THREAD 1		THREAD 2	
	BSPP		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BJ90-0407	1/4" - 19	13.16	7/16" - 20	10
BJ90-0409	1/4" - 19	13.16	9/16" - 18	13
BJ90-0609	3/8" - 19	16.67	9/16" - 18	13
BJ90-0612	3/8" - 19	16.67	3/4" - 16	17.6
BJ90-0809	1/2" - 14	20.96	9/16" - 18	13
BJ90-0812	1/2" - 14	20.96	3/4" - 16	17.6
BJ90-0814	1/2" - 14	20.96	7/8" - 14	20.5

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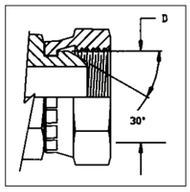


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CC90 - BSPP FEMALE SWIVEL X BSPP FEMALE SWIVEL 90° COMPACT

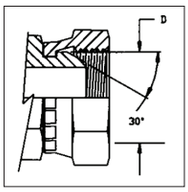


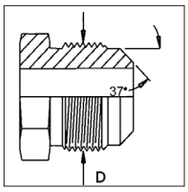


CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
CC90-0202	1/8" - 28	8.59	1/8" - 28	8.59
CC90-0204	1/8" - 28	8.59	1/4" - 19	11.46
CC90-0404	1/4" - 19	11.46	1/4" - 19	11.46
CC90-0406	1/4" - 19	11.46	3/8" - 19	14.96
CC90-0408	1/4" - 19	11.46	1/2" - 14	18.65
CC90-0606	3/8" - 19	14.96	3/8" - 19	14.96
CC90-0608	3/8" - 19	14.96	1/2" - 14	18.65
CC90-0808	1/2" - 14	18.65	1/2" - 14	18.65
CC90-1212	3/4" - 14	24.13	3/4" - 14	24.13
CC90-1216	3/4" - 14	24.13	1" - 11	30.3
CC90-1616	1" - 11	30.3	1" - 11	30.3
CC90-3232	2" - 11	56.67	2" - 11	56.67

CG90 - BSPP FEMALE SWIVEL X JIC MALE 90° COMPACT

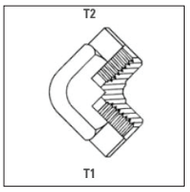


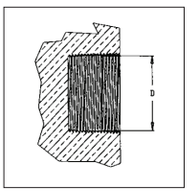




CODE	THREAD 1		THREAD 2	
	BSPP		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
CG90-0609	3/8" - 19	14.96	9/16" - 18	14.25
CG90-0612	3/8" - 19	14.96	3/4" - 16	19
CG90-0812	1/2" - 14	18.65	3/4" - 16	19

EE90 - BSPT FIXED FEMALE X BSPT FIXED FEMALE 90° COMPACT

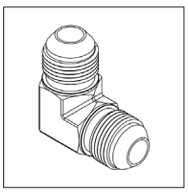


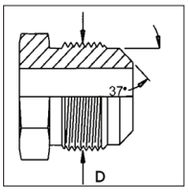


CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
EE90-0202	1/8" - 28	8.59	1/8" - 28	8.59
EE90-0404	1/4" - 19	11.46	1/4" - 19	11.46
EE90-0606	3/8" - 19	14.96	3/8" - 19	14.96
EE90-0808	1/2" - 14	18.65	1/2" - 14	18.65
EE90-1212	3/4" - 14	24.13	3/4" - 14	24.13
EE90-1616	1" - 11	30.3	1" - 11	30.3

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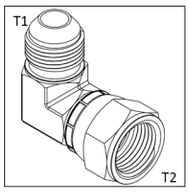
GG90 - JIC MALE X JIC MALE 90° COMPACT

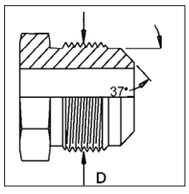


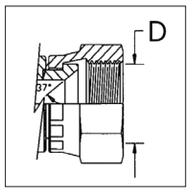


CODE	THREAD 1		THREAD 2	
	JIC		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GG90-0707	7/16" - 20	11.07	7/16" - 20	11.07
GG90-0808	1/2" - 20	12.7	1/2" - 20	12.7
GG90-0909	9/16" - 18	14.25	9/16" - 18	14.25
GG90-0912	9/16" - 18	14.25	3/4" - 16	19
GG90-1212	3/4" - 16	19	3/4" - 16	19
GG90-1414	7/8" - 14	22.17	7/8" - 14	22.17
GG90-1717	1 1/16" - 12	26.95	1 1/16" - 12	26.95
GG90-2121	1 5/16" - 12	33.3	1 5/16" - 12	33.3
GG90-2626	1 5/8" - 12	41.22	1 5/8" - 12	41.22

GJ90 - JIC MALE X JIC FEMALE SWIVEL 90° COMPACT



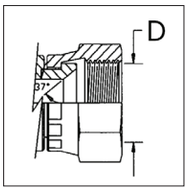




CODE	THREAD 1		THREAD 2	
	JIC		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GJ90-0707	7/16" - 20	11.07	7/16" - 20	10
GJ90-0808	1/2" - 20	12.7	1/2" - 20	11.6
GJ90-0909	9/16" - 18	14.25	9/16" - 18	13
GJ90-1212	3/4" - 16	19	3/4" - 16	17.6
GJ90-1414	7/8" - 14	22.17	7/8" - 14	20.5
GJ90-1717	1 1/16" - 12	26.95	1 1/16" - 12	25
GJ90-2121	1 5/16" - 12	33.3	1 5/16" - 12	31.3
GJ90-2626	1 5/8" - 12	41.22	1 5/8" - 12	39.2
GJ90-3030	1 7/8" - 12	47.57	1 7/8" - 12	45.6

JJ90 - JIC FEMALE SWIVEL X JIC FEMALE SWIVEL 90° COMPACT

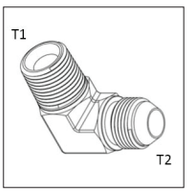


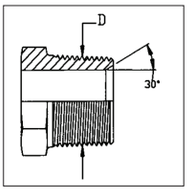


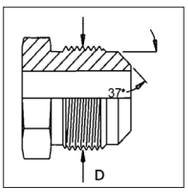
CODE	THREAD 1		THREAD 2	
	JIC		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
JJ90-0707	7/16" - 20	10	7/16" - 20	10
JJ90-0808	1/2" - 20	11.6	1/2" - 20	11.6
JJ90-0909	9/16" - 18	13	9/16" - 18	13
JJ90-1212	3/4" - 16	17.6	3/4" - 16	17.6
JJ90-1414	7/8" - 14	20.5	7/8" - 14	20.5
JJ90-1717	1 1/16" - 12	25	1 1/16" - 12	25
JJ90-2121	1 5/16" - 12	31.3	1 5/16" - 12	31.3

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LG90 - NPT MALE X JIC MALE 90° COMPACT

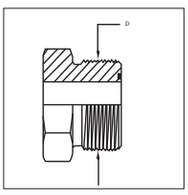






CODE	THREAD 2	
	JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
LG90-0207	7/16" - 20	11.07
LG90-0409	9/16" - 18	14.25

RR90 - ORFS MALE X ORFS MALE 90° COMPACT



CODE	THREAD 1		THREAD 2	
	ORFS		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
RR90-1111	11/16" - 16	17.52	11/16" - 16	17.52
RR90-1313	13/16" - 16	20.82	13/16" - 16	20.82
RR90-2323	1 7/16" - 12	36.57	1 7/16" - 12	36.57

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90° POSITIONAL

BSP

ABP90 - BSPT MALE X BSPP MALE POSITIONAL 90° COMPACT
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BSP JIC

AGP90 - BSPT MALE X JIC MALE POSITIONAL 90° COMPACT
PAGE 114

BSP UNO

ANP90 - BSPT MALE X UNO MALE POSITIONAL 90° COMPACT
PAGE 115

BSP

BBP90 - BSPP MALE X BSPP MALE POSITIONAL 90° COMPACT
PAGE 115

BSP JIC

BGP90 - BSPP MALE X JIC MALE POSITIONAL 90° COMPACT
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BSP UNO

BNP90 - BSPP MALE X UNO MALE POSITIONAL 90° COMPACT
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BSP ORFS

BPR90 - BSPP POSITIONAL X ORFS MALE 90° COMPACT
PAGE 116

BSP UNO

CNP90 - BSPP FEMALE SWIVEL X UNO MALE POSITIONAL 90° COMPACT
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JIC

GGP90 - JIC MALE X JIC MALE POSITIONAL 90° COMPACT
PAGE 116

JIC UNO

GNP90 - JIC MALE X UNO MALE POSITIONAL 90° COMPACT
PAGE 117

JIC UNO

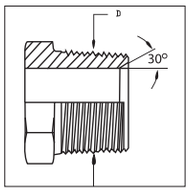
JNP90 - JIC FEMALE SWIVEL X UNO MALE POSITIONAL 90° COMPACT
PAGE 117

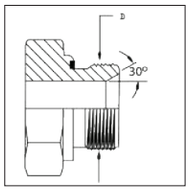
UNO ORFS

NRP90 - UNO MALE X ORFS MALE POSITIONAL 90° COMPACT
PAGE 117

ABP90 - BSPT MALE X BSPP MALE POSITIONAL 90° COMPACT

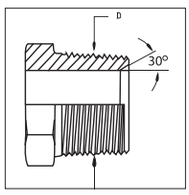


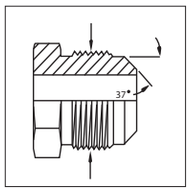




CODE	THREAD 1		THREAD 2	
	BSPT		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
ABP90-0404	1/4" - 19	13.16	1/4" - 19	13.16
ABP90-0406	1/4" - 19	13.16	3/8" - 19	16.67
ABP90-0604	3/8" - 19	16.67	1/4" - 19	13.16
ABP90-0606	3/8" - 19	16.67	3/8" - 19	16.67
ABP90-0608	3/8" - 19	16.67	1/2" - 14	20.96
ABP90-0806	1/2" - 14	20.96	3/8" - 19	16.67
ABP90-1212	3/4" - 14	26.45	3/4" - 14	26.45
ABP90-0808	1/2" - 14	20.96	1/2" - 14	20.96
ABP90-1216	3/4" - 14	26.45	1" - 11	33.25

AGP90 - BSPT MALE X JIC MALE POSITIONAL 90° COMPACT

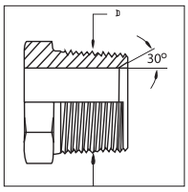


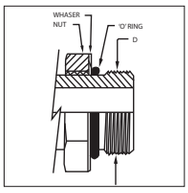


CODE	THREAD 1		THREAD 2	
	BSPP		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AGP90-0614	3/8" - 19	16.67	7/8" - 14	22.17

ANP90 - BSPT MALE X UNO MALE POSITIONAL 90° COMPACT



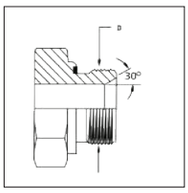




CODE	THREAD 1		THREAD 2	
	BSPT		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
ANP90-0407	1/4" - 19	13.16	7/16" - 20	11.07
ANP90-0612	3/8" - 19	16.67	3/4" - 16	19
ANP90-0614	3/8" - 19	16.67	7/8" - 14	22.17
ANP90-0814	1/2" - 14	20.96	7/8" - 14	22.17
ANP90-0817	1/2" - 14	20.96	1 1/16" - 12	26.95
ANP90-1212	3/4" - 14	26.45	3/4" - 16	19
ANP90-1214	3/4" - 14	26.45	7/8" - 14	22.17
ANP90-1217	3/4" - 14	26.45	1 1/16" - 12	26.95
ANP90-1221	3/4" - 14	26.45	1 5/16" - 12	33.3
ANP90-1621	1" - 11	33.25	1 5/16" - 12	33.3

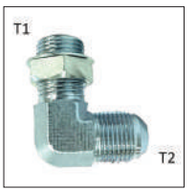
BBP90 - BSPP MALE X BSPP MALE POSITIONAL 90° COMPACT

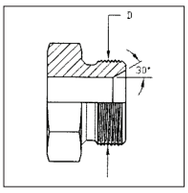


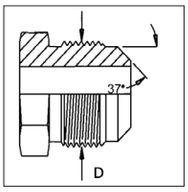


CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BBP90-0404	1/4" - 19	13.16	1/4" - 19	13.16
BBP90-0606	3/8" - 19	16.67	3/8" - 19	16.67
BBP90-0808	1/2" - 14	20.96	1/2" - 14	20.96
BBP90-1212	3/4" - 14	26.45	3/4" - 14	26.45
BBP90-1616	1" - 11	33.25	1" - 11	33.25
BBP90-0406	1/4" - 19	13.16	3/8" - 19	16.67
BBP90-0408	1/4" - 19	13.16	1/2" - 14	20.96
BBP90-2020	1 1/4" - 11	41.91	1 1/4" - 11	41.91

BGP90 - BSPP MALE X JIC MALE POSITIONAL 90° COMPACT



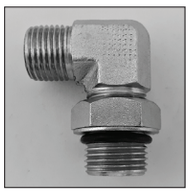


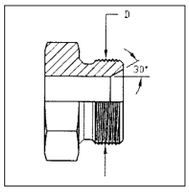


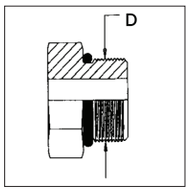
CODE	THREAD 1		THREAD 2	
	BSPP		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BGP90-0206	1/8" - 28	9.73	3/8" - 24	9.65
BGP90-0408	1/4" - 19	13.16	1/2" - 20	12.7
BGP90-0409	1/4" - 19	13.16	9/16" - 18	14.25
BGP90-0612	3/8" - 19	16.67	3/4" - 16	19
BGP90-0812	1/2" - 14	20.96	3/4" - 16	19
BGP90-0814	1/2" - 14	20.96	7/8" - 14	22.17
BGP90-1217	3/4" - 14	26.45	1 1/16" - 12	26.95
BGP90-0207	1/8" - 28	9.73	7/16" - 20	11.07
BGP90-0407	1/4" - 19	13.16	7/16" - 20	11.07
BGP90-0412	1/4" - 19	13.16	3/4" - 16	19
BGP90-0609	3/8" - 19	16.67	9/16" - 18	14.25
BGP90-0817	1/2" - 14	20.96	1 1/16" - 12	26.95
BGP90-2026	1 1/4" - 11	41.91	1 5/8" - 12	41.22

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BNP90 - BSPP MALE X UNO MALE POSITIONAL 90° COMPACT

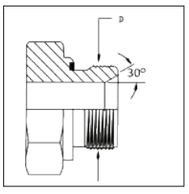


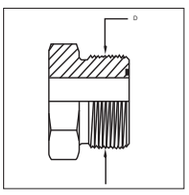




CODE	THREAD 1		THREAD 2	
	BSPP		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BNP90-0612	3/8" - 19	16.67	3/4" - 16	19
BNP90-0812	1/2" - 14	20.96	3/4" - 16	19
BNP90-0609	3/8" - 19	16.67	9/16" - 18	14.25
BNP90-1217	3/4" - 14	26.45	1 1/6" - 12	26.95

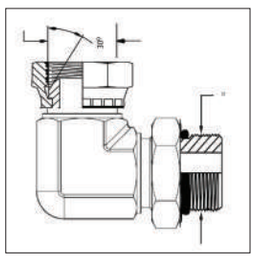
BPR90 - BSPP POSITIONAL X ORFS MALE 90° COMPACT





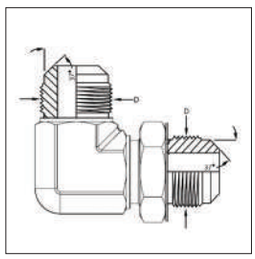
CODE	THREAD 1		THREAD 2	
	BSPP		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BPR90-0813	1/2" - 14	20.96	13/16" - 16	20.82
BPR90-1219	3/4" - 14	26.45	1 3/16" - 12	30.22
BPR90-1619	1" - 11	33.25	1 3/16" - 12	30.22
BPR90-1623	1" - 11	33.25	1 7/16" - 12	36.57

CNP90 - BSPP FEMALE SWIVEL X UNO MALE POSITIONAL 90° COMPACT



CODE	THREAD 1		THREAD 2	
	BSPP		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
CNP90-0609	3/8" - 19	14.96	9/16" - 18	14.25

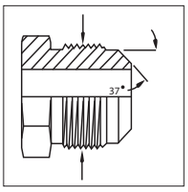
GGP90 - JIC MALE X JIC MALE POSITIONAL 90° COMPACT

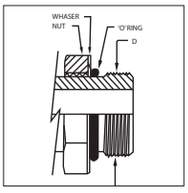


CODE	THREAD 1		THREAD 2	
	JIC		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GGP90-0808	1/2" - 20	12.7	1/2" - 20	12.7

GNP90 - JIC MALE X UNO MALE POSITIONAL 90° COMPACT

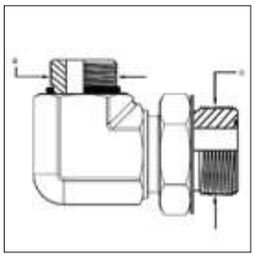






CODE	THREAD 1		THREAD 2	
	JIC		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GNP90-0808	1/2" - 20	12.7	1/2" - 20	12.7
GNP90-0908	9/16" - 18	14.25	1/2" - 20	12.7
GNP90-0909	9/16" - 18	14.25	9/16" - 18	14.25
GNP90-0912	9/16" - 18	14.25	3/4" - 16	19
GNP90-1212	3/4" - 16	19	3/4" - 16	19
GNP90-1217	3/4" - 16	19	1. 1/16" - 12	26.95
GNP90-2121	1 5/16" - 12	33.3	1. 5/16" - 12	33.3
GNP90-2626	1 5/8" - 12	41.22	1. 5/8" - 12	41.22
GNP90-0909	9/16" - 18	14.25	9/16" - 18	14.25
GNP90-0707	7/16" - 20	11.07	7/16" - 20	11.07
GNP90-0709	7/16" - 20	11.07	9/16" - 18	14.25
GNP90-0907	9/16" - 18	14.25	7/16" - 20	11.07
GNP90-1214	3/4" - 16	19	7/8" - 14	22.17
GNP90-1414	7/8" - 14	22.17	7/8" - 14	22.17
GNP90-1712	1 1/16" - 12	26.95	3/4" - 16	19
GNP90-1714	1 1/16" - 12	26.95	7/8" - 14	22.17
GNP90-1717	1 1/16" - 12	26.95	1 1/16" - 12	26.95
GNP90-1721	1 1/16" - 12	26.95	1 5/16" - 12	33.3

NRP90 - UNO MALE X ORFS MALE POSITIONAL 90° COMPACT



CODE	THREAD 1		THREAD 2	
	UNO		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
NRP90-0909	9/16" - 18	14.25	9/16 - 18	14.22
NRP90-0911	19/16	14.25	11/16	17.52
NRP90-1211	3/4	19	11/16	17.52
NRP90-1213	3/4	19	13/16	20.82
NRP90-1413	7/8" - 14	22.17	13/16 - 16	20.82
NRP90-1416	7/8" - 14	22.17	1"	25.4
NRP90-1719	1.1/16" - 12	26.95	1.3/16 - 12	30.22
NRP90-2119	1.5/16	33.3	1.3/16 - 12	30.22
NRP90-2123	1.5/16" - 12	33.3	1.7/16 - 12	36.57
NRP90-2623	1.5/8	41.22	1.7/16 - 12	36.57

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45° ANGLE

BSP

AA45 - BSPT MALE X BSPT MALE 45° COMPACT
PAGE 118

BSP

AC45 - BSPT MALE X BSPP FEMALE SWIVEL 45° COMPACT
PAGE 118

BSP

AE45 - BSPT MALE X BSPT FIXED FEMALE 45° COMPACT
PAGE 119

BSP JIC

AG45 - BSPT MALE X JIC MALE 45° COMPACT
PAGE 119

BSP JIC

BG45 - BSPP MALE X JIC MALE 45° COMPACT
PAGE 119

BSP

EE45 - BSPT FIXED FEMALE X BSPT FIXED FEMALE 45° COMPACT
PAGE 120

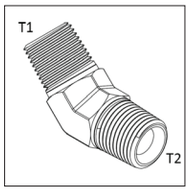
JIC

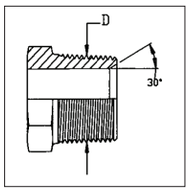
GJ45 - JIC MALE X JIC FEMALE SWIVEL 45° COMPACT
PAGE 120

ORFS

RT45 - ORFS MALE X ORFS FEMALE 45° COMPACT
PAGE 120

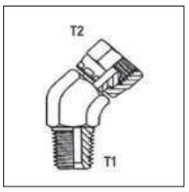
AA45 - BSPT MALE X BSPT MALE 45° COMPACT

