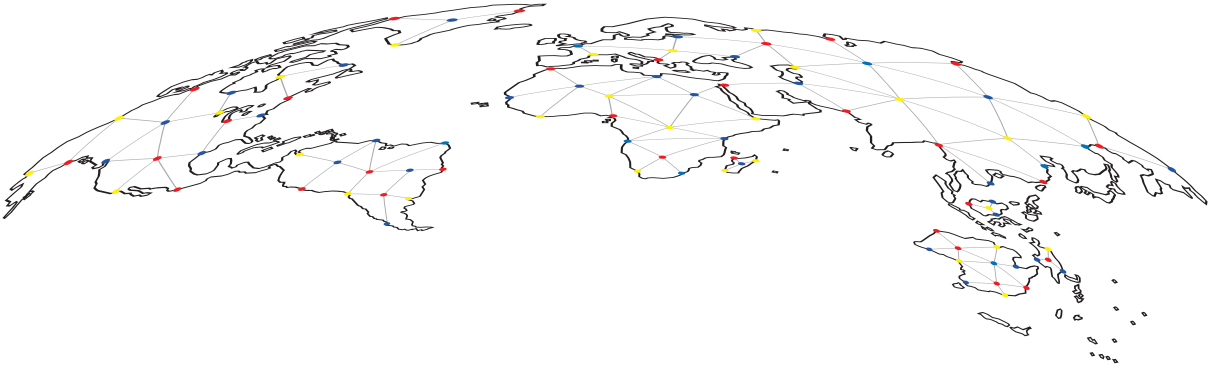


CATALOGUE



EvoFluid
HYDRAULICS



Innovation also means “to make what is good even better”.

At EvoFluid we believe that nowadays there is no way to compete but to innovate products and processes. Every day.



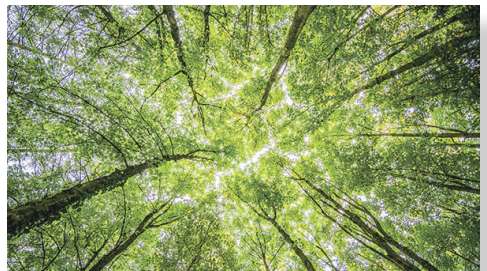
What Do Customers want and need and how our offer could be a benefit to them? This is the question we ask ourselves every day....

Companies nowadays ask for solutions not just products; that's why you have at your disposal our specialist team that can help you with tests and certification matters.



Co-engineering, project based activity, wide product range, manufacturing & hose assembling capabilities and knowledge, product flexibility in general are the core strengths of EvoFluid. A combination of our wealth of experience and technical support make EvoFluid a reliable supplier of premium quality Hydraulic products.

We pay close attention to environmental protection and sustainable development. A positive work environment is paramount to the daily running of the business. This enhances positive emotions and helps building a team of people keen to make a difference.



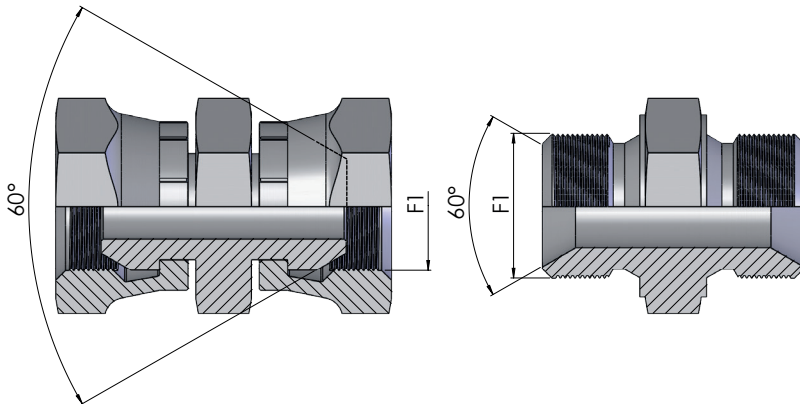
TECHNICAL SHEETS

BRITISH STANDARDS

British Standard Pipe Parallel (BSPP)

BSPP males have cylindrical thread and 60° countersink; This thread is also known as "Withworth". BSPP males only couple BSPP females. BSPP females have cylindrical thread and 60° cone. Sealing to fixed devices can be ensured by placing an O'Ring or a deformable metal washer.

BSP 60° BS5200



F1
1/8" - 28
1/4" - 19
3/8" - 19
1/2" - 14
5/8" - 14
3/4" - 14
1" - 11
1" 1/4 - 11
1" 1/2 - 11
2" - 11

F1 - Thread BSP Parallel - Filetto Gas Cilindrico

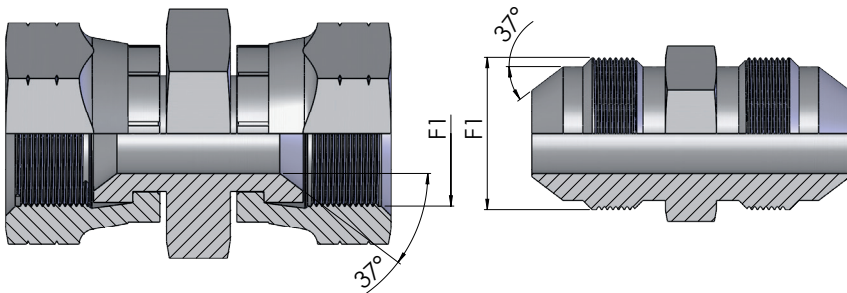
USA STANDARDS

SAE J514 37° (JIC)

For hydraulic high pressure applications, the Society of Automotive Engineers (SAE) recommends to use a 37° cone or countersink, commonly known as JIC. Jic males only couple jic females.

Jic males are characterized by a cylindrical thread and a 37°. Cone and Jic females by a cylindrical thread and a 37°Countersink. Coupling and sealing are obtained mechanically by a perfect adhesion between the male cone and the female countersink.

JIC SAEJ514



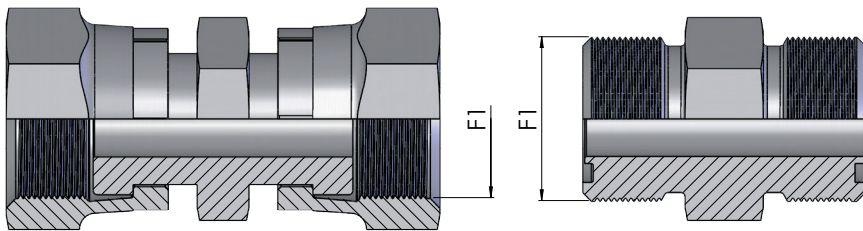
F1	Tube
UNF 7/16" - 20	6 - 1/4"
UNF 1/2" - 20	8 - 5/16"
UNF 9/16" - 18	10 - 3/8"
UNF 3/4" - 16	12 - 1/2"
UNF 7/8" - 14	14 - 15 - 16 - 5/8"
UN 1" 1/16 - 12	18 - 20 - 3/4"
UN 1" 5/16 - 12	25 - 1"
UN 1" 5/8 - 12	30 - 32 - 1"1/4
UN 1" 7/8 - 12	38 - 1"1/2
UN 2" 1/2 - 12	-

USA STANDARDS

SAE J1453 O'Ring Face Seal (ORFS)

These fittings are used for hydraulic systems where a perfect Sealing has to be guaranteed in order to avoid possible fluid leakage. To this day, these fittings are considered the best choice for this purpose. Both male and female fittings are characterized by a cylindrical thread and a flat face, sealing is ensured by Placing an O'Ring on male's flat face.

ORFS SAEJ1453



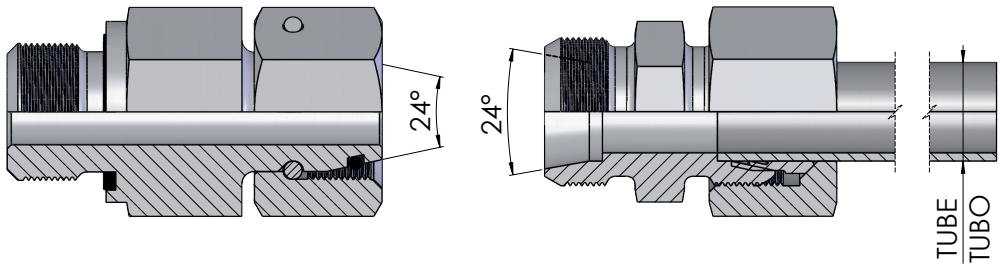
F1	Tube
UNF 9/16" - 18	6 - 1/4"
UN 11/16" - 16	8 - 10 - 3/8"
UN 13/16" - 16	12 - 1/2"
UNS 1" - 14	14 - 15 - 16 - 5/8"
UN 1" 3/16" - 12	18 - 20 - 3/4"
UN 1" 7/16" - 12	22 - 25 - 1"
UN 1" 11/16" - 12	28 - 30 - 32 - 1" 1/4
UN 2" - 12	35 - 38 - 1" 1/2

GERMAN STANDARDS

DIN 2353 Cone 24°

Din 2353 males couple any of three female couplings shown in the table aside. Males have a cylindrical metric thread, a 24° countersink And a counterbore that couple the tube OD. Females can have a 24° cone with o' ring placed on it female without o'ring, or an universal 24/60° cone. Din Couplings can be light or heavy type, to identify them You have to measure both thread and tube OD.

DIN 2353



Series	Tube	Metric Thread	Series	Tube	Metric Thread
L	6	12 x 1,5	S	6	14 x 1,5
	8	14 x 1,5		8	16 x 1,5
	10	16 x 1,5		10	18 x 1,5
	12	18 x 1,5		12	20 x 1,5
	15	22 x 1,5		14	22 x 1,5
	18	26 x 1,5		16	24 x 1,5
	22	30 x 2,0		20	30 x 2,0
	28	36 x 2,0		25	36 x 2,0
	35	45 x 2,0		30	42 x 2,0
42	52 x 2,0	38	52 x 2,0		

HOW TO IDENTIFY THREADS BY USING A CALIPER

By measuring a female internal diameter or a male outer diameter with a calliper, you will easily determine which thread it is, checking the following table.



Type	Thread	Dash size	Male mm	Female mm	Type	Thread	Dash size	Male mm	Female mm
BSP	1/8	02	9,6	8,7	JIC	1 1/16	12	26,8	24,8
JIC	7/16	04	11	9,9	Metric	M30-2	30	29,9	28
Metric	M12-1.5	12	11,9	10,5	Metric	M36-1.5	30	29,9	28,5
JIC	1/2	05	12,6	11,4	ORFS	1 3/16	14	30	28
BSP	1/4	04	13	11,6	JIC	1 3/16	14	30,1	27,9
Metric	M14-1.5	14	13,9	12,5	Metric	M33-1.5	33	32,9	31,5
JIC	9/16	06	14,2	12,9	BSP	1	16	33,1	30,7
ORFS	9/16	06	14,2	12,9	JIC	1 5/16	16	33,2	31,2
JIC	5/8	07	15,7	14,5	Metric	M36-2	36	35,9	34
Metric	M16-1.5	16	15,9	14,5	Metric	M36-1.5	36	35,9	34,5
BSP	3/8	06	16,6	15,1	ORFS	1 7/16	15	36,4	34,4
ORFS	11/16	09	17,4	15,9	Metric	M38-1.5	38	37,9	36,5
Metric	M18-1.5	18	17,9	16,5	JIC	1 5/8	20	41,1	38,8
JIC	3/4	08	18,8	17,5	BSP	1 1/4	20	41,7	39,4
Metric	M20-1.5	20	19,9	18,5	Metric	M42-2	42	41,9	40
ORFS	13/16	11	20,6	19,1	ORFS	1 11/16	21	42,7	40,7
BSP	1/2	08	20,8	18,8	Metric	M45-2	45	44,9	43
Metric	M22-1.5	22	21,9	20,5	Metric	M45-1.5	45	44,9	43,5
JIC	7/8	10	22,1	20,4	JIC	1 7/8	24	47,5	45,1
BSP	5/8	10	22,8	20,9	BSP	1 1/2	24	47,7	45,2
Metric	M24-1.5	24	23,9	22,5	Metric	M52-2	52	51,9	50
ORFS	1	13	25,3	23,6	BSP	2	32	59,4	57,4
Metric	M26-1.5	26	25,9	24,5	JIC	2 1/2	32	63,3	61,1
BSP	3/4	12	26,3	24,5	ORFS	2 1/2	32	63,4	61,4

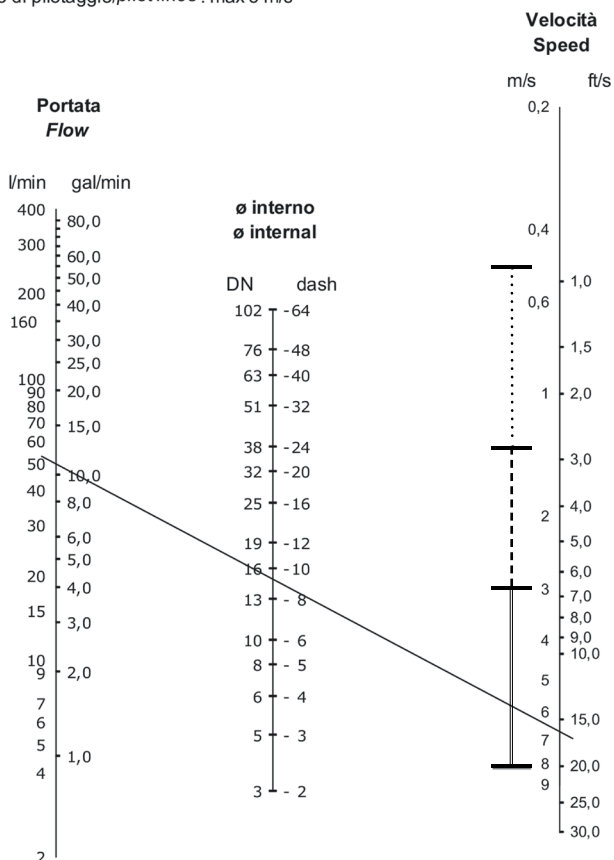
CHOICE OF HOSE SIZE

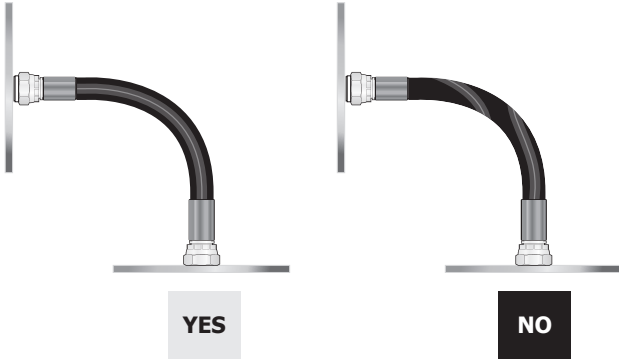
The graphic below can be used for the correct choice of the rubber hose. It allows to calculate the hose dimension according to the flow value and the speed of the fluid.

To find out the dimension of the right hose, draw a straight line connecting the known values of flow and speed. The intersection of this line with the graphic in the middle of the picture determines the value of the diameter of the hose. In case the value found is not corresponding with one of the nominal diameters DN indicated, the largest value must be chosen.

Velocità consigliate:

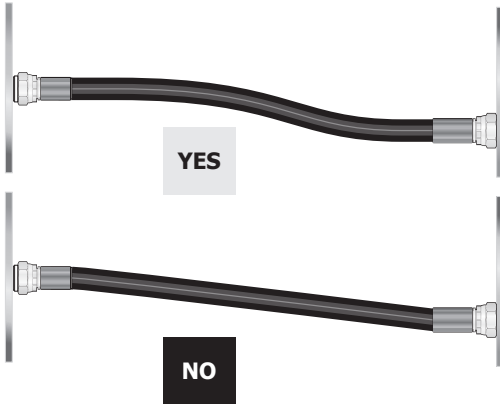
- ===== Linee di pressione/*pressure lines* : 3 - 8 m/s
- Linee di ritorno/*return lines* : 1,5 - 3 m/s
- Linne di aspirazione/*suction lines* : 0,5 - 1,5 m/s
- Linee di pilotaggio/*pilot lines* : max 5 m/s





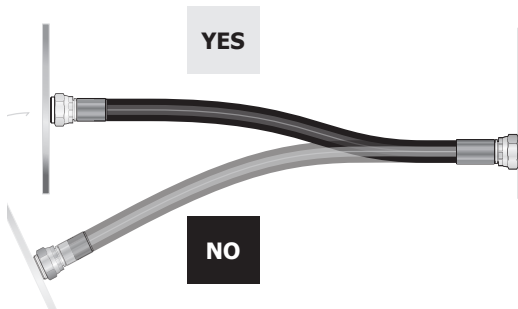
TORSION

Avoid twisting the hose. Hoses must be installed in such a way that there are no harsh conditions that may reduce the normal life of the hose.



LENGTH VARIATIONS

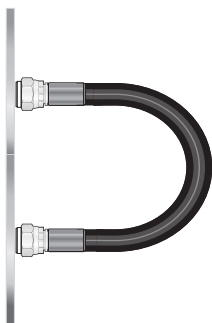
Do not install the hose too tightly. During the aging process and various movements there can occur length variations. It is appropriate to calculate a length slightly bigger than requested. We remind you that the DIN and SAE provide that the hose under pressure can get longer (max 2%) or even shorter (max 4%).



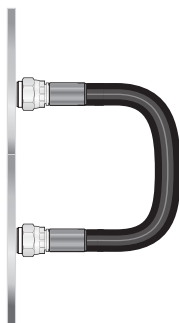
ASSEMBLED HOSE IN MOTION

In the case of motion, take particularly care to avoid any twisting, tensions or abrasions which are dangerous for the normal operation.

APPLICATIONS OF ASSEMBLED HOSE



YES



NO

BENDING RADIUS

Check that the hose, when installed, has not a smaller bending radius than reported in the respective data sheet.



YES



NO

CHOICE OF FITTINGS

We recommend to choose the most appropriate type of fitting in order to eliminate any incorrect positions.

EvoFluid inside its own R&D department, has installed a test bench to realize salt spray test according to the normative **UNI EN ISO 9227** (NNS, neutral salt spray).

EvoFluid develops and verifies new types of treatments looking for the continuous improvement of the coefficient of friction, of the distribution, of the thickness of layers and the visual quality of its products.

Zinc coating

The galvanizing process deposits on the steel layers of material which increase the corrosion resistance:

- Zinc deposit
- Passivation CrIII
- Sealer

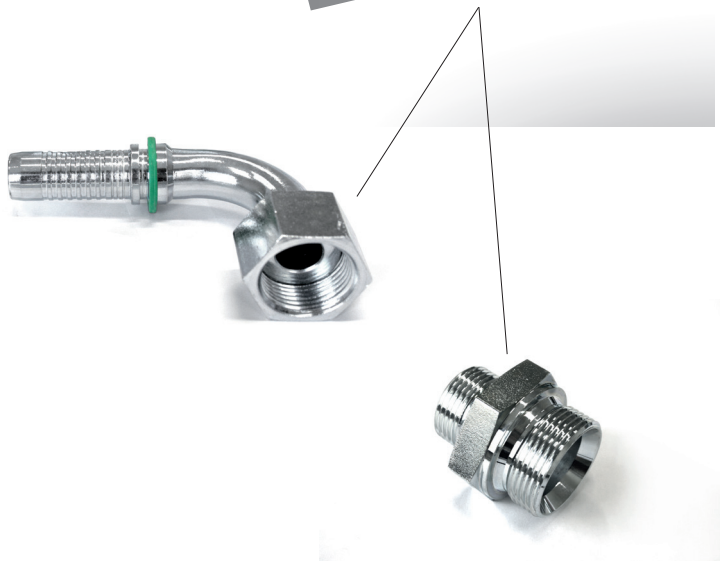
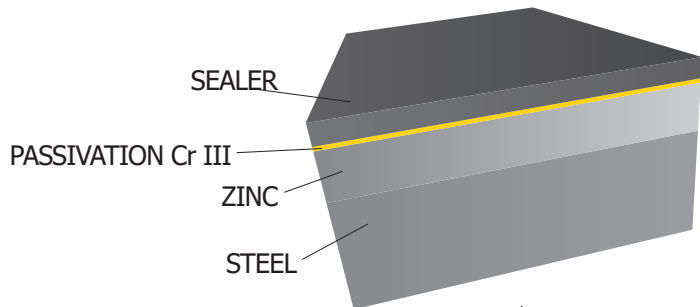
The total thickness of these deposits is:

- Fittings 8-10 μm
- Ferrules 10-12 μm

Performances

The zinc coating on the surface has the following corrosion resistance, according to UNI ISO 9227:

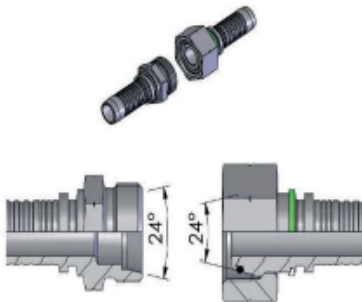
- **MIN 100 h** before the appearance of the outbreaks of white corrosion
- **MIN 350 h** before the appearance of the outbreaks of red corrosion





TORQUE WRENCH SETTING



METRIC – METRICO 24°

LIGHT – SERIE LEGGERA

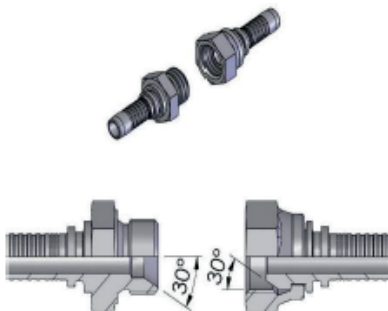




Ref.	Thread Filettatura		
		Torque - Coppie Nm -0% +10%	Working pressure Pressione di esercizio ISO 8434-1
06	12 x 1,5	20	250
08	14 x 1,5	25	250
10	16 x 1,5	35	250
12	18 x 1,5	40	250
15	22 x 1,5	50	250
18	26 x 1,5	60	160
22	30 x 2	80	160
28	36 x 2	140	100
35	45 x 2	175	100
42	52 x 2	190	100

HEAVY – SERIE PESANTE

Ref.	Thread Filettatura		
		Torque - Coppie Nm -0% +10%	Working pressure Pressione di esercizio ISO 8434-1
06	14 x 1,5	30	630
08	16 x 1,5	30	630
10	18 x 1,5	40	630
12	20 x 1,5	50	630
14	22 x 1,5	60	630
16	24 x 1,5	80	400
20	30 x 2	100	400
25	36 x 2	140	400
30	42 x 2	180	250
38	52 x 2	220	250

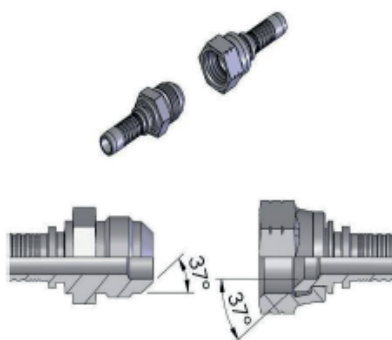
BSP 60°



Thread Filettatura		
	Torque - Coppie Nm -0% +10% ISO 8434-6	Working pressure Pressione di esercizio ISO 8434-6
1/8-28	10	350
1/4-19	20	350
3/8-19	35	350
1/2-14	60	315
5/8-14	70	315
3/4-14	115	250
1"-11	140	200
1 1/4-11	210	160
1 1/2-11	290	125
2"	-	80

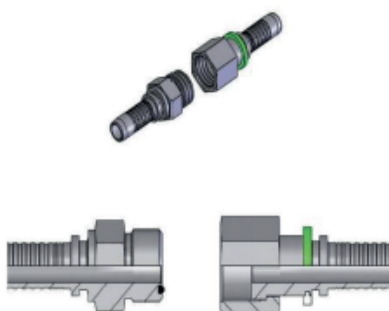
General Note: Not lubricate the Thread and the Connection during the Tightening

JIC 37°



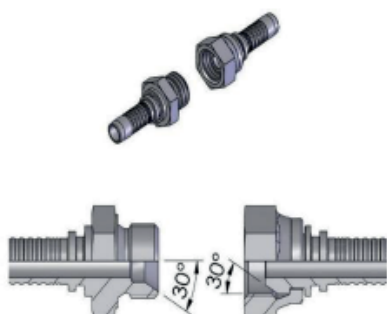
Thread Filettatura	Torque - Coppie Nm -0% +10% ISO 8434-2	Working pressure Pressione di esercizio ISO 8434-2
7/16-20	15	350
1/2-20	19	350
9/16-18	24	350
3/4-18	49	310
7/8-14	77	240
1"1/16-12	107	240
1"3/16-12	118	210
1"5/16-12	147	210
1"5/8-12	172	170
1"7/8-12	215	140
2"1/2	-	105

ORFS



Thread Filettatura	Torque - Coppie Nm -0% +10% ISO 8434-3	Working pressure Pressione di esercizio ISO 8434-3
9/16-18	25	630
11/16-16	40	630
13/16-16	55	630
1"-14	60	400
1"3/16-12	90	400
1"7/16-12	125	400
1"11/16-12	170	250
2"-12	200	250

METRIC - METRICO 60°



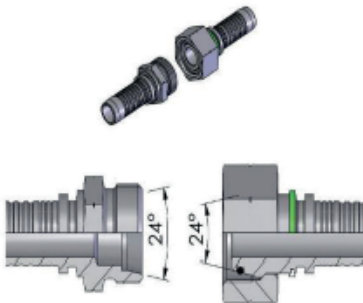
Thread Filettatura	Torque - Coppie Nm -0% +10%
M10X1	10
M12X1,5	20
M14X1,5	45
M16X1,5	55
M18X1,5	70
M20X1,5	80
M22X1,5	80
M26X1,5	80
M30X1,5	100

General Note: Not lubricate the Thread and the Connection during the Tightening

TORQUE WRENCH SETTING

METRIC - METRICO 24°

LIGHT - SERIE LEGGERA

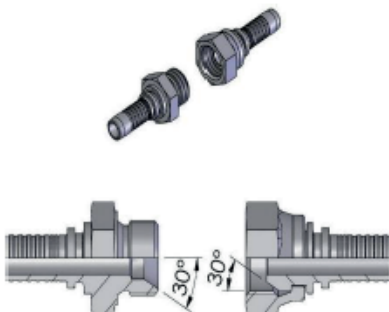


Ref.	Thread Filettatura	Torque - Coppie	Working pressure
		+10% Nm -0%	Pressione di esercizio ISO 8434-1
06	12 x 1,5	20	250
08	14 x 1,5	25	250
10	16 x 1,5	35	250
12	18 x 1,5	40	250
15	22 x 1,5	50	250
18	26 x 1,5	60	160
22	30 x 2	80	160
28	36 x 2	140	100
35	45 x 2	175	100
42	52 x 2	190	100

HEAVY - SERIE PESANTE

Ref.	Thread Filettatura	Torque - Coppie	Working pressure
		+10% Nm -0%	Pressione di esercizio ISO 8434-1
06	14 x 1,5	30	630
08	16 x 1,5	30	630
10	18 x 1,5	40	630
12	20 x 1,5	50	630
14	22 x 1,5	60	630
16	24 x 1,5	80	400
20	30 x 2	100	400
25	36 x 2	140	400
30	42 x 2	180	250
38	52 x 2	220	250

BSP 60°

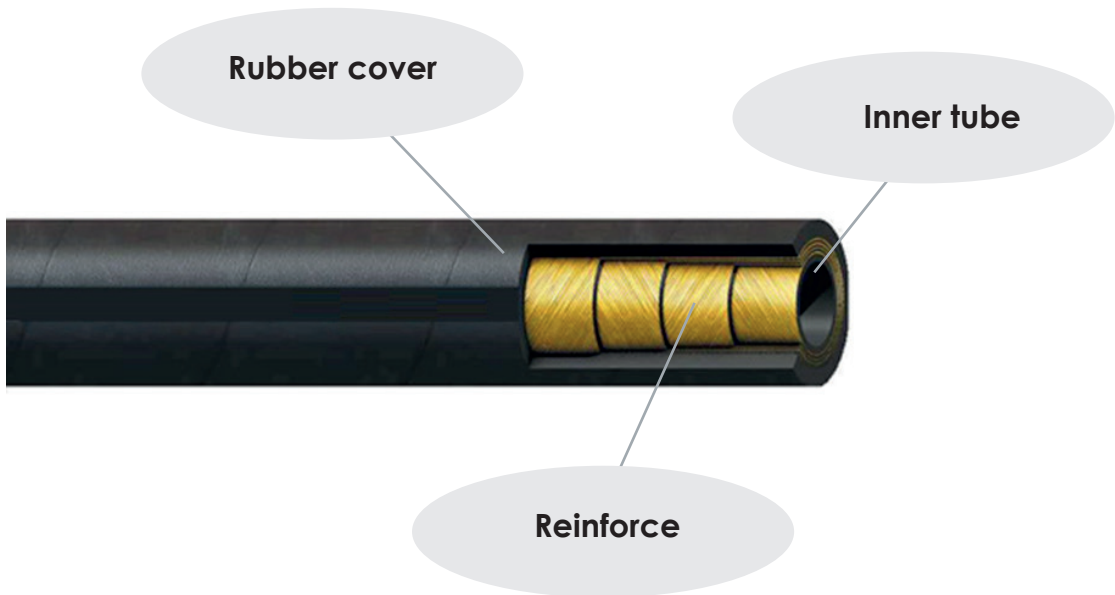


Thread Filettatura	Torque - Coppie	Working pressure
	+10% Nm -0% ISO 8434-6	Pressione di esercizio ISO 8434-6
1/8-28	10	350
1/4-19	20	350
3/8-19	35	350
1/2-14	60	315
5/8-14	70	315
3/4-14	115	250
1"-11	140	200
1 1/4-11	210	160
1 1/2-11	290	125
2"	-	80

General Note: Not lubricate the Thread and the Connection during the Tightening

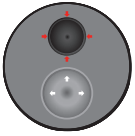
CONSTRUCTION

Hydraulic flexible hoses are made by an inner line which has the goal to contain the fluids that will flow internally. Over the inner line, there is the internal reinforcement of the hose which can guarantee the resistance to the pressure of the fluid. The reinforcements may be made by textile fibers or steel. In order to protect the internal layers of the hose from external agents, it's been applied an outside rubber cover.