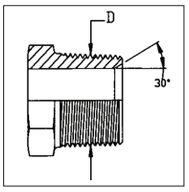


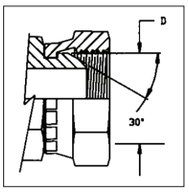


CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AA45-0202	1/8" - 28	9.73	1/8" - 28	9.73
AA45-0204	1/8" - 28	9.73	1/4" - 19	13.16
AA45-0404	1/4" - 19	13.16	1/4" - 19	13.16
AA45-0606	3/8" - 19	16.67	3/8" - 19	16.67
AA45-0608	3/8" - 19	16.67	1/2" - 14	20.96
AA45-0808	1/2" - 14	20.96	1/2" - 14	20.96
AA45-1212	3/4" - 14	26.45	3/4" - 14	26.45
AA45-1216	3/4" - 14	26.45	1" - 11	33.25
AA45-1616	1" - 11	33.25	1" - 11	33.25
AA45-2020	1 1/4" - 11	41.91	1 1/4" - 11	41.91

AC45 - BSPT MALE X BSPP FEMALE SWIVEL 45° COMPACT



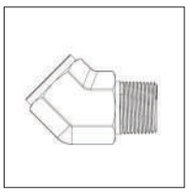




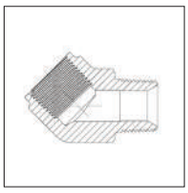
CODE	THREAD 1		THREAD 2	
	BSPT		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AC45-0202	1/8" - 28	9.73	1/8" - 28	8.59
AC45-0404	1/4" - 19	13.16	1/4" - 19	11.46
AC45-0406	1/4" - 19	13.16	3/8" - 19	14.96
AC45-0606	3/8" - 19	16.67	3/8" - 19	14.96
AC45-0608	3/8" - 19	16.67	3/8" - 19	14.96
AC45-0808	1/2" - 14	20.96	1/2" - 14	18.65
AC45-0812	1/2" - 14	20.96	3/4" - 14	24.13
AC45-1212	3/4" - 14	26.45	3/4" - 14	24.13
AC45-1616	1" - 11	33.25	1" - 11	30.3
AC45-2020	1 1/4" - 11	41.91	1 1/4" - 11	38.97

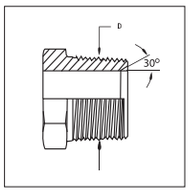
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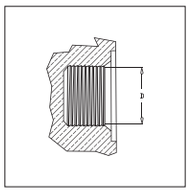
AE45 - BSPT MALE X BSPT FIXED FEMALE 45° COMPACT



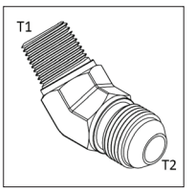
CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AE45-0808	1/2" - 14	20.96	1/2" - 14	18.65

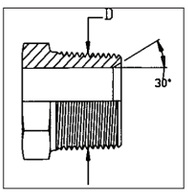


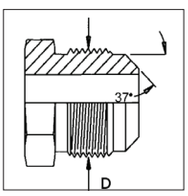




AG45 - BSPT MALE X JIC MALE 45° COMPACT

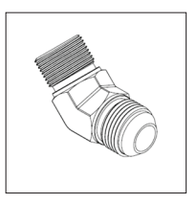




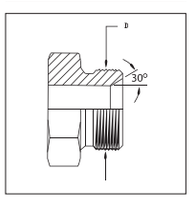


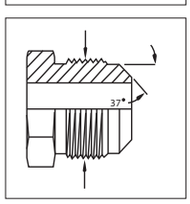
CODE	THREAD 1		THREAD 2	
	BSPT		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
AG45-0207	1/8" - 28	9.73	7/16" - 20	11.07
AG45-0407	1/4" - 19	13.16	7/16" - 20	11.07
AG45-0409	1/4" - 19	13.16	9/16" - 18	14.25
AG45-0609	3/8" - 19	16.67	9/16" - 18	14.25
AG45-0812	1/2" - 14	20.96	3/4" - 16	19
AG45-0814	1/2" - 14	20.96	7/8" - 14	22.17
AG45-1217	3/4" - 14	26.45	1 1/16" - 12	26.95
AG45-1621	1" - 11	33.25	1 5/16" - 12	33.3
AG45-2026	1 1/4" - 11	41.91	1 5/8" - 12	41.22

BG45 - BSPP MALE X JIC MALE 45° COMPACT



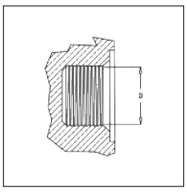
CODE	THREAD 2	
	JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BG45-0207	7/16" - 20	11.07
BG45-1217	1 1/16" - 12	26.95

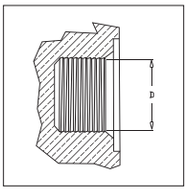




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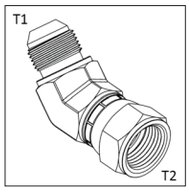
EE45 - BSPT FIXED FEMALE X BSPT FIXED FEMALE 45° COMPACT

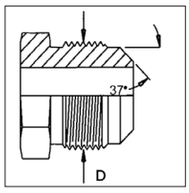


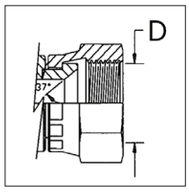


CODE	THREAD 1		THREAD 2	
	BSPT		BSPT	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
EE45-0404	1/4" - 19	11.46	1/4" - 19	11.46
EE45-0606	3/8" - 19	14.96	3/8" - 19	14.96

GJ45 - JIC MALE X JIC FEMALE SWIVEL 45° COMPACT

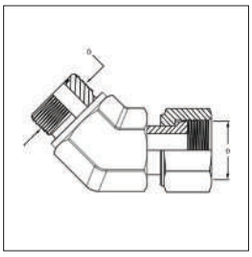






CODE	THREAD 1		THREAD 2	
	JIC		JIC	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GJ45-0707	7/16" - 20	11.07	7/16" - 20	10
GJ45-0909	9/16" - 18	14.25	9/16" - 18	13
GJ45-1212	3/4" - 16	19	3/4" - 16	17.6
GJ45-1414	7/8" - 14	22.17	7/8" - 14	20.5
GJ45-1717	1 1/16" - 12	26.95	1 1/16" - 12	25
GJ45-2121	1-5/16" - 12	33.30	1-5/16" - 12	31.30
GJ45-2626	1 5/8" - 12	41.22	1 5/8" - 12	39.2

RT45 - ORFS MALE X ORFS FEMALE 45° COMPACT



CODE	THREAD 1		THREAD 2	
	ORFS		ORFS	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
RT45-0909	9/16" - 18	14.22	9/16" - 18	12.95
RT45-1111	11/16" - 16	17.52	11/16" - 16	16
RT45-2323	1 7/16" - 12	36.57	1 7/16" - 12	34.54
RT45-2727	1 11/16" - 12	42.92	1 11/16" - 12	40.89

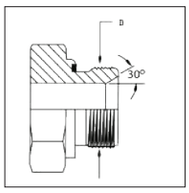
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45° POSITIONAL

BSP	JIC
	
BBP45 - BSPP MALE X BSPP MALE - 45° COMPACT	GNP45 - JIC MALE X UNO MALE POSITIONAL - 45° COMPACT
PAGE 119	PAGE 119

BBP45 - BSPP MALE X BSPP MALE - 45° COMPACT

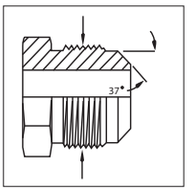


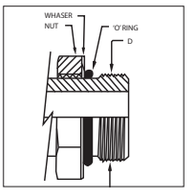


CODE	THREAD 1		THREAD 2	
	BSPP		BSPP	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
BBP45-0404	1/4"	13.16	1/4"	13.16
BBP45-0606	3/8"	16.67	3/8"	16.67
BBP45-0808	1/2"	20.96	1/2"	20.96
BBP45-1212	3/4"	26.45	3/4"	26.45
BBP45-1616	1"	33.25	1"	33.25

GNP45 - JIC MALE X UNO MALE POSITIONAL - 45° COMPACT







CODE	THREAD 1		THREAD 2	
	JIC		UNO	
	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GNP45-0909	9/16	14.25	9/16	14.25
GNP45-1212	3/4"	19	3/4"	19
GNP45-1214	3/4"	19	7/8"	22.17
GNP45-1414	7/8"	22.17	7/8"	22.17
GNP45-1717	1 1/16"	26.95	1 1/16"	26.95

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TEE AND CROSS ADAPTORS

TEES

BSP

AAA - BSPT MALE TEE
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BSP

AAC - BSPT MALE X BSPT MALE X BSPP FEMALE SWIVEL TEE
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BSP

ACA - BSPT MALE X BSPP FEMALE X BSPT MALE TEE
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BSP

ACC - BSPT MALE X BSPP FEMALE X BSPP FEMALE TEE
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BSP

BBB - BSPP MALE TEE
PAGE 123

BSP

BBC - BSPP MALE X BSPP MALE X BSPP FEMALE TEE
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BSP

BCB - BSPP MALE X BSPP FEMALE X BSPP MALE TEE
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BSP

BCC - BSPP MALE X BSPP FEMALE X BSPP FEMALE TEE
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BSP

BCE - BSPP MALE X BSPP FEMALE X BSPT FIXED FEMALE TEE
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BSP

CCB - BSPP FEMALE X BSPP FEMALE X BSPP MALE TEE
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BSP

CCC - BSPP FEMALE TEE
PAGE 123

BSP

EEE - BSPT FIXED FEMALE TEE
PAGE 123

JIC

GGG - JIC MALE TEE
PAGE 123

JIC

GGJ - JIC MALE X JIC MALE X JIC FEMALE SWIVEL TEE
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JIC

GJG - JIC MALE X JIC FEMALE X JIC MALE TEE
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JIC

GJJ - JIC MALE X JIC FEMALE X JIC FEMALE TEE
PAGE 124

JIC

JJG - JIC FEMALE X JIC FEMALE X JIC MALE TEE
PAGE 124

JIC

JJJ - JIC FEMALE X JIC FEMALE X JIC FEMALE TEE
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DKOL

MMMX - DKOL METRIC MALE X DKOL METRIC MALE X DKOL METRIC FEMALE TEE (LIGHT)
PAGE 125

DKOL

MMXM - DKOL METRIC MALE X DKOL METRIC FEMALE X DKOL METRIC MALE TEE (LIGHT)
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ORFS

RRR - ORFS MALE TEE
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ORFS

RRT - ORFS MALE X ORFS MALE X ORFS FEMALE TEE
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ORFS

RTR - ORFS MALE X ORFS FEMALE X ORFS MALE TEE
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CROSSES

BSP

AAAA - BSPT
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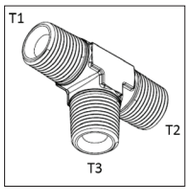
BSP

CCCC - BSPP FEMALE SWIVEL CROSS
PAGE 126


EEEE - BSPT FIXED FEMALE CROSS
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GGGG - JIC MALE CROSS
PAGE 127

AAA - BSPT MALE TEE



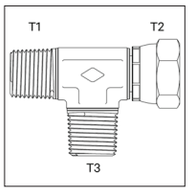
	THREAD 1		THREAD 2		THREAD 3	
	BSPT		BSPT		BSPT	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
AAA020202	1/8" - 28	9.73	1/8" - 28	9.73	1/8" - 28	9.73
AAA040404	1/4" - 19	13.16	1/4" - 19	13.16	1/4" - 19	13.16
AAA060606	3/8" - 19	16.67	3/8" - 19	16.67	3/8" - 19	16.67
AAA080808	1/2" - 14	20.96	1/2" - 14	20.96	1/2" - 14	20.96
AAA121212	3/4" - 14	26.45	3/4" - 14	26.45	3/4" - 14	26.45
AAA161616	1" - 11	33.25	1" - 11	33.25	1" - 11	33.25
AAA202020	1 1/4" - 11	41.91	1 1/4" - 11	41.91	1 1/4" - 11	41.91

AAC - BSPT MALE X BSPT MALE X BSPP FEMALE SWIVEL TEE



	THREAD 1		THREAD 2		THREAD 3	
	BSPT		BSPT		BSPP	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
AAC040404	1/4" - 19	13.16	1/4" - 19	13.16	1/4" - 19	11.46
AAC060606	3/8" - 19	16.67	3/8" - 19	16.67	3/8" - 19	14.96
AAC080808	1/2" - 14	20.96	1/2" - 14	20.96	1/2" - 14	18.65
AAC121212	3/4" - 14	26.45	3/4" - 14	26.45	3/4" - 14	24.13
AAC161616	1" - 11	33.25	1" - 11	33.25	1" - 11	30.3

ACA - BSPT MALE X BSPP FEMALE X BSPT MALE TEE



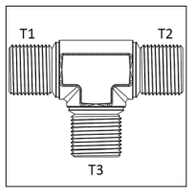
	THREAD 1		THREAD 2		THREAD 3	
	BSPT		BSPP		BSPT	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
ACA020202	1/8" - 28	9.73	1/8" - 28	8.59	1/8" - 28	9.73
ACA040404	1/4" - 19	13.16	1/4" - 19	11.46	1/4" - 19	13.16
ACA060604	3/8" - 19	16.67	3/8" - 19	14.96	1/4" - 19	13.16
ACA060606	3/8" - 19	16.67	3/8" - 19	14.96	3/8" - 19	16.67
ACA080804	1/2" - 14	20.96	1/2" - 14	18.65	1/4" - 19	13.16
ACA080808	1/2" - 14	20.96	1/2" - 14	18.65	1/2" - 14	20.96
ACA121204	3/4" - 14	26.45	3/4" - 14	24.13	1/4" - 19	13.16
ACA121212	3/4" - 14	26.45	3/4" - 14	24.13	3/4" - 14	26.45
ACA161604	1" - 11	33.25	1" - 11	30.3	1/4" - 19	13.16
ACA161616	1" - 11	33.25	1" - 11	30.3	1" - 11	33.25
ACA202020	1 1/4" - 11	41.91	1 1/4" - 11	38.97	1 1/4" - 11	41.91

ACC - BSPT MALE X BSPP FEMALE X BSPP FEMALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	BSPT		BSPP		BSPP	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
ACC060606	3/8" - 19	16.67	3/8" - 19	14.96	3/8" - 19	14.96
ACC080808	1/2" - 14	20.96	1/2" - 14	18.65	1/2" - 14	18.65
ACC121212	3/4" - 14	26.45	3/4" - 14	24.13	3/4" - 14	24.13
ACC161616	1" - 11	33.25	1" - 11	30.3	1" - 11	30.3

BBB - BSPP MALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	BSPP		BSPP		BSPP	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
BBB040404	1/4" - 19	13.16	1/4" - 19	13.16	1/4" - 19	13.16
BBB060606	3/8" - 19	16.67	3/8" - 19	16.67	3/8" - 19	16.67
BBB080808	1/2" - 14	20.96	1/2" - 14	20.96	1/2" - 14	20.96
BBB121212	3/4" - 14	26.45	3/4" - 14	26.45	3/4" - 14	26.45
BBB161616	1" - 11	33.25	1" - 11	33.25	1" - 11	33.25

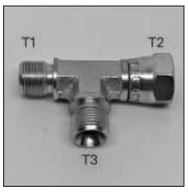
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BBC - BSPP MALE X BSPP MALE X BSPP FEMALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	BSPP		BSPP		BSPP	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
BBC040404	1/4" - 19	13.16	1/4" - 19	13.16	1/4" - 19	11.46
BBC060606	3/8" - 19	16.67	3/8" - 19	16.67	3/8" - 19	14.96
BBC080808	1/2" - 14	20.96	1/2" - 14	20.96	1/2" - 14	18.65
BBC101010	5/8" - 14	22.91	5/8" - 14	22.91	5/8" - 14	20.6
BBC121212	3/4" - 14	26.45	3/4" - 14	26.45	3/4" - 14	24.13
BBC161616	1" - 11	33.25	1" - 11	33.25	1" - 11	30.3

BCB - BSPP MALE X BSPP FEMALE X BSPP MALE TEE



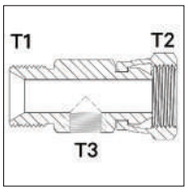
	THREAD 1		THREAD 2		THREAD 3	
	BSPP		BSPP		BSPP	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
BCB040404	1/4" - 19	13.16	1/4" - 19	11.46	1/4" - 19	13.16
BCB060606	3/8" - 19	16.67	3/8" - 19	14.96	3/8" - 19	16.67
BCB080808	1/2" - 14	20.96	1/2" - 14	18.65	1/2" - 14	20.96
BCB121212	3/4" - 14	26.45	3/4" - 14	24.13	3/4" - 14	26.45
BCB161616	1" - 11	33.25	1" - 11	30.3	1" - 11	33.25

BCC - BSPP MALE X BSPP FEMALE X BSPP FEMALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	BSPP		BSPP		BSPP	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
BCC040404	1/4" - 19	13.16	1/4" - 19	11.46	1/4" - 19	11.46
BCC060606	3/8" - 19	16.67	3/8" - 19	14.96	3/8" - 19	14.96
BCC080808	1/2" - 14	20.96	1/2" - 14	18.65	1/2" - 14	18.65
BCC121212	3/4" - 14	26.45	3/4" - 14	24.13	3/4" - 14	24.13

BCE - BSPP MALE X BSPP FEMALE X BSPT FIXED FEMALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	BSPP		BSPP		BSPT	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
BCE080802	1/2" - 14	20.96	1/2" - 14	18.65	1/8" - 28	8.59
BCE121204	3/4" - 14	26.45	3/4" - 14	24.13	1/4" - 19	11.46

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CCB - BSPP FEMALE X BSPP FEMALE X BSPP MALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	BSPP		BSPP		BSPP	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
CCB040404	1/8" - 28	8.59	1/8" - 28	8.59	1/8" - 28	8.59
CCB060606	1/4" - 19	11.46	1/4" - 19	11.46	1/4" - 19	11.46
CCB080808	3/8" - 19	14.96	3/8" - 19	14.96	3/8" - 19	14.96
CCB101010	5/8" - 14	20.6	5/8" - 14	20.6	5/8" - 14	20.6
CCB121208	3/4" - 14	24.13	3/4" - 14	24.13	1/2" - 14	18.65
CCB121212	3/4" - 14	24.13	3/4" - 14	24.13	3/4" - 14	24.13
CCB161616	1" - 11	30.3	1" - 11	30.3	1" - 11	30.3

CCC - BSPP FEMALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	BSPP		BSPP		BSPP	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
CCC020202	1/8" - 28	8.59	1/8" - 28	8.59	1/8" - 28	8.59
CCC040404	1/4" - 19	11.46	1/4" - 19	11.46	1/4" - 19	11.46
CCC060606	3/8" - 19	14.96	3/8" - 19	14.96	3/8" - 19	14.96
CCC080808	1/2" - 14	18.65	1/2" - 14	18.65	1/2" - 14	18.65
CCC121212	3/4" - 14	24.13	3/4" - 14	24.13	3/4" - 14	24.13
CCC161616	1" - 11	30.3	1" - 11	30.3	1" - 11	30.3

EEE - BSPT FIXED FEMALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	BSPT		BSPT		BSPT	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
EEE020202	1/8" - 28	8.59	1/8" - 28	8.59	1/8" - 28	8.59
EEE040404	1/4" - 19	11.46	1/4" - 19	11.46	1/4" - 19	11.46
EEE060606	3/8" - 19	14.96	3/8" - 19	14.96	3/8" - 19	14.96
EEE080808	1/2" - 14	18.65	1/2" - 14	18.65	1/2" - 14	18.65
EEE121212	3/4" - 14	24.13	3/4" - 14	24.13	3/4" - 14	24.13
EEE161616	1" - 11	30.3	1" - 11	30.3	1" - 11	30.3
EEE202020	1 1/4" - 11	38.97	1 1/4" - 11	38.97	1 1/4" - 11	38.97

GGG - JIC MALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	JIC		JIC		JIC	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
GGG070707	7/16" - 20	11.07	7/16" - 20	11.07	7/16" - 20	11.07
GGG080808	1/2" - 20	12.7	1/2" - 20	12.7	1/2" - 20	12.7
GGG090909	9/16" - 18	14.25	9/16" - 18	14.25	9/16" - 18	14.25
GGG121212	3/4" - 16	19	3/4" - 16	19	3/4" - 16	19
GGG141414	7/8" - 14	22.17	7/8" - 14	22.17	7/8" - 14	22.17
GGG171717	1 1/16" - 12	26.95	1 1/16" - 12	26.95	1 1/16" - 12	26.95
GGG212121	1 5/16" - 12	33.3	1 5/16" - 12	33.3	1 5/16" - 12	33.3
GGG262626	1 5/8" - 12	41.22	1 5/8" - 12	41.22	1 5/8" - 12	41.22

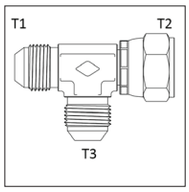
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GGJ - JIC MALE X JIC MALE X JIC FEMALE SWIVEL TEE



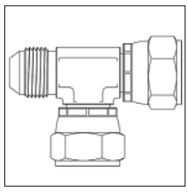
	THREAD 1		THREAD 2		THREAD 3	
	JIC		JIC		JIC	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
GGJ070707	7/16" - 20	11.07	7/16" - 20	11.07	7/16" - 20	10
GGJ080808	1/2" - 20	12.7	1/2" - 20	12.7	1/2" - 20	11.6
GGJ090909	9/16" - 18	14.25	9/16" - 18	14.25	9/16" - 18	13
GGJ121212	3/4" - 16	19	3/4" - 16	19	3/4" - 16	17.6
GGJ141414	7/8" - 14	22.17	7/8" - 14	22.17	7/8" - 14	20.5
GGJ171717	1 1/16" - 12	26.95	1 1/16" - 12	26.95	1 1/16" - 12	25
GGJ212121	1 5/16" - 12	33.3	1 5/16" - 12	33.3	1 5/16" - 12	31.3
GGJ262626	1 5/8" - 12	41.22	1 5/8" - 12	41.22	1 5/8" - 12	39.2

GJG - JIC MALE X JIC FEMALE X JIC MALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	JIC		JIC		JIC	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
GJG080808	1/2" - 20	12.7	1/2" - 20	11.6	1/2" - 20	12.7
GJG090909	9/16" - 18	14.25	9/16" - 18	13	9/16" - 18	14.25
GJG121212	3/4" - 16	19	3/4" - 16	17.6	3/4" - 16	19
GJG141414	7/8" - 14	22.17	7/8" - 14	20.5	7/8" - 14	22.17
GJG171717	1 1/16" - 12	26.95	1 1/16" - 12	25	1 1/16" - 12	26.95
GJG212121	1 5/16" - 12	33.3	1 5/16" - 12	31.3	1 5/16" - 12	33.3

GJJ - JIC MALE X JIC FEMALE X JIC FEMALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	JIC		JIC		JIC	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
GJJ070707	7/16" - 20	11.07	7/16" -20	10	7/16" -20	10
GJJ080808	1/2" - 20	12.7	1/2" - 20	12.7	1/2" - 20	12.7
GJJ090909	9/16" - 18	14.25	9/16" - 18	14.25	9/16" - 18	14.25
GJJ121212	3/4" - 16	19	3/4" - 16	19	3/4" - 16	19
GJJ141414	7/8" - 14	22.17	7/8" - 14	22.17	7/8" - 14	22.17
GJJ171717	1 1/16" - 12	26.95	1 1/16" - 12	26.95	1 1/16" - 12	26.95
GJJ212121	1 5/16" - 12	33.3	1 5/16" - 12	33.3	1 5/16" - 12	33.3

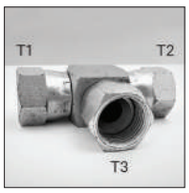
JJG - JIC FEMALE X JIC FEMALE X JIC MALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	JIC		JIC		JIC	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
JJG070707	7/16" -20	10	7/16" -20	10	7/16" - 20	11.07
JJG080808	1/2" - 20	11.6	1/2" - 20	11.6	1/2" - 20	12.7
JJG090909	9/16" - 18	13	9/16" - 18	13	9/16" - 18	14.25
JJG121212	3/4" - 16	17.6	3/4" - 16	17.6	3/4" - 16	19
JJG141414	7/8" - 14	20.5	7/8" - 14	20.5	7/8" - 14	22.17
JJG171717	1 1/16" - 12	25	1 1/16" - 12	25	1 1/16" - 12	26.95
JJG212121	1 5/16" - 12	31.3	1 5/16" - 12	31.3	1 5/16" - 12	33.3

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JJJ - JIC FEMALE X JIC FEMALE X JIC FEMALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	JIC		JIC		JIC	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
JJJ070707	7/16" -20	10	7/16" -20	10	7/16" -20	10
JJJ080808	1/2" - 20	11.6	1/2" - 20	11.6	1/2" - 20	11.6
JJJ090909	9/16" - 18	13	9/16" - 18	13	9/16" - 18	13
JJJ121212	3/4" - 16	17.6	3/4" - 16	17.6	3/4" - 16	17.6
JJJ141414	7/8" - 14	20.5	7/8" - 14	20.5	7/8" - 14	20.5
JJJ171717	1 1/16" - 12	25	1 1/16" - 12	25	1 1/16" - 12	25
JJJ212121	1 5/16" - 12	31.3	1 5/16" - 12	31.3	1 5/16" - 12	31.3
JJJ262626	1 5/8" - 12	39.2	1 5/8" - 12	39.2	1 5/8" - 12	39.2

MMMX - DKOL METRIC MALE X DKOL METRIC MALE X DKOL METRIC FEMALE TEE (LIGHT)



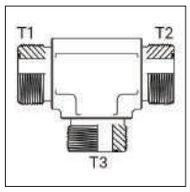
	THREAD 1		THREAD 2		THREAD 3	
	DKOL		DKOL		DKOL	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
MMMX141414-L	M14 x 1.5	14	M14 x 1.5	14	M14 x 1.5	12.5
MMMX161616-L	M16 x 1.5	16	M16 x 1.5	16	M16 x 1.5	14.5
MMMX181818-L	M18 x 1.5	18	M18 x 1.5	18	M18 x 1.5	16.5
MMMX222222-L	M22 x 1.5	22	M22 x 1.5	22	M22 x 1.5	20.5
MMMX363636-L	M36 x 2.0	36	M36 x 2.0	36	M36 x 2.0	34

MMXM - DKOL METRIC MALE X DKOL METRIC FEMALE X DKOL METRIC MALE TEE (LIGHT)



	THREAD 1		THREAD 2		THREAD 3	
	DKOL		DKOL		DKOL	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
MMXM101010-L	M10 x 1.5	10	M10 x 1.5	8.5	M10 x 1.5	10
MMXM141414-L	M14 x 1.5	14	M14 x 1.5	12.5	M14 x 1.5	14
MMXM161616-L	M16 x 1.5	16	M16 x 1.5	14.5	M16 x 1.5	16
MMXM181818-L	M18 x 1.5	18	M18 x 1.5	16.5	M18 x 1.5	18
MMXM222222-L	M22 x 1.5	22	M22 x 1.5	20.5	M22 x 1.5	22

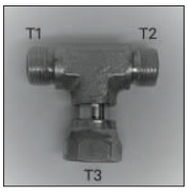
RRR - ORFS MALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	ORFS		ORFS		ORFS	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
RRR111111	11/16" - 16	17.52	11/16" - 16	17.52	11/16" - 16	17.52
RRR191919	1 3/16" - 12	30.22	1 3/16" - 12	30.22	1 3/16" - 12	30.22

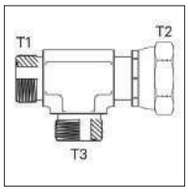
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RRT - ORFS MALE X ORFS MALE X ORFS FEMALE TEE



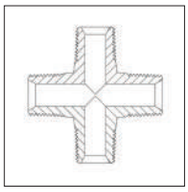
	THREAD 1		THREAD 2		THREAD 3	
	ORFS		ORFS		ORFS	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
RRT090909	9/16" - 18	14.22	9/16" - 18	14.22	9/16" - 18	12.95
RRT111111	11/16" - 16	17.52	11/16" - 16	17.52	11/16" - 16	16
RRT131313	13/16" - 16	20.82	13/16" - 16	20.82	13/16" - 16	19.05
RRT191919	1 3/16" - 12	30.22	1 3/16" - 12	30.22	1 3/16" - 12	28.19

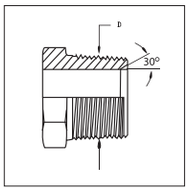
RTR - ORFS MALE X ORFS FEMALE X ORFS MALE TEE



	THREAD 1		THREAD 2		THREAD 3	
	ORFS		ORFS		ORFS	
CODE	NOMINAL THREAD 1 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 2 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID	NOMINAL THREAD 3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ ID
RTR090909	9/16" - 18	14.22	9/16" - 18	12.95	9/16" - 18	14.22
RTR111111	11/16" - 16	17.52	11/16" - 16	16	11/16" - 16	17.52
RTR131313	13/16" - 16	20.82	13/16" - 16	19.05	13/16" - 16	20.82
RTR191919	1 3/16" - 12	30.22	1 3/16" - 12	28.19	1 3/16" - 12	30.22
RTR232323	1 7/16" - 12	36.57	1 7/16" - 12	34.54	1 7/16" - 12	36.57
RTR272727	1 11/16" - 12	42.92	1 11/16" - 12	40.89	1 11/16" - 12	42.92

AAAA - BSPT

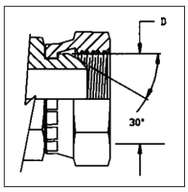




		THREADS			
CODE	DESCRIPTION	NOMINAL THREAD 1-3 SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	NOMINAL THREAD 4 SIZE & PITCH	'D' THREAD PHYSICAL OD/ID
AAAA04040404	1/4" BSPT MALE CROSS	1/4" - 19	13.16	1/4" - 19	13.16
AAAA08080804	1/2" - 1/4" BSPT MALE CROSS	1/2" - 14	20.96	1/4" - 19	13.16
AAAA08080808	1/2 BSPT MALE CROSS	1/2" - 14	20.96	1/2" - 14	20.96

CCCC - BSPP FEMALE SWIVEL CROSS



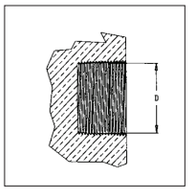


CODE	DESCRIPTION	THREADS	
		NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
CCCC04040404	1/4" BSPP FEMALE SWIVEL CROSS	1/4" - 19	11.46
CCCC06060606	3/8" BSSPP FEMALE SWIVEL CROSS	3/8" - 19	14.96
CCCC08080808	1/2" BSSP DEMALE SWIVEL CROSS	1/2" - 14	18.65
CCCC12121212	3/4" BSPP FEMALE SWIVEL CROSS	3/4" - 14	24.13
CCCC16161616	1" BSPP FEMALE SWIVEL CROSS	1" - 11	30.3

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EEEE - BSPT FIXED FEMALE CROSS

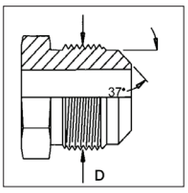




CODE	DESCRIPTION	THREADS	
		NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
EEEE04040404	1/4" BSPT FIXED FEMALE CROSS	1/4" - 19	11.46
EEEE06060606	3/8" BSPT FIXED FEMALE CROSS	3/8" - 19	14.96
EEEE08080808	1/2" BSPT FIXED FEMALE CROSS	1/2" - 14	18.65
EEEE12121212	3/4" BSPT FIXED FEMALE CROSS	3/4" - 14	24.13
EEEE16161616	1" BSPT FIXED FEMALE CROSS	1" - 11	30.3

GGGG - JIC MALE CROSS





CODE	DESCRIPTION	THREADS	
		NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
GGGG07070707	7/16" JIC MALE CROSS	7/16" - 20	11.07
GGGG08080808	1/2" JIC MALE CROSS	1/2" - 20	12.7
GGGG09090909	9/16" JIC MALE CROSS	9/16" - 18	14.25
GGGG12121212	3/4" JIC MALE CROSS	3/4" - 16	19



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BULKHEADS, CAPS & PLUGS

BULKHEADS

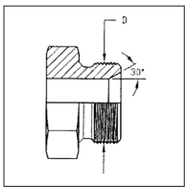
BSP	JIC	METRIC	ORFS
			
BBK - BSPP MALE X BSPP MALE BULKHEAD & LOCKNUT	GGK - JIC MALE X JIC MALE BULKHEAD & LOCKNUT	MMK - METRIC MALE X METRIC MALE BULKHEAD & LOCKNUT	RRK - ORFS MALE X ORFS MALE BULKHEAD & LOCKNUT
PAGE 130	PAGE 131	PAGE 131	PAGE 131

CAPS & PLUGS

BSP	BSP	BSP	JIC	JIC	KOMATSU	KOMATSU
						
A - BSPT MALE PLUG	B - BSPP MALE PLUG	C - BSPP FEMALE SWIVEL CAP	G - JIC MALE PLUG	J - JIC FEMALE SWIVEL CAP	KF - KOMATSU FEMALE CAP	KM - KOMATSU MALE PLUG
PAGE 132	PAGE 132	PAGE 132	PAGE 133	PAGE 133	PAGE 133	PAGE 133

METRIC	METRIC	UNO	ORFS	ORFS	SAE
					
M - METRIC MALE PLUG	MX - METRIC FEMALE SWIVEL CAP	N - UNO MALE PLUG	R- ORFS PLUG	T- ORFS CAP	CD62C - SAE CODE 62 BLANKING CAP
PAGE 134	PAGE 134	PAGE 134	PAGE 134	PAGE 135	PAGE 135

BBK - BSPP MALE X BSPP MALE BULKHEAD & LOCKNUT

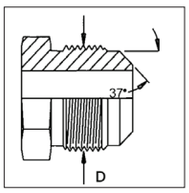




CODE	DESCRIPTION	THREAD
		PHYSICAL ('D' ON DIAGRAM)
BBK0202	1/8" BSPP MALE X 1/8" BSPP MALE BULKHEAD & LOCKNUT	9.73
BBK0404	1/4" BSPP MALE X 1/4" BSPP MALE BULKHEAD & LOCKNUT	13.16
BBK0606	3/8" BSPP MALE X 3/8" BSPP MALE BULKHEAD & LOCKNUT	16.67
BBK0608	3/8" BSPP MALE X 1/2" BSPP MALE BULKHEAD & LOCKNUT	16.67
BBK0808	1/2" BSPP MALE X 1/2" BSPP MALE BULKHEAD & LOCKNUT	20.96
BBK1212	3/4" BSPP MALE X 3/4" BSPP MALE BULKHEAD & LOCKNUT	26.45
BBK1216	3/4" BSPP MALE X 1" BSPP MALE BULKHEAD & LOCKNUT	26.45
BBK1616	1" BSPP MALE X 1" BSPP MALE BULKHEAD & LOCKNUT	33.25
BBK1010	5/8" BSPP MALE X 5/8" BSPP MALE BULKHEAD & LOCKNUT	22.91
BBK2020	1 - 1/4" BSPP MALE X 1 1 1/4" BSPP MALE BULKHEAD & LOCKNUT	41.91

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GGK - JIC MALE X JIC MALE BULKHEAD & LOCKNUT

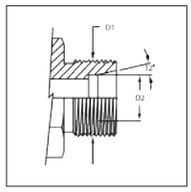




CODE	DESCRIPTION	THREAD
		PHYSICAL ('D' ON DIAGRAM)
GGK0707	7/16" JIC MALE X 7/16" JIC MALE BULKHEAD & LOCKNUT	11.07
GGK0808	1/2" JIC MALE X 1/2" JIC MALE BULKHEAD & LOCKNUT	12.7
GGK0909	9/16" JIC MALE X 9/16" JIC MALE BULKHEAD & LOCKNUT	14.25
GGK1212	3/4" JIC MALE X 3/4" JIC MALE BULKHEAD & LOCKNUT	19
GGK1414	7/8" JIC MALE X 7/8" JIC MALE BULKHEAD & LOCKNUT	22.17
GGK1717	1 - 1/16" JIC MALE X 1 - 1/16" JIC MALE BULKHEAD & LOCKNUT	26.95
GGK1919	1 - 3/16" JIC MALE X 1 - 3/16" JIC MALE BULKHEAD & LOCKNUT	30.1
GGK2121	1 - 5/16" JIC MALE X 1 - 5/16" JIC MALE BULKHEAD & LOCKNUT	33.3
GGK2626	1 - 5/8" JIC MALE X 1 - 5/8" JIC MALE BULKHEAD & LOCKNUT	41.22
GGK3030	1 - 7/8" JIC MALE X 1 - 7/8" JIC MALE BULKHEAD & LOCKNUT	47.57

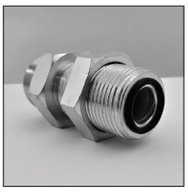
MMK - METRIC MALE X METRIC MALE BULKHEAD & LOCKNUT

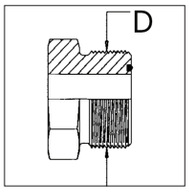




CODE	DESCRIPTION	THREAD
		PHYSICAL ('D' ON DIAGRAM)
MMK1212	12 MM METRIC MALE X 12 MM METRIC MALE BULKHEAD & LOCKNUT	12
MMK1414	14 MM METRIC MALE X 14 MM METRIC MALE BULKHEAD & LOCKNUT	14
MMK1616	16 MM METRIC MALE X 16 MM METRIC MALE BULKHEAD & LOCKNUT	16
MMK1818	18 MM METRIC MALE X 18 MM METRIC MALE BULKHEAD & LOCKNUT	18
MMK2020	20 MM METRIC MALE X 20 MM METRIC MALE BULKHEAD & LOCKNUT	20
MMK2222	22 MM METRIC MALE X 22 MM METRIC MALE BULKHEAD & LOCKNUT	22
MMK2424	24 MM METRIC MALE X 24 MM METRIC MALE BULKHEAD & LOCKNUT	24

RRK - ORFS MALE X ORFS MALE BULKHEAD & LOCKNUT



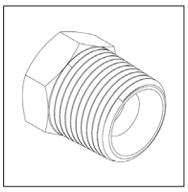


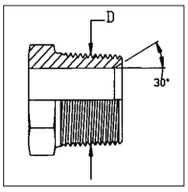
CODE	DESCRIPTION	THREAD
		PHYSICAL ('D' ON DIAGRAM)
RRK1111	11/16" ORFS MALE X 11/16" ORFS MALE BULHEAD & LOCKNUT	17.52
RRK1313	13/16" ORFS MALE X 13/16" ORFS MALE BULKHEAD & LOCKNUT	20.82
RRK1616	1 - 3/16" ORFS MALE X 1 - 3/16" ORFS MALE BULKHEAD & LOCKNUT	30.22
RRK1919	1" ORFS MALE X 1" ORFS MALE BULKHEAD & LOCKNUT	25.4
RRK2323	1 7/16" ORFS MALE X 1 7/16" ORFS MALE BULKHEAD & LOCKNUT	36.57



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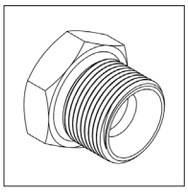
A - BSPT MALE PLUG

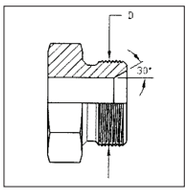




CODE	DESCRIPTION	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
A02	1/8" BSPT MALE PLUG	1/8" - 28	9.73
A04	1/4" BSPT MALE PLUG	1/4" - 19	13.16
A06	3/8" BSPT MALE PLUG	3/8" - 19	16.67
A08	1/2" BSPT MALE PLUG	1/2" - 14	20.96
A10	5/8" BSPT MALE PLUG	5/8" - 14	22.91
A12	3/4" BSPT MALE PLUG	3/4" - 14	26.45
A16	1" BSPT MALE PLUG	1" - 11	33.25
A20	1 - 1/4" BSPT MALE PLUG	1 1/4" - 11	41.91
A24	1 - 1/2" BSPT MALE PLUG	1 1/2" - 11	47.81
A32	2" BSPT MALE PLUG	2" - 11	59.62

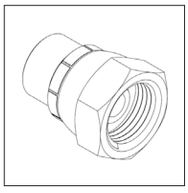
B - BSPP MALE PLUG

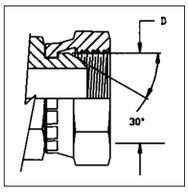




CODE	DESCRIPTION	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
B02	1/8" BSPP MALE PLUG	1/8" - 28	9.73
B04	1/4" BSPP MALE PLUG	1/4" - 19	13.16
B06	3/8" BSPP MALE PLUG	3/8" - 19	16.67
B08	1/2" BSPP MALE PLUG	1/2" - 14	20.96
B10	5/8" BSPP MALE PLUG	5/8" - 14	22.91
B12	3/4" BSPP MALE PLUG	3/4" - 14	26.45
B16	1" BSPP MALE PLUG	1" - 11	33.25
B20	1 - 1/4" BSPP MALE PLUG	1. 1/4" - 11	41.91
B32	2" BSPP MALE PLUG	2" - 11	59.62
B24	1-1/2" BSPP MALE PLUG	1 1/2" - 11	47.81

C - BSPP FEMALE SWIVEL CAP

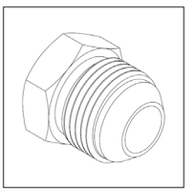


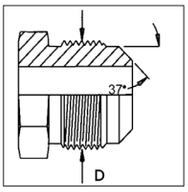


CODE	DESCRIPTION	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
C02	1/8" BSPP FEMALE SWIVEL CAP	1/8" - 28	8.59
C04	1/4" BSPP FEMALE SWIVEL CAP	1/4" - 19	11.46
C06	3/8" BSPP FEMALE SWIVEL CAP	3/8" - 19	14.96
C08	1/2" BSPP FEMALE SWIVEL CAP	1/2" - 14	18.65
C10	5/8" BSPP FEMALE SWIVEL CAP	5/8" - 14	20.6
C12	3/4" BSPP FEMALE SWIVEL CAP	3/4" - 14	24.13
C16	1" BSPP FEMALE SWIVEL CAP	1" - 11	30.3
C20	1 - 1/4" BSPP FEMALE SWIVEL CAP	1 .1/4" - 11	38.97
C24	1 - 1/2" BSPP FEMALE SWIVEL CAP	1. 1/2" - 11	44.86
C32	2" BSPP FEMALE SWIVEL CAP	2" - 11	56.67