All flexible hoses described can be assembled with Hydro Holding spa fittings.

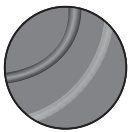
MAIN PARAMETERS



External diameter.



Maximum operating pressure during the use of the hose.



The minimum diameter that a bended hose can achieve without damage.



The hose flexibility helps the operator during assembly.



Abrasion resistance of cover.



Resistance to ozone and atmospheric agents.

On the following pages you will find a selection of the best performing hoses for hydraulic and non-hydraulic applications:

- High pressures and low oil applications
- Thermoplastic tube
- Washer hose
- PTFE hose for high temperatures

CATALOGUE

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HOSES

HYDRAULIC HOSE

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DRY SPIRAL HYDRAULIC FITTINGS

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HYDRAULIC CLAMPS

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HOSE PROTECTION

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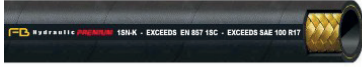
QRC & BALL VALVES

2i

MISCELLANEOUS

2j

HYDRAULIC HOSE



1SNK

WIRE BRAIDED HOSE FOR MEDIUM PRESSURE

PREMIUM HOSE 1 WIRE BRAID 1SNK

1SNK EXCEEDS EN 857 1SC - SAE 100 R17

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
1SNK-04	1/4"	6	10.1	12	290	4205	1160	40	0.17	BUK04
1SNK-05	5/16"	8	11.4	13.6	250	3625	1000	55	0.21	BUK05
1SNK-06	3/8"	10	13.6	15.9	230	3335	920	65	0.26	BUK06
1SNK-08	1/2"	12	16.9	19.2	200	2900	800	80	0.34	BUK08
1SNK-10	5/8"	16	20.3	22.3	150	2175	600	105	0.39	BUK10
1SNK-12	3/4"	19	23.9	26.1	125	1815	500	120	0.50	BUK12
1SNK-16	1"	25	31.0	33.1	110	1595	440	160	0.74	BUK16
1SNK-20	1.1/4"	31	40.2	43.7	100	1450	400	300	1.28	BUK20

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

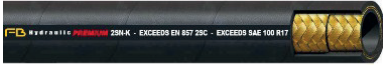
COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER
MSHA

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C
MAX 120 C INTERMITTENT

ANTI STATIC AND MSHA



2SNK

WIRE BRAIDED HOSE FOR MEDIUM PRESSURE

PREMIUM HOSE 2WIRE BRAID 2SNK

2SNK EXCEEDS EN 857 2SC - SAE 100 R16

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
2SNK-04	1/4"	6	11.4	13.4	450	6525	1800	45	0.27	BUK04
2SNK-05	5/16"	8	13.0	15.0	420	6090	1680	60	0.31	BUK05
2SNK-06	3/8"	10	14.9	17.0	385	5585	1540	70	0.39	BUK06
2SNK-08	1/2"	12	18.7	20.7	345	5000	1380	90	0.52	BUK08
2SNK-10	5/8"	16	21.6	23.6	290	4205	1160	130	0.61	BUK10
2SNK-12	3/4"	19	25.7	27.7	280	4060	1120	160	0.79	BUK12
2SNK-16	1"	25	32.9	35.6	200	2900	800	210	1.15	BUK16
2SNK-20	1.1/4"	31	40.5	43.5	175	2540	700	330	1.57	BUN20

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

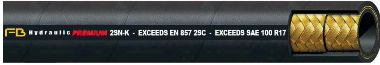
COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER
MSHA

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C
MAX 120 C INTERMITTENT

ANTI STATIC AND MSHA



2SNKSR

WIRE BRAIDED HOSE FOR MEDIUM PRESSURE

PREMIUM HOSE 2WIRE BRAID 2SNK

SUPERIOR ABRASION RESISTANCE

2SNK EXCEEDS EN 857 2SC - SAE 100 R16

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
2SNK-04SR	1/4"	6	11.4	13.4	450	6525	1800	45	0.27	BUK04
2SNK-05SR	5/16"	8	13.0	15.0	420	6090	1680	60	0.31	BUK05
2SNK-06SR	3/8"	10	14.9	17.0	385	5585	1540	70	0.39	BUK06
2SNK-08SR	1/2"	12	18.7	20.7	345	5000	1380	90	0.52	BUK08
2SNK-10SR	5/8"	16	21.6	23.6	290	4205	1160	130	0.61	BUK10
2SNK-12SR	3/4"	19	25.7	27.7	280	4060	1120	160	0.79	BUK12
2SNK-16SR	1"	25	32.9	35.6	200	2900	800	210	1.15	BUK16

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

COVER

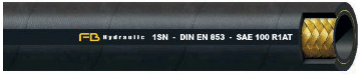
ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER
FLAME RESISTANT ACC TO MSHA AND DSK (LOBA) SPEC

SUPERIOR ABRASION RESISTANCE

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C
MAX 120 C INTERMITTENT

ANTI STATIC AND MSHA



1SN

WIRE BRAIDED HOSE FOR MEDIUM PRESSURE

HOSE 1 WIRE BRAID

EN853 1SN SAE 100 R1S

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
1SN-04	1/4"	6	10.9	13.0	225	3265	900	100	0.19	BUN04
1SN-05	5/16"	8	12.5	14.7	215	3120	860	115	0.22	BUN05
1SN-06	3/8"	10	14.8	16.8	180	2610	720	125	0.28	BUN06
1SN-08	1/2"	12	17.9	20.0	160	2320	640	180	0.36	BUN08
1SN-10	5/8"	16	21.0	23.2	130	1885	520	200	0.44	BUN10
1SN-12	3/4"	19	25.0	27.1	105	1525	420	240	0.56	BUN12
1SN-16	1"	25	32.9	35.1	88	1275	352	300	0.88	BUN16
1SN-20	1.1/4"	31	39.9	42.5	63	915	252	420	1.07	BUN20
1SN-24	1.1/2"	38	46.5	50.1	50	725	200	500	1.42	BUN24
1SN-32	2"	51	59.9	64.1	40	580	160	630	2.01	BUN32

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

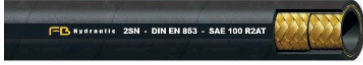
COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT



2SN

WIRE BRAIDED HOSE FOR MEDIUM PRESSURE

HOSE 2 WIRE BRAID

EN853 2SN SAE 100 R2S

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
2SN-04	1/4"	6	12.4	14.4	400	5800	1600	100	0.31	BUN04
2SN-05	5/16"	8	14.0	16.0	350	5075	1400	115	0.37	BUN05
2SN-06	3/8"	10	16.4	18.4	330	4785	1320	125	0.44	BUN06
2SN-08	1/2"	12	19.4	21.4	275	4000	1100	180	0.53	BUN08
2SN-10	5/8"	16	22.6	24.6	250	3625	1000	200	0.66	BUN10
2SN-12	3/4"	19	26.6	28.6	215	3120	850	240	0.84	BUN12
2SN-16	1"	25	34.5	37.1	165	2395	660	300	1.23	BUN16
2SN-20	1.1/4"	31	43.9	46.7	125	1815	500	420	1.77	BUN20
2SN-24	1.1/2"	38	51.1	54.5	90	1305	360	500	2.17	BUN24
2SN-32	2"	51	62.9	66.7	80	1160	320	630	2.79	BUN32

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

TWO BRAID OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT



TUBOGPROVEF

GATES HOSE 2 WIRE BRAID 2SC

HOSE BRAIDED HIGH-TENSILE STEEL WIRE

EN857 2SC, SAE 100 R16, ISO 11237



Article Code	Inside		Braid	Outside		Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr		
TUBOG04PROVEF	1/4"	6	11.1	13.2	400	5800	1600	50	0.25	BUK04/BUN04	
TUBOG05PROVEF	5/16"	8	12.3	14.7	350	5000	1400	55	0.30	BUK05/BUN05	
TUBOG06PROVEF	3/8"	10	14.7	16.6	330	4800	1320	65	0.33	BUK06/BUN06	
TUBOG08PROVEF	1/2"	12	18.1	20.3	275	4000	1100	90	0.46	BUK08/BUN08	
TUBOG10PROVEF	5/8"	16	21.4	23.6	250	3625	1000	100	0.54	BUK10/BUN10	
TUBOG12PROVEF	3/4"	19	25.2	27.4	215	3100	860	120	0.67	BUK12/BUN12	
TUBOG16PROVEF	1"	25	33.2	35.4	165	2400	660	150	1.02	BUK16/BUN16	

TUBE

NBR NITRILE BASED

REINFORCEMENT

BRAIDED HIGH TENSILE STEEL WIRE

COVER

NBR/PVC BASED

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT

ANTI STATIC & MSHA

TUBOGPRO1NEF

GATES HOSE 1 WIRE BRAID 1SN

HOSE 1 WIRE BRAID

EN853 1SN SAE 100 R1S



Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
TUBOG04PRO1NEF	1/4"	6	11.1	13.2	225	3250	900	100	0.23	BUK04
TUBOG05PRO1NEF	5/16"	8	12.6	15.1	215	3100	860	115	0.27	BUK05
TUBOG06PRO1NEF	3/8"	10	15.1	16.8	180	2600	720	130	0.34	BUK06
TUBOG08PRO1NEF	1/2"	12	18.2	19.8	160	2325	640	180	0.41	BUK08
TUBOG10PRO1NEF	5/8"	16	21.4	23.1	130	1900	520	200	0.51	BUK10
TUBOG12PRO1NEF	3/4"	19	25.4	27.2	105	1525	420	240	0.63	BUK12
TUBOG16PRO1NEF	1"	25	33.3	35.1	88	1275	352	300	0.94	BUK16
TUBOG201N	1.1/4"	32	40.5	43.4	64	925	256	420	1.20	BUN20
TUBOG241N	1.1/2"	38	46.8	49.8	50	725	200	500	1.50	BUN24
TUBOG321N	2"	51	60.3	64.0	42	600	168	630	2.10	BUN32

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT

ANTI STATIC & MSHA



TUBOGPRO2NEF

GATES HOSE 2 WIRE BRAID 2SN

HOSE 2 WIRE BRAID

EN853 2SN SAE 100 R2S



Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
TUBOG04PRO2NEF	1/4"	6	11.1	14.5	400	5800	1600	100	0.23	BUN04
TUBOG05PRO2NEF	5/16"	8	12.6	16.3	350	5000	1400	115	0.27	BUN05
TUBOG06PRO2NEF	3/8"	10	15.1	18.5	330	4800	1320	130	0.34	BUN06
TUBOG08PRO2NEF	1/2"	12	18.2	21.6	275	4000	1100	180	0.41	BUN08
TUBOG10PRO2NEF	5/8"	16	21.4	24.9	250	3625	1000	200	0.51	BUN10
TUBOG12PRO2NEF	3/4"	19	25.4	29.0	215	3100	860	240	0.63	BUN12
TUBOG16PRO2NEF	1"	25	33.3	37.1	165	2400	660	300	0.94	BUN16
TUBOG202N	1.1/4"	32	40.5	47.5	125	1825	500	420	1.20	BUN20
TUBOG242N	1.1/2"	38	46.8	54.6	90	1300	360	500	1.50	BUN24
TUBOG322N	2"	51	60.3	67.3	80	1175	320	630	2.10	BUN32

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

TWO BRAID OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT

ANTI STATIC & MSHA

TUBOGPRO1CEF

GATES HOSE 1 WIRE BRAID 1SC

HOSE 1 WIRE BRAID

EN853 1SC SAE 100 R1S



Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
TUBOG04PRO1CEF	1/4"	6	11.1	12.5	225	3250	900	75	0.23	BUK04
TUBOG05PRO1CEF	5/16"	8	12.6	13.6	215	3100	860	85	0.27	BUK05
TUBOG06PRO1CEF	3/8"	10	15.1	15.8	180	2600	720	90	0.34	BUK06
TUBOG08PRO1CEF	1/2"	12	18.2	19.0	160	2325	640	130	0.41	BUK08
TUBOG10PRO1CEF	5/8"	16	21.4	22.5	130	1900	520	150	0.51	BUK10
TUBOG12PRO1CEF	3/4"	19	25.4	25.9	105	1525	420	180	0.63	BUK12
TUBOG16PRO1CEF	1"	25	33.3	33.4	88	1275	352	230	0.94	BUK16

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C
MAX 120 C INTERMITTENT

ANTI STATIC & MSHA



TUBOGPRO2CEF

GATES HOSE 2 WIRE BRAID 2SC

HOSE 2 WIRE BRAID

EN853 2SC SAE 100 R2S



Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
TUBOG04PRO2CEF	1/4"	6	11.1	13.4	400	5800	1600	75	0.23	BUK04
TUBOG05PRO2CEF	5/16"	8	12.6	15.2	350	5000	1400	85	0.27	BUK05
TUBOG06PRO2CEF	3/8"	10	15.1	17.4	330	4800	1320	90	0.34	BUK06
TUBOG08PRO2CEF	1/2"	12	18.2	20.7	275	4000	1100	130	0.41	BUK08
TUBOG10PRO2CEF	5/8"	16	21.4	24.0	250	3625	1000	170	0.51	BUK10
TUBOG12PRO2CEF	3/4"	19	25.4	28.0	215	3100	860	200	0.63	BUK12
TUBOG16PRO2CEF	1"	25	33.3	35.3	165	2400	660	250	0.94	BUK16

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

TWO BRAID OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT

ANTI STATIC & MSHA



4SP

HOSE 4 SPIRAL 4SP

EN 856 4SP - SAE 100 R9R

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
4SP-06	3/8"	10	17.4	21.1	445	6455	1780	180	0.70	B4P06
4SP-08	1/2"	12	20.6	24.2	425	6165	1700	230	0.85	B4P08
4SP-10	5/8"	16	24.2	27.9	350	5075	1560	250	1.04	B4P10
4SP-12	3/4"	19	27.9	32.0	350	5075	1540	300	1.32	B4P12
4SP-16	1"	25	35.1	38.9	320	4640	1280	340	2.06	B4P16
4SP-20	1.1/4"	31	45.9	50.5	210	3045	960	460	3.14	B4P20
4SP-24	1.1/2"	38	52.1	56.8	185	2685	840	560	3.61	B4P24
4SP-32	2"	51	65.4	70.2	165	2395	660	660	5.13	B4P32

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

FOUR SPIRALS OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT

ANTI STATIC & MSHA



4SH

HOSE 4 SPIRAL 4SH

DIN EN 856 4SH

Article Code	Inside		Braid	Outside		Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr		
4SH-12	3/4"	19	28.3	31.9	430	6235	1720	210	1.43	B4P12	
4SH-16	1"	25	35.4	38.7	400	5800	1600	220	2.08	B4P16	
4SH-20	1.1/4"	31	42.3	45.2	360	5220	1440	240	2.58	B4H20	
4SH-24	1.1/2"	38	49.2	53.4	290	4200	1160	560	3.30	B4H24	
4SH-32	2"	51	63.2	67.3	250	3625	1000	700	4.94	B4H32	

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

FOUR SPIRALS OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C
MAX 120 C INTERMITTENT

MSHA AND ANTI STATIC



R13

HOSE 4 -6 SPIRAL R13

SAE 100 R13

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
R13-12	3/4"	19	28.6	32.3	350	5075	1400	240	1.57	BSN412A
R13-16	1"	25	35.5	38.7	350	5075	1400	300	1.92	BSN416A
R13-20	1.1/4"	31	46.8	49.8	350	5075	1400	420	3.60	BSS620
R13-24	1.1/2"	38	54.3	57.3	350	5075	1400	500	4.80	BSS624
R13-32	2"	51	68.1	71.1	350	5075	1400	630	6.60	BSS632

TUBE
SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT
FOUR - SIX SPIRALS OF HIGH TENSILE STEEL WIRE

COVER
ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)
FROM -40 C TO -100 C
MAX 120 C INTERMITTENT

MSHA AND ANTI STATIC



R15

HOSE 4 -6 SPIRAL R15

SAE 100 R15

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
R15-12	3/4"	19	28.3	31.9	420	6090	1680	265	1.43	BSN412A
R15-16	1"	25	35.4	38.7	420	6090	1680	330	2.16	BSN416A
R15-20	1.1/4"	31	48.0	51.3	420	6090	1680	445	2.96	BSS620
R15-24	1.1/2"	38	56.3	59.6	420	6090	1680	530	5.10	BSS624

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

FOUR - SIX SPIRALS OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT

MSHA & ANTI STATIC



1SNHW

1 WIRE BRAID JET WASH HOSE

Article Code	Inside		Braid	Outside		Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)		mm	mm	Bar	PSI				
1SNHW-04	1/4"	6	10.9	13.0	250	3625	900	100	0.19	BUN04	
1SNHW-05	5/16"	8	12.5	14.7	220	3190	860	115	0.22	BUN05	
1SNHW-06	3/8"	10	14.8	16.8	220	3190	720	125	0.28	BUN06	
1SNHW-08	1/2"	12	17.9	20.0	220	3190	640	180	0.36	BUN08	

TUBE
SYNTHETIC RUBBER RESISTANT AGAINST COLD & HOT WATER

REINFORCEMENT
ONE WIRE BRAID OF HIGH TENSILE STEEL WIRE

COVER
OZONE AND ABRASIVE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)
FROM -10 C TO -155 C



2SNHW

2 WIRE BRAID JET WASH HOSE

Article Code	Inside		Braid	Outside		Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr		
2SNHW-04	1/4"	6	12.4	13.4	400	5800	1600	100	0.19	BUN04	
2SNHW-05	5/16"	8	14.0	16.0	400	5800	1400	115	0.22	BUN05	
2SNHW-06	3/8"	10	16.4	18.4	400	5800	1320	125	0.28	BUN06	
2SNHW-08	1/2"	12	19.4	21.4	400	5800	1100	180	0.36	BUN08	

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST COLD & HOT WATER

REINFORCEMENT

TWO WIRE BRAID OF HIGH TENSILE STEEL WIRE

COVER

OZONE AND ABRASIVE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -10 C TO -155 C



1SNHWB

1 WIRE BRAID JET WASH HOSE BLUE COVER

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
1SNHWB-04	1/4"	6	10.9	13.0	250	3625	900	100	0.19	BUN04
1SNHWB-05	5/16"	8	12.5	14.7	220	3190	860	115	0.22	BUN05
1SNHWB-06	3/8"	10	14.8	16.8	220	3190	720	125	0.28	BUN06
1SNHWB-08	1/2"	12	17.9	20.0	220	3190	640	180	0.36	BUN08

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST COLD & HOT WATER

REINFORCEMENT

ONE WIRE BRAID OF HIGH TENSILE STEEL WIRE

COVER

OZONE AND ABRASIVE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -10 C TO -155 C



2SNHWB

2 WIRE BRAID JET WASH HOSE

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	mm	Bar	PSI	Bar	mm	Kg/Mtr	
2SNHWB-04	1/4"	6	12.4	13.4	400	5800	1600	100	0.19	BUN04
2SNHWB-05	5/16"	8	14.0	16.0	400	5800	1400	115	0.22	BUN05
2SNHWB-06	3/8"	10	16.4	18.4	400	5800	1320	125	0.28	BUN06
2SNHWB-08	1/2"	12	19.4	21.4	400	5800	1100	180	0.36	BUN08

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST COLD & HOT WATER

REINFORCEMENT

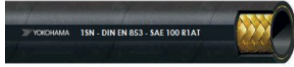
TWO WIRE BRAID OF HIGH TENSILE STEEL WIRE

COVER

OZONE AND ABRASIVE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -10 C TO -155 C



TUBOY1T

YOKOHAMA HOSE 1 WIRE BRAID 1SN

HOSE 1 WIRE BRAID

EN853 1SN SAE 100 R1S



Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
TUBOY041T	1/4"	6	11.1	13.4	225	3265	900	100	0.23	BUN04
TUBOY051T	5/16"	8	12.6	15.0	215	3120	860	115	0.27	BUN05
TUBOY061T	3/8"	10	15.1	17.4	180	2610	720	125	0.34	BUN06
TUBOY081T	1/2"	12	18.2	20.4	160	2320	640	180	0.41	BUN08
TUBOY101T	5/8"	16	21.4	23.8	130	1885	520	205	0.51	BUN10
TUBOY121T	3/4"	19	25.4	27.8	105	1525	420	240	0.63	BUN12
TUBOY161T	1"	25	33.3	35.6	88	1275	352	300	0.94	BUN16
TUBOY201T	1.1/4"	32	40.5	43.5	43	625	172	420	1.20	BUN20
TUBOY241T	1.1/2"	38	46.8	50.2	35	510	140	500	1.50	BUN24
TUBOY321T	2"	51	60.3	64.1	26	380	104	630	2.10	BUN32

NOTES

FROM DN31 TO DN51 RESPECT SAE NORM SAE 100 R1AT

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT



TUBOY2T

YOKOHAMA HOSE 2 WIRE BRAID 2SN

HOSE 2 WIRE BRAID

EN853 2SN SAE 100 R2S



Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
TUBOY042T	1/4"	6	12.7	15.1	400	5800	1600	100	0.40	BUN04
TUBOY052T	5/16"	8	14.3	16.7	350	5075	1400	115	0.45	BUN05
TUBOY062T	3/8"	10	16.7	19.1	330	4785	1320	125	0.54	BUN06
TUBOY082T	1/2"	12	19.8	22.2	275	4000	1100	180	0.67	BUN08
TUBOY102T	5/8"	16	23.0	25.4	250	3625	1000	205	0.78	BUN10
TUBOY122T	3/4"	19	27.0	29.4	215	3120	860	240	0.99	BUN12
TUBOY162T	1"	25	34.9	37.9	165	2395	660	300	1.47	BUN16
TUBOY202T	1.1/4"	32	44.4	47.8	113	1640	452	420	2.30	BUN20
TUBOY242T	1.1/2"	38	50.8	54.6	87	1260	348	500	2.60	BUN24
TUBOY322T	2"	51	63.5	67.3	78	1130	312	630	3.40	BUN32

NOTES

FROM DN31 TO DN51 RESPECT SAE NORM SAE 100 R2AT

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

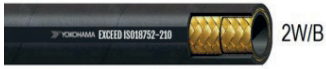
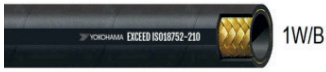
COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT



TUBOY21

YOKOHAMA HOSE ISO18752-210 BAR

NORM ISO18752

Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
TUBOY0421	1/4"	6	10.4	12.4	210	3000	840	45	0.18	BUK04
TUBOY0621	3/8"	10	14.3	16.7	210	3000	840	60	0.36	BUK06
TUBOY0821	1/2"	12	18.3	20.4	210	3000	840	80	0.49	BUK08
TUBOY1021	5/8"	16	21.5	24.1	210	3000	840	110	0.64	BUK10
TUBOY1221	3/4"	19	26.2	28.8	210	3000	840	130	0.93	BUK12
TUBOY1621	1"	25	33.0	35.9	210	3000	840	160	1.20	BUK16
TUBOY20SP	1.1/4"	32	41.6	44.4	210	3000	840	280	2.10	B4H20
TUBOY24SP	1.1/2"	38	48.9	51.5	210	3000	840	330	3.02	BSN424A
TUBOY32SP	2"	51	63.0	66.0	210	3000	840	430	4.65	BSN432A

NOTES

ONE WIRE BRAID DN06

TWO WIRE BRAID DN10 - DN25

FOUR SPIRAL DN32 - DN51

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

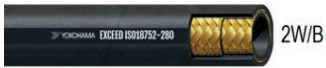
COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT



TUBOY28

YOKOHAMA HOSE ISO18752-280 BAR

NORM ISO18752



Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
TUBOY0428	1/4"	6	11.1	13.5	280	4000	1120	45	0.29	BUK04
TUBOY0628	3/8"	10	14.3	16.9	280	4000	1120	60	0.37	BUK06
TUBOY0828	1/2"	12	18.6	21.2	280	4000	1120	80	0.51	BUK08
TUBOY1028	5/8"	16	24.1	26.5	280	4000	1120	140	1.00	BHR10
TUBOY1228	3/4"	19	27.2	29.5	280	4000	1120	170	1.15	BSN412A
TUBOY1628	1"	25	34.5	37.0	280	4000	1120	220	1.68	BSN416A
TUBOY2028	1.1/4"	32	42.2	45.4	280	4000	1120	460	2.54	BSN420A
TUBOY2428	1.1/2"	38	48.9	52.3	280	4000	1120	560	3.02	BSN424A
TUBOY3228	2"	51	63.0	66.0	280	4000	1120	630	4.65	BSN432A

NOTES

TWO WIRE BRAID DN06 - DN12

FOUR SPIRAL DN16 - DN51

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT



4W/S



6W/S

TUBOY35

YOKOHAMA HOSE ISO18752-350 BAR

NORM ISO18752



Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
TUBOY0835	1/2"	12	20.7	23.1	280	4000	1120	45	0.29	BUK04
TUBOY10SP	5/8"	16	24.1	26.5	280	4000	1120	60	0.37	BUK06
TUBOY12SP	3/4"	19	28.0	30.4	280	4000	1120	80	0.51	BUK08
TUBOY16SP	1"	25	35.0	37.5	280	4000	1120	140	1.00	BHR10
TUBOY2013	1.1/4"	32	45.2	48.4	280	4000	1120	170	1.15	BSN420A
TUBOY2413	1.1/2"	38	52.5	56.0	280	4000	1120	220	1.68	BSN424A
TUBOY3213	2"	51	67.5	71.1	280	4000	1120	460	2.54	BSN432A

NOTES

FOUR WIRE SPIRAL DN12 - DN25

SIX WIRE SPIRAL DN32 - DN51

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C

MAX 120 C INTERMITTENT



TUBOY42

YOKOHAMA HOSE ISO18752-420 BAR

NORM ISO18752

DN32-38 SAE 100 R15



Article Code	Inside		Braid	Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)			mm	mm				
TUBOY08SP	1/2"	12	20.7	23.1	420	6000	1680	140	0.80	BHR08
TUBOY1042	5/8"	16	24.1	26.5	420	6000	1680	160	1.00	BHR10
TUBOY12SH	3/4"	19	28.0	30.4	420	6000	1680	180	1.30	BSN412A
TUBOY16SH	1"	25	35.0	37.5	420	6000	1680	240	1.43	BSN416A
TUBOY2015	1.1/4"	32	45.2	48.4	420	6000	1680	280	3.67	BSS620
TUBOY2415	1.1/2"	38	52.5	56.0	420	6000	1680	400	4.20	BSS624
TUBOY3242	2"	51	67.5	71.1	420	6000	1680	500	7.20	BSS632

NOTES

FOUR WIRE SPIRAL DN12 - DN25
SIX WIRE SPIRAL DN32 - DN51

TUBE

SYNTHETIC RUBBER RESISTANT AGAINST
HYDRAULIC FLUIDS

REINFORCEMENT

ONE BRAID OF HIGH TENSILE STEEL WIRE

COVER

ABRASION AND OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C
MAX 120 C INTERMITTENT



SAE 100 R6

HOSE 1 WIRE FIBER BRAID

SAE 100 R6

DIN EN 854

Article Code	Inside		Outside mm	Working Pressure		Burst Bar	Radius mm	Weight Kg/Mtr	Ferrule
	Inch	DN (mm)		Bar	PSI				
TUBO03R6	3/16"	5	10.7	34	493	136	50	0.10	B1C03
TUBO04R6	1/4"	6	12.3	28	406	112	65	0.11	B1C04
TUBO05R6	5/16"	8	13.9	28	406	112	80	0.13	B1C05
TUBO06R6	3/8"	10	15.5	28	406	112	80	0.15	B1C06
TUBO08R6	1/2"	12	19.0	28	406	112	100	0.20	B1C08
TUBO10R6	5/8"	16	22.9	24	348	96	125	0.25	B1C10
TUBO12R6	3/4"	19	25.8	21	305	84	150	0.30	B1C12
TUBO16R6	1"	25	33.2	9	131	36	170	0.45	B1C16

TUBE

SYNTHETIC RUBBER RESISTANT TO HYDRAULIC FLUIDS,
MINERAL OILS AND HYDROCARBONS

REINFORCEMENT

HIGH TENACITY TEXTILE FIBERS

COVER

ANTI ABRASIVE AND OZONE RESISTANT

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C



AIR HOSE

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	Kg/Mtr	
AIR-04	3/16"	5	14	20	300	900	30	0.187	B1C04
AIR-05	1/4"	6	15	20	300	900	75	0.222	B1C05
AIR-06	5/16"	8	16	20	300	900	90	0.259	B1C06
AIR-08	3/8"	10	20	20	300	900	115	0.368	B1C08
AIR-12	5/8"	16	28	20	300	900	150	0.530	B1C12
AIR-16	3/4"	19	36	20	300	900	210	0.848	B1C16

TUBE
FULLY FLEXIBLE ALLOY COMPOUND

REINFORCEMENT
SYNTHETIC TEXTILE

COVER
BLACK OZONE RESISTANT WITH YELLOW STRIPE

TEMPERATURE RANGE (FLUID)
FROM -30 C TO +60 C



MP HOSE

MULTIPURPOSE HOSE FOR OIL, FUEL, WATER & PETROLEUM BASED SOLUTIONS.