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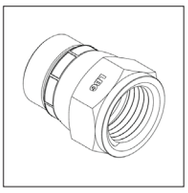
G - JIC MALE PLUG

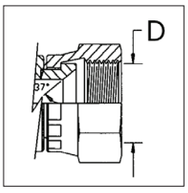




CODE	DESCRIPTION	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
G05	5/16" JIC MALE PLUG	5/16" - 24	7.87
G07	7/16" JIC MALE PLUG	7/16" - 20	11.07
G08	1/2" JIC MALE PLUG	1/2" - 20	12.7
G09	9/16" JIC MALE PLUG	9/16" - 18	14.25
G12	3/4" JIC MALE PLUG	3/4" - 16	19
G14	7/8" JIC MALE PLUG	7/8" - 14	22.17
G17	1 - 1/16" JIC MALE PLUG	1 1/16" - 12	26.95
G19	1 - 3/16" JIC MALE PLUG	1 3/16" - 12	30.1
G21	1 - 5/16" JIC MALE PLUG	1 5/16" - 12	33.3
G26	1 - 5/8" JIC MALE PLUG	1 5/8" - 12	41.22
G30	1 - 7/8" J11 MALE PLUG	1 7/8" - 12	47.57

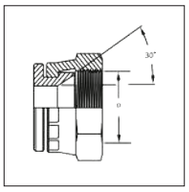
J - JIC FEMALE SWIVEL CAP





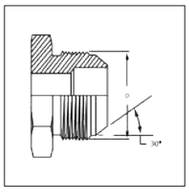
CODE	DESCRIPTION	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
J07	7/16" JIC FEMALE SWIVEL CAP	7/16" - 20	10
J08	1/2" JIC FEMALE SWIVEL CAP	1/2" - 20	11.6
J09	9/16" JIC FEMALE SWIVEL CAP	9/16" - 18	13
J12	3/4" JIC FEMALE SWIVEL CAP	3/4" - 16	17.6
J14	7/8" JIC FEMALE SWIVEL CAP	7/8" - 14	20.5
J17	1 - 1/16" JIC FEMALE SWIVEL CAP	1 1/16" - 12	25
J19	1 - 3/16" JIC FEMALE SWIVEL CAP	1 3/16" - 12	28.09
J21	1 - 5/16" JIC FEMALE SWIVEL CAP	1 5/16" - 12	31.3
J26	1 - 5/8" JIC FEMALE SWIVEL CAP	1 5/8" - 12	39.2
J30	1 7/8" JIC FEMALE SWIVEL CAP	1 7/8" - 12	45.6

KF - KOMATSU FEMALE CAP



CODE	DESCRIPTION	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID
KF-14	14 x 1.5mm KOMATSU FEMALE CAP	M14 x 1.5	12.5
KF-18	18 x 1.5mm KOMATSU FEMALE CAP	M18 x 1.5	16.5
KF-22	22 x 1.5mm KOMATSU FEMALE CAP	M22 x 1.5	20.5
KF-24	24 x 1.5mm KOMATSU FEMALE CAP	M24 x 1.5	22.5
KF-30	30 x 1.5mm KOMATSU FEMALE CAP	M30 x 1.5	28.5

KM - KOMATSU MALE PLUG

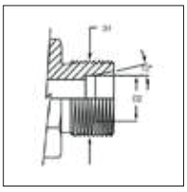


CODE	DESCRIPTION	NOMINAL THREAD SIZE & PITCH	'D' THREAD PHYSICAL OD/ID
KM-14	14 x 1.5mm KOMATSU MALE PLUG	M14 x 1.5	14
KM-18	18 x 1.5mm KOMATSU MALE PLUG	M18 x 1.5	18
KM-22	22 x 1.5mm KOMATSU MALE PLUG	M22 x 1.5	22
KM-24	24 x 1.5mm KOMATSU MALE PLUG	M24 x 1.5	24
KM-30	30 x 1.5mm KOMATSU MALE PLUG	M30 x 1.5	30

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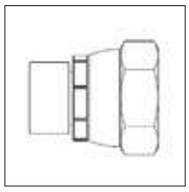
M - METRIC MALE PLUG





CODE	DESCRIPTION	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
M12	12 MM METRIC MALE PLUG	M12 - 1.5	12
M14	14 MM METRIC MALE PLUG	M14 - 1.5	14
M16	16 MM METRIC MALE PLUG	M16 - 1.5	16
M18	18 MM METRIC MALE PLUG	M18 - 1.5	18
M20	20 MM METRIC MALE PLUG	M20 - 1.5	20.5
M22	22 MM METRIC MALE PLUG	M22 - 1.5	22
M24	24 MM METRIC MALE PLUG	M24 - 1.5	24

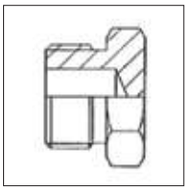
MX - METRIC FEMALE SWIVEL CAP

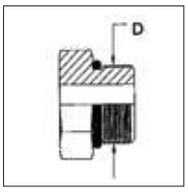




CODE	DESCRIPTION	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
MX12	12 MM METRIC FEMALE SWIVEL CAP	M12 - 1.5	10.5
MX14	14 MM METRIC FEMALE SWIVEL CAP	M14 - 1.5	12.5
MX16	16 MM METRIC FEMALE SWIVEL CAP	M16 - 1.5	14.5
MX18	18 MM METRIC FEMALE SWIVEL CAP	M18 - 1.5	16.5
MX20	20 MM METRIC FEMALE SWIVEL CAP	M20 - 1.5	18.5
MX22	22 MM METRIC FEMALE SWIVEL CAP	M22 - 1.5	20.5

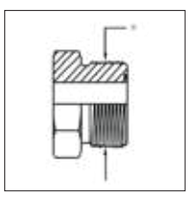
N - UNO MALE PLUG





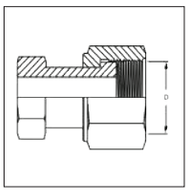
CODE	DESCRIPTION	NOMINAL SIZE & PITCH	PHYSICAL ('D' ON DIAGRAM)
N07	7/16" UNO MALE PLUG	7/16" - 20	11.07
N08	1/2" UNO MALE PLUG	1/2" - 20	12.7
N09	9/16" UNO MALE PLUG	9/16" - 18	14.25
N10	5/8" UNO MALE PLUG	3/4 - 18	15.6
N12	3/4" UNO MALE PLUG	3/4" - 16	19
N14	7/8" UNO MALE PLUG	7/8" - 14	22.17
N17	1 - 1/16" UNO MALE PLUG	1. 1/16" - 12	26.95
N19	1 - 3/16" UNO MALE PLUG	???	???
N21	1 - 5/16" UNO MALE PLUG	1. 5/16" - 12	33.3
N30	1 - 7/8" UNO MALE PLUG	1. 7/8" - 12	47.57

R- ORFS PLUG



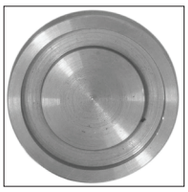
CODE	DESCRIPTION	NOMINAL SIZE & PITCH	'D' THREAD PHYSICAL OD/ID
R09	9/16 ORFS PLUG	???	14.22
R11	11/16 ORFS PLUG	???	17.52
R13	13/16 ORFS PLUG	???	20.82
R19	1 3/16 ORFS PLUG	???	30.22
R23	1 7/16 ORFS PLUG	???	36.57
R27	1-11/16 ORFS PLUG	???	42.92

T- ORFS CAP



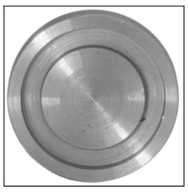
CODE	DESCRIPTION	THREAD PHYSICAL
T09	9/16 ORFS CAP	12.95
T11	11/16 ORFS CAP	16
T13	13/16 ORFS CAPS	19.05
T16	1 ORFS CAP	23.62
T19	1 3/16 ORFS CAPS	28.19
T23	1-7/16 ORFS CAP	34.54
T27	1-11/16 ORFS CAP	40.89

CD62C - SAE CODE 62 BLANKING CAP



CODE	DESCRIPTION	DIAMETER (MM)	THICKNESS (MM)
CD62C-12	3/4 CODE62 BLANKING CAP STEPPED	41.28	8.76
CD62C-16	1 CODE62 BLANKING CAP STEPPED	47.63	9.53
CD62C-20	1-1/4 CODE62 BLANKING CAP STEPPED	53.98	10.29
CD62C-24	1-1/2 CODE62 BLANKING CAP STEPPED	63.5	12.57

CD61C - SAE CODE 61 BLANKING CAP



CODE	DESCRIPTION	DIAMETER (MM)	THICKNESS (MM)
CD61C-12	3/4 CODE62 BLANKING CAP STEPPED	41.28	8.76
CD61C-16	1 CODE62 BLANKING CAP STEPPED	47.63	9.53
CD61C-20	1-1/4 CODE62 BLANKING CAP STEPPED	53.98	10.29
CD61C-24	1-1/2 CODE62 BLANKING CAP STEPPED	63.5	12.57

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SWIVEL UNION

BSP	BSP	CATPACK
 BE-SW- BSPP MALE X BSPT FIXED FEMALE OIL/ WATER UNION SWIVEL	BE-SW90 - BSPP MALE X BSPT FIXED FEMALE OIL/ WATER UNION SWIVEL 90° COMPACT	 SAE CODE 62 FLANGE TO 'CAT' FLANGE CONVERSION RING
PAGE 136	PAGE 136	PAGE 136

BE-SW- BSPP MALE X BSPT FIXED FEMALE OIL/WATER UNION SWIVEL

Swivel Union joints are for the connection between stationary pipes (or hoses) and rotating parts of machines. They are not designed for continuous rotation, if you require a Rotary Union designed for continous rotation please call 0800 20 20 to speak to the team.



	THREAD 1		THREAD 2	
	BSPP		BSPT	
CODE	NOMINAL SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	NOMINAL SIZE & PITCH	'D' THREAD PHYSICAL OD/ID
BE-SW-0404	1/4" - 19	13.16	1/4" - 19	11.46
BE-SW-0606	3/8" - 19	16.67	3/8" - 19	14.96
BE-SW-0808	1/2" - 14	20.96	1/2" - 14	18.65
BE-SW-1212	3/4" - 14	26.45	3/4" - 14	24.13
BE-SW-1616	1" - 11	33.25	1" - 11	30.3

BE-SW90 - BSPP MALE X BSPT FIXED FEMALE OIL/WATER UNION SWIVEL 90° COMPACT

Swivel Union joints are for the connection between stationary pipes (or hoses) and rotating parts of machines. They are not designed for continuous rotation, if you require a Rotary Union designed for continous rotation please call 0800 20 20 to speak to the team.

	THREAD 1		THREAD 2	
	BSPP		BSPT	
CODE	NOMINAL SIZE & PITCH	'D' THREAD PHYSICAL OD/ID	NOMINAL SIZE & PITCH	'D' THREAD PHYSICAL OD/ID
BE-SW90-0404	1/4" - 19	13.16	1/4" - 19	11.46
BE-SW90-0606	3/8" - 19	16.67	3/8" - 19	14.96
BE-SW90-1616	1" - 11	33.25	1" - 11	30.3

CATPACK - SAE CODE 62 FLANGE TO 'CAT' FLANGE CONVERSION RING

'Cat' or 'Supercat' flanges refer to a flange that conforms to SAE Code 62 in all aspects except the head thickness which is 14.2mm.
Code 62 flanges can be adapted to replace 'cat' flanges either with these packers, or by replacing the Flange Clamps with standard Code 62 clamps.

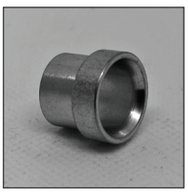


CODE	DESCRIPTION
CATPACK-C62-12	3/4" CAT SPACER
CATPACK-C62-16	1" CAT SPACER
CATPACK-C62-20	1-1/4" CAT SPACER
CATPACK-C62-24	1-1/2" CAT SPACER

NUTS & CUTTING RINGS

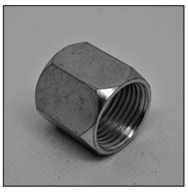
JIC	JIC	METRIC	METRIC	METRIC	ORFS	BSP
						
JCR - JIC FLARELESS CUTTING RING	JNUT - JIC NUT	MCR - METRIC CUTTING RING	MNUT-S - METRIC HEAVY TUBE NUT	MNUT-L - METRIC LIGHT TUBE NUT	O - ORFS LOCK NUT	AK - BSP LOCK NUT
PAGE 137	PAGE 137	PAGE 137	PAGE 138	PAGE 138	PAGE 138	PAGE 138

JCR - JIC FLARELESS CUTTING RING



CODE	DESCRIPTION	TO SUIT
JCR-06	3/8 Flareless Cutting Ring	JNUT-09
JCR-08	1/2 Flareless Cutting Ring	JNUT-12
JCR-10	5/8 Flareless Cutting Ring	JNUT-14
JCR-16	1 Flareless Cutting Ring	JNUT-21

JNUT - JIC NUT



CODE	DESCRIPTION	TO SUIT
JNUT-09	9/16 JIC Nut for 3/8 tube	JCR-06
JNUT-12	3/4 JIC Nut for 1/2 tube	JCR-08
JNUT-14	7/8 JIC Nut for 5/8 tube	JCR-10
JNUT-21	1 5/16 JIC Nut for 1 tube	JCR-16

MCR - METRIC CUTTING RING



CODE	DESCRIPTION	TO SUIT
MCR-12-L	12 Metric Light Cutting Ring (MNUT-18-L)	MNUT-18-L
MCR-14-S	14 Metric Heavy Cutting Ring (MNUT-22-S)	MNUT-22-S
MCR-15-L	15 Metric Light Cutting Ring (MNUT-22-L)	MNUT-22-L
MCR-16-S	16 Metric Heavy Cutting Ring (MNUT-24-S)	MNUT-24-S
MCR-20-S	20 Metric Heavy Cutting Ring (MNUT-30-S)	MNUT-30-S
MCR-06-L	6 Metric L Cutting Ring (MNUT-10&12-L)	MNUT-10-L, MNUT-12-L
MCR-06-S	6 Metric S Cutting Ring (MNUT-12&14-S)	MNUT-12-S, MNUT-14-S
MCR-08-L	8 Metric L Cutting Ring (MNUT-14-L)	MNUT-14-L
MCR-10-L	10 Metric Light Cutting Ring (MNUT-16-L)	MNUT-16-L
MCR-10-S	10 Metric Heavy Cutting Ring (MNUT-18-S)	MNUT-18-S
MCR-12-S	12 Metric Heavy Cutting Ring (MNUT-20-S)	MNUT-20-S
MCR-14-L	14 Metric Heavy Cutting Ring (MNUT-22-L)	MNUT-22-L
MCR-16-L	16 Metric Light Cutting Ring (MNUT-24-L)	MNUT-24-L
MCR-24-S	24 Metric Heavy Cutting Ring (MNUT-30-S)	MNUT-30-S

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MNUT-S - METRIC HEAVY TUBE NUT



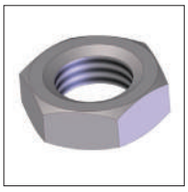
CODE	DESCRIPTION	THREAD
MNUT-14-S	14x1.5 6S METRIC HEAVY TUBE NUT	12.5
MNUT-16-S	16x1.5 8S METRIC HEAVY TUBE NUT	14.5
MNUT-18-S	18x1.5 10S METRIC HEAVY TUBE NUT	16.5
MNUT-20-S	20x1.5 12S METRIC HEAVY TUBE NUT	18.5
MNUT-22-S	22x1.5 14S METRIC HEAVY TUBE NUT	20.5
MNUT-24-S	24x1.5 16S METRIC HEAVY TUBE NUT	22.5
MNUT-30-S	30x2.0 20S METRIC HEAVY TUBE NUT	28
MNUT-36-S	36x2.0 25S METRIC HEAVY TUBE NUT	34
MNUT-42-S	42x2.0 30S METRIC HEAVY TUBE NUT	40
MNUT-52-S	52x2.0 38S METRIC HEAVY TUBE NUT	50

MNUT-L - METRIC LIGHT TUBE NUT



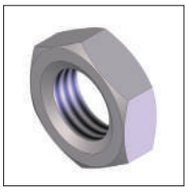
CODE	DESCRIPTION	THREAD
		PHYSICAL ('D' ON DIAGRAM)
MNUT-10-L	10x1.5 6L METRIC LIGHT TUBE NUT	8.5
MNUT-12-L	12x1.5 6L METRIC LIGHT TUBE NUT	10.5
MNUT-14-L	14x1.5 8L METRIC LIGHT TUBE NUT	12.5
MNUT-16-L	16x1.5 10L METRIC LIGHT TUBE NUT	14.5
MNUT-18-L	18x1.5 12L METRIC LIGHT TUBE NUT	16.5
MNUT-22-L	22x1.5 15L METRIC LIGHT TUBE NUT	20.5
MNUT-24-L	24x1.5 16L METRIC LIGHT TUBE NUT	22.5
MNUT-26-L	26x1.5 18L METRIC LIGHT TUBE NUT	24.5
MNUT-30-L	30x2.0 22L METRIC LIGHT TUBE NUT	28
MNUT-36-L	36x2.0 28L METRIC LIGHT TUBE NUT	34
MNUT-45-L	45x2.0 35L METRIC LIGHT TUBE NUT	43
MNUT-52-L	52x2.0 42L METRIC LIGHT TUBE NUT	50

O - ORFS LOCK NUT



CODE	DESCRIPTION
O13	13/16" ORFS LOCK NUT
O19	1 - 3/16" ORFS LOCK NUT

AK - BSP LOCK NUT



CODE	DESCRIPTION
AK04	1/4" BSP LOCK NUT
AK06	3/8" BSP LOCK NUT
AK08	1/2" BSP LOCK NUT
AK12	3/4" BSP LOCK NUT
AK16	1" BSP LOCK NUT

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O RINGS AND DOWTY SEALS

IMPERIAL	METRIC	ORFS	UNO	SAE
				
DS - IMPERIAL DOWTY SEAL	DSM - METRIC DOWTY SEAL	ORFS O-RING	UNO - UNO O-RING	SAE - SAE FLANGE O-RING
PAGE 139	PAGE 139	PAGE 140	PAGE 140	PAGE 140

O RING KITS

IMPERIAL	METRIC		ORFS
			
O RING KIT - IMPER 5A	O RING KIT - METRIC 4A	O RING KIT - COM	O RING KIT - ORFS
PAGE 141	PAGE 141	PAGE 141	PAGE 141

DS - IMPERIAL DOWTY SEAL

TO SUIT BSPP MALE THREADS



CODE	DESCRIPTION
DS02	1/8" DOWTY SEAL
DS04	1/4" DOWTY SEAL
DS06	3/8" DOWTY SEAL
DS08	1/2" DOWTY SEAL
DS10	5/8" DOWTY SEAL
DS12	3/4" DOWTY SEAL
DS16	1" DOWTY SEAL
DS20	1 - 1/4" DOWTY SEAL
DS24	1 - 1/2" DOWTY SEAL
DS26	1 - 5/8 DOWTY SEAL
DS32	2" DOWTY SEAL

DSM - METRIC DOWTY SEAL

TO SUIT METRIC MALE THREADS WHERE NEEDED FOR SEALING

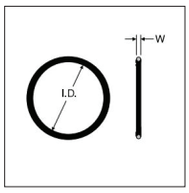


CODE	DESCRIPTION
DS10M	10mm METRIC DOWTY SEAL
DS12M	12mm METRIC DOWTY SEAL
DS14M	14mm METRIC DOWTY SEAL
DS16M	16mm METRIC DOWTY SEAL
DS18M	18mm METRIC DOWTY SEAL
DS20M	20mm METRIC DOWTY SEAL
DS22M	22mm METRIC DOWTY SEAL
DS36M	36mm METRIC DOWTY SEAL

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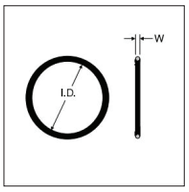
ORFS O-RING

TO FIT SAE J1453 ORFS MALE THREADS



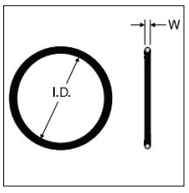
CODE	DESCRIPTION	I.D. (MM)	CROSS SECTION (W) (MM)
ORFS-09	9/16 ORFS O-RING	7.7	1.78
ORFS-11	11/16 ORFS O-RING	9.3	1.78
ORFS-13	13/16 ORFS O-RING	12.4	1.78
ORFS-16	1 ORFS O-RING	15.6	1.78
ORFS-19	1 1/16 PRFS O-RING	18.8	1.78
ORFS-23	1 7/16 ORFS O-RING	23.5	1.78
ORFS-27	1 11/16 ORFS O-RING	29.9	1.78