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	Kg/Mtr	
MP-04	1/4"	6	14	25	360	75	70	0.175	B1C04
MP-05	5/16"	8	16	25	360	75	90	0.210	B1C05
MP-06	3/8"	10	18	25	360	75	110	0.245	B1C06
MP-08	1/2"	13	21	25	360	75	130	0.300	B1C08
MP-10	5/8"	16	25	25	360	75	170	0.400	B1C16
MP-12	3/4"	19	29	25	360	75	200	0.510	B1C12
MP-16	1"	25	36	25	360	75	260	0.720	B1C16

TUBE

BLACK SMOOTH FUEL AND OIL RESISTANT CONDUCTIVE ELECTRICAL RESISTANT R<10

REINFORCEMENT

HIGH TENSILE SYNTHETIC FIBRES EXTREMELY FLEXIBLE

COVER

BLACK, SMOOTH, ABRASION OIL AGING AND WEATHER RESISTANT CR BASED COMPOUND

SUITABLE FOR OIL, FUEL, AIR, WATER AND PETROLEUM BASED SOLUTION. ALSO SUITABLE FOR UNLEADED FUEL

TEMPERATURE RANGE (FLUID)

FROM -30 C TO +60 C



SPR4

SUCTION HOSE 1 WIRE SPIRAL HOSE

SAE J 517 - SAE 100 R4

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	Kg/Mtr	
SP19R4	3/4"	19	29.0	21	305	84	95	0.60	BR412
SP25R4	1"	25	35.4	17	250	68	125	0.70	BR416
SP32R4	1.1/4"	32	41.8	14	200	56	160	0.90	BR420
SP38R4	1.1/2"	38	49.0	10	140	40	200	1.10	BR424
SP51R4	2"	51	62.0	7	100	28	255	1.35	BR432

TUBE

SYNTHETIC RUBBER RESISTANT TO HYDRAULIC FLUIDS

REINFORCEMENT

HIGH TENACITY TEXTILE FIBRES SPIRAL STEEL WIRE.

COVER

OZONE RESISTANT SYNTHETIC RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C



XLPE HOSE

CHEMICAL HOSE

Article Code	Inside		Outside mm	Working Pressure		Burst Bar	Radius mm	Weight Kg/Mtr	Ferrule
	Inch	DN (mm)		Bar	PSI				
XLPE-08	1/2"	13	24	10	145	30	114	0.50	BR308
XLPE-12	3/4"	19	31	16	232	48	125	0.645	BR412
XLPE-16	1"	25.4	37	16	232	48	150	0.82	BR416
XLPE-20	1.1/4"	32	44	16	232	48	175	1.025	BR420
XLPE-24	1.1/2"	38	51	16	232	48	225	1.385	BR424
XLPE-32	2"	50.8	67	16	232	48	275	2.245	BR432

TUBE

GREY XLPE LINER SUITABLE FOR COMMON CHEMICALS

REINFORCEMENT

HIGH TENSILE SYNTHETIC TEXTILE, STEEL WIRE HELIX AND ANTISTATIC COPPER WIRE

COVER

WEATHER, OZONE AND ABRASION RESISTANT EPDM RUBBER

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -80 C



THERMOPLASTIC HOSE



SAE 100 R7

THERMOPLASTIC HOSE SAE 100 R7

SAE 100 R7

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	Kg/Mtr	
R7-03	3/16"	5	10.0	210	3045	840	30	0.07	B1C03
R7-04	1/4"	6	11.8	200	2900	800	35	0.09	B1C04
R7-05	5/16"	8	14.3	190	2755	760	45	0.13	B1C05
R7-06	3/8"	10	16.0	175	2537	700	55	0.16	B1C06
R7-08	1/2"	12	20.3	140	2030	560	75	0.22	B1C08
R7-10	5/8"	16	23.5	105	1522	420	120	0.28	B1C10
R7-12	3/4"	19	26.5	90	1305	360	145	0.33	B1C12
R7-16	1"	25	33.6	70	1015	280	200	0.40	B1C16

TUBE
THERMOPLASTIC POLYESTER

REINFORCEMENT
POLYESTER FIBER

COVER
ANTIABRASIVE POLYURETHANE RESISTANT TO UV RAYS
AND RESISTANT TO MICROORGANISIMS

TEMPERATURE RANGE (FLUID)
FROM -40 C TO -100 C

TEMPERATURE RANGE (AIR, WATER & FLUIDS
CONTAINING WATER +70 C



SAE 100 R7 TWIN

THERMOPLASTIC HOSE SAE 100 R7

SAE 100 R7

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	Kg/Mtr	
R7T-03	3/16"	5	10.0	210	3045	840	30	0.07	B1C03
R7T-04	1/4"	6	11.8	200	2900	800	35	0.09	B1C04
R7T-05	5/16"	8	14.3	190	2755	760	45	0.13	B1C05
R7T-06	3/8"	10	16.0	175	2537	700	55	0.16	B1C06
R7T-08	1/2"	12	20.3	140	2030	560	75	0.22	B1C08
R7T-10	5/8"	16	23.5	105	1522	420	120	0.28	B1C10
R7T-12	3/4"	19	26.5	90	1305	360	145	0.33	B1C12
R7T-16	1"	25	33.6	70	1015	280	200	0.40	B1C16

TUBE
THERMOPLASTIC POLYESTER

REINFORCEMENT
POLYESTER FIBER

COVER
ANTIABRASIVE POLYURETHANE RESISTANT TO UV RAYS
AND RESISTANT TO MICROORGANISIMS

TEMPERATURE RANGE (FLUID)
FROM -40 C TO -100 C

TEMPERATURE RANGE (AIR, WATER & FLUIDS
CONTAINING WATER +70 C



SAE 100 R7 NC

THERMOPLASTIC HOSE SAE 100 R7

NON CONDUCTIVE ORANGE

SAE 100 R7

Article Code	Inside		Outside mm	Working Pressure		Burst Bar	Radius mm	Weight Kg/Mtr	Ferrule
	Inch	DN (mm)		Bar	PSI				
R70-03	3/16"	5	10.0	210	3045	840	30	0.07	B1C03
R70-04	1/4"	6	11.8	200	2900	800	35	0.09	B1C04
R70-05	5/16"	8	14.3	190	2755	760	45	0.13	B1C05
R70-06	3/8"	10	16.0	175	2537	700	55	0.16	B1C06
R70-08	1/2"	12	20.3	140	2030	560	75	0.22	B1C08
R70-10	5/8"	16	23.5	105	1522	420	120	0.28	B1C10
R70-12	3/4"	19	26.5	90	1305	360	145	0.33	B1C12
R70-16	1"	25	33.6	70	1015	280	200	0.40	B1C16

TUBE
THERMOPLASTIC POLYESTER

REINFORCEMENT
POLYESTER FIBER

COVER
ANTIABRASIVE POLYURETHANE RESISTANT TO UV RAYS
AND RESISTANT TO MICROORGANISIMS

TEMPERATURE RANGE (FLUID)
FROM -40 C TO -100 C

TEMPERATURE RANGE (AIR, WATER & FLUIDS
CONTAINING WATER +70 C



SAE 100 R8

THERMOPLASTIC HOSE SAE 100 R8

SAE 100 R8

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	Kg/Mtr	
R8-02	1/8"	3.5	7.1	420	6090	1680	30	0.025	
R8-03	3/16"	5	10.0	350	5075	1400	35	0.07	B1C03
R8-04	1/4"	6	11.8	350	5075	1400	50	0.09	B1C04
R8-05	5/16"	8	14.3	325	4712	1300	60	0.13	B1C05
R8-06	3/8"	10	16.0	280	4060	1120	70	0.15	B1C06
R8-08	1/2"	12	20.3	245	3552	980	95	0.23	B1C08
R8-10	5/8"	16	23.5	195	2827	780	125	0.27	B1C10
R8-12	3/4"	19	26.5	165	2392	660	150	0.35	B1C12
R8-16	1"	25	34.7	145	2100	580	200	0.50	B1C16

TUBE
THERMOPLASTIC POLYESTER

REINFORCEMENT
HIGH TENACITY POLYESTER FIBER

COVER
ANTIABRASIVE POLYURETHANE RESISTANT TO UV RAYS
AND RESISTANT TO MICROORGANISIMS

TEMPERATURE RANGE (FLUID)
FROM -40 C TO -100 C

TEMPERATURE RANGE (AIR, WATER & FLUIDS
CONTAINING WATER +70 C



SAE 100 R8 TWIN

THERMOPLASTIC HOSE SAE 100 R8

SAE 100 R8

Article Code	Inside		Outside mm	Working Pressure		Burst Bar	Radius mm	Weight Kg/Mtr	Ferrule
	Inch	DN (mm)		Bar	PSI				
R8T-03	3/16"	5	10.0	350	5075	1400	35	0.07	B1C03
R8T-04	1/4"	6	11.8	350	5075	1400	50	0.09	B1C04
R8T-05	5/16"	8	14.3	325	4712	1300	60	0.13	B1C05
R8T-06	3/8"	10	16.0	280	4060	1120	70	0.15	B1C06
R8T-08	1/2"	12	20.3	245	3552	980	95	0.23	B1C08
R8T-10	5/8"	16	23.5	195	2827	780	125	0.27	B1C10
R8T-12	3/4"	19	26.5	165	2392	660	150	0.35	B1C12
R8T-16	1"	25	34.7	145	2100	580	200	0.50	B1C16

TUBE
THERMOPLASTIC POLYESTER

REINFORCEMENT
HIGH TENACITY POLYESTER FIBER

COVER
ANTIABRASIVE POLYURETHANE RESISTANT TO UV RAYS
AND RESISTANT TO MICROORGANISIMS

TEMPERATURE RANGE (FLUID)
FROM -40 C TO -100 C

TEMPERATURE RANGE (AIR, WATER & FLUIDS)
CONTAINING WATER +70 C



SAE 100 R8 NC

THERMOPLASTIC HOSE SAE 100 R8

NON CONDUCTIVE ORANGE

SAE 100 R8

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	Kg/Mtr	
R80-02	1/8"	3.5	7.1	420	6090	1680	30	0.025	
R80-03	3/16"	5	10.0	350	5075	1400	35	0.07	B1C03
R80-04	1/4"	6	11.8	350	5075	1400	50	0.09	B1C04
R80-05	5/16"	8	14.3	325	4712	1300	60	0.13	B1C05
R80-06	3/8"	10	16.0	280	4060	1120	70	0.15	B1C06
R80-08	1/2"	12	20.3	245	3552	980	95	0.23	B1C08
R80-10	5/8"	16	23.5	195	2827	780	125	0.27	B1C10
R80-12	3/4"	19	26.5	165	2392	660	150	0.35	B1C12
R80-16	1"	25	34.7	145	2100	580	200	0.50	B1C16

TUBE
THERMOPLASTIC POLYESTER

REINFORCEMENT
POLYESTER FIBER

COVER
ANTIABRASIVE POLYURETHANE RESISTANT TO UV RAYS
AND RESISTANT TO MICROORGANISIMS

TEMPERATURE RANGE (FLUID)
FROM -40 C TO -100 C

TEMPERATURE RANGE (AIR, WATER & FLUIDS
CONTAINING WATER +70 C



MT1

1 WIRE BRAIDED THERMOPLASTIC HOSE

MEETS OR EXCEEDS SAE 100 R1

CREATED FOR HIGH PRESSURE USE FOR
POLYOILS, SOLVENTS, PAINTS & GAS

Article Code	Inside		Outside mm	Working Pressure		Burst Bar	Radius mm	Weight Kg/Mtr	Ferrule
	Inch	DN (mm)		Bar	PSI				
MT1-03	3/16"	5	10.0	350	5075	1400	30	0.131	B1C03
MT1-04	1/4"	6	11.9	300	4350	1200	40	0.165	B1C04
MT1-05	5/16"	8	14.0	240	3480	960	50	0.205	B1C05
MT1-06	3/8"	10	16.0	225	3262	900	60	0.253	B1C06
MT1-08	1/2"	12	19.2	190	2755	760	75	0.314	B1C08
MT1-10	5/8"	16	23.3	150	2175	600	110	0.406	B1C10
MT1-12	3/4"	19	25.5	130	1885	520	150	0.447	BUK12
MT1-16	1"	25	32.5	105	1520	420	185	0.590	BUK16

INTERNAL CORE IN POLYAMIDE

REINFORCEMENT
HIGH TENSILE STEEL BRAID

COVER
ANTIABRASIVE POLYURETHANE RESISTANT TO UV RAYS
AND RESISTANT TO MICROORGANISIMS

TEMPERATURE RANGE (FLUID)
FROM -40 C TO -100 C



MT2

2 WIRE BRAIDED THERMOPLASTIC HOSE

MEETS OR EXCEEDS SAE 100 R2

CREATED FOR HIGH PRESSURE USE FOR
POLYOILS, SOLVENTS, PAINTS & GAS

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Weight	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	Kg/Mtr	
MT2-04	1/4"	6	13.5	400	5800	1600	40	0.192	BUN04
MT2-05	5/16"	8	15.1	350	5075	1400	50	0.228	BUN05
MT2-06	3/8"	10	17.0	330	4785	1320	60	0.274	BUN06
MT2-08	1/2"	12	21.5	275	3988	1100	75	0.487	BUN08
MT2-10	5/8"	16	24.5	250	3625	1000	110	0.429	BUN10
MT2-12	3/4"	19	27.5	215	3118	860	150	0.514	BUN12
MT2-16	1"	25	35.0	165	2400	660	185	0.689	BUN16

INTERNAL CORE IN POLYAMIDE

REINFORCEMENT
HIGH TENSILE STEEL BRAID

COVER
ANTIABRASIVE POLYURETHANE RESISTANT TO UV RAYS
AND RESISTANT TO MICROORGANISIMS

TEMPERATURE RANGE (FLUID)
FROM -40 C TO -100 C



MTK 700 BAR

THERMOPLASTIC 700 BAR JACKING HOSE

SUITABLE FOR VERY HIGH PRESSURE FOR MEDIUMS SUCH AS POLYOILS, SOLVENTS AND PAINTS

Article Code	Inside		Outside mm	Working Pressure		Burst Bar	Radius mm	Weight Kg/Mtr	Ferrule
	Inch	DN (mm)		Bar	PSI				
MTK-04	1/4"	6	14.5	700	10150	2800	40	0.171	BUN04
MTK-06	3/8"	10	18.8	700	10150	2800	90	0.257	MTKF-06
MTK-08	1/2"	13	25.2	700	10150	2625	140	0.395	MTKF-08

TUBE

INTERNAL CORE IN POLYAMIDE,

REINFORCEMENT

REINFORCEMENTS WITH ARAMID FIBER BRAID AND HIGH TENSILE STEEL BRAID

COVER

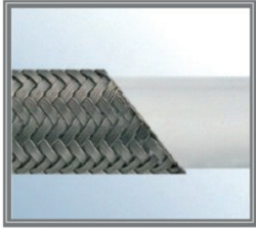
ANTI ABRASIVE AND OZONE RESISTANT POLYURETHANE.

TEMPERATURE RANGE (FLUID)

FROM -40 C TO -100 C



PTFE HOSE



PTFE SMOOTH

SAE 100 R14 PTFE SMOOTH BORE HOSE

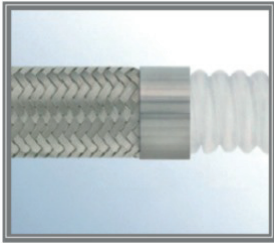
304 STAINLESS STEEL BRAID

Article Code	Inside		Outside mm	Working Pressure		Burst Bar	Radius mm	Ferrule
	Inch	DN (mm)		Bar	PSI			
PTFE-S-02	1/8"	3.4	6.1	207	3000	827	38	PTFE-02
PTFE-S-03	3/16"	4.93	7.77	207	3000	827	51	PTFE-03 / FRTE03
PTFE-S-04	1/4"	6.45	9.19	181	2525	724	76	PTFE04 / FRTE04
PTFE-S-05	5/16"	7.95	11.0	172	2494	690	100	PTFE05 / FRTE05
PTFE-S-06	3/8"	9.52	12.7	155	2248	621	127	PTFE06 / FRTE06
PTFE-S-07	13/32"	10.46	13.6	138	2001	552	133	ON REQUEST
PTFE-S-08	1/2"	12.8	16.08	103	1493	414	165	PTFE08 / FRTE08
PTFE-S-10	5/8"	15.88	19.38	86	1247	345	197	PTFE10 / FRTE10
PTFE-S-12	3/4"	19.0	22.22	76	1102	303	229	PTFE12 / FRTE12
PTFE-S-14	7/8"	22.22	25.78	69	1000	276	229	ON REQUEST
PTFE-S-16	1"	25.4	28.83	62	899	248	305	PTFE16 / FRTE16

TUBE
PTFE INTERNAL CORE

REINFORCEMENT
304 STAINLESS STEEL SINGLE BRAID

TEMPERATURE RANGE (FLUID)
FROM -60 C TO -260 C



PTFE CONVOLUTED

SAE 100 R14 PTFE CONVOLUTED BORE HOSE

304 STAINLESS STEEL BRAID

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	
PTFE-C-04	1/4"	7.1	12.3	172	2495	517	18	PTFE04 / FRTC04
PTFE-C-05	5/16"	7.95	14.1	150	2175	450	19	PTFE05 / FRTC05
PTFE-C-06	3/8"	9.5	15.25	138	2001	414	20	PTFE06 / FRTC06
PTFE-C-08	1/2"	12.83	18.8	103	1494	310	25	PTFE08 / FRTC08
PTFE-C-10	5/8"	15.88	22.1	83	1204	248	51	PTFE10 / FRTC10
PTFE-C-12	3/4"	19.05	24.65	69	1001	207	64	PTFE12 / FRTC12
PTFE-C-16	1"	25.4	32.77	46	667	138	89	PTFE16 / FRTC16
PTFE-C-20	1.1/4"	32.2	40.72	34	493	103	127	PTFE20 / FRTC20
PTFE-C-24	1.1/2"	38.1	48.25	30	435	90	152	PTFE24 / FRTC24
PTFE-C-32	2"	51.4	61.5	23	333	69	200	PTFE32 / FRTC32

TUBE

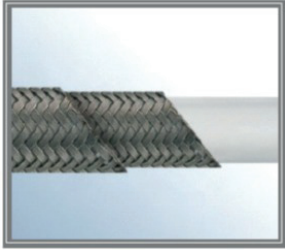
PTFE INTERNAL CORE

REINFORCEMENT

304 STAINLESS STEEL SINGLE BRAID

TEMPERATURE RANGE (FLUID)

FROM -60 C TO -260 C



PTFE SMOOTH DOUBLE BRAID

PTFE SMOOTH BORE DOUBLE BRAID HOSE

304 STAINLESS STEEL BRAID

Article Code	Inside		Outside	Working Pressure		Burst	Radius	Ferrule
	Inch	DN (mm)	mm	Bar	PSI	Bar	mm	
PTFE-S-04-D	1/4"	6.22	9.78	276	4000	828	76	PTFE-04 / FR7C04
PTFE-S-05-D	5/16"	7.8	11.63	252	3655	759	102	B1C05 / FR705
PTFE-S-06-D	3/8"	8.94	12.95	252	3655	759	127	B1C06 / FR706
PTFE-S-08-D	1/2"	12.37	16.92	183	2654	552	140	B1C08 / FR708
PTFE-S-10-D	5/8"	15.15	19.68	172	2495	517	165	PTFE10 / FR710
PTFE-S-12-D	3/4"	18.9	23.62	149	2161	448	203	PTFE12 / FR712
PTFE-S-16-D	1"	25.4	31.0	92	1334	276	305	PTFE16 / FR716

TUBE

PTFE INTERNAL CORE

REINFORCEMENT

304 STAINLESS STEEL DOUBLE BRAID

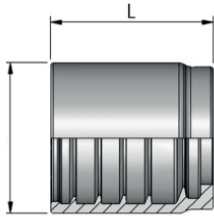
TEMPERATURE RANGE (FLUID)

FROM -60 C TO -260 C



DRY FIT

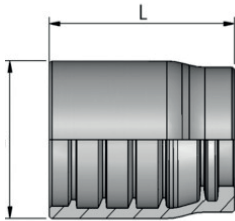
HYDRAULIC FITTINGS



BUN

NO SKIVE FERRULES SUITABLE FOR
 DIN EN 853 1SN/2SN
 SAE 100 R1AT/R2AT
 DIN EN 857 2SC
 2SNK PREMIUM

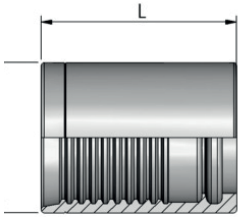
Article Code	Hose		Dimensions		Hose Type
	Inch	DN (mm)	D	L	
BUN03	3/16"	5	20	26	1/2SN 2SC 2SNK
BUN04	1/4"	6	23	26	1/2SN 2SC 2SNK
BUN05	5/16"	8	24	26	1/2SN 2SC 2SNK
BUN06	3/8"	10	26	30	1/2SN 2SC 2SNK
BUN08	1/2"	12	29	33	1/2SN 2SC 2SNK
BUN10	5/8"	16	33	36	1/2SN 2SC 2SNK
BUN12	3/4"	19	37	39	1/2SN 2SC 2SNK
BUN16	1"	25	46	44	1/2SN 2SC 2SNK
BUN20	1.1/4"	32	59	59	1/2SN 2SC 2SNK
BUN24	1.1/2"	38	67	67	1/2SN 2SC 2SNK
BUN32	2"	51	80	72	1/2SN 2SC 2SNK



BUK

NO SKIVE FERRULES SUITABLE FOR
 DIN EN 857 1SC/2SC
 SAE 100 R1AT
 2SNK PREMIUM

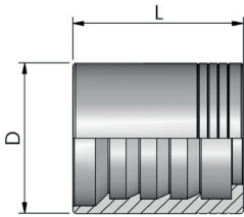
Article Code	Hose		Dimensions		Hose Type
	Inch	DN (mm)	D	L	
BUK04	1/4"	6	20	26	1/2SC 1/2SNK 1SN
BUK05	5/16"	8	22	26	1/2SC 1/2SNK 1SN
BUK06	3/8"	10	25	31	1/2SC 1/2SNK 1SN
BUK08	1/2"	12	29	33	1/2SC 1/2SNK 1SN
BUK10	5/8"	16	32	36	1/2SC 1/2SNK 1SN
BUK12	3/4"	19	36	39	1/2SC 1/2SNK 1SN
BUK16	1"	25	45	44	1/2SC 1/2SNK 1SN



B1C

NO SKIVE FERRULES SUITABLE FOR
 DIN EN 857 1SC
 1SNK PREMIUM
 SAE 100 R7
 SAE 100 R8

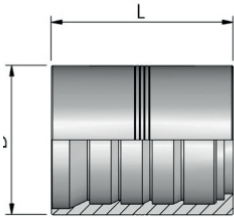
Article Code	Hose		Dimensions		Hose Type
	Inch	DN (mm)	D	L	
B1C03	3/16"	5	16	24	1SC 1SNK R7/R8
B1C04	1/4"	6	18	27	1SC 1SNK R7/R8
B1C05	5/16"	8	20	27	1SC 1SNK R7/R8
B1C06	3/8"	10	22	31	1SC 1SNK R7/R8
B1C08	1/2"	12	25	33	1SC 1SNK R7/R8
B1C10	5/8"	16	29	36	1SC 1SNK R7/R8



B4P

SKIVE FERRULE FOR
 4SP - R9R - R10 - R12
 ISO210 - ISO280 - ISO350 - ISO420
 4SH 3/4" & 1"

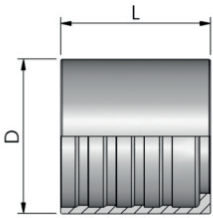
Article Code	Hose		Dimensions			Hose Type
	Inch	DN (mm)	D	L	Ext Skive	
B4P04	1/4"	6	21	30	19	R9R 4SP
B4P06	3/8"	10	26	32	23	R9R 4SP
B4P08	1/2"	12	30	34	23	R9R 4SP
B4P10	5/8"	16	34	37	32	R9R 4SP
B4P12	3/4"	19	38	52	37	R9R 4SP 4SH
B4P16	1"	25	46	60	43	R9R 4SP 4SH
B4P20	1.1/4"	32	56	66	49	R9R 4SP
B4P24	1.1/2"	38	65	77	55.5	R9R 4SP
B4P32	2"	51	80	80	58.5	R9R 4SP



B4H

SKIVE FERRULE FOR
4SH

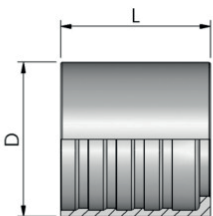
Article Code	Hose		Dimensions			Hose Type
	Inch	DN (mm)	D	L	Ext Skive	
B4H20	1.1/4"	32	52	66	51	4SH
B4H24	1.1/2"	38	62	77	58	4SH
B4H32	2"	51	75	80	60	4SH



BR4

NO SKIVE FERRULE FOR
SAE 100 R4
SUCTION DELIVERY HOSE
CHEMICAL HOSE

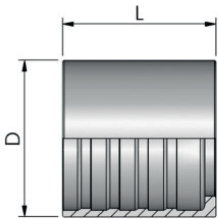
Article Code	Hose		Dimensions		Hose Type
	Inch	DN (mm)	D	L	
BR412	3/4"	19	37	41.5	SAE 100 R4
BR416	1"	25	45	45	SAE 100 R4
BR420	1.1/4"	32	52	51	SAE 100 R4
BR424	1.1/2"	38	60	57	SAE 100 R4
BR432	2"	51	70	63	SAE 100 R4



BR3

NO SKIVE FERRULE FOR
SAE 100 R3

Article Code	Hose		Dimensions		Hose Type
	Inch	DN (mm)	D	L	
BR304	1/4"	6	20	27	SAE 100 R3
BR305	5/16"	8	23	29	SAE 100 R3
BR306	3/8"	10	25	32	SAE 100 R3
BR308	1/2"	12	30	35	SAE 100 R3



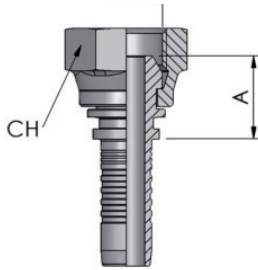
PTFE

NO SKIVE CARBON STEEL FERRULE FOR

PTFE SMOOTH HOSE

PTFE CONVOLUTED HOSE

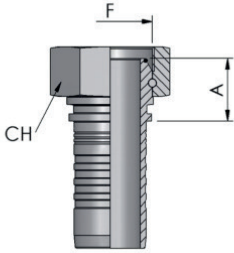
Article Code	Hose		Dimensions			Hose Type
	Inch	DN (mm)	I.D	D	L	
PTFE03	3/16"	5	9.2	12.6	22.0	PTFE-S PTFE-C
PTFE04	1/4"	6	11.0	14.9	28.0	PTFE-S PTFE-C
PTFE05	5/16"	8	13.0	17.6	30.0	PTFE-S PTFE-C
PTFE06	3/8"	10	15.3	19.0	32.2	PTFE-S PTFE-C
PTFE08	1/2"	12	20.0	24.9	32.2	PTFE-S PTFE-C
PTFE10	5/8"	16	24.7	29.9	36.0	PTFE-S PTFE-C
PTFE12	3/4"	19	27.6	33.0	39.2	PTFE-S PTFE-C
PTFE16	1"	25	36.7	42.1	47.0	PTFE-S PTFE-C
PTFE20	1.1/4"	32	42.9	47.8	54.0	PTFE-S PTFE-C
PTFE24	1.1/2"	38	48.7	54.9	65.1	PTFE-S PTFE-C
PTFE32	2"	51	61.8	68.1	78.8	PTFE-S PTFE-C



FG

BSP FITTINGS 60°
DKR BSP 60° CONE FITTINGS

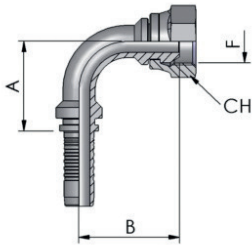
Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
FG0203	1/8"-28	3/16"	5	14	15.7
FG0204	1/8"-28	1/4"	6	14	15.9
FG0403	1/4"-19	3/16"	5	19	17.4
FG0404	1/4"-19	1/4"	6	19	17.6
FG0405	1/4"-19	5/16"	8	19	17.6
FG0406	1/4"-19	3/8"	10	19	17.7
FG0604	3/8"-19	1/4"	6	22	18.7
FG0605	3/8"-19	5/16"	8	22	18.7
FG0606	3/8"-19	3/8"	10	22	18.8
FG0608	3/8"-19	1/2"	12	22	19.4
FG0804	1/2"-14	1/4"	6	27	22.5
FG0805	1/2"-14	5/16"	8	27	20.5
FG0806	1/2"-14	3/8"	10	27	20.6
FG0808	1/2"-14	1/2"	12	27	21.2
FG0810	1/2"-14	5/8"	16	27	21.2
FG0812	1/2"-14	3/4"	19	27	24
FG1008	5/8"-14	1/2"	12	30	21.3
FG1010	5/8"-14	5/8"	16	30	21.3
FG1208	3/4"-14	1/2"	12	32	25.3
FG1210	3/4"-14	5/8"	16	32	22.8
FG1212	3/4"-14	3/4"	19	32	22.8
FG1216	3/4"-14	1"	25	32	27.5
FG1612	1"-11	3/4"	19	38	24.5
FG1616	1"-11	1"	25	38	24.5



PFG

BSP FITTINGS 60° 'O' RING
 DKOR BSP THRUST WIRE NUT 60° CONE FITTINGS

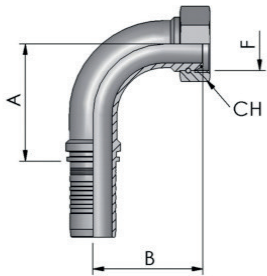
Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
PFG1010	5/8"-14	5/8"	16	30	31
PFG1212	3/4"-14	3/4"	19	32	27
PFG1616	1"-11	1"	25	41	31
PFG2016	1.1/4"-11	1"	25	50	32.6
PFG2020	1.1/4"-11	1.1/4"	32	50	31
PFG2420	1.1/2"-11	1.1/4"	32	55	32.7
PFG2424	1.1/2"-11	1.1/2"	38	55	32.7
PFG3224	2"-11	1.1/2"	38	70	29.8
PFG3232	2"-11	2"	51	70	29.8



C90G

BSP FITTINGS 60°
DKR BSP SWEPT 90 60° FITTINGS

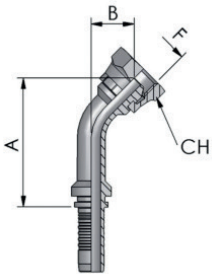
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
C90G0203	1/8"-28	3/16"	5	15	26	27
C90G0204	1/8"-28	1/4"	6	15	23	26
C90G0403	1/4"-19	3/16"	5	19	26	29
C90G0404	1/4"-19	1/4"	6	19	23	29
C90G0405	1/4"-19	5/16"	8	19	33	32
C90G0406	1/4"-19	3/8"	10	19	35	33
C90G0604	3/8"-19	1/4"	6	22	23	33
C90G0605	3/8"-19	5/16"	8	22	33	34
C90G0606	3/8"-19	3/8"	10	22	35	36
C90G0608	3/8"-19	1/2"	12	22	39	40
C90G0804	1/2"-14	1/4"	6	27	28	34
C90G0805	1/2"-14	5/16"	8	27	33	38
C90G0806	1/2"-14	3/8"	10	27	35	40
C90G0808	1/2"-14	1/2"	12	27	39	44
C90G0810	1/2"-14	5/8"	16	27	48	47
C90G1008	5/8"-14	1/2"	12	30	39	47
C90G1010	5/8"-14	5/8"	16	30	48	50
C90G1208	3/4"-14	1/2"	12	32	39	49
C90G1210	3/4"-14	5/8"	16	32	48	52
C90G1212	3/4"-14	3/4"	19	32	50	52
C90G1612	1"-11	3/4"	19	38	50	56
C90G1616	1"-11	1"	25	38	72	67



PC90G

BSP FITTINGS 60°
 DKOR BSP SWEPT 90° THRUST WIRE 'O' RING
 60° FITTINGS

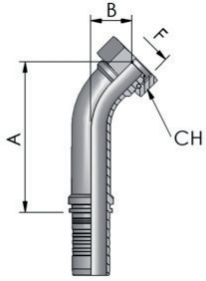
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	A
PC90G1212	3/4"-14	3/4"	19	32	54	56
PC90G1616	1"-11	1"	25	41	70	72
PC90G2016	1.1/4"-11	1"	25	50	72	74
PC90G2020	1.1/4"-11	1.1/4"	32	50	88	80
PC90G2420	1.1/2"-11	1.1/4"	32	55	88	84
PC90G2424	1.1/2"-11	1.1/2"	38	55	99	92
PC90G3224	2"-11	1.1/2"	38	70	99	97
PC90G3232	2"-11	2"	51	70	128	110



C45G

BSP FITTINGS 45°
DKR BSP SWEPT 45 60° FITTINGS

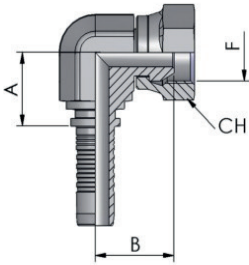
Article Code	Thread	Hose		Dimensions		
	F	Inch	DN (mm)	CH	A	B
C45G0203	1/8"-28	3/16"	5	15	38	13
C45G0204	1/8"-28	1/4"	6	15	38	13
C45G0403	1/4"-19	3/16"	5	19	40	16
C45G0404	1/4"-19	1/4"	6	19	41	16
C45G0405	1/4"-19	5/16"	8	19	53	17
C45G0406	1/4"-19	3/8"	10	19	55	17
C45G0604	3/8"-19	1/4"	6	22	43	18
C45G0605	3/8"-19	5/16"	8	22	54	18
C45G0606	3/8"-19	3/8"	10	22	57	18
C45G0608	3/8"-19	1/2"	12	22	62	19
C45G0806	1/2"-14	3/8"	10	27	60	21
C45G0808	1/2"-14	1/2"	12	27	65	22
C45G1008	5/8"-14	1/2"	12	30	68	25
C45G1010	5/8"-14	5/8"	16	30	77	25
C45G1208	3/4"-14	1/2"	12	32	69	26
C45G1210	3/4"-14	5/8"	16	32	79	27
C45G1212	3/4"-14	3/4"	19	32	82	26
C45G1612	1"-11	3/4"	19	38	84	28
C45G1616	1"-11	1"	25	38	111	31



PC45G

BSP FITTINGS 45°
 DKOR BSP SWEPT 45 THRUST WIRE 'O' RING
 60° CONE FITTINGS

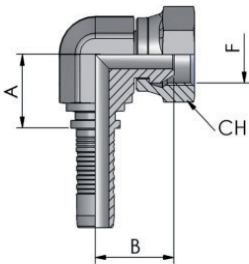
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	A
PC45G1212	3/4"-14	3/4"	19	32	82	30
PC45G1616	1"-11	1"	25	38	90	41
PC45G2016	1.1/4"-11	1"	25	50	116	36
PC45G2020	1.1/4"-11	1.1/4"	32	50	134	37
PC45G2424	1.1/2"-11	1.1/2"	32	55	152	40
PC45G3224	2"-11	1.1/2"	38	70	155	44
PC45G3232	2"-11	2"	51	70	188	44



C90COMPG

BSP FITTINGS 60°
DKR BSP COMPACT 90 60° FITTINGS
FORGED BODY

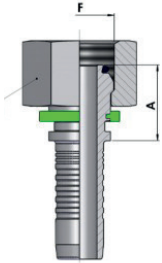
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
C90COMPG0404	1/4"-19	1/4"	6	19	21	23
C90COMPG0606	3/8"-19	3/8"	10	22	22	24
C90COMPG0808	1/2"-14	1/2"	12	27	24	27
C90COMPG1212	3/4"-14	3/4"	19	32	32	35
C90COMPG1616	1"-11	1"	25	38	34	40



C90COMPG

BSP FITTINGS 60°
DKR BSP COMPACT 90 60° FITTINGS
ROUND BODY

Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
C90COMPG0404B	1/4"-19	1/4"	6	19	21	23
C90COMPG0606B	3/8"-19	3/8"	10	22	22	24
C90COMPG0808B	1/2"-14	1/2"	12	27	24	27
C90COMPG1212B	3/4"-14	3/4"	19	32	32	35
C90COMPG1616B	1"-11	1"	25	38	34	40
C90COMPG2020B	1.1/4"-11	1.1/4"	32	50	43	45

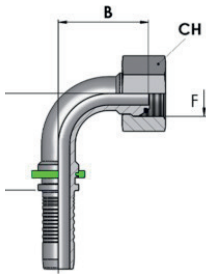


SFORG

DKOR BSP FITTINGS 60° SLIP BACK NUT
'O' RING

THREAD BSP
NORM BS 5200

Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
SFORG0404	1/4"-19	1/4"	6	19	17
SFORG0604	3/8"-19	1/4"	6	22	19
SFORG0606	3/8"-19	3/8"	10	22	19
SFORG0806	1/2"-14	3/8"	10	27	20
SFORG0808	1/2"-14	1/2"	12	27	21

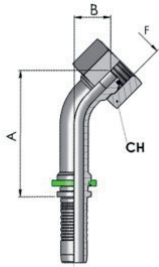


SC90ORG

DKOR BSP FITTINGS 60° SLIP BACK NUT
'O' RING SWEPT 90

THREAD BSP
NORM BS 5200

Article Code	Thread	Hose		Dimensions	
	F	Inch	DN (mm)	CH	A
SC90ORG0404	1/4"-19	1/4"	6	19	30
SC90ORG0606	3/8"-19	3/8"	10	22	38
SC90ORG0806	1/2"-14	3/8"	10	27	38
SC90ORG0808	1/2"-14	1/2"	12	27	40

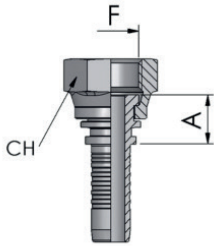


SC45ORG

DKOR BSP FITTINGS 60° SLIP BACK NUT
'O' RING SWEPT 45

THREAD BSP
NORM BS 5200

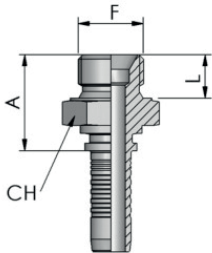
Article Code	Thread	Hose		Dimensions	
	F	Inch	DN (mm)	CH	A
SC45ORG0404	1/4"-19	1/4"	6	19	47
SC45ORG0606	3/8"-19	3/8"	10	22	56
SC45ORG0808	1/2"-14	1/2"	12	27	62



FSPG

BSP FITTINGS
DKR F BSP FEMALE FLAT FACE

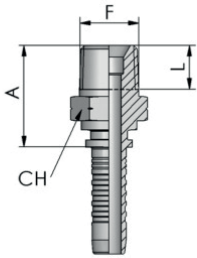
Article Code	Thread	Hose		Dimensions	
	F	Inch	DN (mm)	CH	A
FSPG0404	1/4"-19	1/4"	6	19	14.4
FSPG0606	3/8"-19	3/8"	10	22	14.9
FSPG0806	1/2"-19	3/8"	10	27	15.7
FSPG0808	1/2"-19	1/2"	12	27	16.3
FSPG1208	3/4"-14	1/2"	12	32	21
FSPG1210	3/4"-14	5/8"	16	32	18.5
FSPG1212	3/4"-14	3/4"	19	32	19.5
FSPG1616	1"-11	1"	25	38	21.2



MG

BSP FITTINGS 60
AGR BSPP MALE 60° CONE

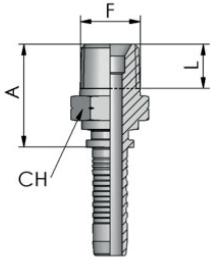
Article Code	Thread	Hose		Dimensions		
	F	Inch	DN (mm)	CH	A	B
MG0203	1/8"-28	3/16"	5	15	20.3	8
MG0204	1/8"-28	1/4"	6	15	20.5	8
MG0403	1/4"-19	3/16"	5	19	25.3	12
MG0404	1/4"-19	1/4"	6	19	25.5	12
MG0405	1/4"-19	5/16"	8	19	25.5	12
MG0406	1/4"-19	3/8"	10	19	26.5	12
MG0604	3/8"-19	1/4"	6	22	26.6	12
MG0605	3/8"-19	5/16"	8	22	26.6	12
MG0606	3/8"-19	3/8"	10	22	27.2	12
MG0608	3/8"-19	1/2"	12	22	27.8	12
MG0804	1/2"-14	1/4"	6	27	29.7	14
MG0806	1/2"-14	3/8"	10	27	30.3	14
MG0808	1/2"-14	1/2"	12	27	30.9	14
MG0810	1/2"-14	5/8"	16	27	30.9	14
MG1008	5/8"-14	1/2"	12	28	34.2	16
MG1010	5/8"-14	5/8"	16	28	34.2	16
MG1208	3/4"-14	1/2"	12	32	34.3	16
MG1210	3/4"-14	5/8"	16	32	34.3	16
MG1212	3/4"-14	3/4"	19	32	35	16
MG1612	1"-11	3/4"	19	41	37.1	18
MG1616	1"-11	1"	25	41	38.1	18
MG2016	1.1/4"-11	1"	25	50	46.1	20
MG2020	1.1/4"-11	1.1/4"	32	50	50	47.5
MG2420	1.1/2"-11	1.1/4"	32	55	55	50.5
MG2424	1.1/2"-11	1.1/2"	38	55	55	51
MG3232	2"-11	2"	51	70	70	54



MC

BSP FITTINGS 60
AGR K BSPT MALE 60° CONE

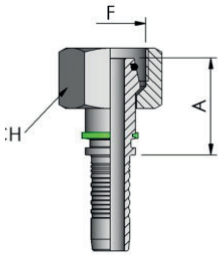
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
MC0203	1/8"-28	3/16"	5	12	21.9	10
MC0204	1/8"-28	1/4"	6	12	22.2	10
MC0404	1/4"-19	1/4"	6	15	27	14
MC0406	1/4"-19	3/8"	10	15	25	12.5
MC0604	3/8"-19	1/4"	6	19	28.5	15
MC0606	3/8"-19	3/8"	10	19	29	14.5
MC0806	1/2"-14	3/8"	10	22	34.5	19
MC0808	1/2"-14	1/2"	12	22	35.1	19
MC1212	3/4"-14	3/4"	19	27	37.1	19
MC1612	1"-11	3/4"	19	36	43.1	24
MC1616	1"-11	1"	25	36	44.1	24
MC2020	1.1/4"-11	1.1/4"	32	46	49.5	24.5
MC2424	1.1/2"-11	1.1/2"	38	50	51	25
MC3232	2"-11	2"	51	65	53	26



MNPT

NPT FITTINGS
AGN - NPTF MALE

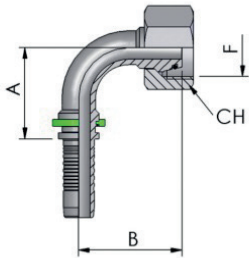
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	L
MNPT0203	1/8"-27	3/16"	5	12	21.6	9.7
MNPT0204	1/8"-27	1/4"	6	12	21.9	9.7
MNPT0404	1/4"-18	1/4"	6	15	27.1	14.2
MNPT0405	1/4"-18	5/16"	8	15	27.1	14.2
MNPT0406	1/4"-18	3/8"	10	15	27.7	14.2
MNPT0604	3/8"-18	1/4"	6	19	28.2	14.2
MNPT0605	3/8"-18	5/16"	8	19	28.2	14.2
MNPT0606	3/8"-18	3/8"	10	19	28.7	14.2
MNPT0608	3/8"-18	1/2"	12	19	29.3	14.2
MNPT0806	1/2"-14	3/8"	10	22	34.5	19
MNPT0808	1/2"-14	1/2"	12	22	35.1	19
MNPT1208	3/4" 14	1/2"	12	27	36.1	19
MNPT1210	3/4"-14	5/8"	16	27	36.1	19
MNPT1212	3/4"-14	3/4"	19	27	37.1	19
MNPT1616	1"-11.5	1"	25	36	44	23.9
MNPT2016	1.1/4"-11.5	1"	25	46	48.2	24.6
MNPT2020	1.1/4"-11.5	1.1/4"	32	46	49.6	24.6
MNPT2424	1.1/2"-11.5	1.1/2"	38	50	50.9	25.4
MNPT3232	2"-11.5	2"	51	65	53.2	26.2



FEL

METRIC 24°
DKOL - METRIC 'O' RING FEMALE LIGHT SERIES
NORM DIN 2865

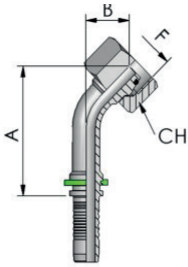
Article Code	Thread	Hose		Standpipe	Dimensions	
		Inch	DN (mm)	mm	CH	A
FEL0603	M12x1.5	3/16"	5	6	14	22.2
FEL0604	M12x1.5	1/4"	6	6	14	26.5
FEL0803	M14x1.5	3/16"	5	8	17	22.2
FEL0804	M14x1.5	1/4"	6	8	17	22.4
FEL1004	M16x1.5	1/4"	6	10	19	24.6
FEL1005	M16x1.5	5/16"	8	10	19	24.6
FEL1006	M16x1.5	3/8"	10	10	19	28.5
FEL1204	M18x1.5	1/4"	6	12	22	23.9
FEL1205	M18x1.5	5/16"	8	12	22	23.9
FEL1206	M18x1.5	3/8"	10	12	22	24
FEL1506	M22x1.5	3/8"	10	15	27	25.2
FEL1508	M22x1.5	1/2"	12	15	27	25.8
FEL1808	M26x1.5	1/2"	12	18	32	26.8
FEL1810	M26x1.5	5/8"	16	18	32	26.8
FEL2210	M30x2	5/8"	16	22	36	28.8
FEL2212	M30x2	3/4"	19	22	36	29.8
FEL2816	M36x2	1"	25	28	41	31.3
FEL3520	M45x2	1.1/4"	32	35	50	36.4
FEL4224	M52x2	1.1/2"	38	42	60	38.4
FEL4232	M52X2	2"	38	42	60	38.4



C90EL

METRIC 24°
DKOL 90 - METRIC 'O' RING FEMALE LIGHT SERIES
NORM DIN 2865

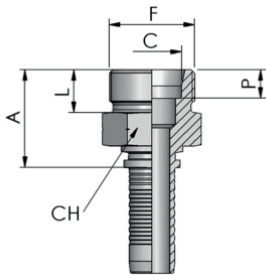
Article Code	Thread	Hose		Standpipe	Dimensions		
		Inch	DN (mm)		mm	CH	A
C90EL0603	M12x1.5	3/16"	5	6	14	26	28
C90EL0604	M12x1.5	1/4"	6	6	14	23	38
C90EL0803	M14x1.5	3/16"	5	8	17	26	29
C90EL0804	M14x1.5	1/4"	6	8	17	29	35
C90EL1004	M16x1.5	1/4"	6	10	19	29	37
C90EL1005	M16x1.5	5/16"	8	10	19	36	32
C90EL1006	M16x1.5	3/8"	10	10	19	35	45
C90EL1204	M18x1.5	1/4"	6	12	22	33	31
C90EL1205	M18x1.5	5/16"	8	12	22	36	33
C90EL1206	M18x1.5	3/8"	10	12	22	38	35
C90EL1506	M22x1.5	3/8"	10	15	27	38	37
C90EL1508	M22x1.5	1/2"	12	15	27	40	41
C90EL1808	M26x1.5	1/2"	12	18	32	38	45
C90EL1810	M26x1.5	5/8"	16	18	32	46	48
C90EL2212	M30x2	3/4"	19	22	36	52	50
C90EL2816	M36x2	1"	25	28	41	72	65
C90EL3520	M45x2	1.1/4"	32	35	50	98	77
C90EL4224	M52x2	1.1/2"	38	42	60	105	96
C90EL4232	M52x2	2"	38	42	60	105	96



C45EL

METRIC 24°
DKOL 45 - METRIC 'O' RING FEMALE LIGHT SERIES
NORM DIN 2865

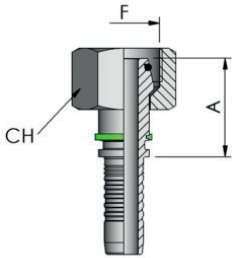
Article Code	Thread	Hose		Standpipe	Dimensions		
		Inch	DN (mm)		mm	CH	A
C45EL0603	M12x1.5	3/16"	5	6	14	36	15
C45EL0604	M12x1.5	1/4"	6	6	14	47	22
C45EL0803	M14x1.5	3/16"	5	8	17	38	18
C45EL0804	M14x1.5	1/4"	6	8	17	50	17
C45EL1004	M16x1.5	1/4"	6	10	19	52	18
C45EL1005	M16x1.5	5/16"	8	10	19	56	17
C45EL1006	M16x1.5	3/8"	10	10	19	63	25
C45EL1204	M18x1.5	1/4"	6	12	22	52	17
C45EL1205	M18x1.5	5/16"	8	12	22	56	17
C45EL1206	M18x1.5	3/8"	10	12	22	58	18
C45EL1506	M22x1.5	3/8"	10	15	27	60	19
C45EL1508	M22x1.5	1/2"	12	15	27	65	21
C45EL1808	M26x1.5	1/2"	12	18	32	65	23
C45EL1810	M26x1.5	5/8"	16	18	32	74	23
C45EL2212	M30x2	3/4"	19	22	36	80	24
C45EL2816	M36x2	1"	25	28	41	109	30
C45EL3520	M45x2	1.1/4"	32	35	50	142	34
C45EL4224	M52x2	1.1/2"	38	42	60	160	43



MEL

METRIC 24°
CEL - METRIC MALE 24° CONE LIGHT SERIES
NORM DIN 3861

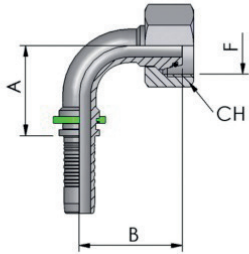
Article Code	Thread	Hose		Standpipe	Dimensions			
		Inch	DN (mm)		mm	CH	A	p
MEL0603	M12x1.5	3/16"	5	6	12	20.7	7	10
MEL0604	M12x1.5	1/4"	6	6	12	20.9	7	10
MEL0803	M14x1.5	3/16"	5	8	14	21.7	7	10
MEL0804	M14x1.5	1/4"	6	8	14	21.9	7	10
MEL1004	M16x1.5	1/4"	6	10	17	22.9	7	11
MEL1005	M16x1.5	5/16"	8	10	17	22.9	7	11
MEL1006	M16x1.5	3/8"	10	10	17	23.5	7	11
MEL1204	M18x1.5	1/4"	6	12	19	23.9	7	11
MEL1205	M18x1.5	5/16"	8	12	19	23.9	7	11
MEL1206	M18x1.5	3/8"	10	12	19	24.5	7	11
MEL1506	M22x1.5	3/8"	10	15	22	25.5	7	12
MEL1508	M22x1.5	1/2"	12	15	22	26.1	7	12
MEL1808	M26x1.5	1/2"	12	18	27	27.1	7.5	12
MEL1810	M26x1.5	5/8"	16	18	27	27.1	7.5	12
MEL2210	M30x2	5/8"	16	22	30	29	7.5	14
MEL2212	M30x2	3/4"	19	22	30	30.1	7.5	14
MEL2816	M36x2	1"	25	28	36	32.1	7.5	14
MEL3520	M45x2	1.1/4"	32	35	46	36.5	10.5	16
MEL4224	M52x2	1.1/2"	38	42	55	39	11	16



FES

METRIC 24°
 DKOS - METRIC 'O' RING FEMALE 24° CONE
 HEAVY SERIES
 NORM DIN 3865

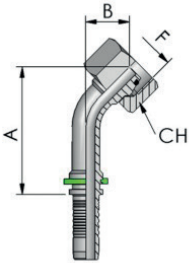
Article Code	Thread	Hose		Standpipe mm	Dimensions	
		Inch	DN (mm)		CH	A
FES0603	M14x1.5	3/16"	5	6	14	22.2
FES0604	M14x1.5	1/4"	6	6	14	26.5
FES0803	M16x1.5	3/16"	5	8	17	22
FES0804	M16x1.5	1/4"	6	8	17	22.4
FES1004	M18x1.5	1/4"	6	10	19	24.6
FES1005	M18x1.5	5/16"	8	10	19	24.6
FES1006	M18x1.5	3/8"	10	10	19	28.5
FES1204	M20x1.5	1/4"	6	12	22	23.9
FES1205	M20x1.5	5/16"	8	12	22	23.9
FES1206	M20x1.5	3/8"	10	12	22	24
FES1406	M22x1.5	3/8"	10	14	27	28.7
FES1608	M24x1.5	1/2"	12	16	27	28.9
FES1610	M24x1.5	5/8"	16	16	32	30
FES2010	M30x2	5/8"	16	20	32	31.5
FES2012	M30x2	3/4"	19	20	36	32.5
FES2512	M36x2	3/4"	19	25	36	37.5
FES2516	M36x2	1"	25	25	41	36.9
FES3016	M42x2	1"	25	30	50	40.1
FES3820	M52x2	1.1/4"	32	38	60	44.2
FES3824	M52x2	1.1/2"	38	38	60	44.2



C90ES

METRIC 24°
 DKOS - METRIC 'O' RING FEMALE 90° 24° CONE
 HEAVY SERIES
 NORM DIN 3865

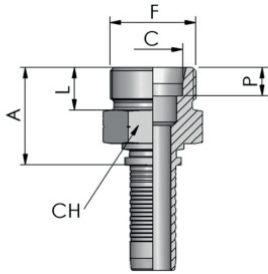
Article Code	Thread	Hose		Standpipe mm	Dimensions		
		Inch	DN (mm)		CH	A	B
C90ES0603	M14x1.5	3/16"	5	6	17	26	28
C90ES0604	M14x1.5	1/4"	6	6	17	23	38
C90ES0803	M16x1.5	3/16"	5	8	19	26	29
C90ES0804	M16x1.5	1/4"	6	8	19	29	35
C90ES1004	M18x1.5	1/4"	6	10	22	29	37
C90ES1005	M18x1.5	5/16"	8	10	22	36	32
C90ES1006	M18x1.5	3/8"	10	10	22	35	45
C90ES1204	M20x1.5	1/4"	6	12	24	33	31
C90ES1205	M20x1.5	5/16"	8	12	24	36	33
C90ES1206	M20x1.5	3/8"	10	12	24	38	35
C90ES1406	M22x1.5	3/8"	10	14	27	36	38
C90ES1608	M24x1.5	1/2"	12	16	30	38	44
C90ES2010	M30x1.5	5/8"	16	20	36	46	51
C90ES2012	M30x1.5	3/4"	19	20	36	52	51
C90ES2512	M36x2	3/4"	19	25	46	52	55
C90ES2516	M36x2	1"	25	25	46	72	66
C90ES3016	M42x2	1"	25	30	50	72	70
C90ES3820	M52x2	1.1/4"	32	38	60	99	81
C90ES3824	M52x2	1.1/2"	38	38	60	99	81