UNO - UNO O-RING



CODE	DESCRIPTION	I.D. (MM)	CROSS SECTION (W) (MM)
UNO-07	7/16 UN O-RING	8.89	1.78
UNO-08	1/2 UN O-RING	10.42	1.78
UNO-09	9/16 UN O-RING	11.94	2.03
UNO-12	3/4 UN O-RING	16.26	2.29
UNO-14	7/8 UN O-RING	19.3	2.54
UNO-17	1 1/16 UN O-RING	23.37	3.05
UNO-21	1 5/16 UN O-RING	29.72	3.05
UNO-26	1 5/8 UN O-RING	37.59	3.05
UNO-30	1 7/8 UN O-RING	43.69	3.05
UNO-40	2 1/2 UN O-RING	59.44	3.05

SAE - SAE FLANGE O-RING



CODE	DESCRIPTION	I.D.	CROSS SECTION (W)
SAE-08	1/2 SAE O-RING [.734 x .139]	18.64	3.53
SAE-12	3/4 SAE / Flange O-RING [.984 x .139]	25	3.53
SAE-16	1 SAE / Flange O-RING [1.296 x .139]	32.92	3.53
SAE-20	1 1/4 SAE / Flange O-RING [1.484 x .139]	37.69	3.53
SAE-24	1 1/2 SAE / Flange O-RING [1.859 x .139]	47.22	3.53
SAE-32	2 SAE / Flange O-RING [2.234 x .139]	56.74	3.53

O RING KIT - IMPER 5A

IMPERIAL O-RING KIT - NITRILE 90 DURO





POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY
006	2.90 x 1.78	20	113	13.94 x 2.62	13	216	28.17 x 3.53	10
007	3.68 x 1.78	20	114	15.54 x 2.62	13	217	29.74 x 3.53	10
008	4.47 x 1.78	20	115	17.12 x 2.62	13	218	31.34 x 3.53	10
009	5.28 x 1.78	20	116	18.72 x 2.62	13	219	32.92 x 3.53	10
010	6.07 x 1.78	20	210	18.64 x 3.53	10	220	34.52 x 3.53	10
011	7.65 x 1.78	20	211	20.22 x 3.53	10	221	36.09 x 3.53	10
012	9.25 x 1.78	20	212	21.82 x 3.53	10	222	37.69 x 3.53	10
110	9.19 x 2.62	13	213	23.39 x 3.53	10	325	37.47 x 5.33	7
111	10.77 x 2.62	13	214	24.99 x 3.53	10	326	40.64 x 5.33	7
112	12.37 x 2.62	13	215	26.57 x 3.53	10	327	43.82 x 5.33	7

For more O-Ring Kit Options see page 156

O RING KIT - METRIC 4A

METRIC O-RING KIT - NITRILE 90 DURO





POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY
006	3.00 x 2.00	16	**113**	14.00 x 2.50	13	**216**	28.00 x 3.00	12
007	4.00 x 2.00	16	**114**	16.00 x 2.50	13	**217**	30.00 x 3.00	12
008	5.00 x 2.00	16	**115**	17.00 x 2.50	13	**218**	32.00 x 3.00	12
009	6.00 x 2.00	16	**116**	19.00 x 2.50	13	**219**	33.00 x 3.00	12
010	7.00 x 2.00	16	**210**	19.00 x 3.00	12	**220**	35.00 x 3.00	12
011	8.00 x 2.00	16	**211**	20.00 x 3.00	12	**221**	36.00 x 3.00	12
012	10.00 x 2.00	16	**212**	22.00 x 3.00	12	**222**	38.00 x 3.00	12
110	10.00 x 2.50	13	**213**	24.00 x 3.00	12	**325**	38.00 x 4.00	9
111	11.00 x 2.50	13	**214**	25.00 x 3.00	12	**326**	41.00 x 4.00	9
112	12.00 x 2.50	13	**215**	27.00 x 3.00	12	**327**	44.00 x 4.00	9

O RING KIT - COM

GENERIC O-RING KIT - NITRILE 90 DURO





POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY
006	2.895 x 1.778	20	**113**	15.59 x 1.778	20	**216**	29.87 x 1.778	20
007	3.683 x 1.778	20	**114**	16.35 x 2.209	16	**217**	29.74 x 2.946	12
008	4.470 x 1.778	20	**115**	18.77 x 1.778	20	**218**	34.64 x 1.778	19
009	5.283 x 1.778	20	**116**	19.17 x 2.463	14	**219**	32.91 x 3.530	10
010	8.915 x 1.828	18	**210**	18.64 x 3.530	10	**220**	37.82 x 1.778	20
011	7.645 x 1.778	19	**211**	23.52 x 1.778	20	**221**	37.46 x 2.997	12
012	9.245 x 1.778	20	**212**	25.12 x 1.778	20	**222**	37.69 x 3.530	10
110	10.51 x 1.828	19	**213**	23.46 x 2.946	12	**325**	44.17 x 1.778	19
111	11.88 x 1.981	18	**214**	24.99 x 3.530	10	**326**	43.68 x 2.997	12
112	12.42 x 1.778	20	**215**	26.59 x 2.946	11	**327**	47.21 x 3.530	10

O RING KIT - ORFS

ORFS O-RING KIT - NITRILE 90 DURO



DESCRIPTION	DIMENSIONS	QUANTITY
9/16 ORFS O-RING	7.7 x 1.78	20
11/16 ORFS O-RING	9.3 x 1.78	20
13/16 ORFS O-RING	12.4 x 1.78	20
1 ORFS O-RING	15.6 x 1.78	20
1 1/16 PRFS O-RING	18.8 x 1.78	10
1 7/16 ORFS O-RING	23.5 x 1.78	10
1 11/16 ORFS O-RING	29.9 x 1.78	10
1 1/2 ORFS O-RING	37.8 x 1.78	10

O RING KIT – BSP

REPLACEMENT O-RING KIT FOR SEALING FACE OF K & J SERIES BSP FEMALE FITTINGS



ITEM	QUANTITY
45 Degree Pick	1
Hook	1
¼" O-Ring	5
3/8" O-Ring	5
½" O-Ring	5
1" O-Ring	5
1-1/4" O-Ring	5
1-1/2" O-Ring	5

O-RING-TOOLS

O-RING PULLER PICK & HOOK SET



TOOL	QUANTITY
Straight Pick	1
45 Degree Pick	1
90 Degree Pick	1
Hook	1

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QRC & PBR

POPPET OCCLUSION

PAV1 - QRC POPPET (ISO A) TYPE X BSPP FEMALE THREAD



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PDV1 - QRC POPPET TYPE X BSPP FEMALE THREAD



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PPV1 - QRC POPPET PUSH/ PULL X BSPP FEMALE THREAD



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PKKL - QRC POPPET PRESSURE RELEASE X BSPP FEMALE THREAD



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BALL OCCLUSION

PDS1 - QRC BALL TYPE X BSPP FEMALE THREAD



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FLAT FACE OCCLUSION

PLT1 - QRC FLAT FACE TYPE X BSPP FEMALE THREAD



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SCREW TYPE

PVV3 - QRC SCREW TYPE X BSPP FEMALE THREAD



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VDV1 - QRC SCREW (VV) TYPE X BSPP FEMALE THREAD



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PBR COUPLER

PBR COUPLER



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SILFLO BRANDED QRC'S

SFPDV1 - SILFLO QRC POPPET TYPE X BSPP FEMALE THREAD



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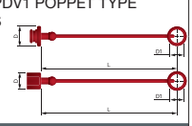
SFPAV1 - QRC POPPET (ISO A)



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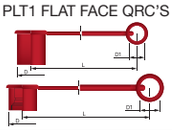
DUST COVERS

SPDV - PLASTIC COVERS TO SUIT PDV1 POPPET TYPE QRC'S



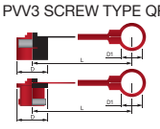
PAGE 150

SPLT1 - PLASTIC COVERS TO SUIT PLT1 FLAT FACE QRC'S



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SPVV - PLASTIC COVERS TO SUIT PVV3 SCREW TYPE QRC



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COMPATIBILITY CHART

Use the compatibility chart to check existing Quick Release Couplers against BOA equivalents.

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ABOUT DNP

PREMIUM QUALITY

Located in Brugherio, Italy, DNP Industriale S.r.l. is one of the leading manufacturers of hydraulic quick disconnect couplings globally.

Since 1985, privately owned DNP Industriale has developed and manufactured more than 4,000 different types and 70 series of quick release couplings for the hydraulic industry.

BOA is pleased to partner with DNP to bring premium quality, excellent customer service, short lead times and reasonable prices to the NZ market, the principles that have been the basis for satisfied customers and long-term partnerships with DNP.

PAV1 - QRC POPPET (ISO A) TYPE X BSPP FEMALE THREAD





TECHNICAL DATA

- Standard: ISO 7241-1 A
- Occlusion: poppet
- Locking: radial balls
- Material: steel
- Finishing: Zn-Fe (Cr III)
- Standard seals: NBR
- Working temperature: -25 °C +100 °C
- Working pressure: 160-350 bar
- Connection under pressure: not allowed

								MIN BURST PRESSURE				
CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	MAX FLOW RATE	MALE	FEMALE	COUPLED	FLUID SPILLAGE	DIAMETER
		ISO	mm	Mpa	PSI	l/min	l/min	Mpa	Mpa	Mpa	cc	mm
PAV1-1010002	3/8 QRC POPPET (ISO A) 30mm FEMALE	10	8.5	35	5000	23	46	140	150	150	1.9	18.5
PAV1-1010003	3/8 QRC POPPET (ISO A) 30mm MALE	10	8.5	35	5000	23	46	140	150	150	1.9	17.2
PAV1-2019002	3/4 QRC POPPET (ISO A) 29mm FEMALE	19	15.7	25	3626	106	190	100	120	110	8.6	30.8
PAV1-2019003	3/4 QRC POPPET (ISO A) 29mm MALE	19	15.7	25	3626	106	190	100	120	110	8.6	29
PAV1-2525002	1QRC POPPET (ISO A) - FEMALE	25	16.6	25	3626	189	250	120	110	100	13	36.8
PAV1-2525003	1QRC POPPET (ISO A) - MALE	25	16.6	25	3626	189	250	120	110	100	13	34.3

PDV1 - QRC POPPET TYPE X BSPP FEMALE THREAD





TECHNICAL DATA

- Occlusion: poppet
- Locking: radial balls
- Material: steel
- Finishing: Zn-Fe (Cr III)
- Standard seals: NBR
- Working temperature: -25 °C +100 °C
- Optional seals: FKM, EPDM or more
- Working pressure: 100-400 bar
- Connection under pressure: not allowed

								MIN BURST PRESSURE				
CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	MAX FLOW RATE	MALE	FEMALE	COUPLED	FLUID SPILLAGE	DIAMETER
		ISO	mm	Mpa	PSI	l/min	l/min	Mpa	Mpa	Mpa	cc	mm
PDV1-0606002	1/4 QRC POPPET - FEMALE	6.3	6.5	40	5802	12	24	160	170	170	1	17.1
PDV1-0606003	1/4 QRC POPPET - MALE	6.3	6.5	40	5802	12	24	160	170	170	1	14.1
PDV1-1010002	3/8 QRC POPPET - FEMALE	10	8.5	35	5076	23	46	150	170	150	2.4	21.7
PDV1-1010003	3/8 QRC POPPET - MALE	10	8.5	35	5076	23	46	150	170	150	2.4	18.9
PDV1-1313002	1/2 QRC POPPET - FEMALE	12.5	10.5	25	3626	45	90	100	140	120	2.7	23.8
PDV1-2019003	1/2 QRC POPPET - MALE	12.5	10.5	25	3626	45	90	100	140	120	2.7	20.4
PDV1-2019002	3/4 QRC POPPET - FEMALE	19	15.7	25	3626	106	190	100	120	110	8.6	31.2
PDV1-2525003	3/4 QRC POPPET - MALE	19	15.7	25	3626	106	190	100	120	110	8.6	27.9
PDV1-2525002	1 QRC POPPET - FEMALE	25	16.6	25	3626	189	250	120	110	100	13	34.7
PDV1-3031003	1 QRC POPPET - MALE	25	16.6	25	3626	189	250	120	110	100	13	31.2
PDV1-3031002	1 1/4 QRC POPPET - FEMALE	31.5	22.8	22	3191	288	480	100	90	100	30	NO STOCK
PDV1-3031003	1 1/4 QRC POPPET - MALE	31.5	22.8	22	3191	288	480	100	90	100	30	NO STOCK

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PPV1 - QRC POPPET PUSH/PULL X BSPP FEMALE THREAD

USE WITH PDV1 POPPET TYPE MALE



TECHNICAL DATA

- Standard: ISO 7241-1 A
- Sleeve: double acting
- Occlusion: poppet
- Locking: radial balls
- Material: steel
- Finishing: Zn-Fe (Cr III)
- Standard seals: NBR

								MIN BURST PRESSURE				
CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	MAX FLOW RATE	MALE	FEMALE	COUPLED	FLUID SPILLAGE	DIAMETER
		ISO	mm	Mpa	PSI	l/min	l/min	Mpa	Mpa	Mpa	cc	mm
PPV1-1313002	1/2 QRC PUSH/PULL - FEMALE	12.5	10.5	25	3626	45	90	100	160	120	2.7	23.8

PKKL - QRC POPPET PRESSURE RELEASE X BSPP FEMALE THREAD

USE WITH PDV1 POPPET TYPE FEMALE COUPLER



TECHNICAL DATA

- Standard: ISO 7241-1 A
- Sleeve: double acting
- Occlusion: decompression valve
- Finishing: Zn-Fe (Cr III)
- Locking: radial balls
- Material: steel
- Finishing: Zn-Fe (Cr III)
- Working pressure: 100-400 bar
- Connection under pressure: not allowed

								MIN BURST PRESSURE				
CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	MAX FLOW RATE	MALE	FEMALE	COUPLED	FLUID SPILLAGE	DIAMETER
		ISO	mm	Mpa	PSI	l/min	l/min	Mpa	Mpa	Mpa	cc	mm
PKKL-1313003	1/2 QRC PRESSURE RELEASE - MALE	12.5	10.5	25	3626	45	90	100	150	110	2.7	NO STOCK

BALL OCCLUSION

PDS1 - QRC BALL TYPE X BSPP FEMALE THREAD





TECHNICAL DATA

- Occlusion: ball
- Locking: radial balls
- Material: steel
- Finishing: Zn-Fe (Cr III)
- Threads: BSP - NPT - SAE
- Standard seals: NBR
- Working temperature: -25 °C +100 °C
- Optional seals: FKM, EPDM or more
- Working pressure: 200-300 bar
- Connection under pressure: not allowed

								MIN BURST PRESSURE				
CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	MAX FLOW RATE	MALE	FEMALE	COUPLED	FLUID SPILLAGE	DIAMETER
		ISO	mm	Mpa	PSI	l/min	l/min	Mpa	Mpa	Mpa	cc	mm
PDS1-0606002	1/4 QRC BALL TYPE - FEMALE	6.3	5.3	30	4351	12	20	120	120	150	0.5	17.1
PDS1-0606003	1/4 QRC BALL TYPE - MALE	6.3	5.3	30	4351	12	20	120	120	150	0.5	14.1
PDS1-1010002	3/8 QRC BALL TYPE - FEMALE	10	7.4	25	3626	23	35	100	100	160	1.4	21.7
PDS1-1010003	3/8 QRC BALL TYPE - MALE	10	7.4	25	3626	23	35	100	100	160	1.4	18.9
PDS1-1313002	1/2 QRC BALL TYPE - FEMALE	12.5	8.9	20	2901	30	55	80	95	130	1.9	23.8
PDS1-1313003	1/2 QRC BALL TYPE - MALE	12.5	8.9	20	2901	30	55	80	95	130	1.9	20.4
PDS1-2019002	3/4 QRC BALL TYPE - FEMALE	19	12.4	20	2901	60	120	80	110	120	4.6	31.2
PDS1-2019003	3/4 QRC BALL TYPE - MALE	19	12.4	20	2901	60	120	80	110	120	4.6	27.8
PDS1-2525002	1 QRC BALL TYPE - FEMALE	25	13.1	20	2901	80	160	85	110	100	5.9	34.6
PDS1-2525003	1 QRC BALL TYPE - MALE	25	13.1	20	2901	80	160	85	110	100	5.9	31.2

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FLAT FACE OCCULSION

PLT1 - QRC FLAT FACE TYPE X BSPP FEMALE THREAD





TECHNICAL DATA

- Standard: ISO 16028
- Occlusion: flat face
- Locking: radial balls
- Material: steel
- Finishing: Zn-Fe (Cr III)
- Working temperature: -25 °C +100 °C
- Standard seals: NBR
- Working pressure: 250-300 bar
- Connection under pressure: not allowed

								MIN BURST PRESSURE				
CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	MAX FLOW RATE	MALE	FEMALE	COUPLED	FLUID SPILLAGE	DIAMETER
		ISO	mm	Mpa	PSI	l/min	l/min	Mpa	Mpa	Mpa	cc	mm
PLT1-0606002	1/4 QRC FLAT FACE - FEMALE	6.3	6	30	4351	12	24	180	120	140	0.008	16.5
PLT1-0606003	1/4 QRC FLAT FACE - MALE	6.3	6	30	4351	12	24	180	120	140	0.008	16.1
PLT1-1310002	3/8 QRC FLAT FACE - FEMALE	10	8.6	25	3626	23	46	160	100	160	0.01	???
PLT1-1310003	3/8 QRC FLAT FACE - MALE	10	8.6	25	3626	23	46	160	100	160	0.01	???
PLT1-1313002	1/2 QRC FLAT FACE - FEMALE	10	8.6	25	3626	23	46	160	100	160	0.01	???
PLT1-1313003	1/2 QRC FLAT FACE- MALE	10	8.6	25	3626	23	46	160	100	160	0.01	???
PLT1-2019002	3/4 QRC FLAT FACE - FEMALE	12.5	10.7	25	3626	45	90	150	110	190	0.012	24.8
PLT1-2019003	3/4 QRC FLAT FACE - MALE	12.5	10.7	25	3626	45	90	150	110	190	0.012	24.5
PLT1-2525002	1 QRC FLAT FACE - FEMALE	19	14.8	25	3626	100	200	140	110	140	0.02	30.2
PLT1-2525003	1 QRC FLAT FACE - MALE	19	14.8	25	3626	100	200	140	110	140	0.02	29.9
PLT1-3031002	1 1/4 QRC FLAT FACE - FEMALE	25	17.6	25	3626	189	280	130	100	140	0.03	36.2
PLT1-3031003	1 1/4 QRC FLAT FACE - MALE	25	17.6	25	3626	189	280	130	100	140	0.03	35.9

PBR COUPLER

PBR COUPLER

PBR TRANSPORT COUPLER X BSPP FEMALE THREAD



TECHNICAL DATA

- Interchange: PBR series
- Occlusion: poppet
- Locking: radial balls
- Material: steel
- Finishing: Zn-Fe (Cr III)
- Standard seals: NBR
- Working temperature: -25 °C +100 °C
- Working pressure: 220-300 bar
- Connection under pressure: not allowed

								MIN BURST PRESSURE				
CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	MAX FLOW RATE	MALE	FEMALE	COUPLED	FLUID SPILLAGE	DIAMETER
		ISO	mm	Mpa	PSI	l/min	l/min	Mpa	Mpa	Mpa	cc	mm
PBR12-FP	3/4 PBR COUPLER (ISO A) FEMALE PROBE	19	15.7	25	3626	106	190	100	120	110	8.6	NO CODE, NO STOCK
PBR12-MP	3/4 PBR COUPLER (ISO A) MALE PROBE	19	15.7	25	3626	106	190	100	120	110	8.6	NO CODE, NO STOCK
PBR16-FP	1 PBR COUPLER - FEMALE PROBE	25	17.3	25	4351	200	400	140	130	130	130	43
PBR16-MP	1 PBR COUPLER - MALE PROBE	25	17.3	25	4351	200	400	140	130	130	130	37.8

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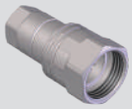
SCREW TYPE

HOW TO IDENTIFY MALE AND FEMALE SCREW TYPE COUPLERS

Determining screw type QRC's can often be confusing. Use these images to ensure you are ordering the correct part.