C45ES

METRIC 24°
 DKOS - METRIC 'O' RING FEMALE 45° 24° CONE
 HEAVY SERIES
 NORM DIN 3865

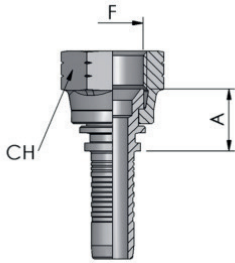
Article Code	Thread	Hose		Standpipe mm	Dimensions		
		Inch	DN (mm)		CH	A	B
C45ES0603	M14x1.5	3/16"	5	6	17	36	15
C45ES0604	M14x1.5	1/4"	6	6	17	47	22
C45ES0803	M16x1.5	3/16"	5	8	19	38	18
C45ES0804	M16x1.5	1/4"	6	8	19	50	17
C45ES1004	M18x1.5	1/4"	6	10	22	52	18
C45ES1005	M18x1.5	5/16"	8	10	22	56	17
C45ES1006	M18x1.5	3/8"	10	10	22	63	25
C45ES1204	M20x1.5	1/4"	6	12	24	53	17
C45ES1205	M20x1.5	5/16"	8	12	24	56	17
C45ES1206	M20x1.5	3/8"	10	12	24	58	18
C45ES1406	M22x1.5	3/8"	10	14	27	59	20
C45ES1608	M24x1.5	1/2"	12	16	30	64	22
C45ES2010	M30x2	5/8"	16	20	36	77	26
C45ES2012	M30x2	3/4"	19	20	36	82	25
C45ES2512	M36x2	3/4"	19	25	46	84	28
C45ES2516	M36x2	1"	25	25	46	110	31
C45ES3016	M42x2	1"	25	30	50	113	33
C45ES3820	M52x2	1.1/4"	32	38	60	146	38
C45ES3824	M52x2	1.1/2"	38	38	60	146	38



MES

METRIC 24°
 CES - METRIC MALE 24° CONE
 HEAVY SERIES
 NORM DIN 3861

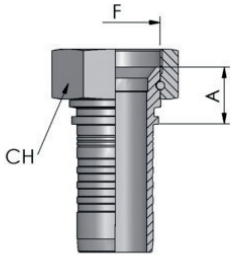
Article Code	Thread	Hose		Standpipe mm	Dimensions			
		Inch	DN (mm)		CH	A	p	L
MES0604	M14x1.5	1/4"	6	6	14	23.9	7	12
MES0804	M16x1.5	1/4"	6	8	17	26.9	7	12
MES1004	M18x1.5	1/4"	6	10	19	26.9	7.5	12
MES1005	M18x1.5	5/16"	8	10	19	26.9	7.5	12
MES1006	M18x1.5	3/8"	10	10	19	27.5	7.5	12
MES1205	M20x1.5	5/16"	8	12	22	28.9	7.5	12
MES1206	M20x1.5	3/8"	10	12	22	29.5	7.5	12
MES1406	M22x1.5	3/8"	10	14	22	31.5	8	14
MES1408	M22x1.5	1/2"	12	14	22	32.1	8	14
MES1608	M24x1.5	1/2"	12	16	24	32.1	8.5	14
MES2010	M30x2	5/8"	16	20	30	36.1	10.5	16
MES2012	M30x2	3/4"	19	20	30	37.1	10.5	16
MES2512	M36x2	3/4"	19	25	36	41.1	12	18
MES2516	M36x2	1"	25	25	36	42.1	12	18
MES3016	M42x2	1"	25	30	46	44.1	13.5	20
MES3820	M52x2	1.1/4"	32	38	55	48.5	16	22
MES3824	M52x2	1.1/2"	38	38	55	42.5	16	22



FJ

JIC FITTINGS 37°
DKJ - JIC FEMALE, 37° CONE
NORM SAE J514

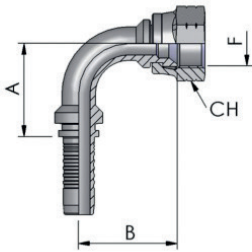
Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
FJ0603	7/16"-20	3/16"	5	15	14.8
FJ0604	7/16"-20	1/4"	6	15	15
FJ0804	1/2"-20	1/4"	6	17	14.5
FJ0805	1/2"-20	5/16"	8	17	14.5
FJ1004	9/16"-18	1/4"	6	19	15.9
FJ1005	9/16"-18	5/16"	8	19	15.9
FJ1006	9/16"-18	3/8"	10	19	16
FJ1106	5/8"-18	3/8"	10	22	16.9
FJ1205	3/4"-16	5/16"	8	24	16
FJ1204	3/4"-16	1/4"	6	24	17
FJ1206	3/4"-16	3/8"	10	24	16.1
FJ1208	3/4"-16	1/2"	12	24	16.7
FJ1606	7/8"-14	3/8"	10	27	18.2
FJ1608	7/8"-14	1/2"	12	27	18.8
FJ1610	7/8"-14	5/8"	16	27	18.8
FJ1612	7/8"-14	3/4"	19	27	22.3
FJ2008	1.1/16"-12	1/2"	12	32	24.1
FJ2010	1.1/16"-12	5/8"	16	32	21.6
FJ2012	1.1/16"-12	3/4"	19	32	22.6
FJ2212	1.3/16"-12	3/4"	19	36	22.1
FJ2512	1.5/16"-12	3/4"	19	41	24.3
FJ2516	1.5/16"-12	1"	25	41	24.8



PFJ

JIC FITTINGS 37°
 DKJ - JIC FEMALE THRUST WIRE NUT, 37° CONE
 NORM SAE J514

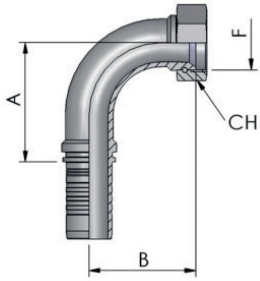
Article Code	Thread	Hose		Dimensions	
	F	Inch	DN (mm)	CH	A
PFJ2010	1.1/16"-12	5/8"	16	32	21.5
PFJ2012	1.1/16"-12	3/4"	19	32	22.5
PFJ2516	1.5/16"-12	1"	25	41	23.5
PFJ3416	1.5/8"-12	1"	25	50	26.7
PFJ3420	1.5/8"-12	1.1/4"	32	50	28.1
PFJ4020	1.7/8"-12	1.1/4"	32	55	28.5
PFJ4024	1.7/8"-12	1.1/2"	38	55	28.5
PFJ5032	2.1/2"-12	2"	51	70	28.5



C90J

JIC FITTINGS 37°
 DKJ 90°- JIC FEMALE SWEPT 90, 37° CONE
 NORM SAE J514

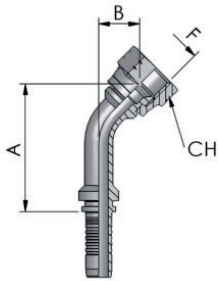
Article Code	Thread	Hose		Dimensions		
	F	Inch	DN (mm)	CH	A	B
C90J0603	7/16"-20	3/16"	5	15	26	26
C90J0604	7/16"-20	1/4"	6	15	23	27
C90J0804	1/2"-20	1/4"	6	17	23	26
C90J0805	1/2"-20	5/16"	8	17	33	29
C90J1004	9/16"-18	1/4"	6	19	23	29
C90J1005	9/16"-18	5/16"	8	19	33	30
C90J1006	9/16"-18	3/8"	10	19	35	33
C90J1106	5/8"-18	3/8"	10	22	35	34
C90J1205	3/4"-16	5/16"	8	24	33	33
C90J1206	3/4"-16	3/8"	10	24	35	34
C90J1208	3/4"-16	1/2"	12	24	39	39
C90J1606	7/8"-14	3/8"	10	27	35	37
C90J1608	7/8"-14	1/2"	12	27	39	41
C90J1610	7/8"-14	5/8"	16	27	48	45
C90J1612	7/8"-14	3/4"	19	27	50	52
C90J2008	1.1/16"-12	1/2"	12	32	39	48
C90J2010	1.1/16"-12	5/8"	16	32	48	51
C90J2012	1.1/16"-12	3/4"	19	32	50	51
C90J2212	1.3/16"-12	3/4"	19	36	58	64
C90J2512	1.5/16"-12	3/4"	19	41	50	55
C90J2516	1.5/16"-12	1"	25	41	72	67



PC90J

JIC FITTINGS 37°
 DKJ 90°- JIC FEMALE SWEPT 90 THRUST WIRE NUT
 37° CONE
 NORM SAE J514

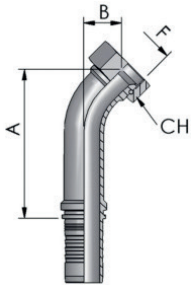
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
PC90J2010	1.1/16"-12	5/8"	16	32	47	50
PC90J2012	1.1/16"-12	3/4"	19	32	50	50
PC90J2516	1.5/16"-12	1"	25	41	72	64
PC90J3416	1.5/8"-12	1"	25	50	72	71
PC90J3420	1.5/8"-12	1.1/4"	32	50	88	77
PC90J4020	1.7/8"-12	1.1/4"	32	55	100	100
PC90J4024	1.7/8"-12	1.1/2"	38	55	99	89
PC90J5032	1.7/8"-12	2"	51	70	128	109



C45J

JIC FITTINGS 37°
 DKJ 45°- JIC FEMALE SWEPT 45
 37° CONE
 NORM SAE J514

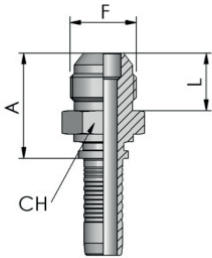
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
C45J0603	7/16"-20	3/16"	5	15	37	13
C45J0604	7/16"-20	1/4"	6	15	39	14
C45J0804	1/2"-20	1/4"	6	17	39	13
C45J1004	9/16"-18	1/4"	6	19	40	15
C45J1005	9/16"-18	5/16"	8	19	52	16
C45J1006	9/16"-18	3/8"	10	19	54	16
C45J1205	3/4"-16	5/16"	8	24	53	17
C45J1206	3/4"-16	3/8"	10	24	55	17
C45J1208	3/4"-16	1/2"	12	24	62	19
C45J1606	7/8"-14	3/8"	10	27	58	20
C45J1608	7/8"-14	1/2"	12	27	64	21
C45J1610	7/8"-14	5/8"	16	27	74	21
C45J2008	1.1/16"-12	1/2"	12	32	68	25
C45J2010	1.1/16"-12	5/8"	16	32	78	26
C45J2012	1.1/16"-12	3/4"	19	32	81	25
C45J2512	1.5/16"-12	3/4"	19	41	84	28
C45J2516	1.5/16"-12	1"	25	41	111	31



PC45J

JIC FITTINGS 37°
 DKJ 45°- JIC FEMALE SWEPT 45 THRUST WIRE NUT
 37° CONE
 NORM SAE J514

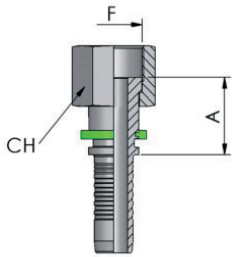
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
PC45J2010	1.1/16"-12	5/8"	16	32	80	25
PC45J3420	1.5/8"-12	1.1/4"	32	50	132	35
PC45J4020	1.7/8"-12	1.1/4"	32	55	108	40
PC45J4024	1.7/8"-12	1.1/2"	38	55	149	38
PC45J5032	2.1/2"-12	2"	51	70	188	44



MJ

JIC FITTINGS 37°
 DKJ - JIC MALE
 37° CONE
 NORM SAE J514

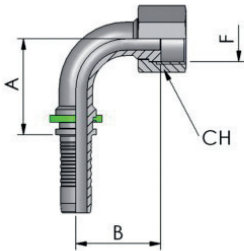
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
MJ0603	7/16"-20	3/16"	5	12	26.3	14
MJ0604	7/16"-20	1/4"	6	12	26.5	14
MJ0804	1/2"-20	1/4"	6	15	26.5	14
MJ0805	1/2"-20	5/16"	8	15	26.5	14
MJ1004	9/16"-18	1/4"	6	15	27.4	14.1
MJ1005	9/16"-18	5/16"	8	15	27.4	14.1
MJ1006	9/16"-18	3/8"	10	17	27.5	14.1
MJ1106	5/8"-18	3/8"	10	17	29.9	16
MJ1204	3/4"-16	1/4"	6	19	30	16.7
MJ1205	3/4"-16	5/16"	8	19	30	16.7
MJ1206	3/4"-16	3/8"	10	19	30.6	16.7
MJ1208	3/4"-16	1/2"	12	19	31.2	16.7
MJ1606	7/8"-14	3/8"	10	24	35.3	19.3
MJ1608	7/8"-14	1/2"	12	24	35.3	19.3
MJ1610	7/8"-14	5/8"	16	24	35.3	19.3
MJ2008	1.1/16"-12	1/2"	12	27	39.7	21.9
MJ2010	1.1/16"-12	5/8"	16	27	39.7	21.9
MJ2012	1.1/16"-12	3/4"	19	27	40.7	21.9
MJ2512	1.5/16"-12	3/4"	19	34	41.9	23.1
MJ2516	1.5/16"-12	1"	25	34	42.9	23.1
MJ3416	1.5/8"-12	1"	25	42	46.1	24.3
MJ3420	1.5/8"-12	1.1/4"	32	42	47.5	24.3
MJ4024	1.7/8"-12	1.1/2"	38	50	52.5	27.5
MJ5032	2.1/2"-12	2"	51	55	55	32



FORFS

ORFS FITTINGS
DKO - ORFS STRAIGHT FEMALE
NORM SAE J1453

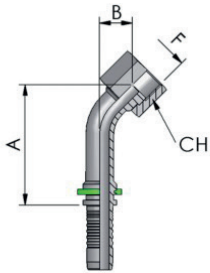
Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
FORFS1004	9/16"-18	1/4"	6	17	20.5
FORFS1104	11/16"-16	1/4"	6	22	21.9
FORFS1105	11/16"-16	5/16"	8	22	21.9
FORFS1106	11/16"-16	3/8"	10	22	22
FORFS1306	13/16"-16	3/8"	10	24	25
FORFS1308	13/16-16"	1/2"	12	24	25.6
FORFS1808	1"-14	1/2"	12	30	29.9
FORFS1810	1"-14	5/8"	16	30	29.9
FORFS2208	1.3/16"-12	1/2"	12	36	32.1
FORFS2210	1.3/16"-12	5/8"	16	36	32.1
FORFS2212	1.3/16"-12	3/4"	19	36	33
FORFS2612	1.7/16-12	3/4"	19	41	33.6
FORFS2616	1.7/16"-12	1"	25	41	34.1
FORFS3620	1.11/16-12	1.1/4"	32	50	35.5
FORFS4624	2"-12	1.1/2"	38	60	37



C90ORFS

ORFS FITTINGS
DKO 90 - ORFS FEMALE SWEPT 90
NORM SAE J1453

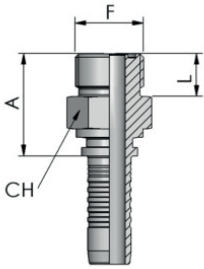
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
C90ORFS1004	9/16"-18	1/4"	6	17	33	24
C90ORFS1104	11/16"-16	1/4"	6	22	33	26
C90ORFS1105	11/16"16	5/16"	8	22	36	27
C90ORFS1106	11/16"16	3/8"	10	22	38	29
C90ORFS1306	13/16"-16	3/8"	10	24	38	32
C90ORFS1308	13/16"-16	1/2"	12	24	40	36
C90ORFS1808	1"-14	1/2"	12	30	40	41
C90ORFS1810	1"-14	5/8"	16	30	46	47
C90ORFS2208	1.3/16"-12	1/2"	12	36	40	43
C90ORFS2210	1.3/16"-12	5/8"	16	36	46	46
C90ORFS2212	1.3/16-12	3/4"	19	36	52	46
C90ORFS2612	1.7/16-12	3/4"	19	41	52	52
C90ORFS2616	1.7/16-12	1"	25	41	72	63
C90ORFS3620	1.11/16"-12	1.1/4"	32	50	88	73
C90ORFS4624	2"-12	1.1/2"	38	60	105	84



C45ORFS

ORFS FITTINGS
DKO 45 - ORFS FEMALE SWEPT 45
NORM SAE J1453

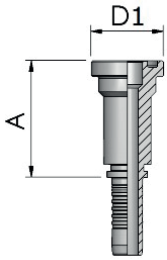
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
C45ORFS1004	9/16"-18	1/4"	6	17	47	12
C45ORFS1104	11/16"-16	1/4"	6	22	48	13
C45ORFS1105	11/16"16	5/16"	8	22	52	13
C45ORFS1106	11/16"16	3/8"	10	22	54	14
C45ORFS1306	13/16"-16	3/8"	10	24	56	16
C45ORFS1308	13/16"-16	1/2"	12	24	61	17
C45ORFS1808	1"-14	1/2"	12	30	64	20
C45ORFS1810	1"-14	5/8"	16	30	71	20
C45ORFS2208	1.3/16"-12	1/2"	12	36	66	22
C45ORFS2210	1.3/16"-12	5/8"	16	36	73	22
C45ORFS2212	1.3/16-12	3/4" "	19	36	78	21
C45ORFS2612	1.7/16-12	3/4"	19	41	82	26
C45ORFS2616	1.7/16-12	1"	25	41	108	29
C45ORFS3620	1.11/16"-12	1.1/4"	32	50	129	32
C45ORFS4624	2"-12	1.1/2"	38	60	151	35



MORFS

ORFS FITTINGS
 AGO - ORFS MALE
 NORM SAE J1453

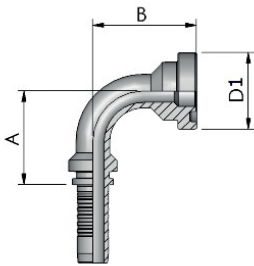
Article Code	Thread	Hose		Dimensions		
	F	Inch	DN (mm)	CH	A	L
MORFS1004	9/16"-18	1/4"	6	17	24.6	9.8
MORFS1104	11/16"-16	1/4"	6	19	26.8	11.2
MORFS1105	11/16"-16	5/16"	8	19	26.8	11.2
MORFS1106	11/16"-16	3/8"	10	19	27.4	11.2
MORFS1306	13/16"-16	3/8"	10	22	30.1	12.8
MORFS1308	13/16"-16	1/2"	12	22	30.7	12.8
MORFS1808	1"-14	1/2"	12	27	35.2	15.5
MORFS1810	1"-14	5/8"	16	27	35.2	15.5
MORFS1812	1"-14	3/4"	19	27	36.2	15.5
MORFS2208	1.3/16"-12	1/2"	12	32	38.2	17
MORFS2210	1.3/16"-12	5/8"	16	32	38.2	17
MORFS2212	1.3/16"-12	3/4"	19	32	39.2	17
MORFS2612	1.7/16"-12	3/4"	19	38	40.9	17.5
MORFS2616	1.7/16"-12	1"	25	38	41.9	17.5
MORFS3620	1.11/16"-12	1.1/4"	32	46	45.3	17.5
MORFS4624	2"-12	1.1/2"	38	55	47.6	17.5



FLPI3

FLANGE STRAIGHT
SAE FLANGE 3000 SERIES CODE 61
NORM SAE J518

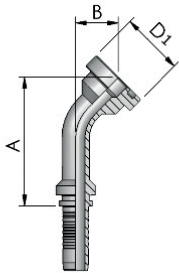
Article Code	Flange Head	Hose		Dimensions	
		Inch	DN (mm)	D1	A
FLPI30808	1/2"	1/2"	12	30.2	48.8
FLPI31208	3/4"	1/2"	12	38.1	52.8
FLPI31210	3/4"	5/8"	16	38.1	50.8
FLPI31212	3/4"	3/4"	19	38.1	54.6
FLPI31612	1"	3/4"	19	44.5	60.6
FLPI31616	1"	1"	25	44.5	60.8
FLPI32016	1.1/4"	1"	25	50.8	65.3
FLPI32020	1.1/4"	1.1/4"	32	50.8	65.8
FLPI32420	1.1/2"	1.1/4"	32	60.4	71.3
FLPI32424	1.1/2"	1.1/2"	38	60.4	70.9
FLPI33224	2"	1.1/2"	38	71.4	77.5
FLPI33232	2"	2"	51	71.4	77.5
FLPI34032	2.1/2"	2"	51	84.3	81
FLPI34040	2.1/2"	2.1/2"	63	84.3	81



FLPI390

FLANGE SWEPT 90
SAE FLANGE 3000 SERIES CODE 61
NORM SAE J518

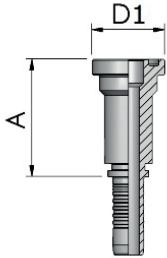
Article Code	Flange Face	Hose		Dimensions		
	F	Inch	DN (mm)	D1	A	B
FLPI3900808	1/2"	1/2"	12	30.2	39	42
FLPI3901208	3/4"	1/2"	12	38.1	39	47
FLPI3901210	3/4"	5/8"	16	38.1	48	50
FLPI3901212	3/4"	3/4"	19	38.1	50	50
FLPI3901612	1"	3/4"	19	44.5	50	53
FLPI3901616	1"	1"	25	44.5	72	64
FLPI3902016	1.1/4"	1"	25	50.8	72	67
FLPI3902020	1.1/4"	1.1/4"	32	50.8	88	73
FLPI3902420	1.1/2"	1.1/4"	32	60.4	88	78
FLPI3902424	1.1/2"	1.1/2"	38	60.4	99	86
FLPI3903224	2"	1.1/2"	38	71.5	128	95
FLPI3903232	2"	2"	51	71.5	128	130
FLPI3904032	2.1/2"	2"	51	84.3	142	142
FLPI3904040	2.1/2"	2.1/2"	63	84.3	142	142



FLPI345

FLANGE SWEPT 45
SAE FLANGE 3000 SERIES CODE 61
NORM SAE J518

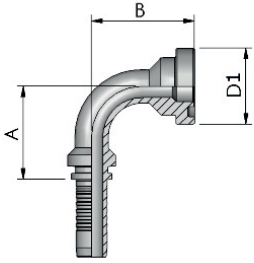
Article Code	Flange Face	Hose		Dimensions		
		Inch	DN (mm)	D1	A	B
FLPI3450808	1/2"	1/2"	12	30.2	64	21
FLPI3451208	3/4"	1/2"	12	38.1	68	25
FLPI3451210	3/4"	5/8"	16	38.1	78	25
FLPI3451212	3/4"	3/4"	19	38.1	80	24
FLPI3451612	1"	3/4"	19	44.5	82	27
FLPI3451616	1"	1"	25	44.5	109	29
FLPI3452016	1.1/4"	1"	25	50.8	111	31
FLPI3452020	1.1/4"	1.1/4"	32	50.8	129	32
FLPI3452420	1.1/2"	1.1/4"	32	60.4	133	36
FLPI3452424	1.1/2"	1.1/2"	38	60.4	147	36
FLPI3453224	2"	1.1/2"	38	71.5	186	42
FLPI3453232	2"	2"	51	71.5	186	42
FLPI3454032	2.1/2"	2"	51	84.3	199	51
FLPI3454040	2.1/2"	2.1/2"	63	84.3	199	51



FLPI6

FLANGE STRAIGHT
SAE FLANGE 6000 SERIES CODE 62
NORM SAE J518

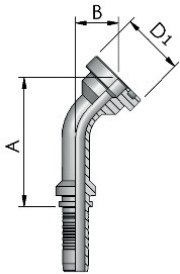
Article Code	Flange Head	Hose		Dimensions	
		Inch	DN (mm)	D1	A
FLPI60808	1/2"	1/2"	12	31.7	48.8
FLPI61208	3/4"	1/2"	12	41.3	56.8
FLPI61210	3/4"	5/8"	16	41.3	54.8
FLPI61212	3/4"	3/4"	19	41.3	58.6
FLPI61612	1"	3/4"	19	47.6	64.6
FLPI61616	1"	1"	25	47.6	66.1
FLPI62016	1.1/4"	1"	25	54	71.1
FLPI62020	1.1/4"	1.1/4"	32	54	72.3
FLPI62420	1.1/2"	1.1/4"	32	63.5	81.8
FLPI62424	1.1/2"	1.1/2"	38	63.5	81.4
FLPI63224	2"	1.1/2"	38	79.4	100.5
FLPI63232	2"	2"	51	79.4	100.5



FLPI690

FLANGE SWEPT 90
SAE FLANGE 6000 SERIES CODE 62
NORM SAE J518

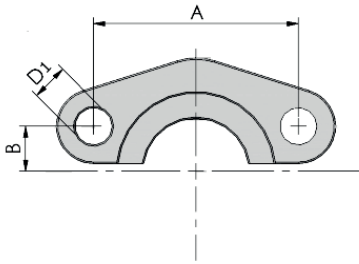
Article Code	Flange Face	Hose		Dimensions		
	F	Inch	DN (mm)	D1	A	B
FLPI6900808	1/2"	1/2"	12	31.7	39	43
FLPI6901208	3/4"	1/2"	12	41.3	39	51
FLPI6901210	3/4"	5/8"	16	41.3	48	54
FLPI6901212	3/4"	3/4"	19	41.3	50	54
FLPI6901612	1"	3/4"	19	47.6	50	60
FLPI6901616	1"	1"	25	47.6	72	71
FLPI6902016	1.1/4"	1"	25	54	72	78
FLPI6902020	1.1/4"	1.1/4"	32	54	88	84
FLPI6902420	1.1/2"	1.1/4"	32	63.5	88	93
FLPI6902424	1.1/2"	1.1/2"	38	63.5	99	101
FLPI6903224	2"	1.1/2"	38	79.4	128	109
FLPI6903232	2"	2"	51	79.4	128	131



FLPI645

FLANGE SWEPT 45
SAE FLANGE 6000 SERIES CODE 62
NORM SAE J518

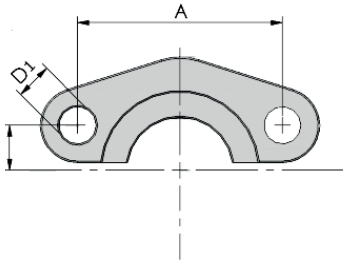
Article Code	Flange Face	Hose		Dimensions		
	F	Inch	DN (mm)	D1	A	B
FLPI6450808	1/2"	1/2"	12	31.7	65	22
FLPI6451208	3/4"	1/2"	12	41.3	71	28
FLPI6451210	3/4"	5/8"	16	41.3	81	28
FLPI6451212	3/4"	3/4"	19	41.3	83	27
FLPI6451612	1"	3/4"	19	47.6	87	31
FLPI6451616	1"	1"	25	47.6	114	34
FLPI6452016	1.1/4"	1"	25	54	119	39
FLPI6452020	1.1/4"	1.1/4"	32	54	137	40
FLPI6452420	1.1/2"	1.1/4"	32	63.5	143	46
FLPI6452424	1.1/2"	1.1/2"	38	63.5	158	46
FLPI6453232	2"	2"	51	79.4	203	59



SEM3

FLANGE
SAE 3000 SPLIT FLANGE CLAMP
NORM SAE J518

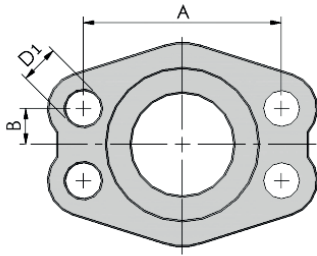
Article Code	Flange Head	Dimensions		
		D1	A	B
	Inch			
SEM308	1/2"	21.8	38.1	8.8
SEM312	3/4"	24.9	47.6	11.1
SEM316	1"	28.2	52.4	13.1
SEM320	1.1/4"	35.3	58.7	15.1
SEM324	1.1/2"	40.1	69.9	17.9
SEM332	2"	47.2	77.8	21.5



SEM6

FLANGE
SAE 6000 SPLIT FLANGE CLAMP
NORM SAE J518

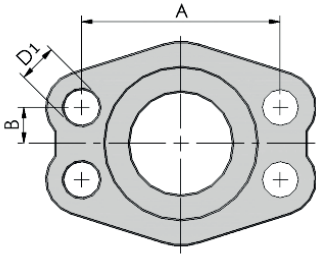
Article Code	Flange Head	Dimensions		
		D1	A	B
	Inch			
SEM608	1/2"	22.6	40.5	9.2
SEM612	3/4"	29	50.8	11.9
SEM616	1"	33.8	57.2	13.9
SEM620	1.1/4"	37.6	66.7	15.7
SEM624	1.1/2"	46.5	79.4	18.2
SEM632	2"	55.9	96.8	22.2