PVV3 Screw type female


PVV3 Screw type male


VDV1 Screw type female


VDV1 Screw type male

PVV3 - QRC SCREW TYPE X BSPP FEMALE THREAD


Female


Male

TECHNICAL DATA

- Standard: ISO 14541
- Occlusion: poppet
- Locking: screw
- Material: steel
- Finishing: Zn-Fe (Cr III)
- Working temperature: -25 °C +100 °C
- Working pressure: 300-450 bar
- Connection under pressure: allowed (both male or female side)
- Max residual pressure: working pressure

								MIN BURST PRESSURE				
CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	MAX FLOW RATE	MALE	FEMALE	COUPLED	FLUID SPILLAGE	DIAMETER
		ISO	mm	Mpa	PSI	l/min	l/min	Mpa	Mpa	Mpa	cc	mm
PVV3-0606112	1/4 QRC SCREW TYPE - FEMALE	6.3	5	45	6527	12	17	190	270	250	0.8	23.7
PVV3-0606113	1/4 QRC SCREW TYPE - MALE	6.3	5	45	6527	12	17	190	270	250	0.8	24.5
PVV3-1010112	3/8 QRC SCREW TYPE - FEMALE	10	8.5	40	5802	23	46	130	150	180	1.9	27.3
PVV3-1010113	3/8 QRC SCREW TYPE - MALE	10	8.5	40	5802	23	46	130	150	180	1.9	28.5
PVV3-1313112	1/2 QRC SCREW TYPE - FEMALE	12.5	10.5	40	5802	45	90	120	150	140	2.7	35.7
PVV3-1313113	1/2 QRC SCREW TYPE - MALE	12.5	10.5	40	5802	45	90	120	150	140	2.7	36.6
PVV3-2019112	3/4 QRC SCREW TYPE - FEMALE	19	15.7	30	4351	106	190	100	130	140	9.3	41.8
PVV3-2019113	3/4 QRC SCREW TYPE - MALE	19	15.7	30	4351	106	190	100	130	140	9.3	42.8
PVV3-2525112	1 BSP QRC SCREW TYPE - FEMALE	25	17.3	30	4351	189	280	100	130	140	16	48.0
PVV3-2525113	1 BSP QRC SCREW TYPE - MALE	25	17.3	30	4351	189	280	100	130	140	16	49.6
PVV3-3031112	1 BSP QRC SCREW TYPE - FEMALE	25	29.6	30	4351	288	480	100	100	100	30	69.8
PVV3-3031113	1 BSP QRC SCREW TYPE - MALE	25	29.6	30	4351	288	480	100	100	100	30	71.6

VDV1 - QRC SCREW (VV) TYPE X BSPP FEMALE THREAD

FEMALE COUPLER COMPATIBLE WITH PAV1 MALE COUPLER


Female


Male

TECHNICAL DATA

- Occlusion: poppet
- Locking: screw and radial balls
- Material: steel
- Finishing: Zn-Fe (Cr III)
- Standard seals: NBR
- Working temperature: -25 °C +100 °C
- Working pressure: 230-300 bar
- Connection under pressure: allowed (both male or female side)

								MIN BURST PRESSURE				
CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	MAX FLOW RATE	MALE	FEMALE	COUPLED	FLUID SPILLAGE	DIAMETER
		ISO	mm	Mpa	PSI	l/min	l/min	Mpa	Mpa	Mpa	cc	mm
VDV1-1313002	1/2 QRC SCREW (VV) TYPE - FEMALE	12.5	10.5	30	4351	45	90	100	160	160	3	32.1
VDV1-1313003	1/2 QRC SCREW (VV) TYPE - MALE	12.5	10.5	30	4351	45	90	100	160	160	3	33.8
VDV1-2019002	3/4 QRC SCREW (VV) TYPE - FEMALE	19	13.7	25	3626	106	220	100	100	130	10	41.5
VDV1-2019003	3/4 QRC SCREW (VV) TYPE - MALE	19	13.7	25	3626	106	220	100	100	130	10	42.5
VDV1-2525002	1 QRC SCREW (VV) TYPE - FEMALE	25	15.6	23	3336	189	260	60	90	70	15	48.3
VDV1-2525003	1 QRC SCREW (VV) TYPE - MALE	25	15.6	23	3336	189	260	60	90	70	15	50.2

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SFPDV1 - SILFLO QRC POPPET TYPE X BSPP FEMALE THREAD

- COMPATIBLE WITH DNP PDV1 SERIES
- PARKER 60 SERIES
- FASTER HNV SERIES
- AEROQUIP FD45 SERIES
- HANSEN HK SERIES





TECHNICAL DATA

- **Temperature Range: -20° to +120°**
- **Seal Material: NBR**
- **Standard: ISO 7421-B**

CODE	DESCRIPTION	NOMINAL SIZE		NOMINAL SIZE		RATED FLOW	DIAMETER
		ISO	mm	Mpa	PSI	l/min	mm
PDV1-0606F	SILFLO 1/4 QRC POPPET - FEMALE	6.3	6.5	34	5000	11	???
PDV1-0606M	SILFLO 1/4 QRC POPPET - MALE	6.3	6.5	34	5000	11	???
PDV1-1010F	SILFLO 3/8 QRC POPPET - FEMALE	10	8.5	35	4000	22	21.8
PDV1-1010M	SILFLO 3/8 QRC POPPET - MALE	10	8.5	35	4000	22	18.9
PDV1-1313F	SILFLO 1/2 QRC POPPET - FEMALE	12.5	10.5	25	4000	45	23.9
PDV1-1313M	SILFLO 1/2 QRC POPPET - MALE	12.5	10.5	25	4000	45	20.5
PDV1-2019M	SILFLO 3/4 QRC POPPET - MALE	19	15.7	25	4000	45	27.4
PDV1-2019F	SILFLO 3/4 QRC POPPET - FEMALE	19	15.7	25	4000	45	31.3

SFPAV1 - QRC POPPET (ISO A)

- COMPATIBLE WITH DNP PDV1 SERIES





TECHNICAL DATA

- **Temperature Range: -20° to +120°**
- **Seal Material: NBR**
- **Standard: ISO 7421-A**

CODE	DESCRIPTION	NOMINAL SIZE		MAX WORKING PRESSURE		RATED FLOW	DIAMETER
		ISO	mm	Mpa	PSI	l/min	mm
PAV1-2019F	3/4 QRC POPPET (ISO A) 29mm FEMALE	6.3	6.5	34	5000	11	30.7
PAV1-2019M	3/4 QRC POPPET (ISO A) 29mm MALE	6.3	6.5	34	5000	11	28.9

Your **onsite** hydraulic hose repair & maintenance unit.

For simple instructions to get you started, see page 7



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QRC COMPATIBILITY CHART

BOA PART NUMBER	PARKER	FASTER	STUCCHI	VOSWINKEL	INTEVA	TCH CONTITECH	EATON	SAFEWAY	TEMA	SNAP-TITE	CEJN	STAUBLI	DIXON
PAV1-0606002	6603-4-4 or IA-251-4FB	ANV 14 GAS F	800500000 F BIR14 BSP		101.12111AB		G5622-4-4		TIA2510	61C4-4RP	10 395 1202		2KBF2
PAV1-0606003	6605-4-4 or IA-252-4FB	ANV 14 GAS M	800500001 M BIR14 BSP		101.11111AB		G5623-4-4		TIA2520	61N4-4RP	10 395 6202		K2BF2
PAV1-1010002	6603-6-6 or IA-371-6FB	ANV 38 GAS F	800500002 F BIR38 BSP		101.12112AC		G5622-6-6		TIA3810	61C6-6RP	10 495 1204		3KBF3
PAV1-1010003	6605-6-6 or IA-372-6FB	ANV 38 GAS M	800500003 M BIR38 BSP	HP08A2-IGF06	101.11112AC		G5623-6-6		TIA3820	61N6-6RP	10 495 6204		K3BF3
PAV1-1313002	6603-8-10 or IA-501-8FB or 4V14G4X4-B	NV 12 GAS F	800500004 F BIR12 BSP		101.12113AD		G5622-8-10 o HA 05031 00	S25-4P-BSP	TIA5010	61C8-8RP	10 595 1205		4KBF4 or 4AGBF4-PV
PAV1-1313003	6605-8-10 or IA-502-8FB	NV 12 GAS M	800500005 M BIR12 BSP	HP10-2-IGF08	101.11113AD		G5623-8-10 o HA 05032 00	S561-4-BSP	TIA5020	61N8-8RP	10 595 6205		K4BF4 or AG4BF4-PV
PAV1-2019002	6603-12-12 or IA-751-12FB	ANV 34 GAS F	800500006 F BIR34 BSP		101.12114AE		G5622-12-12		TIA7510	61C12-12RP	10 695 1201		6KBF6
PAV1-2019003	6605-12-12 or IA-752-12FB	ANV 34 GAS M	800500007 M BIR34 BSP		101.11114AE		G5623-12-12		TIA7520	61N12-12RP	10 695 6201		K6BF6
PAV1-2525002	6603-16-16 or IA-1001-16FB	ANV 1 GAS F	800500008 F BIR100 BSP		101.12115AF		G5622-16-16		TIA10010	61C16-16RP	10 795 1203		8KBF8
PAV1-2525003	6605-16-16 or IA-1002-16FB	ANV 1 GAS M	800500009 M BIR100 BSP		101.11115AF		G5623-16-16		TIA10020	61N16-16RP	10 795 6203		K8BF8
-													
PDS1-0606002	4050-27	NS 14 GAS F	800000000 F IR14 BSP		104.12211AB								
PDS1-0606003	4010-27	NS 14 GAS M	800000001 M IR14 BSP		104.11211AB								
PDS1-1010002	4050-28	NS 38 GAS F	800000002 F IR38 BSP		104.12212AC								
PDS1-1010003	4010-28	NS 38 GAS M	800000003 M IR38 BSP		104.11212AC								
PDS1-1313002	4050-29BSPP	NS 12 GAS F	800000004 F IR12 BSP		101.12213AD								4AGBF4
PDS1-1313003	8010-29BSPP or 4014G4X4	NS 12 GAS M	800000005 M IR12 BSP		101.11213AD								AG4BF4
PDS1-2019002		NS 34 GAS F	800000020 F IR34 FA BSP		104.12214AE								
PDS1-2019003		NS 34 GAS M	800000021 M IR34 FA BSP		104.11214AE								
PDS1-2525002		NS 1 GAS F	800000008 F IR100 BSP		104.12215AF								
PDS1-2525003		NS 1 GAS M	800000009 M IR100 BSP		104.11215AF								
-													
PDV1-0606002		NV 14 GAS F	800100000 F IR14V BSP		104.12111AB		HA 05011 00			60C4-4RP			
PDV1-0606003		NV 14 GAS M	800100001 M IR14V BSP		104.11111AB		HA 05012 00			60N4-4RP			
PDV1-1010002		NV 38 GAS F	800100002 F IR38V BSP		104.12112AC		HA 05021 00			60C6-6RP			
PDV1-1010003		NV 38 GAS M	800100003 M IR38V BSP		104.11112AC		HA 05022 00	S41-3P-BSP		60N6-6RP			
PDV1-2019002		NV 34 GAS F	820000022 F IR34V FA BSP		104.12114AE		HA 05041 00						
PDV1-2019003		NV 34 GAS M	820000023 M IR34V FA BSP		104.11114AE		HA 05042 00						
PDV1-2525002		NV 1 GAS F	800100006 F IR100V BSP		104.12115AF								
PDV1-2525003		NV 1 GAS M	800100007 M IR100V BSP		104.11115AF								

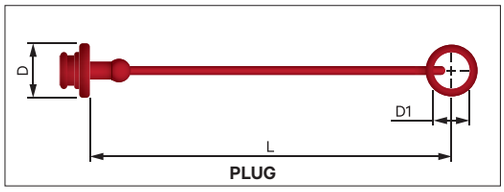
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BOA PART NUMBER	PARKER	FASTER	STUCCHI	VOSWINKEL	INTEVA	TCH CONTITECH	EATON	SAFEWAY	TEMA	SNAP-TITE	CEJN	STAUBLI	DIXON
PLT1-0606002	FEF-251-4FB		800800000 F FIRG 14 BSP		130.12111AB				TIF2510	74C4-4RP	10 262 1202	MPX 06.1101	
PLT1-0606003	FEF-252-4FB		800800001 M FIRG 14 BSP		130.11111AB				TIF2520	74N4-4RP	10 262 6202	MPX 06.7101	
PLT1-1310002	FF-371-6FB		800800004 F FIRG 38 BSP		130.12112AC				TIF3810	74C6-6RP	10 362 1204	MPX 10.1102	
PLT1-1310003	FF-372-6FB		800800005 M FIRG 38 BSP		130.11112AC				TIF3820	74N6-6RP	10 362 6204	MPX 10.7102	
PLT1-1313002	FF-371-8FB		800800002 F FIRG 12 BSP		130.12112AD				TIF3810-50	74C6-8RP		MPX 10.1103	
PLT1-1313003	FF-372-8FB		800800003 M FIRG 12 BSP		130.11112AD				TIF3820-50	74N6-8RP		MPX 10.7103	
PLT1-2013002	FEF-501-8FB		800800006 F FIRG 12A BSP		130.12113AD				TIF5010	74C8-8RP	10 562 1205	MPX 12.1103	
PLT1-2013003	FEF-502-8FB		800800007 M FIRG 12A BSP		130.11113AD				TIF5020	74N8-8RP	10 562 6205	MPX 12.7103	
PLT1-2019002	FEF-501-12FB		800800008 F FIRG 34 BSP		130.12113AE				TIF5010-75	74C8-12RP		MPX 12.1104	
PLT1-2019003	FEF-502-12FB		800800009 M FIRG 34 BSP		130.11113AE				TIF5020-75	74N8-12RP		MPX 12.7104	
PLT1-2525002	FEF-751-16FB		800800012 F FIRG 100 BSP		130.12115AF				TIF7510-100	74C12-16RP		MPX 19.1105	
PLT1-2525003	FEF-752-16FB		800800013 M FIRG 100 BSP		130.11115AF				TIF7520-100	74N12-16RP		MPX 19.7105	
-													
PVV3-0606112			809500006 F VD14 1/4 BSP	HS04-1-IGF04	205.12111AB	61 6511 106 063							CVV2BF2
PVV3-0606113			809500007 M VD14 1/4 BSP	HS04-2-IGF04	205.11111AB	62 6511 106 063							2CVVBF2
PVV3-1010112	QHPA53-G4X3		809500010 F VD38 3/8 BSP	HS08-1-IGF06	205.12112AC	61 6511 210 063							CVV3BF3
PVV3-1010113	QHPA13-G4X3		809500011 M VD38 3/8 BSP	HS08-2-IGF06	205.11112AC	62 6511 210 063							3CVVBF3
PVV3-1313112	QHPA54-G4X4	CVV 08 12GAS F	809500002 F VD12 1/2 BSP	HS10-1-IGF08	205.12113AD	61 6511 313 063							CVV4BF4
PVV3-1313113	QHPA14-G4X4	CVV 08 12GAS M	809500003 M VD12 1/2 BSP	HS10-2-IGF08	205.11113AD	62 6511 313 063							4CVVBF4
PVV3-2019112			809500016 F VD34 3/4 BSP	HS12-1-IGF12	205.12114AE	61 6511 420 063							CVV6BF6
PVV3-2019113			809500017 M VD34 3/4 BSP	HS12-2-IGF12	205.11114AE	62 6511 420 063							6CVVBF6
PVV3-2525112	QHPA56-G4X8	CVV 16 1GAS F	809500020 F VD100 1 BSP	HS20-1-IGF16	205.12115AF	61 6511 625 063							CVV8BF8
PVV3-2525113	QHPA16-G4X8	CVV 16 1GAS M	809500021 M VD100 1 BSP	HS20-2-IGF16	205.11115AF	62 6511 625 063							8CVVBF8
PVV3-3031112			809500022 F VD114 1-1/4 BSP	HS25-1-IGF20	205.12116AG								CVV10BF10
PVV3-3031113				HS25-2-IGF20	215.11116AG								

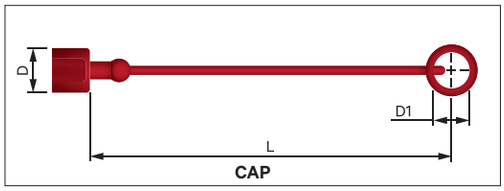
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QRC PLASTIC COVERS

SPDV - PLASTIC COVERS TO SUIT PDV1 POPPET TYPE AND PDS1 BALL TYPE QRC'S



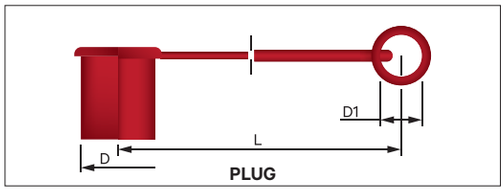
PLUG



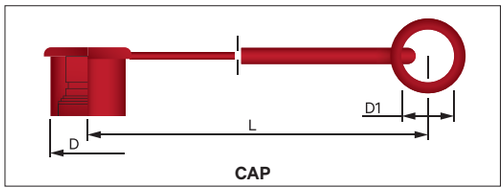
CAP

CODE	DESCRIPTION	TO SUIT
SPDV-06002	1/4 POPPET DUST PLUG - RED PLASTIC	PDV1-0606002 & PDS1-0606002
SPDV-06003	1/4 POPPET DUST CAP - RED PLASTIC	PDV1-0606003 & PDS1-0606003
SPDV-10002	3/8 POPPET DUST PLUG - RED PLASTIC	PDV1-1010002 & PDS1-1010002
SPDV-10003	3/8 POPPET DUST CAP - RED PLASTIC	PDV1-1010003 & PDS1-1010003
SPDV-13002	1/2 POPPET DUST PLUG - RED PLASTIC	PDV1-1313002 & PDS1-1313002
SPDV-13003	1/2 POPPET DUST CAP - RED PLASTIC	PDV1-1313003 & PDS1-1313002
SPDV-20002	3/4 POPPET DUST PLUG - RED PLASTIC	PDV1-2019002 & PDS1-2019002
SPDV-20003	3/4 POPPET DUST CAP - RED PLASTIC	PDV1-2019003 & PDS1-2019003
SPDV-25002	1 POPPET DUST PLUG - RED PLASTIC	PDV1-2525002 & PDS1-2525002
SPDV-25003	1 POPPET DUST CAP - RED PLASTIC	PDV1-2525003 & PDS1-2525003

SPLT1 - PLASTIC COVERS TO SUIT PLT1 FLAT FACE QRC'S



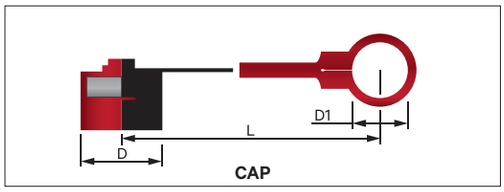
PLUG



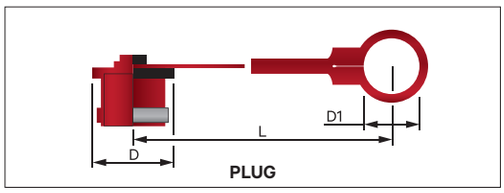
CAP

CODE	DESCRIPTION	TO SUIT
SPLT-06002	1/4 FLAT FACE DUST PLUG - RED PLASTIC	PLT1-0606002
SPLT-06003	1/4 FLAT FACE DUST CAP - RED PLASTIC	PLT1-0606003
SPLT-13002	3/8 & 1/2 FLAT FACE DUST PLUG - RED PLASTIC	PLT1-1310002 & PLT1-1313002
SPLT-13003	3/8 & 1/2 FLAT FACE DUST CAP - RED PLASTIC	PLT1-1310003 & PLT1-1313003
SPLT-20002	3/4 FLAT FACE DUST PLUG - RED PLASTIC	PLT1-2019002
SPLT-20003	3/4 FLAT FACE DUST CAP - RED PLASTIC	PLT1-2019003
SPLT-25002	1 FLAT FACE DUST PLUG - RED PLASTIC	PLT1-2525002
SPLT-25003	1 FLAT FACE DUST CAP - RED PLASTIC	PLT1-2525003

SPVV - PLASTIC COVERS TO SUIT PVV3 SCREW TYPE QRC



CAP



PLUG

CODE	DESCRIPTION	TO SUIT
SPVV-06002	1/4 SCREW TOGETHER DUST PLUG - RED PLASTIC	PVV3-0606112
SPVV-06003	1/4 SCREW TOGETHER DUST CAP - RED PLASTIC	PVV3-0606113
SPVV-10002	3/8 SCREW TOGETHER DUST PLUG - RED PLASTIC	PVV3-1010112
SPVV-10003	3/8 SCREW TOGETHER DUST CAP - RED PLASTIC	PVV3-1010113
SPVV-13002	1/2 SCREW TOGETHER DUST PLUG - RED PLASTIC	PVV3-1313112
SPVV-13003	1/2 SCREW TOGETHER DUST CAP - RED PLASTIC	PVV3-1313113
SPVV-20002	3/4 SCREW TOGETHER DUST PLUG - RED PLASTIC	PVV3-2019112
SPVV-20003	3/4 SCREW TOGETHER DUST CAP - RED PLASTIC	PVV3-2019113
SPVV-25002	1 SCREW TOGETHER DUST PLUG - RED PLASTIC	PVV3-2525112
SPVV-25003	1 SCREW TOGETHER DUST CAP - RED PLASTIC	PVV3-2525113

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2	YOUR PERSONALISED SOLUTION		• We develop a proposal on how you can get the best out of your hydraulic machines.
3	APPROVE & SCHEDULE		• You approve your quote and we schedule a setup and training date.
4	SET UP AND TRAINING		• We set up your site with your machinery and inventory. We then train and certify your crew.
5	ONGOING SUPPORT		• Ongoing support is provided by BOA to make sure you are getting the best out of your hydraulic hose solution.

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We are here to help!

FREE CALL 0800 20 20 20 | 1800 40 30 40 | +64 9 579 2103

IDENTIFYING STAINLESS STEEL PART NUMBERS

BOA's easy-to-use part numbering system for stainless steel fittings, ferrules & adaptors utilises the same principles as carbon steel components but introduces an 'X' at the beginning of the code.

EXAMPLES:



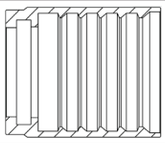


BOA stocks a range of common components in Stainless Steel ready for immediate dispatch.

If you have requirements for Stainless Steel hydraulic fittings, ferrules or adaptors, whether it be job lots or smaller quantities, please call 0800 20 20 20 | 1800 40 30 40 | +64 9 579 2103 or email sales@boahydraulics.com as we can source a large range of quality stainless components both locally and internationally.

FERRULES

XN3 - UNIVERSAL FERRULE
(1-2 WIRE) - S/S



PAGE 154

XN8 - STAINLESS STEEL
THERMOPLASTIC FERRULE



PAGE 154

316 STAINLESS

FITTINGS

BSP

X001 - STAINLESS STEEL
BSPP FEMALE X HOSETAIL



PAGE 154

BSP

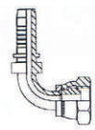
X015 - STAINLESS STEEL BSPT
MALE X HOSETAIL



PAGE 155

BSP

X051 - STAINLESS STEEL BSPP
FEMALE X HOSETAIL



PAGE 155

BSP

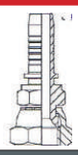
X060 - STAINLESS STEEL
BSPP FEMALE 45° SWEPT X
HOSETAIL



PAGE 155

JIC

X005 - STAINLESS STEEL JIC
FEMALE X HOSETAIL



PAGE 155

JIC

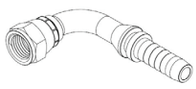
X018 - STAINLESS STEEL JIC
MALE X HOSETAIL



PAGE 155

JIC

X055 - STAINLESS STEEL
JIC FEMALE 90° SWEPT X
HOSETAIL



PAGE 156

JIC

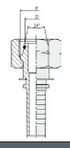
X064 - STAINLESS STEEL
JIC FEMALE 45° SWEPT X
HOSETAIL



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METRIC

X081 - STAINLESS STEEL
DKOL FEMALE METRIC
LIGHT X HOSETAIL



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ADAPTORS

BSP

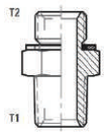
XAA - STAINLESS STEEL
BSPT MALE X BSPT MALE



PAGE 156

BSP

XAB - STAINLESS STEEL BSPT
MALE X BSPP MALE



PAGE 157

BSP

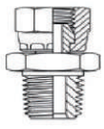
XBB - STAINLESS STEEL BSPP
MALE X BSPP MALE



PAGE 157

BSP

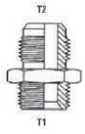
XAC - STAINLESS STEEL
BSPT MALE X BSPP FEMALE
SWIVEL



PAGE 157

BSP **JIC**

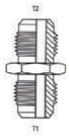
XBG - STAINLESS STEEL
BSPP MALE X JIC MALE



PAGE 157

JIC

XGG - STAINLESS STEEL JIC
MALE X JIC MALE



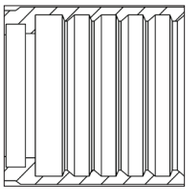
PAGE 157

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FERRULES

XN3 - UNIVERSAL FERRULE (1-2 WIRE) - S/S

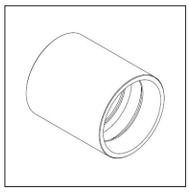
TO SUIT BOTH R1AT/1SN 1-WIRE & R2AT/2SN 2-WIRE HOSE



ITEM NUMBER	SIZE (HOSE ID)	DESCRIPTION
XN3-04	1/4"	1/4" UNIVERSAL FERRULE (1-2 WIRE) - S/S
XN3-05	5/16"	5/16" UNIVERSAL FERRULE (1-2 WIRE) - S/S
XN3-06	3/8"	3/8" UNIVERSAL FERRULE (1-2 WIRE) - S/S
XN3-08	1/2"	1/2" UNIVERSAL FERRULE (1-2 WIRE) - S/S
XN3-10	5/8"	5/8" UNIVERSAL FERRULE (1-2 WIRE) - S/S
XN3-12	3/4"	3/4" UNIVERSAL FERRULE (1-2 WIRE) - S/S
XN3-16	1"	1" UNIVERSAL FERRULE (1-2 WIRE) - S/S
XN3-20	1 1/4"	1 1/4" UNIVERSAL FERRULE (1-2 WIRE) - S/S
XN3-24	1 1/2"	1 1/2" UNIVERSAL FERRULE (1-2 WIRE) - S/S
XN3-32	2"	2" UNIVERSAL FERRULE (1-2 WIRE) - S/S

XN8 - STAINLESS STEEL THERMOPLASTIC FERRULE

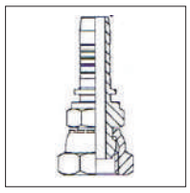
TO SUIT R7 & R8 THERMOPLASTIC HOSE



ITEM NUMBER	SIZE (HOSE ID)	DESCRIPTION
XN8-04	1/4"	1/4" THERMOPLASTIC FERRULE - S/S
XN8-06	3/8"	3/8" THERMOPLASTIC FERRULE - S/S
XN8-08	1/2"	1/2" THERMOPLASTIC FERRULE - S/S

FITTINGS

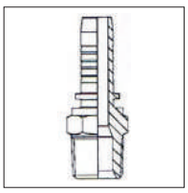
X001 - STAINLESS STEEL BSPP FEMALE X HOSETAIL



ITEM NUMBER	THREAD TYPE /FITTING TYPE	NOMINAL THREAD SIZE	NOMINAL PIPE SIZE	THREAD PHYSICAL OD/ID	TAIL SIZE (TO SUIT HOSE I.D.)	DESCRIPTION
X001-0404	BSPP Female	1/4”	1/4”	11.46	1/4"	1/4" BSPP FEMALE X 1/4" S/S SWAGE HOSETAIL
X001-0606	BSPP Female	3/8”	3/8”	14.96	3/8"	3/8" BSPP FEMALE X 3/8" S/S SWAGE HOSETAIL
X001-0806	BSPP Female	1/2”	1/2”	18.65	3/8"	1/2" BSPP FEMALE X 3/8" S/S SWAGE HOSETAIL
X001-0808	BSPP Female	1/2”	1/2”	18.65	1/2"	1/2" BSPP FEMALE X 1/2" S/S SWAGE HOSETAIL
X001-1208	BSPP Female	3/4”	3/4”	24.13	1/2"	3/4" BSPP FEMALE X 1/2" S/S SWAGE HOSETAIL
X001-1212	BSPP Female	3/4”	3/4”	24.13	3/4"	3/4" BSPP FEMALE X 3/4" S/S SWAGE HOSETAIL
X001-1616	BSPP Female	1”	1”	30.3	1"	1" BSPP FEMALE X 1" S/S SWAGE HOSETAIL
X001-2020	BSPP Female	1 - 1/4”	1 - 1/4”	38.97	1 - 1/4"	1 - 1/4" BSPP FEMALE X 1 - 1/4" S/S SWAGE HOSETAIL
X001-2424	BSPP Female	1 - 1/2”	1 - 1/2”	44.86	1 - 1/2"	1 - 1/2" BSPP FEMALE X 1 - 1/2" S/S SWAGE HOSETAIL
X001-3232	BSPP Female	2”	2”	56.67	2"	2" BSPP FEMALE X 2" S/S SWAGE HOSETAIL

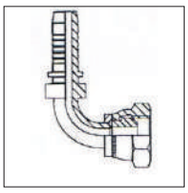
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X015 - STAINLESS STEEL BSPT MALE X HOSETAIL



ITEM NUMBER	THREAD SIZE	TAIL SIZE	DESCRIPTION
X015-0404	1/4"	1/4"	1/4" BSPT MALE X 1/4" S/S SWAGE HOSETAIL
X015-0606	3/8"	3/8"	3/8" BSPT MALE X 3/8" S/S SWAGE HOSETAIL
X015-0808	1/2"	1/2"	1/2" BSPT MALE X 1/2" S/S SWAGE HOSETAIL
X015-1212	3/4"	3/4"	3/4" BSPT MALE X 3/4" S/S SWAGE HOSETAIL
X015-1616	1"	1"	1" BSPT MALE X 1" S/S SWAGE HOSETAIL

X051 - STAINLESS STEEL BSPP FEMALE 90° X HOSETAIL



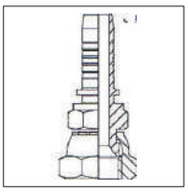
ITEM NUMBER	THREAD SIZE	TAIL SIZE	DESCRIPTION
X051-0404	1/4"	1/4"	1/4" BSPP FEMALE X 1/4" S/S SWAGE HOSETAIL
X051-0604	3/8"	1/4"	3/8" BSPP FEMALE X 1/4" S/S SWAGE HOSETAIL
X051-0606	3/8"	3/8"	3/8" BSPP FEMALE X 3/8" S/S SWAGE HOSETAIL
X051-0806	1/2"	3/8"	1/2" BSPP FEMALE X 3/8" S/S SWAGE HOSETAIL
X051-0808	1/2"	1/2"	1/2" BSPP FEMALE X 1/2" S/S SWAGE HOSETAIL
X051-1212	3/4"	3/4"	3/4" BSPP FEMALE X 3/4" S/S SWAGE HOSETAIL

X060 - STAINLESS STEEL BSPP FEMALE 45° SWEPT X HOSETAIL



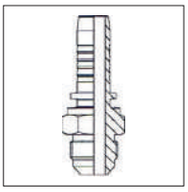
ITEM NUMBER	THREAD SIZE	TAIL SIZE	DESCRIPTION
X060-0404	1/4"	1/4"	1/4" BSPP FEMALE X 1/4" S/S SWAGE HOSETAIL
X060-0606	3/8"	3/8"	3/8" BSPP FEMALE X 3/8" S/S SWAGE HOSETAIL
X060-0808	1/2"	1/2"	1/2" BSPP FEMALE X 1/2" S/S SWAGE HOSETAIL
X060-1212	3/4"	3/4"	3/4" BSPP FEMALE X 3/4" S/S SWAGE HOSETAIL

X005 - STAINLESS STEEL JIC FEMALE X HOSETAIL



ITEM NUMBER	THREAD SIZE	TAIL SIZE	DESCRIPTION
X005-0704	7/16"	1/4"	7/16" JIC FEMALE X 1/4" S/S SWAGE HOSETAIL
X005-0804	1/2"	1/4"	1/2" JIC FEMALE X 1/4" S/S SWAGE HOSETAIL
X005-0904	9/16"	1/4"	9/16" JIC FEMALE X 1/4" S/S SWAGE HOSETAIL
X005-0906	9/16"	3/8"	9/16" JIC FEMALE X 3/8" S/S SWAGE HOSETAIL
X005-1206	3/4"	3/8"	3/4" JIC FEMALE X 3/8" S/S SWAGE HOSETAIL
X005-1406	7/8"	3/8"	7/8" JIC FEMALE X 3/8" S/S SWAGE HOSETAIL
X005-1208	3/4"	1/2"	3/4" JIC FEMALE X 1/2" S/S SWAGE HOSETAIL
X005-1408	7/8"	1/2"	7/8" JIC FEMALE X 1/2" S/S SWAGE HOSETAIL

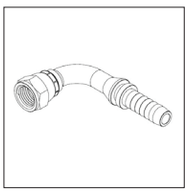
X018 - STAINLESS STEEL JIC MALE X HOSETAIL



ITEM NUMBER	THREAD SIZE	TAIL SIZE	DESCRIPTION
X018-0704	7/16"	1/4"	7/16" JIC MALE X 1/4" S/S SWAGE HOSETAIL
X018-0804	1/2"	1/4"	1/2" JIC MALE X 1/4" S/S SWAGE HOSETAIL
X018-0904	9/16"	1/4"	9/16" JIC MALE X 1/4" S/S SWAGE HOSETAIL
X018-0906	9/16"	3/8"	9/16" JIC MALE X 3/8" S/S SWAGE HOSETAIL
X018-1206	3/4"	3/8"	3/4" JIC MALE X 3/8" S/S SWAGE HOSETAIL
X018-1208	3/4"	1/2"	3/4" JIC MALE X 1/2" S/S SWAGE HOSETAIL
X018-1408	7/8"	1/2"	7/8" JIC MALE X 1/2" S/S SWAGE HOSETAIL

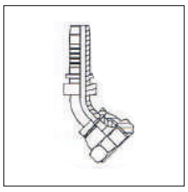
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X055 - STAINLESS STEEL JIC FEMALE 90° SWEPT X HOSETAIL



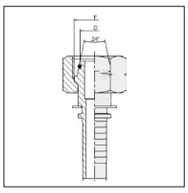
ITEM NUMBER	THREAD SIZE	TAIL SIZE	DESCRIPTION
X055-0704	7/16"	1/4"	7/16" JIC FEMALE X 1/4" S/S SWAGE HOSETAIL
X055-0804	1/2"	1/4"	1/2" JIC FEMALE X 1/4" S/S SWAGE HOSETAIL
X055-0904	9/16"	1/4"	9/16" JIC FEMALE X 1/4" S/S SWAGE HOSETAIL
X055-0906	9/16"	3/8"	9/16" JIC FEMALE X 3/8" S/S SWAGE HOSETAIL
X055-1206	3/4"	3/8"	3/4" JIC FEMALE X 3/8" S/S SWAGE HOSETAIL
X055-1208	3/4"	1/2"	3/4" JIC FEMALE X 1/2" S/S SWAGE HOSETAIL
X055-1408	7/8"	1/2"	7/8" JIC FEMALE X 1/2" S/S SWAGE HOSETAIL

X064 - STAINLESS STEEL JIC FEMALE 45° SWEPT X HOSETAIL



ITEM NUMBER	THREAD SIZE	TAIL SIZE	DESCRIPTION
X064-0704	7/16"	1/4"	7/16" JIC FEMALE X 1/4" S/S SWAGE HOSETAIL
X064-0804	1/2"	1/4"	1/2" JIC FEMALE X 1/4" S/S SWAGE HOSETAIL
X064-0904	9/16"	1/4"	9/16" JIC FEMALE X 1/4" S/S SWAGE HOSETAIL
X064-0906	9/16"	3/8"	9/16" JIC FEMALE X 3/8" S/S SWAGE HOSETAIL
X064-1206	3/4"	3/8"	3/4" JIC FEMALE X 3/8" S/S SWAGE HOSETAIL
X064-1208	3/4"	1/2"	3/4" JIC FEMALE X 1/2" S/S SWAGE HOSETAIL
X064-1408	7/8"	1/2"	7/8" JIC FEMALE X 1/2" S/S SWAGE HOSETAIL

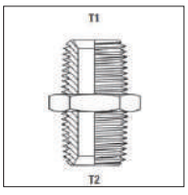
X081 - STAINLESS STEEL DKOL FEMALE METRIC LIGHT X HOSETAIL



ITEM NUMBER	THREAD SIZE	TAIL SIZE	DESCRIPTION
X081-1204	12 MM	1/4"	12 MM DKOL FEMALE METRIC LIGHT X 1/4" S/S SWAGE HOSETAIL
X081-1404	14 MM	1/4"	14 MM DKOL FEMALE METRIC LIGHT X 1/4" S/S SWAGE HOSETAIL
X081-1604	16 MM	1/4"	16 MM DKOL FEMALE METRIC LIGHT X 1/4" S/S SWAGE HOSETAIL
X081-1606	16 MM	3/8"	16 MM DKOL FEMALE METRIC LIGHT X 3/8" S/S SWAGE HOSETAIL
X081-1806	18 MM	3/8"	18 MM DKOL FEMALE METRIC LIGHT X 3/8" S/S SWAGE HOSETAIL
X081-1808	18 MM	1/2"	18 MM DKOL FEMALE METRIC LIGHT X 1/2" S/S SWAGE HOSETAIL
X081-2208	22 MM	1/2"	22 MM DKOL FEMALE METRIC LIGHT X 1/2" S/S SWAGE HOSETAIL
X081-2608	26 MM	1/2"	26 MM DKOL FEMALE METRIC LIGHT X 1/2" S/S SWAGE HOSETAIL
X081-3012	30 MM	3/4"	30 MM DKOL FEMALE METRIC LIGHT X 3/4" S/S SWAGE HOSETAIL

ADAPTORS

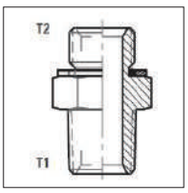
XAA - STAINLESS STEEL BSPT MALE X BSPT MALE



ITEM NUMBER	T1	T2	DESCRIPTION
XAA0204	1/8"	1/4"	1/8" BSPT MALE X 1/4" BSPT MALE - S/S
XAA0404	1/4"	1/4"	1/4" BSPT MALE X 1/4" BSPT MALE - S/S
XAA0606	3/8"	3/8"	3/8" BSPT MALE X 3/8" BSPT MALE - S/S
XAA0808	1/2"	1/2"	1/2" BSPT MALE X 1/2" BSPT MALE - S/S
XAA1212	3/4"	3/4"	3/4" BSPT MALE X 3/4" BSPT MALE - S/S
XAA1616	1"	1"	1" BSPT MALE X 1" BSPT MALE - S/S
XAA2020	1 - 1/4"	1 - 1/4"	1 - 1/4" BSPT MALE X 1 - 1/4" BSPT MALE - S/S
XAA2424	1 - 1/2"	1 - 1/2"	1 - 1/2" BSPT MALE X 1 - 1/2" BSPT MALE - S/S
XAA3232	2"	2"	2" BSPT MALE X 2" BSPT MALE - S/S

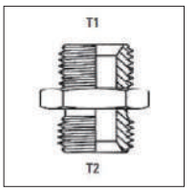
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XAB - STAINLESS STEEL BSPT MALE X BSPP MALE



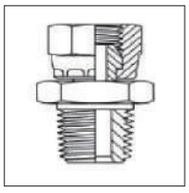
ITEM NUMBER	T1	T2	DESCRIPTION
XAB0404	1/4"	1/4"	1/4" BSPT MALE X 1/4" BSPP MALE - S/S
XAB0606	3/8"	3/8"	3/8" BSPT MALE X 3/8" BSPP MALE - S/S
XAB0808	1/2"	1/2"	1/2" BSPT MALE X 1/2" BSPP MALE - S/S
XAB1212	3/4"	3/4"	3/4" BSPT MALE X 3/4" BSPP MALE - S/S

XBB - STAINLESS STEEL BSPP MALE X BSPP MALE



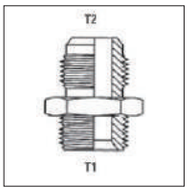
ITEM NUMBER	T1	T2	DESCRIPTION
XBB0404	1/4"	1/4"	1/4" BSPP MALE X 1/4" BSPP MALE - S/S
XBB0606	3/8"	3/8"	3/8" BSPP MALE X 3/8" BSPP MALE - S/S
XBB0808	1/2"	1/2"	1/2" BSPP MALE X 1/2" BSPP MALE - S/S
XBB1212	3/4"	3/4"	3/4" BSPP MALE X 3/4" BSPP MALE - S/S
XBB1616	1"	1"	1" BSPP MALE X 1" BSPP MALE - S/S

XAC - STAINLESS STEEL BSPT MALE X BSPP FEMALE SWIVEL



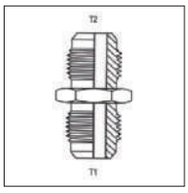
ITEM NUMBER	T1		T2		DESCRIPTION
XAC0404	1/4"	13.16	1/4"	11.46	1/4" BSPT MALE X 1/4" BSPP FEMALE SWIVEL - S/S
XAC0606	3/8"	16.67	3/8"	14.96	3/8" BSPT MALE X 3/8" BSPP FEMALE SWIVEL - S/S
XAC0808	1/2"	20.96	1/2"	18.65	1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL - S/S
XAC1212	3/4"	26.45	3/4"	24.13	3/4" BSPT MALE X 3/4" BSPP FEMALE SWIVEL - S/S

XBG - STAINLESS STEEL BSPP MALE X JIC MALE



ITEM NUMBER	T1	T 2	DESCRIPTION
XBG0409	1/4"	9/16"	1/4" BSPP MALE X 9/16" JIC MALE - S/S
XBG0607	3/8"	7/16"	3/8" BSPP MALE X 7/16" JIC MALE - S/S

XGG - STAINLESS STEEL JIC MALE X JIC MALE



ITEM NUMBER	T1	T2	DESCRIPTION
XGG0707	7/16"	7/16"	7/16" JIC MALE X 7/16" JIC MALE - S/S
XGG0909	9/16"	9/16"	9/16" JIC MALE X 9/16" JIC MALE - S/S
XGG1212	3/4"	3/4"	3/4" JIC MALE X 3/4" JIC MALE - S/S
XGG1414	7/8"	7/8"	7/8" JIC MALE X 7/8" JIC MALE - S/S

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HOSE PROTECTION

FABRIC SLEEVE



CODE	DESCRIPTION	FULL ROLL SIZE (M)
FS040	40mm Flat Fabric Safe Sleeve (23mm ID)	20
FS060	60mm Flat Fabric Safe Sleeve (37mm ID)	20
FS080	80mm Flat Fabric Safe Sleeve (50mm ID)	20
FS100	100mm Flat Fabric Safe Sleeve (62mm ID)	20

SPIRAL GUARD



CODE	RELAXED I.D. (MM)	MAXIMUM RECOMMENDED O.D. (MM)	DESCRIPTION	TO SUIT HOSE
HH-SPIRA1316	13	16	SPIRALINA COVER 13 X 16MM	1/4" 1-WIRE & 2-WIRE
HH-SPIRA1620	16	20	SPIRALINA COVER 16 X 20MM	3/8" 1-WIRE & 2-WIRE
HH-SPIRA2025	20	25	SPIRALINA COVER 20 X 25MM	1/2" 1-WIRE & 2-WIRE
HH-SPIRA2732	27	32	SPIRALINA COVER 27 X 32MM	3/4" 1-WIRE & 2-WIRE
HH-SPIRA3540	35	40	SPIRALINA COVER 35 X 40MM	1" 1-WIRE & 2-WIRE
HH-SPIRA4450	44	50	SPIRALINA COVER 44 X 50MM	1-1/4" 2-WIRE
HH-SPIRA6575	65	75	SPIRALINA COVER 65 X 75MM	2" 2-WIRE
HH-SPIRA8090	80	90	SPIRALINA COVER 80 X 90MM	???