SEMI3

FLANGE
SAE 3000 SOLID CLAMP
NORM SAE J518

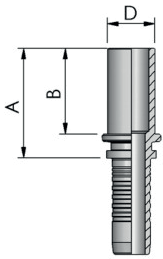
Article Code	Flange Head	Dimensions		
		D1	A	B
	Inch			
SEMI308	1/2"	8.9	38.1	8.8
SEMI312	3/4"	10.6	47.6	11.1
SEMI316	1"	10.6	52.4	13.1
SEMI320	1.1/4"	10.6	58.7	15.1
SEMI324	1.1/2"	13.3	69.9	17.9
SEMI332	2"	13.3	77.8	21.5



SEMI6

FLANGE
SAE 6000 SOLID CLAMP
NORM SAE J518

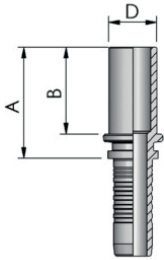
Article Code	Flange Head	Dimensions		
		D1	A	B
	Inch			
SEMI608	1/2"	8.9	40.5	9.1
SEMI612	3/4"	10.6	50.8	11.9
SEMI616	1"	13.3	57.2	13.9
SEMI620	1.1/4"	13.3	66.7	15.9
SEMI624	1.1/2"	16.7	79.4	18.2
SEMI632	2"	20.6	96.8	22.2



COD

STANDPIPES
BEL/BES METRIC STANDPIPE STRAIGHT
NORM DIN 2353

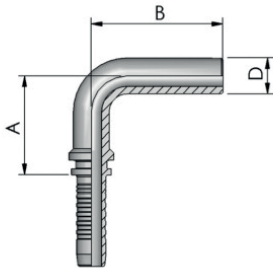
Article Code	HOSE		D STANDPIPE	Dimensions	
	INCH	DN (mm)	mm	A	B
COD0603	3/16"	5	6	31	24
COD0604	1/4"	6	6	31.2	24
COD0803	3/16"	5	8	31	24
COD0804	1/4"	6	8	31.2	24
COD0805	5/16"	8	8	31.4	24
COD1004	1/4"	6	10	31.2	24
COD1005	5/16"	8	10	31.4	24
COD1006	3/8"	10	10	31.5	24
COD1204	1/4"	6	12	32	27.3
COD1205	5/16"	8	12	32.2	25
COD1206	3/8"	10	12	32.5	25
COD1208	1/2"	12	12	33.1	25
COD1406	3/8"	10	14	36.3	29
COD1408	1/2"	12	14	37.1	29
COD1506	3/8"	10	15	36.5	29
COD1508	1/2"	12	15	36.8	29
COD1608	1/2"	12	16	37.1	29
COD1808	1/2"	12	18	37.1	29
COD1810	5/8"	16	18	36.8	29
COD1812	3/4"	19	18	37.5	29
COD2008	1/2"	12	20	43.8	38.5
COD2010	5/8"	16	20	43.8	36



COD

STANDPIPES
 BEL/BES METRIC STANDPIPE STRAIGHT
 NORM DIN 2353

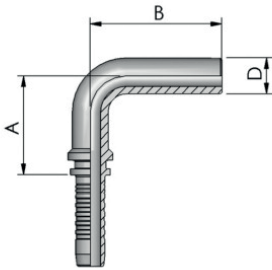
Article Code	HOSE		D STANDPIPE	Dimensions	
	INCH	DN (mm)	mm	A	B
COD2012	3/4"	19	20	44.5	36
COD2210	5/8"	16	22	36.8	29
COD2212	3/4"	19	22	37.5	29
COD2512	3/4"	19	25	44.5	36
COD2516	1"	25	25	46.1	36
COD2816	1"	25	28	45.8	36
COD3016	1"	25	30	46.1	36
COD3020	1.1/4"	32	30	51	38
COD3520	1.1/4"	32	35	46	35
COD3820	1.1/4"	32	38	53	40
COD3824	1.1/2"	38	38	58	45
COD4224	1.1/2"	38	42	55	42



COD90

STANDPIPES
BEL/BES METRIC STANDPIPE SWEPT 90
NORM DIN 2353

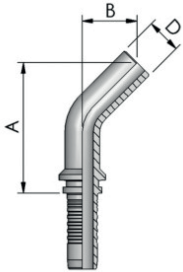
Article Code	HOSE		D STANDPIPE	Dimensions	
	INCH	DN (mm)		A	B
COD900603	3/16"	5	6	28	38
COD900604	1/4"	6	6	28	38
COD900803	3/16"	5	8	22	38
COD900804	1/4"	6	8	28	38
COD900805	5/16"	8	8	28	38
COD901004	1/4"	6	10	32	36
COD901005	5/16"	8	10	32	44
COD901006	3/8"	10	10	32	41
COD901204	1/4"	6	12	33	43
COD901205	5/16"	8	12	33	44
COD901206	3/8"	10	12	33	44
COD901208	1/2"	12	12	33	45
COD901406	3/8"	10	14	35	48
COD901408	1/2"	12	14	35	48
COD901506	3/8"	10	15	38	53
COD901508	1/2"	12	15	38	53
COD901608	1/2"	12	16	43	56
COD901808	1/2"	12	18	45	58
COD901810	5/8"	16	18	45	58
COD901812	3/4"	19	18	43	57
COD902008	1/2"	12	20	48	65
COD902010	5/8"	16	20	51	63



COD90

STANDPIPES
 BEL/BES METRIC STANDPIPE SWEPT 90
 NORM DIN 2353

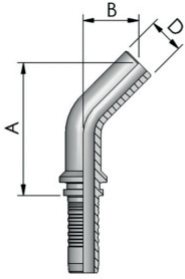
Article Code	HOSE		D STANDPIPE	Dimensions	
	INCH	DN (mm)	mm	A	B
COD902012	3/4"	19	20	51	66
COD902210	5/8"	16	22	47	70
COD902212	3/4"	19	22	55	72
COD902512	3/4"	19	25	58	74
COD902516	1"	25	25	61	74
COD902816	1"	25	28	68	84
COD903016	1"	25	30	76	87
COD903520	1.1/4"	32	35	68	95
COD903820	1.1/4"	32	38	83	105
COD904220	1.1/4"	32	42	96	115
COD904224	1.1/2"	38	42	85	110



COD45

STANDPIPES
BEL/BES METRIC STANDPIPE SWEPT 45
NORM DIN 2353

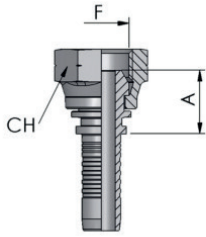
Article Code	HOSE		D STANDPIPE	Dimensions	
	INCH	DN (mm)		A	B
COD450603	3/16"	5	6	39	22
COD450604	1/4"	6	6	40	22
COD450804	1/4"	6	8	46	20
COD451004	1/4"	6	10	43	20
COD450805	5/16"	8	8	58	35
COD451005	5/16"	8	10	43	20
COD451006	3/8"	10	10	43	22
COD451204	1/4"	6	12	52	24
COD451205	5/16"	8	12	52	24
COD451206	3/8"	10	12	52	25
COD451406	3/8"	10	14	52	25
COD451408	1/2"	12	14	52	31
COD451506	3/8"	10	15	56	24
COD451508	1/2"	12	15	56	24
COD451608	1/2"	12	16	54	25
COD451808	1/2"	12	18	61	26
COD451810	5/8"	16	18	75	33
COD452008	1/2"	12	20	67	35
COD452010	5/8"	16	20	81	40
COD452012	3/4"	19	20	70	40
COD452210	5/8"	16	22	77	34
COD452212	3/4"	19	22	77	34



COD45

STANDPIPES
 BEL/BES METRIC STANDPIPE SWEPT 45
 NORM DIN 2353

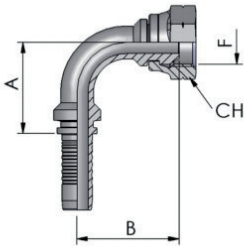
Article Code	HOSE		D STANDPIPE	Dimensions	
	INCH	DN (mm)	mm	A	B
COD452512	3/4"	19	25	82	36
COD452516	1"	25	25	82	36
COD452816	1"	25	28	87	44
COD453016	1"	25	30	90	44
COD453520	1.1/4"	32	35	99	46
COD453820	1.1/4"	32	38	104	51
COD453824	1.1/2"	38	38	100	54
COD454224	1.1/2"	38	42	113	60



FM

METRIC INSERT 60
DKM - METRIC FEMALE 60 CONE

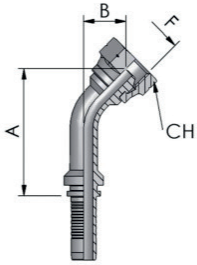
Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
	F				
FM1003	10x1	3/16"	5	14	15.6
FM1004	10x1	1/4"	6	14	15.9
FM1204	12x1.5	1/4"	6	17	17.6
FM1404	14x1.5	1/4"	6	19	17.6
FM1405	14x1.5	5/16"	8	19	17.6
FM1406	14x1.5	3/8"	10	19	17.7
FM1605	16x1.5	5/16"	8	22	18.7
FM1604	16x1.5	1/4"	6	22	18.7
FM1606	16x1.5	3/8"	10	22	18.8
FM1804	18x1.5	1/4"	6	24	18.7
FM1805	18x1.5	5/16"	8	24	18.7
FM1806	18x1.5	3/8"	10	24	18.8
FM1808	18x1.2	1/2"	12	24	19.4
FM2006	20x1.5	3/8"	10	27	20.6
FM2008	20x1.5	1/2"	12	27	21.2
FM2206	22x1.5	3/8"	10	27	20.6
FM2208	22x1.5	1/2"	12	27	21.2
FM2210	22x1.5	5/8"	16	27	21.2
FM2610	26x1.5	5/8"	16	32	22.8
FM2612	26x1.5	3/4"	19	32	23.8
FM3012	30x1.5	3/4"	19	38	24.5



C90M

METRIC INSERT 60
DKM - METRIC FEMALE 60 CONE SWEPT 90

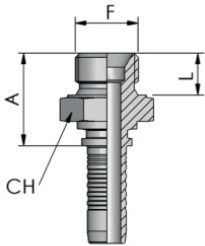
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	L
C90M1003	10x1	3/16"	5	14	26	27
C90M1004	10x1	1/4"	6	14	23	26
C90M1204	12x1.5	1/4"	6	17	23	29
C90M1404	14x1.5	1/4"	6	19	23	29
C90M1405	14x1.5	5/16"	8	19	33	32
C90M1406	14x1.5	3/8"	10	19	35	33
C90M1604	16x1.5	1/4"	6	22	23	33
C90M1605	16x1.5	5/16"	8	22	33	34
C90M1606	16x1.5	3/8"	10	22	35	36
C90M1804	18x1.5	1/4"	6	24	23	33
C90M1805	18x1.5	5/16"	8	24	33	34
C90M1806	18x1.5	3/8"	10	24	35	36
C90M1808	18x1.5	1/2"	12	24	39	40
C90M2006	20x1.5	3/8"	10	27	35	40
C90M2008	20x1.5	1/2"	12	27	39	44
C90M2206	22x1.5	3/8"	10	27	35	40
C90M2208	22x1.5	1/2"	12	27	39	44
C90M2210	22x1.5	5/8"	16	27	48	47
C90M2610	26x1.5	5/8"	16	32	48	52
C90M2612	26x1.5	3/4"	19	32	50	52
C90M3012	30x1.5	3/4"	19	36	50	56
C90M3816	38x1.5	1"	25	46	82	70



C45M

METRIC INSERT 60
DKM - METRIC FEMALE 60 CONE SWEPT 45

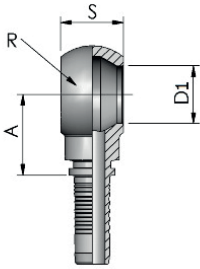
Article Code	Thread	Hose		Dimensions		
	F	Inch	DN (mm)	CH	A	L
C45M1003	10x1	3/16"	5	14	38	13
C45M1004	10x1	1/4"	6	14	40	16
C45M1204	12x1.5	1/4"	6	17	38	13
C45M1404	14x1.5	1/4"	6	19	41	16
C45M1405	14x1.5	5/16"	8	19	53	17
C45M1406	14x1.5	3/8"	10	19	55	17
C45M1604	16x1.5	1/4"	6	22	43	18
C45M1605	16x1.5	5/16"	8	22	54	18
C45M1606	16x1.5	3/8"	10	22	57	18
C45M1804	18x1.5	1/4"	6	24	43	18
C45M1805	18x1.5	5/16"	8	24	54	18
C45M1806	18x1.5	3/8"	10	24	57	18
C45M1808	18x1.5	1/2"	12	24	62	19
C45M2006	20x1.5	3/8"	10	27	60	21
C45M2008	20x1.5	1/2"	12	27	65	22
C45M2206	22x1.5	3/8"	10	27	60	21
C45M2208	22x1.5	1/2"	12	27	65	22
C45M2210	22x1.5	5/8"	16	27	77	25
C45M2610	26x1.5	5/8"	16	32	79	27
C45M2612	26x1.5	3/4"	19	32	82	26
C45M3012	30x1.5	3/4"	19	36	84	28
C45M3816	38x1.5	1"	25	46	82	32



MM

METRIC INSERT 60
AGM - METRIC MALE 60 CONE

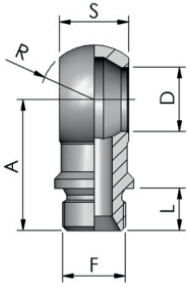
Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	L
MM1003	10x1	3/16"	5	15	20	8
MM1004	10x1	1/4"	6	15	20.5	8
MM1204	12x1.5	1/4"	6	17	25.1	11
MM1404	14x1.5	1/4"	6	19	26.2	12
MM1604	16x1.5	1/4"	6	22	28.4	13
MM1605	16x1.5	5/16"	8	22	28.6	13.7
MM1606	16x1.5	3/8"	10	22	29.2	13
MM1608	16x1.5	1/2"	12	22	33	13
MM1806	18x1.5	3/8"	10	24	30.2	14
MM1808	18x1.5	1/2"	12	24	30.2	14
MM2006	20x1.5	3/8"	10	27	30.9	14
MM2008	20x1.5	1/2"	12	27	31.4	14
MM2205	22x1.5	5/16"	8	27	32	14
MM2206	22x1.5	3/8"	10	27	31.9	15
MM2208	22x1.5	1/2"	12	27	31.9	15
MM2210	22x1.5	5/8"	16	27	32.4	15
MM2610	26x1.5	5/8"	16	32	34.6	16
MM2612	26x1.5	3/4"	19	32	35.3	16
MM3012	30x1.5	3/4"	19	36	36.5	16



OG

BANJO FITTINGS
RNR - BSP BANJO

Article Code	Hose		Dimensions			
	Inch	DN (mm)	A	R	D1	S
OG0203	3/16"	5	24.8	8.5	1/8"	10
OG0204	1/4"	6	24.8	8.5	1/8"	10
OG0403	3/16"	5	23	12	1/4"	14
OG0404	1/4"	6	23.3	12	1/4"	14
OG0405	5/16"	8	28.1	12	1/4"	14
OG0406	3/8"	10	23.4	12	1/4"	14
OG0604	1/4"	6	26.8	14	3/8"	17
OG0606	3/8"	10	26.8	14	3/8"	17
OG0608	1/2"	12	26.9	14	3/8"	17
OG0805	5/16"	8	27.5	14	1/2"	23
OG0806	3/8"	10	29	18	1/2"	23
OG0808	1/2"	12	29.6	18	1/2"	23
OG1010	5/8"	16	37	19.5	5/8"	23
OG1206	3/8"	10	46	23	3/4"	29.5
OG1208	1/2"	12	39	22.5	3/4"	29.5
OG1210	5/8"	16	39	22.5	3/4"	29.5
OG1212	3/4"	19	40	22.5	3/4"	29.5
OG1612	3/4"	19	46.6	29	1"	38
OG1616	1"	25	47	29	1"	38

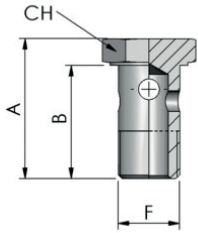


OFBG

BANJOS

BSP BANJO X BSPP MALE

Article Code	Thread	Dimensions				
		F	A	L	R	S
OFBG04	1/4"-19	31.9	12	31.7	65	22
OFBG06	3/8"-19	37.9	12	41.3	71	28
OFBG08	1/2"-14	55	14	41.3	81	28
OFBG12	3/4"-14	45	14	41.3	83	27

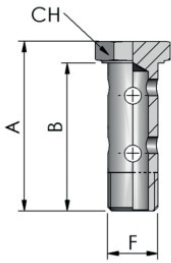


BFG

BOLTS FOR BANJOS

BSP BANJO BOLT

Article Code	Thread	Dimensions		
		CH	A	B
	Inch			
BFG02	1/8"-28	14	24	19
BFG04	1/4"-19	19	33	26.5
BFG06	3/8"-19	22	39	31
BFG08	1/2"-14	27	47	38
BFG10	5/8"-14	30	49.8	40
BFG12	3/4"-14	32	57	47
BFG16	1"-11	41	68	58

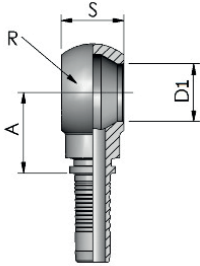


BFDG

BOLTS FOR BANJOS

BSP DOUBLE BANJO BOLT

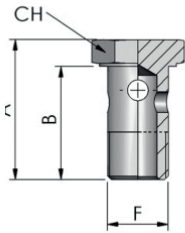
Article Code	Thread	Dimensions		
		CH	A	B
BFDG02	1/8"-28	14	29	33
BFDG04	1/4"-19	19	48.5	42
BFDG06	3/8"-19	22	58	50
BFDG08	1/2"-14	27	70.5	61.5
BFDG12	3/4"-14	32	87.5	77.5
BFDG16	1"-11	41	108.5	98.5



OM

BANJO FITTINGS
RNM - METRIC BANJO
NORM DIN 7642

Article Code	Hose		Dimensions			
	Inch	DN (mm)	A	R	D1	S
OM1003	3/16"	5	24.8	8.5	M10	10
OM1004	1/4"	6	24.8	8.5	M10	10
OM1203	3/16"	5	21.5	10	M12	12
OM1204	1/4"	6	28.3	10	M12	12
OM1205	5/16"	5	28.1	10	M12	12
OM1404	1/4"	6	24.8	12	M14	14
OM1405	5/16"	8	23.3	12	M14	14
OM1406	3/8"	10	25.4	12	M14	14
OM1604	1/4"	6	26.7	14	M16	17
OM1605	5/16"	8	26.8	14	M16	17
OM1606	3/8"	10	26.9	14	M16	17
OM1608	1/2"	12	34	14	M16	18
OM1804	1/4"	6	31.9	16	M18	20
OM1805	5/16"	8	31.7	16	M18	20
OM1806	3/8"	10	32.3	16	M18	20
OM1808	1/2"	12	29.3	16	M18	20
OM2006	3/8"	10	27.8	17.5	M20	22
OM2008	1/2"	12	28.3	17.5	M20	22
OM2206	3/8"	10	32.3	18	M22	22
OM2208	1/2"	12	29.6	18	M22	22
OM2210	5/8"	16	30.5	18	M22	22
OM2610	5/8"	16	38	22.5	M26	29
OM2612	3/4"	19	38	22.5	M26	29
OM3016	1"	25	38	22.5	M30	32

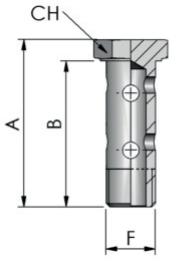


BFM

BOLTS FOR BANJOS

METRIC BANJO BOLT

Article Code	Thread	Dimensions		
		CH	A	B
	Inch			
BFM08	M8x1	12	22	17
BFM10	M10x1	14	25.5	20.5
BFM12	M12x1.5	17	30	24
BFM14	M14x1.5	19	32	26
BFM16	M16x1.5	22	34	28
BFM18	M18x1.5	24	38	32
BFM20	M20x1.5	27	43.9	36
BFM22	M22x1.5	27	46	39
BFM24	M24x1.5	32	51.9	42
BFM26	M26x1.5	32	52	45

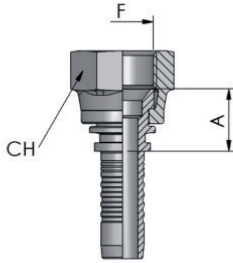


BFDM

BOLTS FOR BANJOS

METRIC DOUBLE BANJO BOLT

Article Code	Thread	Dimensions		
		CH	A	B
BFDM08	M8x1	12	30.5	26
BFDM10	M10x1	14	35	30
BFDM12	M12x1.5	17	43.7	38.5
BFDM14	M14x1.5	19	48.5	42
BFDM16	M16x1.5	22	58	50
BFDM18	M18x1.5	24	69.9	62
BFDM20	M20x1.5	27	65.6	57.1
BFDM22	M22x1.5	27	73	64

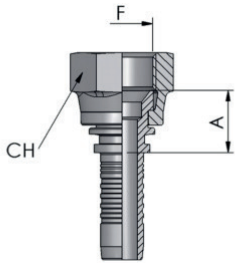


FKTS

JISK - JIS KOMATSU FEMALE

THREAD = METRIC

Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
	F				
FKTS1204	12x1.5	1/4"	6	17	10.5
FKTS1404	14x1.5	1/4"	6	19	10.5
FKTS1405	14x1.5	5/16"	8	19	11
FKTS1605	16x1.5	5/16"	8	22	11
FKTS1606	16x1.5	3/8"	10	22	12
FKTS1806	18x1.5	3/8"	10	24	12
FKTS2008	20x1.5	1/2"	12	27	13
FKTS2208	22x1.5	1/2"	12	27	13.5
FKTS2410	24x1.5	5/8"	16	30	14
FKTS3012	30x1.5	3/4"	19	34	17

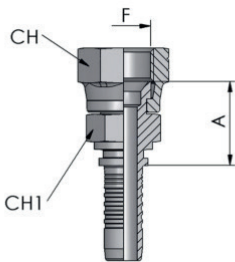


JFS

JIST - JIS TOYOTA FEMALE 30 CONE

THREAD = BSP

Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
FJS0404	1/4"-19	1/4"	6	17	10.5
FJS0606	3/8"-19	3/8"	10	22	12
FJS0808	1/2"-14	1/2"	12	27	13.5
FJS1212	3/4"-14	3/4"	19	32	14
FJS1616	1"-11	1"	25	38	15



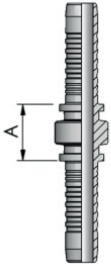
FJSDE

JIST - JIS TOYOTA FEMALE 30 CONE

THREAD = BSP

DOUBLE HEXAGON

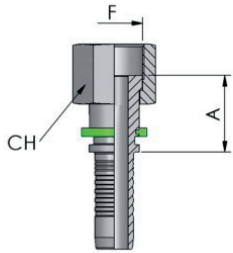
Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
FJSDE0404	1/4"-19	1/4"	6	17	10.5
FJSDE0606	3/8"-19	3/8"	10	22	12
FJSDE0808	1/2"-14	1/2"	12	27	13.5
FJSDE1212	3/4"-14	3/4"	19	32	14



GPG

HOSE JUNCTION

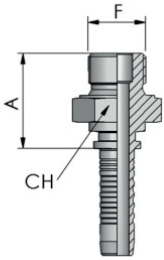
Article Code	Hose		Dimensions (mm)
	Inch	DN (mm)	A
GPG0404	1/4"	6	17
GPG0505	5/16"	8	17
GPG0606	3/8"	10	17
GPG0808	1/2"	12	18
GPG1010	5/8"	16	18
GPG1212	3/4"	19	19
GPG1616	1"	25	21
GPG2020	1.1/4"	32	24



FW

Co² FEMALE WHITWORTH STRAIGHT FEMALE
 THREAD = BSW

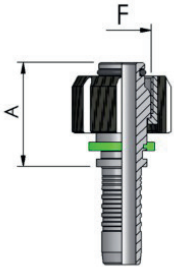
Article Code	Thread	Hose		Dimensions	
	F	Inch	DN (mm)	CH	A
FW21706	21.7	3/8"	10	27	18.6
FW21708	21.7	1/2"	12	27	18.6



MW

Co² MALE WHITWORTH STRAIGHT MALE
 THREAD = BSW

Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
MW21706	21.7	3/8"	10	24	27
MW21708	21.7	1/2"	12	24	27



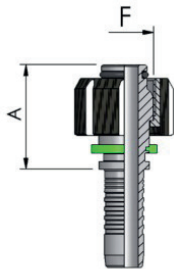
FMK

JET WASH FITTINGS

THREAD = METRIC

SHORT NUT

Article Code	Thread	Hose		Dimensions	
	F	Inch	DN (mm)	CH	A
FMK2204	21.7	1/4"	6		38.8
FMK2205	22x1.5	5/16"	8		39.8
FMK2206	22x1.5	3/8"	10		30.7



FMK

JET WASH FITTINGS

THREAD = METRIC

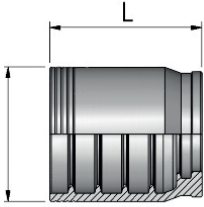
LONG NUT

Article Code	Thread	Hose		Dimensions	
	F	Inch	DN (mm)	CH	A
FMK2204DL	21.7	1/4"	6		38.8
FMK2205DL	22x1.5	5/16"	8		39.8
FMK2206DL	22x1.5	3/8"	10		30.7



DRY SPIRAL

HYDRAULIC FITTINGS



BSN2

SUPERSEDED BDB

DRY-SPIRAL

DRY-SPIRAL NO SKIVE FERRULE
1SN, 2SN, R16, R17, 2SC, 2SNK

Article Code	Hose		Dimensions		Hose Type
	Inch	DN (mm)	D	L	
BSN212	3/4"	19	45	51	1SN-2SN-2SC-R16-R17-2SNK
BSN216	1"	25	53	57	1SN-2SN-2SC-R16-R17-2SNK
BSN220	1.1/4"	32	62	68	1SN-2SN
BSN224	1.1/2"	38	70	86	1SN-2SN
BSN232	2"	51	86	100	1SN-2SN

FERRULE FOR HOSE:

SAE 100 R1AT (EN 853 1SN)

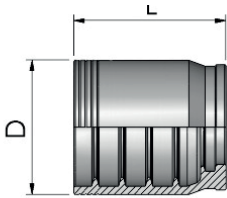
SAE 100 R17 on DN19 and DN25

SAE 100 R2AT (EN 853 2SN)

EN 857-2SC on DN19 and DN25

SAE 100 R16S on DN19 and DN25

EXCEED EN 857-2SNK from DN19 to DN31,5



BSN4

SUPERSEDED BDR

DRY-SPIRAL

DRY-SPIRAL NO SKIVE FERRULE
4SP-4SH-R12-R13-R15-ISO18752 - FLEXLII

Article Code	Hose		Dimensions		Hose Type
	Inch	DN (mm)	D	L	
BHR08	1/2"	12	35	38	4SP-ISO
BHR10	5/8"	16	42	48	4SP-ISO-FL5
BSN412A	3/4"	19	45	51	4SP-4SH-R13-R15-ISO-FL5
BSN416A	1"	25	53	57	4SP-4SH-R13-R15-ISO-FL5
BSN420A	1.1/4"	32	62	68	4SH-R12-ISO-FL5
BSN424A	1.1/2"	38	70	86	4SH-R12-ISO
BSN432A	2"	51	86	100	4SH-R12-ISO

FERRULE FOR THE FOLLOWING HOSE

DIN EN 856 4SP (DN 12:16:19:25)

DIN EN 856 4SH (DN 19:25:32:38:51)

SAE 100 R12 (DN 32:38:51)

SAE 100 R13 (DN 19:25)

SAE 100 R15 (DN 19:25)

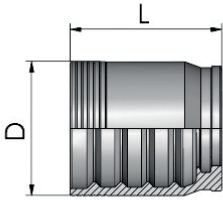
ISO18752-CC FLEXLINE 5000 (DN 16:19:25:31)

ISO210 (DN 32:38:51)

ISO280 (DN 16:19:25:32:38:51)

ISO350 (DN 12:16:19:25)

ISO420 (DN 12:16:19:25)