CLAMPS

SINGLE PIPE CLAMP COMPLETE



CODE	SUITS HOSE O.D. (MM)	DESCRIPTION
AC-A214	14MM	14MM SINGLE PIPE CLAMP COMPLETE
AC-A216	16MM	16MM SINGLE PIPE CLAMP COMPLETE
AC-A218	18MM	18MM SINGLE PIPE CLAMP COMPLETE
AC-A312	12MM	12MM SINGLE PIPE CLAMP COMPLETE
AC-A320	20MM	20MM SINGLE PIPE CLAMP COMPLETE
AC-A322	22MM	22MM SINGLE PIPE CLAMP COMPLETE
AC-A325	25MM	25MM SINGLE PIPE CLAMP COMPLETE
AC-A332	32MM	32MM SINGLE PIPE CLAMP COMPLETE
AC-A430	30MM	30MM SINGLE PIPE CLAMP COMPLETE
AC-A435	35MM	35MM SINGLE PIPE CLAMP COMPLETE
AC-A538	38MM	38MM SINGLE PIPE CLAMP COMPLETE

DOUBLE PIPE CLAMP COMPLETE



CODE	SUITS HOSE O.D. (MM)	DESCRIPTION
AC-AD11212	12MM	12MM DOUBLE PIPE CLAMP COMPLETE
AC-AD21414	14MM	14MM DOUBLE PIPE CLAMP COMPLETE
AC-AD21616	16MM	16MM DOUBLE PIPE CLAMP COMPLETE
AC-AD21818	18MM	18MM DOUBLE PIPE CLAMP COMPLETE
AC-AD32020	20MM	20MM DOUBLE PIPE CLAMP COMPLETE
AC-AD32222	22MM	22MM DOUBLE PIPE CLAMP COMPLETE
AC-AD43030	30MM	30MM DOUBLE PIPE CLAMP COMPLETE
AC-AD53838	38MM	38MM DOUBLE PIPE CLAMP COMPLETE
AC-AD32525	25MM	25MM DOUBLE PIPE CLAMP COMPLETE

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HP BALL VALVES

BVH2 - HIGH PRESSURE 2-WAY BALL VALVE (500BAR) FEM/FEM BSPP THREADS



3-WAY BALL VALVES AVAILABLE ON REQUEST

CODE	DESCRIPTION	WORKING PRESSURE (BAR)
BVH2-L-04	1/4" HP 2-WAY BALL VALVE (500bar) - LEVER HANDLE	500
BVH2-L-05	5/16" HP 2-WAY BALL VALVE (500bar) - LEVER HANDLE	500
BVH2-L-06	3/8" HP 2-WAY BALL VALVE (500bar) - LEVER HANDLE	500
BVH2-L-07	7/16" HP 2-WAY BALL VALVE (500bar) - LEVER HANDLE	500
BVH2-L-08	1/2" HP 2-WAY BALL VALVE (500bar) - LEVER HANDLE	500
BVH2-L-12	3/4" 2-WAY BALL VALVE (315bar) - LEVER HANDLE	315
BVH2-L-16	1" 2-WAY BALL VALVE (315bar) - LEVER HANDLE	315
BVH2-L-32	2" 2-WAY BALL VALVE (315bar) - LEVER HANDLE	315

BVH3 - HIGH PRESSURE 3-WAY BALL VALVE FEM/FEM BSPP THREADS

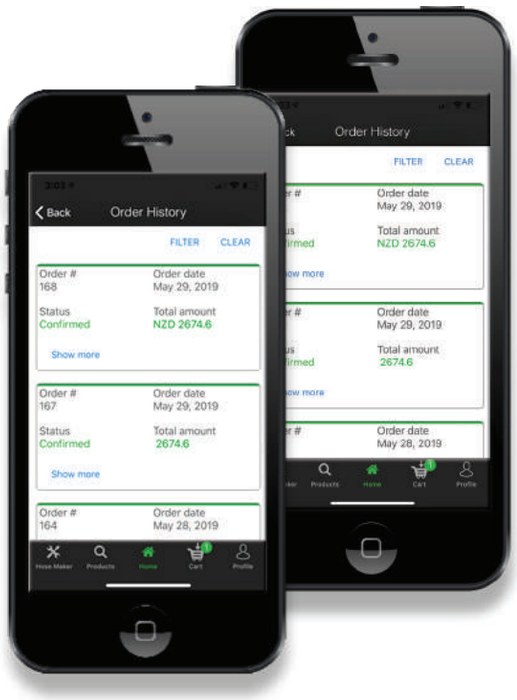


CODE	DESCRIPTION	WORKING PRESSURE (BAR)
BVH3-L-04	1/4 3-WAY BALL VALVE (500bar) - LEVER HANDLE	500
BVH3-L-06	3/8 3-WAY BALL VALVE (500bar) - LEVER HANDLE	500
BVH3-L-08	1/2 3-WAY BALL VALVE (500bar) - LEVER HANDLE	500
BVH3-L-12	3/4 3-WAY BALL VALVE (315bar) - LEVER HANDLE	315
BVH3-L-16	1 Inc 3-WAY BALL VALVE (315bar) - LEVER HANDLE	315

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PLASTIC CAPS & PLUGS

B-PLUG - PLASTIC PLUG TO SUIT FEMALE BSP THREAD



	THREAD
CODE	NOMINAL SIZE & PITCH
B-PLUG04	1/4" BSP MALE
B-PLUG06	3/8" BSP MALE
B-PLUG08	1/2" BSP MALE
B-PLUG12	3/4" BSP MALE

G-PLUG - PLASTIC PLUG TO SUIT FEMALE JIC THREAD



	THREAD
CODE	NOMINAL SIZE & PITCH
G-PLUG07	7/16" JIC MALE
G-PLUG09	9/16" JIC MALE
G-PLUG12	3/4" JIC MALE
G-PLUG14	7/8" JIC MALE
G-PLUG17	1 1/16" JIC MALE

J-CAP - PLASTIC CAP TO SUIT MALE JIC THREAD



	THREAD
CODE	NOMINAL SIZE & PITCH
J-CAP07	7/16" JIC FEMALE
J-CAP09	9/16" JIC FEMALE
J-CAP12	3/4" JIC FEMALE

R-PLUG - PLASTIC PLUG TO SUIT FEMALE THREAD



CODE	THREAD 1
R-PLUG09	Plastic Plug for 9/16 Female Thread
R-PLUG13	Plastic Plug for 13/16 Female Thread
R-PLUG19	Plastic Plug for 1 3/16 Female Thread

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O-RING KITS

O RING KIT - IMPER 5A

IMPERIAL O-RING KIT - NITRILE 90 DURO





POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY
006	2.90 x 1.78	20	**113**	13.94 x 2.62	13	**216**	28.17 x 3.53	10
007	3.68 x 1.78	20	**114**	15.54 x 2.62	13	**217**	29.74 x 3.53	10
008	4.47 x 1.78	20	**115**	17.12 x 2.62	13	**218**	31.34 x 3.53	10
009	5.28 x 1.78	20	**116**	18.72 x 2.62	13	**219**	32.92 x 3.53	10
010	6.07 x 1.78	20	**210**	18.64 x 3.53	10	**220**	34.52 x 3.53	10
011	7.65 x 1.78	20	**211**	20.22 x 3.53	10	**221**	36.09 x 3.53	10
012	9.25 x 1.78	20	**212**	21.82 x 3.53	10	**222**	37.69 x 3.53	10
110	9.19 x 2.62	13	**213**	23.39 x 3.53	10	**325**	37.47 x 5.33	7
111	10.77 x 2.62	13	**214**	24.99 x 3.53	10	**326**	40.64 x 5.33	7
112	12.37 x 2.62	13	**215**	26.57 x 3.53	10	**327**	43.82 x 5.33	7

O RING KIT - METRIC 4A

METRIC O-RING KIT - NITRILE 90 DURO





POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY
006	3.00 x 2.00	16	**113**	14.00 x 2.50	13	**216**	28.00 x 3.00	12
007	4.00 x 2.00	16	**114**	16.00 x 2.50	13	**217**	30.00 x 3.00	12
008	5.00 x 2.00	16	**115**	17.00 x 2.50	13	**218**	32.00 x 3.00	12
009	6.00 x 2.00	16	**116**	19.00 x 2.50	13	**219**	33.00 x 3.00	12
010	7.00 x 2.00	16	**210**	19.00 x 3.00	12	**220**	35.00 x 3.00	12
011	8.00 x 2.00	16	**211**	20.00 x 3.00	12	**221**	36.00 x 3.00	12
012	10.00 x 2.00	16	**212**	22.00 x 3.00	12	**222**	38.00 x 3.00	12
110	10.00 x 2.50	13	**213**	24.00 x 3.00	12	**325**	38.00 x 4.00	9
111	11.00 x 2.50	13	**214**	25.00 x 3.00	12	**326**	41.00 x 4.00	9
112	12.00 x 2.50	13	**215**	27.00 x 3.00	12	**327**	44.00 x 4.00	9

O RING KIT - COM

GENERIC O-RING KIT - NITRILE 90 DURO





POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY	POSITION NO.	DIMENSIONS (MM)	QUANTITY
006	2.895 x 1.778	20	**113**	15.59 x 1.778	20	**216**	29.87 x 1.778	20
007	3.683 x 1.778	20	**114**	16.35 x 2.209	16	**217**	29.74 x 2.946	12
008	4.470 x 1.778	20	**115**	18.77 x 1.778	20	**218**	34.64 x 1.778	19
009	5.283 x 1.778	20	**116**	19.17 x 2.463	14	**219**	32.91 x 3.530	10
010	8.915 x 1.828	18	**210**	18.64 x 3.530	10	**220**	37.82 x 1.778	20
011	7.645 x 1.778	19	**211**	23.52 x 1.778	20	**221**	37.46 x 2.997	12
012	9.245 x 1.778	20	**212**	25.12 x 1.778	20	**222**	37.69 x 3.530	10
110	10.51 x 1.828	19	**213**	23.46 x 2.946	12	**325**	44.17 x 1.778	19
111	11.88 x 1.981	18	**214**	24.99 x 3.530	10	**326**	43.68 x 2.997	12
112	12.42 x 1.778	20	**215**	26.59 x 2.946	11	**327**	47.21 x 3.530	10

O RING KIT - ORFS

ORFS O-RING KIT - NITRILE 90 DURO



DESCRIPTION	DIMENSIONS (MM)	QUANTITY
9/16 ORFS O-RING	7.7 x 1.78	20
11/16 ORFS O-RING	9.3 x 1.78	20
13/16 ORFS O-RING	12.4 x 1.78	20
1 ORFS O-RING	15.6 x 1.78	20
1 1/16 PRFS O-RING	18.8 x 1.78	10
1 7/16 ORFS O-RING	23.5 x 1.78	10
1 11/16 ORFS O-RING	29.9 x 1.78	10
1 1/2 ORFS O-RING	37.8 x 1.78	10

O-RING-TOOLS

O-RING PULLER PICK & HOOK SET



TOOL	QUANTITY
Straight Pick	1
45 Degree Pick	1
90 Degree Pick	1
Hook	1

O RING KIT – BSP

REPLACEMENT O-RING KIT FOR SEALING FACE OF K & J SERIES BSP FEMALE FITTINGS



ITEM	QUANTITY
45 Degree Pick	1
Hook	1
¼" O-Ring	5
3/8" O-Ring	5
½" O-Ring	5
1" O-Ring	5
1-1/4" O-Ring	5
1-1/2" O-Ring	5



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WORKSHOP EQUIPMENT

HOSE SWAGING MACHINES

Enquire
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Portable swagers up to 1” capacity



UG20-12V – UNIJOIN Hydraulic Crimper >1-1/2” 12volt

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UG20-240V – UNIJOIN Hydraulic Crimper >1-1/2” 12volt

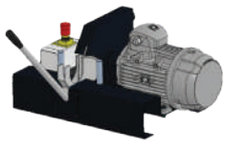
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HOSE CUT-OFF SAW



EM3.4-12V – UNIFLEX Hydraulic Hose Cut-off Saw 12volt

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TF2E-230V – OP Hydraulic Hose Cutoff Saw 230volt

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HOSE CLEANING



UC-EL-8 - Projectile Launch Kit

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SC-TCS - Hose Cleaning Projectile

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ACCESSORIES



UG20 - die rack to suit UG20 Crimpers

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UG20-QCT - quick change tool to suit UG20 Crimpers

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C12V104 - 12volt deep cell battery

Page 166

Order online in your time, on your preferred device

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Uniflex-Hydraulik GmbH has been developing, manufacturing and selling innovative systems for hose assembly production and processing for 45 years. With up-to-date and robust technology, UNIFLEX satisfies even the most exacting demands of customers as far as hydraulic crimpers and peripheral equipment for industrial and service companies are concerned – as a manufacturer and a global supplier.

After comprehensive research and trials, BOA is please to partner with Uniflex to bring this balance of quality and value to our market.

UG20-12V – UNIJOIN HYDRAULIC CRIMPER >1-1/2" 12VOLT



Ideal for crimping hydraulic hoses up to 1-1/2" multi-spiral in mobile or remote situations where a 12 volt power supply is more suited.

MAIN FEATURES

- Proven Quality
- Simple Operation
- Ideal for all fitting types
- 12 volt operation, great for mobile or remote applications

Technical Data

Max Hydraulic Hose*	1-1/2"
Master Die Length (mm)	100
Max Opening (mm)	27
Crimping Force (kN / Ton)	190
Control	Micro Dial
L * W * H (mm)	430 x 370 x 440**
Weight (kg)	110

12V

**Can vary across hose & fitting brands*
*** 12volt power pack is mounted separately*

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UG20-240V – UNIJOIN HYDRAULIC CRIMPER >1-1/2” 12VOLT



UNIFLEX

240V

*Can vary across hose & fitting brands

Single phase mains power option for workshops or other applications where mains power is readily available.

MAIN FEATURES

- Proven quality
- Simple operation
- Ideal for all fitting types
- 230volt single phase for workshop applications

Technical Data

Max Hydraulic Hose*	1-1/2"
Master Die Length (mm)	100
Max Opening (mm)	27
Crimping Force (kN / Ton)	190
Control	Micro Dial
L * W * H (mm)	600 x 550 x 630
Weight (kg)	150

ACCESSORIES FOR UNIFLEX CRIMPER



UG20-DR - DIE RACK TO SUIT UG20 CRIMPERS

Keep your dies tidy and save them getting lost, as well as having them ready for the quick change tool!



UG20-QCT - QUICK CHANGE TOOL TO SUIT UG20 CRIMPERS

Save time on die changes with the quick change tool!



C12V104 - 12VOLT DEEP CELL BATTERY

Power your 12v machinery, great for mobile use, or use in a workshop with a trickle charger.

Other models to suit different hose sizes available on indent order - enquire today.

Order online in your time, on your preferred device

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UG16-HP – UNIJOIN MOBILE HYDRAULIC CRIMPER



This handheld portable crimper is ideal for those who use smaller diameter hoses but still require a quality hose assembly machine. As a hand-held machine, it is great for getting close to the need!

MAIN FEATURES

- Highly Mobile
- Compact
- Simple Operation
- Proven Quality

Technical Data

Max Hydraulic Hose*	1" Multi-spiral
Master Die Length (mm)	75
Max Opening (mm)	27
Crimping Force (kN / Ton)	900 / 90
Control	Micro Dial
L * W * H (mm)	218 x 165 x 352
Weight (kg)	29

Can vary across hose & fitting brands

UG32-12V – UNIJOIN HYDRAULIC CRIMPER >2” 12 VOLT



Ideal for crimping hydraulic hoses up to 2” multi-spiral in mobile or remote situations where a 12 volt power supply is more suited.

MAIN FEATURES

- Proven quality
- Simple operation
- Ideal for all fitting types
- 12 volt operation, great for mobile or remote applications

Technical Data

Max Hydraulic Hose*	2" Multi-spiral
Master Die Length (mm)	110
Max Opening (mm)	143
Crimping Force (kN / Ton)	2400/240
Control	Micro Dial
L * W * H (mm)	505x430x390**
Weight (kg)	172

Can vary across hose & fitting brands

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HOSE CUT-OFF SAWS

EM3.4-12V – UNIFLEX HYDRAULIC HOSE CUT-OFF SAW 12VOLT



Ideal for cutting hydraulic hoses up to 1-1/4" multi-spiral in mobile or remote situations where a 12 volt power supply is more suited.

MAIN FEATURES

- European Made Machine
- Faster, cleaner cuts
- Reduced contamination
- Very compact, ideal for mobile service
- Long lasting German quality steel blades

12V

Technical Data

Max Hydraulic Hose	1-1/4 Multi-spiral
Crimping Range mm	60
Max Opening mm	93
Cylinder	12V
Crimping Force	TM 250 x 2 x 40Z
Control	470 x 567 x 365
L*W*H mm	Approx. 29
Weight KG	Approx. 100

EM3.4-230V – HYDRAULIC HOSE CUT-OFF SAW 230VOLT



Ideal for cutting hydraulic hoses up to 1-1/2" multi-spiral in workshop situations where a 230-240 volt power supply is available.
Recessed blade and guards for operators safety.

MAIN FEATURES

- European Made Machine
- Faster, cleaner cuts
- Reduced contamination
- Great capacity for its size

240V

Technical Data

Max Hydraulic Hose	1 1/4" Multi-spiral
Max Outside mm	52
Suction Connection	incl.
Cutting Blade	250mm
L*W*H mm	400 x 510 x 540
Weight KG	20

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REPLACEMENT BLADES



REPLACEMENT BLADES

Speak to BOA for replacement blades.

HOSE CLEANING

UC-EL-8 - PROJECTILE LAUNCH KIT



Over 80% of hydraulic failures are caused by contamination - Don't risk it!

These pnuematic projectile launchers, paired with SC-TCS projectiles clean hydraulic hose on the inside to avoid any particles left from the cutting process or storage from entering sensitive components and causing costly damage.

CONTENTS:

- Projectile Launch Gun
- Nozzles to suit 1/4" through to 1-1/4" hose
- Air line adpator
- Lockable Case

Kits with nozzles to suit hose larger than 1-1/4" available on request.

SC-TCS - HOSE CLEANING PROJECTILE

The projectile cleans by being compressed against the internal surface of the hose. This pressure is achieved by the projectile being approximately 20% to 30% larger than the internal diameter of the hose.



CODE	DESCRIPTION	PACK SIZE	"SUITS ASSEMBLED HOSE HOSE I.D.* (STRAIGHT ENDS CRIMPED ON)"	"SUITS HOSE I.D.* (WITHOUT FITTINGS)"
SC-TCS07	Projectiles 7mm Standard Pack	100	1/4"	???
SC-TCS10	Projectiles 10mm Standard Pack	100	3/8"	1/4"
SC-TCS12	Projectiles 12mm Standard Pack	100	???	5/16"
SC-TCS14	Projectiles 14mm Standard Pack	100	1/2"	3/8"
SC-TCS16	Projectiles 16mm Standard Pack	100	5/8"	???
SC-TCS20	Projectiles 20mm Standard Pack	100	3/4"	1/2"
SC-TCS24	Projectiles 24mm Standard Pack	50	???	???
SC-TCS26	Projectiles 26mm Standard Pack	50	1"	3/4"
SC-TCS33	Projectiles 33mm Standard Pack	40	1 - 1/4"	1"
SC-TCS40	Projectiles 40mm Standard Pack	30	1 - 1/2"	1 - 1/4"

"*Recommended values only, individual circumstances may require a smaller or larger projectile. If the projectile is too large it will not leave the nozzle, and if it is too small it will not clean effectively. The enormous variety in the types of couplings available today could also mean in some circumstances that the recommended size is inappropriate. When cleaning assemblies, a reduction in projectile size may be appropriate, as all recommendations are based on the most commonly used coupling sizes."

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RETHINK. RESTART.



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