BSS6

SUPERSEDED BDS

DRY-SPIRAL

DRY-SPIRAL NO SKIVE FERRULE
4SP-R13-R15-ISO18752 -

Article Code	Hose		Dimensions		Hose Type
	Inch	DN (mm)	D	L	
BSS620	1.1/4"	32	58	72	4SP-R13-R15-ISO
BSS624	1.1/2"	38	68	90	4SP-R13-R15-ISO
BSS632	2"	51	84	105	4SP-R13-ISO

FERRULE FOR THE FOLLOWING HOSE

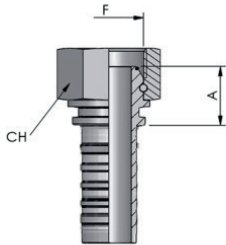
DIN EN 856 4SP (DN 32:38:51)

SAE 100 R13 (DN 32:38:51)

SAE 100 R15 (DN 32:38)

ISO350 (DN 32:38:51)

ISO420 (DN 32:38:51)



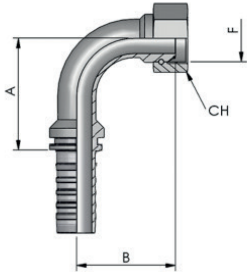
CSFGO

SUPERSEDED DFG

DRY-SPIRAL

DKOR DRY SPIRAL BSP FEMALE THRUST WIRE
'O' RING STRAIGHT FEMALE

Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
CS0808FGO	1/2"-14	1/2"	12	27	24.5
CS1012FGO	3/4"-14	5/8"	16	32	27.3
CS1212FGO	3/4"-14	3/4"	19	32	29
CS1612FGO	3/4"-14	1"	25	32	31.8
CS2012FGO	3/4"-14	1.1/4"	32	32	34
CS1216FGO	1"-11	3/4"	19	41	33
CS1616FGO	1"-11	1"	25	41	34
CS1620FGO	1.1/4"-11	1"	25	50	38
CS2020FGO	1.1/4"-11	1.1/4"	32	50	39
CS2024FGO	1.1/2"-11	1.1/4"	32	60	42
CS2424FGO	1.1/2"-11	1.1/2"	38	60	43
CS3232FGO	2"-11	2"	51	75	47



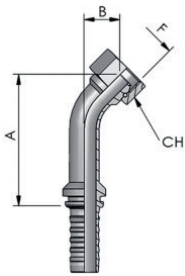
CSFG090

SUPERSEDED DC90G

DRY-SPIRAL

DKOR DRY SPIRAL BSP FEMALE THRUST WIRE
'O' RING SWEPT 90 FEMALE

Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	A
CS0808FGO90	1/2"-14	1/2"	12	27	41	46
CS1012FGO90	3/4"-14	5/8"	16	32	50	54
CS1212FGO90	3/4"-14	3/4"	19	57	55	32
CS1216FGO90	1"-11	3/4"	19	61	55	41
CS1616FGO90	1"-11	1"	25	72	71	41
CS1620FGO90	1.1/4"-11	1"	25	74	71	50
CS2020FGO90	1.1/4"-11	1.1/4"	32	88	87	50
CS2024FGO90	1.1/2"-11	1.1/4"	32	88	87	60
CS2424FGO90	1.1/2"-11	1.1/2"	38	104	105	60
CS3232FGO90	2"-11	2"	51	137	140	75



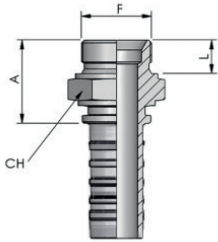
CSFGO45

SUPERSEDED DC45G

DRY-SPIRAL

DKOR DRY SPIRAL BSP FEMALE THRUST WIRE
'O' RING SWEPT 45 FEMALE

Article Code	Thread	Hose		Dimensions		
	F	Inch	DN (mm)	CH	A	A
CS0808FGO45	1/2"-14	1/2"	12	27	69	24
CS1012FGO45	3/4"-14	5/8"	16	32	82	27
CS1212FGO45	3/4"-14	3/4"	19	57	67	32
CS1216FGO45	1"-11	3/4"	19	61	70	41
CS1616FGO45	1"-11	1"	25	72	86	41
CS1620FGO45	1.1/4"-11	1"	25	74	87	50
CS2020FGO45	1.1/4"-11	1.1/4"	32	88	103	50
CS2024FGO45	1.1/2"-11	1.1/4"	32	88	103	60
CS2424FGO45	1.1/2"-11	1.1/2"	38	104	123	60
CS3232FGO45	2"-11	2"	51	137	160	75



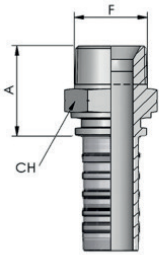
CSMG

SUPERSEDED DMG

DRY-SPIRAL

DKOR DRY SPIRAL BSP MALE

Article Code	Thread	Hose		Dimensions		
	F	Inch	DN (mm)	CH	A	B
CS0808MG	1/2"-14	1/2"	12	27	32.8	14
CS1012MG	3/4"-14	5/8"	16	32	36.1	16
CS1212MG	3/4"-14	3/4"	19	32	38	16
CS1216MG	1"-11	3/4"	19	41	43	19
CS1616MG	1"-11	1"	25	41	45	19
CS1620MG	1.1/4"-11	1"	25	50	48	20
CS2020MG	1.1/4"-11	1.1/4"	32	50	50	20
CS2024MG	1.1/2"-11	1.1/4"	32	55	53	22
CS2424MG	1.1/2"-11	1.1/2"	38	55	55	22
CS3232MG	2"-11	2"	51	70	63	25



CSMGC

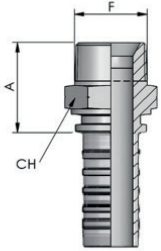
SUPERSEDED DMC

DRY-SPIRAL

AGN-DRY-SPIRAL BSPT MALE

THREAD BSPT

Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
CS0808MGC	1/2"-14	1/2"	12	22	37
CS1212MGC	3/4"-14	3/4"	19	27	37
CS1616MGC	1"-11	1"	25	36	44
CS2020MGC	1.1/4"-11	1.1/4"	32	46	51
CS2424MGC	1.1/2"-11	1.1/2"	38	50	54
CS3232MGC	2"-11	2"	51	65	64



CSNPT

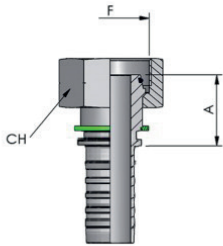
SUPERSEDED DMNPT

DRY-SPIRAL

AGN-DRY-SPIRAL NPTF MALE

THREAD NPTF

Article Code	Thread	Hose		Dimensions	
		Inch	DN (mm)	CH	A
	F				
CS0808NPT	1/2"-14	1/2"	12	22	37
CS1212NPT	3/4"-14	3/4"	19	27	39
CS1216NPT	1"-11.5	3/4"	19	36	47
CS1612NPT	3/4"-14	1"	25	32	41.5
CS1616NPT	1"-11.5	1"	25	36	48.5
CS1620NPT	1.1/4"-11	1"	25	46	53
CS2016NPT	1"-11.5	1.1/4"	32	41	52.5
CS2020NPT	1.1/4"-11	1.1/4"	32	46	55
CS2024NPT	1.1/2"-11	1.1/4"	32	50	59
CS2424NPT	1.1/2"-11	1.1/2"	38	50	61
CS2432NPT	2"-11.5	1.1/2"	38	65	67.5
CS3232NPT	2"-11.5	2"	51	65	70.5



CSFOS

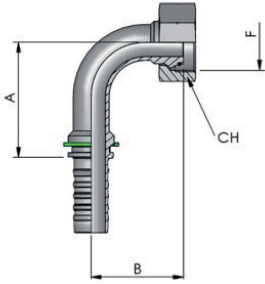
SUPERSEDED DFES

DRY-SPIRAL

DKOS DRY SPIRAL METRIC 'O' RING
STRAIGHT FEMALE HEAVY SERIES

NORM DIN 3865

Article Code	Thread	Hose		Standpipe	Dimensions	
		Inch	DN (mm)		mm	CH
CS08FOS16S	M24x1.5	1/2"	12	16	30	30.4
CS10FOS20S	M30x2	5/8"	16	20	36	33.6
CS12FOS20S	M30x2	3/4"	19	20	36	37
CS12FOS25S	M36x2	3/4"	19	25	46	39
CS16FOS25S	M36x2	1"	25	25	46	41
CS16FOS30S	M42x2	1"	25	30	50	42
CS20FOS30S	M42x2	1.1/4"	32	30	50	43
CS20FOS38S	M52x2	1.1/4"	32	38	60	48
CS24FOS38S	M52x2	1.1/2"	38	38	60	51



CSFOS90

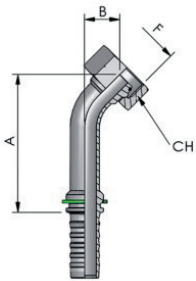
SUPERSEDED DC90ES

DRY-SPIRAL

DKOS DRY SPIRAL METRIC 'O' RING
SWEPT 90 FEMALE HEAVY SERIES

NORM DIN 3865

Article Code	Thread	Hose		Standpipe	Dimensions		
		Inch	DN (mm)		mm	CH	A
CS08FOS16S90	M24x1.5	1/2"	12	16	30	38	44
CS10FOS20S90	M30x2	5/8"	16	20	36	50	51
CS12FOS20S90	M30x2	3/4"	19	20	36	55	55
CS12FOS25S90	M36x2	3/4"	19	25	46	55	55
CS16FOS25S90	M36x2	1"	25	25	46	71	69
CS16FOS30S90	M42x2	1"	25	30	50	71	67
CS20FOS30S90	M42x2	1.1/4"	32	30	50	87	83
CS20FOS38S90	M52x2	1.1/4"	32	38	60	87	80
CS24FOS38S90	M52x2	1.1/2"	38	38	60	105	100



CSFOS45

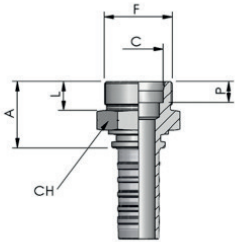
SUPERSEDED DC45ES

DRY-SPIRAL

DKOS DRY SPIRAL METRIC 'O' RING
SWEPT 45 FEMALE HEAVY SERIES

NORM DIN 3865

Article Code	Thread	Hose		Standpipe	Dimensions		
		Inch	DN (mm)		mm	CH	A
CS08FOS16S45	M24x1.5	1/2"	12	16	30	64	22
CS10FOS20S45	M30x2	5/8"	16	20	36	81	26
CS12FOS20S45	M30x2	3/4"	19	20	36	65	27
CS12FOS25S45	M36x2	3/4"	19	25	46	66	28
CS16FOS25S45	M36x2	1"	25	25	46	83	34
CS16FOS30S45	M42x2	1"	25	30	50	82	32
CS20FOS30S45	M42x2	1.1/4"	32	30	50	100	40
CS20FOS38S45	M52x2	1.1/4"	32	38	60	97	38
CS24FOS38S45	M52x2	1.1/2"	38	38	60	121	48



CSMM

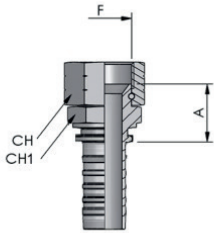
SUPERSEDED DMES

DRY-SPIRAL

CES DRY SPIRAL METRIC 'O' RING
MALE HEAVY SERIES

NORM DIN 3861

Article Code	Thread	Hose		Standpipe	Dimensions			
		Inch	DN (mm)		mm	CH	A	p
CS08MM16S	M24x1.5	1/2"	12	16	24	34	8.5	14
CS10MM20S	M30x2	5/8"	16	20	30	38.2	10.5	16
CS12MM20S	M30x2	3/4"	19	20	30	34	10.5	16
CS12MM25S	M36x2	3/4"	19	25	36	38	12	18
CS16MM25S	M36x2	1"	25	25	36	40	12	18
CS16MM30S	M42x2	1"	25	30	46	44	13.5	20
CS20MM30S	M42x2	1.1/4"	32	30	46	47	13.5	20
CS20MM38S	M52x2	1.1/4"	32	38	55	51	16	22
CS24MM38S	M52x2	1.1/2"	38	38	55	53	16	22



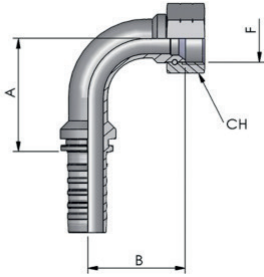
CSFIC

SUPERSEDED DFJDE

DRY-SPIRAL

DKJ DRY-SPIRAL JIC FEMALE THRUST WIRE NUT
 DOUBLE HEXAGON 37 CONE
 THREAD UNF-UN
 NORM SAE J514

Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
CS0808FIC	3/4"-16	1/2"	12	22	19	29.1
CS0810FIC	7/8"-14	1/2"	12	27	22	31.3
CS1010FIC	7/8"-14	5/8"	16	27	24	31.1
CS1012FIC	1.1/16"-12	5/8"	16	32	27	34.6
CS1210FIC	7/8"-14	3/4"	19	27	27	33
CS1212FIC	1.1/16"-12	3/4"	19	32	27	34
CS1214FIC	1.3/16"-12	3/4"	19	36	30	35.5
CS1216FIC	1.5/16"-12	3/4"	19	41	32	38
CS1612FIC	1.1/16"-12	1"	25	32	32	36.5
CS1616FIC	1.5/16"-12	1"	25	41	32	39.5
CS1620FIC	1.5/8"-12	1"	25	50	41	46
CS2016FIC	1.5/16"-12	1.1/4"	32	41	41	45.5
CS2020FIC	1.5/8"-12	1.1/4"	32	50	41	48
CS2024FIC	1.7/8"-12	1.1/4"	32	60	46	51
CS2424FIC	1.7/8"-12	1.1/2"	38	60	46	53
CS2432FIC	2.1/2"-12	1.1/2"	38	75	60	66
CS3232FIC	2.1/2"-12	2"	51	75	60	69



CSFIS90

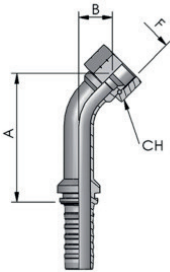
SUPERSEDED DC90J

DRY-SPIRAL

DKJ DRY-SPIRAL JIC FEMALE THRUST WIRE NUT
SWEPT 90

THREAD UNF-UN

Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
	F					
CS0808FIS90	3/4"-16	1/2"	12	22	41	41
CS0810FIS90	7/8"-14	1/2"	12	27	41	42
CS1010FIS90	7/8"-14	5/8"	16	27	51	49
CS1012FIS90	1.1/16"-12	5/8"	16	32	50	50
CS1210FIS90	7/8"-14	3/4"	19	27	55	55
CS1212FIS90	1.1/16"-12	3/4"	19	32	55	52
CS1214FIS90	1.3/16"-12	3/4"	19	36	55	52
CS1216FIS90	1.5/16"-12	3/4"	19	41	55	56
CS1612FIS90	1.1/16"-12	1"	25	32	71	71
CS1616FIS90	1.5/16"-12	1"	25	41	71	67
CS1620FIS90	1.5/8"-12	1"	25	50	71	69
CS2016FIS90	1.5/16"-12	1.1/4"	32	41	87	84
CS2020FIS90	1.5/8"-12	1.1/4"	32	50	87	81
CS2024FIS90	1.7/8"-12	1.1/4"	32	60	87	82
CS2424FIS90	1.7/8"-12	1.1/2"	38	60	105	97
CS2432FIS90	2.1/2"-12	1.1/2"	38	75	105	102
CS3232FIS90	2.1/2"-12	2"	51	75	140	132



CSFIS45

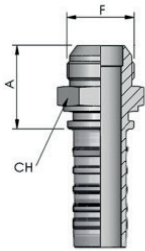
SUPERSEDED DC45J

DRY-SPIRAL

DKJ DRY-SPIRAL JIC FEMALE THRUST WIRE NUT
SWEPT 45

THREAD UNF-UN

Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
CS0808FIS45	3/4"-16	1/2"	12	22	65	20
CS0810FIS45	7/8"-14	1/2"	12	27	66	21
CS1010FIS45	7/8"-14	5/8"	16	27	80	24
CS1012FIS45	1.1/16"-12	5/8"	16	32	80	25
CS1210FIS45	7/8"-14	3/4"	19	27	66	28
CS1212FIS45	1.1/16"-12	3/4"	19	32	63	25
CS1214FIS45	1.3/16"-12	3/4"	19	36	63	25
CS1216FIS45	1.5/16"-12	3/4"	19	41	66	28
CS1612FIS45	1.1/16"-12	1"	25	32	85	35
CS1616FIS45	1.5/16"-12	1"	25	41	82	32
CS1620FIS45	1.5/8"-12	1"	25	50	83	33
CS2016FIS45	1.5/16"-12	1.1/4"	32	41	100	41
CS2020FIS45	1.5/8"-12	1.1/4"	32	50	98	38
CS2024FIS45	1.7/8"-12	1.1/4"	32	60	99	39
CS2424FIS45	1.7/8"-12	1.1/2"	38	60	118	46
CS2432FIS45	2.1/2"-12	1.1/2"	38	75	122	50
CS3232FIS45	2.1/2"-12	2"	51	75	157	62



CSMI

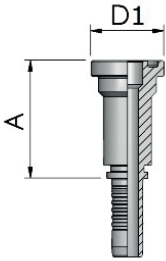
SUPERSEDED DMJ

DRY-SPIRAL

AGJ DRY-SPIRAL JIC MALE
37 CONE

THREAD UNF-UN

Article Code	Flange Head	Hose		Dimensions	
		Inch	DN (mm)	D1	A
CS0808MI	3/4"-16	1/2"	12	19	33.1
CS0810MI	7/8"-14	1/2"	12	24	37.2
CS1010MI	7/8"-14	5/8"	16	27	37.4
CS1012MI	1.1/16"-12	5/8"	16	27	41.8
CS1210MI	7/8"-14	3/4"	19	27	37
CS1212MI	1.1/16"-12	3/4"	19	27	40
CS1214MI	1.3/16"-12	3/4"	19	32	41.5
CS1216MI	1.5/16"-12	3/4"	19	36	43
CS1612MI	1.1/16"-12	1"	25	32	43
CS1616MI	1.5/16"-12	1"	25	36	45
CS1620MI	1.5/8"-12	1"	25	46	48
CS2016MI	1.5/16"-12	1.1/4"	32	41	48.5
CS2020MI	1.5/8"-12	1.1/4"	32	46	50.5
CS2024MI	1.7/8"-12	1.1/4"	32	50	55
CS2424MI	1.7/8"-12	1.1/2"	38	50	57
CS2432MI	2.1/2"-12	1.1/2"	38	65	65.5
CS3232MI	2.1/2"-12	2"	51	65	68.5

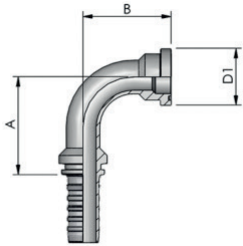


CSFL

SUPERSEDED DFLPI3

FLANGE STRAIGHT
SAE FLANGE 3000 SERIES CODE 61
NORM SAE J518

Article Code	Flange Head	Hose		Dimensions	
		Inch	DN (mm)	D1	A
CS0808FL	1/2"	1/2"	12	30.2	50.7
CS1212FL	3/4"	3/4"	19	38.1	55
CS1216FL	1"	3/4"	19	44.5	57
CS1220FL	1.1/4"	3/4"	19	50.8	55
CS1612FL	3/4"	1"	25	38.1	58
CS1616FL	1"	1"	25	44.5	58
CS1620FL	1.1/4"	1"	25	50.8	63
CS1624FL	1.1/2"	1"	25	60.4	55
CS2016FL	1"	1.1/4"	32	44.5	64
CS2020FL	1.1/4"	1.1/4"	32	50.8	64
CS2024FL	1.1/2"	1.1/4"	32	60.4	68
CS2032FL	2"	1.1/4"	32	71.4	75
CS2424FL	1.1/2"	1.1/2"	38	60.4	73
CS2432FL	2"	1.1/2"	38	71.4	76
CS3232FL	2"	2"	51	71.4	77
CS3240FL	2.1/2"	2"	51	84.1	90



CSFL90

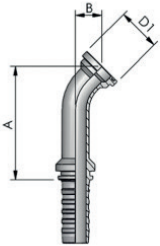
SUPERSEDED DFLPI390

DRY-SPIRAL

SFL DRY-SPIRAL SAE FLANGE 3000 PSI
SWEPT 90

NORM SAE J518

Article Code	Flange Face	Hose		Dimensions		
	F	Inch	DN (mm)	D1	A	B
CS0808FL90	1/2"	1/2"	12	30.2	41	42
CS1212FL90	3/4"	3/4"	19	38.1	55	51
CS1216FL90	1"	3/4"	19	44.5	55	55
CS1220FL90	1.1/4"	3/4"	19	50.8	55	60
CS1612FL90	3/4"	1"	25	38.1	71	65
CS1616FL90	1"	1"	25	44.5	71	61
CS1620FL90	1.1/4"	1"	25	50.8	71	61
CS1624FL90	1.1/2"	1"	25	60.4	71	61
CS2016FL90	1"	1.1/4"	32	44.5	87	79
CS2020FL90	1.1/4"	1.1/4"	32	50.8	87	71
CS2024FL90	1.1/2"	1.1/4"	32	60.4	87	71
CS2424FL90	1.1/2"	1.1/2"	38	60.4	105	83
CS2432FL90	2"	1.1/2"	38	71.4	105	81
CS3232FL90	2"	2"	51	71.4	140	122
CS3240FL90	2.1/2"	2"	51	84.1	140	117



CSFL45

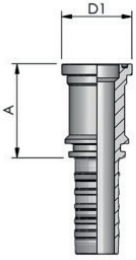
SUPERSEDED DFLPI345

DRY-SPIRAL

SFL DRY-SPIRAL SAE FLANGE 3000 PSI
SWEPT 45

NORM SAE J518

Article Code	Flange Face	Hose		Dimensions		
		Inch	DN (mm)	D1	A	B
CS0808FL45	1/2"	1/2"	12	30.2	66	21
CS1212FL45	3/4"	3/4"	19	38.1	63	25
CS1216FL45	1"	3/4"	19	44.5	65	27
CS1612FL45	3/4"	1"	25	38.1	81	31
CS1616FL45	1"	1"	25	44.5	78	28
CS1620FL45	1.1/4"	1"	25	50.8	78	28
CS2016FL45	1"	1.1/4"	32	44.5	96	37
CS2020FL45	1.1/4"	1.1/4"	32	50.8	91	32
CS2024FL45	1.1/2"	1.1/4"	32	60.4	91	32
CS2424FL45	1.1/2"	1.1/2"	38	60.4	108	36
CS2432FL45	2"	1.1/2"	38	71.4	107	35
CS3232FL45	2"	2"	51	71.4	151	57
CS3240FL45	2.1/2"	2"	51	84.1	146	51



CSFP

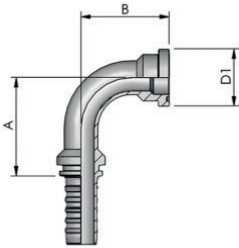
SUPERSEDED DFLPI6

DRY-SPIRAL

SFL DRY-SPIRAL SAE FLANGE 6000 PSI

NORM SAE J518

Article Code	Flange Head	Hose		Dimensions	
		Inch	DN (mm)	D1	A
CS0808FP	1/2"	1/2"	12	31.8	50.7
CS1212FP	3/4"	3/4"	19	41.3	59
CS1216FP	1"	3/4"	19	47.6	61
CS1612FP	3/4"	1"	25	41.3	65
CS1616FP	1"	1"	25	47.6	65
CS1620FP	1.1/4"	1"	25	54	69
CS2016FP	1"	1.1/4"	32	47.6	70
CS2020FP	1.1/4"	1.1/4"	32	54	70
CS2024FP	1.1/2"	1.1/4"	32	63.5	80
CS2424FP	1.1/2"	1.1/2"	38	63.5	84
CS2432FP	2"	1.1/2"	38	79.4	99
CS3232FP	2"	2"	51	79.4	100



CSFP90

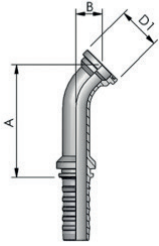
SUPERSEDED DFLPI690

DRY-SPIRAL

SFL DRY-SPIRAL SAE FLANGE 6000 PSI
SWEPT 90

NORM SAE J518

Article Code	Flange Face	Hose		Dimensions		
	F	Inch	DN (mm)	D1	A	B
CS0808FP90	1/2"	1/2"	12	31.8	41	43
CS1212FP90	3/4"	3/4"	19	41.3	55	56
CS1216FP90	1"	3/4"	19	47.6	55	58
CS1612FP90	3/4"	1"	25	41.3	71	65
CS1616FP90	1"	1"	25	47.6	71	64
CS1620FP90	1.1/4"	1"	25	54	71	64
CS2016FP90	1"	1.1/4"	32	47.6	87	79
CS2020FP90	1.1/4"	1.1/4"	32	54	87	74
CS2024FP90	1.1/2"	1.1/4"	32	63.5	87	76
CS2424FP90	1.1/2"	1.1/2"	38	63.5	105	88
CS2432FP90	2"	1.1/2"	38	79.4	105	93
CS3232FP90	2"	2"	51	79.4	140	123



CSFP45

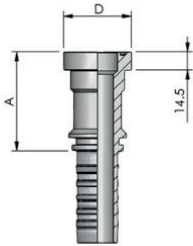
SUPERSEDED DFLPI645

DRY-SPIRAL

SFL DRY-SPIRAL SAE FLANGE 6000 PSI
SWEPT 45

NORM SAE J518

Article Code	Flange Face	Hose		Dimensions		
	F	Inch	DN (mm)	D1	A	B
CS0808FP45	1/2"	1/2"	12	31.8	67	22
CS1212FP45	3/4"	3/4"	19	41.3	66	28
CS1216FP45	1"	3/4"	19	47.6	68	29
CS1612FP45	3/4"	1"	25	41.3	81	31
CS1616FP45	1"	1"	25	47.6	80	30
CS1620FP45	1.1/4"	1"	25	54	80	30
CS2016FP45	1"	1.1/4"	32	47.6	96	37
CS2020FP45	1.1/4"	1.1/4"	32	54	93	34
CS2024FP45	1.1/2"	1.1/4"	32	63.5	94	35
CS2424FP45	1.1/2"	1.1/2"	38	63.5	112	40
CS2432FP45	2"	1.1/2"	38	79.4	115	43
CS3232FP45	2"	2"	51	79.4	150	56



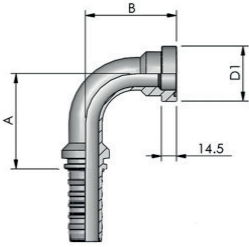
CSYP

SUPERSEDED DFLPIR6

DRY-SPIRAL

SFC - DRY-SPIRAL SUPERCAT FLANGE
STRAIGHT

Article Code	Flange Head	Hose		Dimensions	
		Inch	DN (mm)	D1	A
CS1212YP	3/4"	3/4"	19	41.3	84
CS1216YP	1"	3/4"	19	47.6	84
CS1616YP	1"	1"	25	47.6	90
CS1620YP	1.1/4"	1"	25	54	90
CS2020YP	1.1/4"	1.1/4"	32	54	88
CS2024YP	1.1/2"	1.1/4"	32	63.5	88
CS2424YP	1.1/2"	1.1/2"	38	63.5	84
CS2432YP	2"	1.1/2"	38	79.4	110
CS3232YP	2"	2"	51	79.4	110



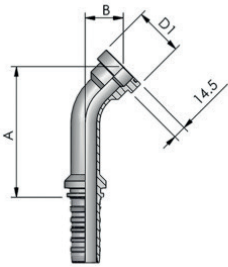
CSYP90

SUPERSEDED DFLPIR690

DRY-SPIRAL

SFC - DRY-SPIRAL SUPERCAT FLANGE
SWEPT 90

Article Code	Flange Face	Hose		Dimensions		
		Inch	DN (mm)	D1	A	B
CS1212YP90	3/4"	3/4"	19	41.3	55	64
CS1216YP90	1"	3/4"	19	47.6	55	64
CS1616YP90	1"	1"	25	47.6	71	73
CS1620YP90	1.1/4"	1"	25	54	71	73
CS2020YP90	1.1/4"	1.1/4"	32	54	87	77
CS2024YP90	1.1/2"	1.1/4"	32	63.5	87	78
CS2424YP90	1.1/2"	1.1/2"	38	63.5	105	90
CS2432YP90	2"	1.1/2"	38	79.4	105	94
CS3232YP90	2"	2"	51	79.4	140	125



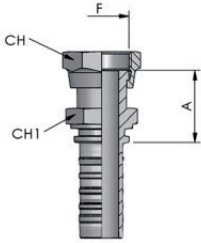
CSYP45

SUPERSEDED DFLPIR645

DRY-SPIRAL

SFC - DRY-SPIRAL SUPERCAT FLANGE
SWEPT 45

Article Code	Flange Face	Hose		Dimensions		
		Inch	DN (mm)	D1	A	B
CS1212YP45	3/4"	3/4"	19	41.3	72	34
CS1216YP45	1"	3/4"	19	47.6	74	36
CS1616YP45	1"	1"	25	47.6	86	36
CS1620YP45	1.1/4"	1"	25	54	86	36
CS2020YP45	1.1/4"	1.1/4"	32	54	96	36
CS2024YP45	1.1/2"	1.1/4"	32	63.5	96	36
CS2424YP45	1.1/2"	1.1/2"	38	63.5	114	41
CS2432YP45	2"	1.1/2"	38	79.4	116	44
CS3232YP45	2"	2"	51	79.4	152	57



CSFRC

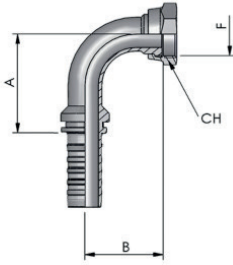
SUPERSEDED DFORFSDE

DRY-SPIRAL

DKO DRY-SPIRAL ORFS FEMALE
DOUBLE HEXAGON

THREAD UNF-UN

Article Code	Thread	Hose		Dimensions		
	F	Inch	DN (mm)	CH	CH1	A
CS0808FRC	13/16"-16	1/2"	12	24	19	37.8
CS1010FRC	1"-14	5/8"	16	30	24	39.2
CS1210FRC	1"-14	3/4"	19	30	27	43
CS1212FRC	1.3/16"-12	3/4"	19	36	30	46
CS1216FRC	1.7/16"-12	3/4"	19	41	36	49
CS1612FRC	1.3/16"-12	1"	25	36	36	50
CS1616FRC	1.7/16"-12	1"	25	41	36	51
CS1620FRC	1.11/16"-12	1"	25	50	41	52
CS2020FRC	1.11/16"-12	1.1/4"	32	50	41	55
CS2424FRC	2"-12	1.1/2"	38	60	50	60



CSFRS90

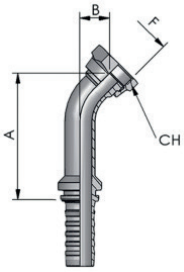
SUPERSEDED DC90ORFS

DRY-SPIRAL

DKO 90 DRY-SPIRAL ORFS FEMALE 90

THREAD UNF-UN

Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
CS1010FRS90	1"-14	5/8"	16	30	45	45
CS1212FRS90	1.3/16"-12	3/4"	19	36	48	46
CS1216FRS90	1.7/16"-12	3/4"	19	41	45	57
CS1616FRS90	1.7/16"-12	1"	25	41	68	63
CS2020FRS90	1.11/16"-12	1.1/4"	32	50	83	74
CS2424FRS90	2"-12	1.1/2"	38	60	102	84



CSFRS45

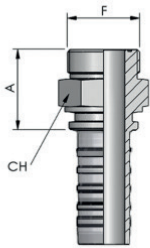
SUPERSEDED DC45ORFS

DRY-SPIRAL

DKO 45 DRY-SPIRAL ORFS FEMALE 45

THREAD UNF-UN

Article Code	Thread	Hose		Dimensions		
		Inch	DN (mm)	CH	A	B
CS0808FRS45	13/16"-16	1/2"	12	24	61	16
CS1010FRS45	1"-14	5/8"	16	30	76	20
CS1212FRS45	1.3/16"-12	3/4"	19	36	60	22
CS1216FRS45	1.7/16"-12	3/4"	19	41	61	23
CS1616FRS45	1.7/16"-12	1"	25	41	78	29
CS1620FRS45	1.11/16"-12	1"	25	50	78	29
CS2020FRS45	1.11/16"-12	1.1/4"	32	50	93	34
CS2424FRS45	2"-12	1.1/2"	38	60	113	41



CSMRS

SUPERSEDED DMORFS

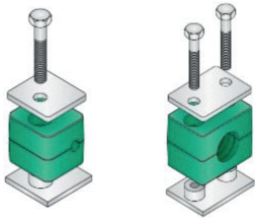
DRY-SPIRAL

AGO DRY-SPIRAL ORFS MALE

THREAD UNF-UN

Article Code	Flange Head	Hose		Dimensions	
		Inch	DN (mm)	CH	A
CS0808MRS	13/16"-16	1/2"	12	22	32.6
CS1010MRS	1"-14	5/8"	16	27	37.3
CS1212MRS	1.3/16"-12	3/4"	19	32	36
CS1616MRS	1.7/16"-12	1"	25	41	41
CS2020MRS	1.11/16"-12	1.1/4"	32	46	44
CS2424MRS	2"-12	1.1/2"	38	55	48

HYDRAULIC CLAMPS



CS

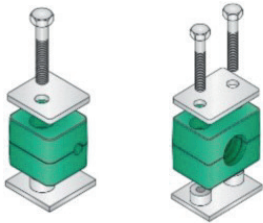
PP POLYPROPYLENE GREEN COMPLETE CLAMP

SINGLE STANDARD SERIES

CARBON STEEL METALWORK

DIN 3015/1

Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CS06	1	6		
CS06.4	1	6.4		1/4"
CS08	1	8		5/16"
CS09.5	1	9.5		3/8"
CS10	1	10	R 1/8"	
CS12	1	12		
CS12.7	2	12.7		1/2"
CS13.5	2	13.5	R 1/4"	
CS14	2	14		
CS15	2	15		
CS16	2	16		5/8"
CS17.2	2	17.2	R 3/8"	
CS18	2	18		
CS19	3	19		3/4"
CS20	3	20	R 1/2"	
CS21.3	3	21.3		
CS22	3	22		7/8"
CS23	3	23		



CS

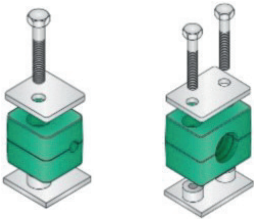
PP POLYPROPYLENE GREEN COMPLETE CLAMP

SINGLE STANDARD SERIES

CARBON STEEL METALWORK

DIN 3015/1

Article Code	GROUP	O.D	NOMINAL SIZE	O.D
CS25	3	25		
CS25.4	3	25.4		1"
CS26.9	4	26.9	R 3/4"	
CS28	4	28		
CS30	4	30		
CS32	5	32		1.1/4"
CS33.7	5	33.7	R 1"	
CS35	5	35		
CS38	5	38		1.1/2"
CS40	5	40		
CS42	5	42	R 1.1/4"	
CS44.5	6	44.5		1.3/4"
CS48.3	6	48.3	R 1.1/2"	
CS50.8	6	50.8		2"
CS57.2	7	57.2		2.1/4"
CS60.3	7	60.3	R 2"	
CS63.5	7	63.5		2.1/2"
CS70	7	70		2.3/4"
CS73	7	73		
CS76.1	7	76.1	R 2.1/2"	3"



CS**SS

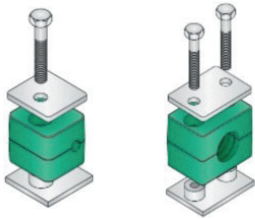
PP POLYPROPYLENE GREEN COMPLETE CLAMP

SINGLE STANDARD SERIES

316 STAINLESS STEEL METALWORK

DIN 3015/1

Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CS06SS	1	6		
CS06.4SS	1	6.4		1/4"
CS08SS	1	8		5/16"
CS09.5SS	1	9.5		3/8"
CS10SS	1	10	R 1/8"	
CS12SS	1	12		
CS12.7SS	2	12.7		1/2"
CS13.5SS	2	13.5	R 1/4"	
CS14SS	2	14		
CS15SS	2	15		
CS16SS	2	16		5/8"
CS17.2SS	2	17.2	R 3/8"	
CS18SS	2	18		
CS19SS	3	19		3/4"
CS20SS	3	20	R 1/2"	
CS21.3SS	3	21.3		
CS22SS	3	22		7/8"
CS23SS	3	23		



CS**SS

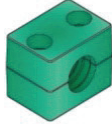
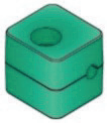
PP POLYPROPYLENE GREEN COMPLETE CLAMP

SINGLE STANDARD SERIES

316 STAINLESS STEEL METALWORK

DIN 3015/1

Article Code	GROUP	O.D	NOMINAL SIZE	O.D
CS25SS	3	25		
CS25.4SS	3	25.4		1"
CS26.9SS	4	26.9	R 3/4"	
CS28SS	4	28		
CS30SS	4	30		
CS32SS	5	32		1.1/4"
CS33.7SS	5	33.7	R 1"	
CS35SS	5	35		
CS38SS	5	38		1.1/2"
CS40SS	5	40		
CS42SS	5	42	R 1.1/4"	
CS44.5SS	6	44.5		1.3/4"
CS48.3SS	6	48.3	R 1.1/2"	
CS50.8SS	6	50.8		2"
CS57.2SS	7	57.2		2.1/4"
CS60.3SS	7	60.3	R 2"	
CS63.5SS	7	63.5		2.1/2"
CS70SS	7	70		2.3/4"
CS73SS	7	73		
CS76.1SS	7	76.1	R 2.1/2"	3"



CSB

PP POLYPROPYLENE GREEN CLAMP BODY ONLY

SINGLE STANDARD SERIES

DIN 3015/1

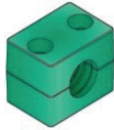
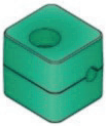
Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CSB06	1	6		
CSB06.4	1	6.4		1/4"
CSB08	1	8		5/16"
CSB09.5	1	9.5		3/8"
CSB10	1	10	R 1/8"	
CSB12	1	12		
CSB12.7	2	12.7		1/2"
CSB13.5	2	13.5	R 1/4"	
CSB14	2	14		
CSB15	2	15		
CSB16	2	16		5/8"
CSB17.2	2	17.2	R 3/8"	
CSB18	2	18		
CSB19	3	19		3/4"
CSB20	3	20	R 1/2"	
CSB21.3	3	21.3		
CSB22	3	22		7/8"
CSB23	3	23		
CSB25	3	25		

CSB

PP POLYPROPYLENE GREEN CLAMP BODY ONLY

SINGLE STANDARD SERIES

DIN 3015/1

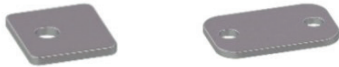


Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CSB25.4	3	25.4		1"
CSB26.9	4	26.9	R 3/4"	
CSB28	4	28		
CSB30	4	30		
CSB32	5	32		1.1/4"
CSB33.7	5	33.7	R 1"	
CSB35	5	35		
CSB38	5	38		1.1/2"
CSB40	5	40		
CSB42	5	42	R 1.1/4"	
CSB44.5	6	44.5		1.3/4"
CSB48.3	6	48.3	R 1.1/2"	
CSB50.8	6	50.8		2"
CSB57.2	7	57.2		2.1/4"
CSB60.3	7	60.3	R 2"	
CSB63.5	7	63.5		2.1/2"
CSB70	7	70		2.3/4"
CSB73	7	73		
CSB76.1	7	76.1	R 2.1/2"	3"

CLAMP COMPONENTS

STANDARD SERIES DIN 3015/1

CARBON STEEL METALWORK



Article Code	
	GROUP
TL00	0
TL01	1
TL02	2
TL03	3
TL04	4
TL05	5
TL06	6
TL07	7



Article Code	
	GROUP
BL00	0
BL01	1
BL02	2
BL03	3
BL04	4
BL05	5
BL06	6
BL07	7



Article Code	
	GROUP
WL00	0
WL01	1
WL02	2
WL03	3
WL04	4
WL05	5
WL06	6
WL07	7



Article Code	
	GROUP
WLE00	0
WLE01	1
WLE02	2
WLE03	3
WLE04	4
WLE05	5
WLE06	6
WLE07	7

CLAMP COMPONENTS

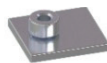
STANDARD SERIES DIN 3015/1

316 STAINLESS STEEL METALWORK



Article Code	
	GROUP
TL00SS	0
TL01SS	1
TL02SS	2
TL03SS	3
TL04SS	4
TL05SS	5
TL06SS	6
TL07SS	7

Article Code	
	GROUP
BL00SS	0
BL01SS	1
BL02SS	2
BL03SS	3
BL04SS	4
BL05SS	5
BL06SS	6
BL07SS	7



Article Code	
	GROUP
WL00SS	0
WL01SS	1
WL02SS	2
WL03SS	3
WL04SS	4
WL05SS	5
WL06SS	6
WL07SS	7

CLAMP COMPONENTS

STANDARD SERIES

CARBON STEEL METALWORK

DIN 3015/1



Article Code	GROUP
SBL00	0
SBL01	1
SBL02	2
SBL03	3
SBL04	4
SBL05	5
SBL06	6
SBL07	7



Article Code	GROUP
SPL00	0
SPL01	1
SPL02	2
SPL03	3
SPL04	4
SPL05	5
SPL06	6
SPL07	7

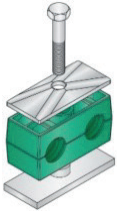


Article Code	DIMENSION
MR11-1	11 X 28 X 1MTR
MR11-2	11 X 28 X 2MTR
MR14-1	14 X 28 X 1 MTR
MR14-2	14 X 28 X 2MTR



Article Code	DIMENSION
RNLD	M6
RNTT	M8





CD

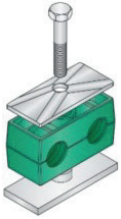
PP POLYPROPYLENE GREEN COMPLETE CLAMP

DOUBLE SERIES

CARBON STEEL METALWORK

DIN 3015/1

Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CD06	1	6		
CD06.4	1	6.4		1/4"
CD08	1	8		5/16"
CD09.5	1	9.5		3/8"
CD10	1	10	R 1/8"	
CD12	1	12		
CD12.7	2	12.7		1/2"
CD13.5	2	13.5	R 1/4"	
CD14	2	14		
CD15	2	15		
CD16	2	16		5/8"
CD17.2	2	17.2	R 3/8"	
CD18	2	18		
CD19	3	19		3/4"
CD20	3	20	R 1/2"	
CD21.3	3	21.3		
CD22	3	22		7/8"
CD23	3	23		



CD

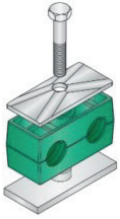
PP POLYPROPYLENE GREEN COMPLETE CLAMP

DOUBLE SERIES

CARBON STEEL METALWORK

DIN 3015/1

Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CD25	3	25		
CD25.4	3	25.4		1"
CD26.9	4	26.9	R 3/4"	
CD28	4	28		
CD30	4	30		
CD32	5	32		1.1/4"
CD33.7	5	33.7	R 1"	
CD35	5	35		
CD38	5	38		1.1/2"
CD40	5	40		
CD42	5	42	R 1.1/4"	



CD**SS

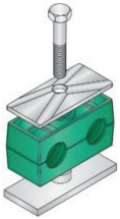
PP POLYPROPYLENE GREEN COMPLETE CLAMP

DOUBLE SERIES

316 STAINLESS STEEL METALWORK

DIN 3015/1

Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CD06SS	1	6		
CD06.4SS	1	6.4		1/4"
CD08SS	1	8		5/16"
CD09.5SS	1	9.5		3/8"
CD10SS	1	10	R 1/8"	
CD12SS	1	12		
CD12.7SS	2	12.7		1/2"
CD13.5SS	2	13.5	R 1/4"	
CD14SS	2	14		
CD15SS	2	15		
CD16SS	2	16		5/8"
CD17.2SS	2	17.2	R 3/8"	
CD18SS	2	18		
CD19SS	3	19		3/4"
CD20SS	3	20	R 1/2"	
CD21.3SS	3	21.3		
CD22SS	3	22		7/8"
CD23SS	3	23		



CD**SS

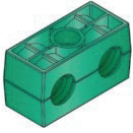
PP POLYPROPYLENE GREEN COMPLETE CLAMP

DOUBLE SERIES

316 STAINLESS STEEL METALWORK

DIN 3015/1

Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CD25SS	3	25		
CD25.4SS	3	25.4		1"
CD26.9SS	4	26.9	R 3/4"	
CD28SS	4	28		
CD30SS	4	30		
CD32SS	5	32		1.1/4"
CD33.7SS	5	33.7	R 1"	
CD35SS	5	35		
CD38SS	5	38		1.1/2"
CD40SS	5	40		
CD42SS	5	42	R 1.1/4"	



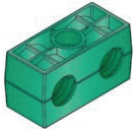
CDB

PP POLYPROPYLENE GREEN CLAMP BODY ONLY

DOUBLE SERIES

DIN 3015/1

Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CDB06	1	6		
CDB06.4	1	6.4		1/4"
CDB08	1	8		5/16"
CDB09.5	1	9.5		3/8"
CDB10	1	10	R 1/8"	
CDB12	1	12		
CDB12.7	2	12.7		1/2"
CDB13.5	2	13.5	R 1/4"	
CDB14	2	14		
CDB15	2	15		
CDB16	2	16		5/8"
CDB17.2	2	17.2	R 3/8"	
CDB18	2	18		
CDB19	3	19		3/4"
CDB20	3	20	R 1/2"	
CDB21.3	3	21.3		
CDB22	3	22		7/8"
CDB23	3	23		



CDB

PP POLYPROPYLENE GREEN CLAMP BODY ONLY

DOUBLE SERIES

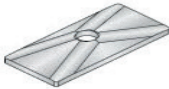
DIN 3015/1

Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CDB25	3	25		
CDB25.4	3	25.4		1"
CDB26.9	4	26.9	R 3/4"	
CDB28	4	28		
CDB30	4	30		
CDB32	5	32		1.1/4"
CDB33.7	5	33.7	R 1"	
CDB35	5	35		
CDB38	5	38		1.1/2"
CDB40	5	40		
CDB42	5	42	R 1.1/4"	

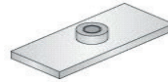
CLAMP COMPONENTS

TWIN SERIES DIN 3015/3

CARBON STEEL METALWORK



Article Code	
	GROUP
TT01	1
TT02	2
TT03	3
TT04	4
TT05	5



Article Code	
	GROUP
WT01	1
WT02	2
WT03	3
WT04	4
WT05	5



Article Code	
	GROUP
BT01	1
BT02	2
BT03	3
BT04	4
BT05	5

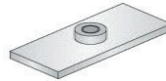
CLAMP COMPONENTS

TWIN SERIES DIN 3015/3

316 STAINLESS STEEL METALWORK



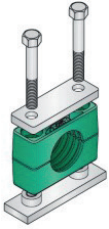
Article Code	
	GROUP
TT01SS	1
TT02SS	2
TT03SS	3
TT04SS	4
TT05SS	5



Article Code	
	GROUP
WT01SS	1
WT02SS	2
WT03SS	3
WT04SS	4
WT05SS	5



Article Code	
	GROUP
BT01SS	1
BT02SS	2
BT03SS	3
BT04SS	4
BT05SS	5



CH

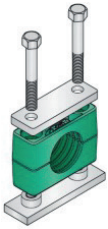
PP POLYPROPYLENE GREEN COMPLETE CLAMP

HEAVY SERIES

CARBON STEEL METALWORK

DIN 3015/2

Article Code				
	GROUP	O.D	NOMINAL SIZE	O.D
CH06	A1	6		
CH06.4	A1	6.4		1/4"
CH08	A1	8		5/16"
CH09.5	A1	9.5		3/8"
CH10	A1	10	R 1/8"	
CH12	A1	12		
CH12.7	A1	12.7		1/2"
CH13.5	A1	13.5	R 1/4"	
CH14	A1	14		
CH15	A1	15		
CH16	A1	16		5/8"
CH17.2	A1	17.2	R 3/8"	
CH18	A1	18		
CH19	A2	19		3/4"
CH20	A2	20		
CH21.3	A2	21.3	R 1/2"	
CH22	A2	22		7/8"
CH25	A2	25		
CH25.4	A2	25.4		1"



CH

PP POLYPROPYLENE GREEN COMPLETE CLAMP

HEAVY SERIES

CARBON STEEL METALWORK

DIN 3015/2

Article Code	GROUP	O.D	NOMINAL SIZE	O.D
CH26.9	A2	26.9	R 3/4"	
CH28	A2	28		
CH30	A2	30		
CH30	A3	30		
CH32	A3	32		1.1/4"
CH33.7	A3	33.7	R 1"	
CH35	A3	35		
CH38	A3	38		1.1/2"
CH40	A3	40		
CH42	A4	42	R 1.1/4"	
CH38	A4	38		1.3/4"
CH42	A4	42	R 1.1/4"	
CH38	A4	38		1.1/2"
CH42	A4	42	R 1.1/4"	
CH44.5	A4	44.5		1.3/4"
CH48.3	A4	48.3	R 1.1/2"	
CH50.8	A4	50.8		2"
CH55	A4	55		
CH57	A4	57		2.1/4"
CH60.3	A4	60.3	R 2"	
CH63.5	A4	63.5		2.1/2"
CH65	A4	65		
CH70	A4	70		2.3/4"



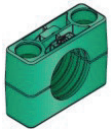
CHB

PP POLYPROPYLENE GREEN CLAMP BODY ONLY

HEAVY SERIES

DIN 3015/2

Article Code	GROUP	O.D	NOMINAL SIZE	O.D
CHB06	A1	6		
CHB06.4	A1	6.4		1/4"
CHB08	A1	8		5/16"
CHB09.5	A1	9.5		3/8"
CHB10	A1	10	R 1/8"	
CHB12	A1	12		
CHB12.7	A1	12.7		1/2"
CHB13.5	A1	13.5	R 1/4"	
CHB14	A1	14		
CHB15	A1	15		
CHB16	A1	16		5/8"
CHB17.2	A1	17.2	R 3/8"	
CHB18	A1	18		
CHB19	A2	19		3/4"
CHB20	A2	20		
CHB21.3	A2	21.3	R 1/2"	
CHB22	A2	22		7/8"
CHB25	A2	25		
CHB25.4	A2	25.4		1"



CHB

PP POLYPROPYLENE GREEN CLAMP BODY ONLY

HEAVY SERIES

DIN 3015/2

Article Code	GROUP	O.D	NOMINAL SIZE	O.D
CHB26.9	A2	26.9	R 3/4"	
CHB28	A2	28		
CHB30	A2	30		
CHB30	A3	30		
CHB32	A3	32		1.1/4"
CHB33.7	A3	33.7	R 1"	
CHB35	A3	35		
CHB38	A3	38		1.1/2"
CHB40	A3	40		
CHB42	A4	42	R 1.1/4"	
CHB38	A4	38		1.3/4"
CHB42	A4	42	R 1.1/4"	
CHB38	A4	38		1.1/2"
CHB42	A4	42	R 1.1/4"	
CHB44.5	A4	44.5		1.3/4"
CHB48.3	A4	48.3	R 1.1/2"	
CHB50.8	A4	50.8		2"
CHB55	A4	55		
CHB57	A4	57		2.1/4"
CHB60.3	A4	60.3	R 2"	
CHB63.5	A4	63.5		2.1/2"
CHB65	A4	65		
CHB70	A4	70		2.3/4"

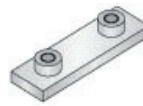
CLAMP COMPONENTS

HEAVY SERIES DIN 3015/2

CARBON STEEL METALWORK



Article Code	GROUP
TH01	1
TH02	2
TH03	3
TH04	4
TH05	5
TH06	6
TH07	7



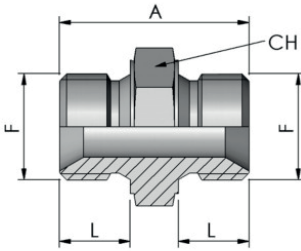
Article Code	GROUP
WH01	1
WH02	2
WH03	3
WH04	4
WH05	5
WH06	6
WH07	7



Article Code	GROUP
BHD01	1
BHD02	2
BHD03	3
BHD04	4
BHD05	5
BHD06	6
BHD07	7



HYDRAULIC ADAPTORS

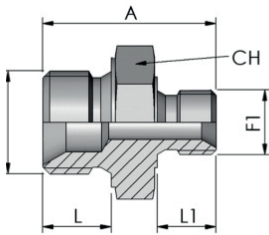


BB

ADAPTORS

BSPP MALE X BSPP MALE

Article Code	Thread	Dimensions		
	F	CH	A	L
BB0202	1/8"-28	14	22.2	8
BB0404	1/4"-19	19	31.2	12
BB0606	3/8"-19	22	32.4	12
BB0808	1/2"-19	27	37.6	14
BB1010	5/8"-14	30	42.6	16
BB1212	3/4"-14	32	42.8	16
BB1616	1"-11	41	48	18
BB2020	1.1/4"-11	50	59	20
BB2424	1.1/2"-11	55	64	22
BB3232	2"-11	70	69	24
BB4040	2.1/2"-11	75	63	25
BB4848	3"-11	90	68	26

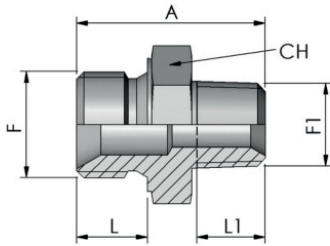


BB

ADAPTORS

BSPP MALE X BSPP MALE REDUCING

Article Code	Thread		Dimensions			
	F	F1	CH	A	L	L1
BB0204	1/8"-28	1/4"-19	19	27.2	12	8
BB0206	1/8"-28	3/8"-19	22	28.3	12	8
BB0406	1/4"-19	3/8"-19	22	32.3	12	12
BB0408	1/4"-19	1/2"-14	27	35.4	14	12
BB0412	1/4"-19	3/4"-14	32	38.5	16	12
BB0416	1/4"-19	1"-11	32	42.7	19	12
BB0608	3/8"-19	1/2"-14	27	35.5	14	12
BB0612	3/8"-19	3/4"-14	32	38.6	16	12
BB0616	3/8"-19	1"-11	41	42.7	19	12
BB0810	1/2"-14	5/8"-14	30	40.6	16	14
BB0812	1/2"-14	3/4"-14	32	40.7	16	14
BB0816	1/2"-14	1"-11	41	44.8	19	14
BB0820	1/2"-14	1.1/4"-11	50	51	20	14
BB0832	1/2"-14	2"-11	70	62	22	20
BB1012	5/8"-14	3/4"-14	32	42.7	16	16
BB1016	5/8"-14	1"-11	38	44.5	19.5	15
BB1216	3/4"-14	1"-11	41	46.9	19	16
BB1220	3/4"-14	1.1/4"-11	50	52.9	20	16
BB1224	3/4"-14	1.1/2"-11	55	55.9	22	16
BB1620	1"-11	1.1/4"-11	50	56	20	19
BB1624	1"-11	1.1/2"-11	55	59	22	19
BB1632	1"-11	2"-11	70	62	24	19
BB2024	1.1/4"-11	1.1/2"-11	55	62	22	20
BB2032	1.1/4"-11	2"-11	70	65	24	20
BB2432	1.1/2"-11	2"-11	70	65	24	20

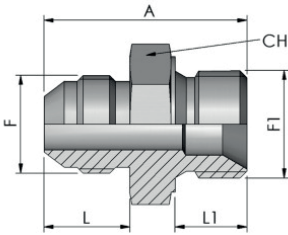


BBT

ADAPTORS

BSP MALE X BSPT MALE

Article Code	Thread		Dimensions			
	F	F1	CH	A	L	L1
BBT0202	1/8"-28	1/8"-28	14	23.5	8	10
BBT0204	1/8"-28	1/4"-19	14	23.5	10	10
BBT0402	1/4"-19	1/8"-28	14	27	10.5	10
BBT0404	1/4"-19	1/4"-19	17	30	10.5	15
BBT0406	1/4"-19	3/8"-19	19	32.5	12.5	13
BBT0604	3/8"-19	1/4"-19	19	32.5	12.5	13
BBT0606	3/8"-19	3/8"-19	19	34.5	12.5	15
BBT0608	3/8"-19	1/2"-14	24	35.5	14.5	13
BBT0806	1/2"-19	3/8"-19	24	35.5	14.5	13
BBT0812	1/2"-19	3/4"-14	27	41	15	18
BBT0808	1/2"-19	1/2"-19	27	41	15	18
BBT1010	5/8"-14	5/8"-14	27	42	15	18.5
BBT1012	5/8"-14	3/4"-14	30	44	16.5	18.5
BBT1210	3/4"-14	5/8"-14	30	44	16.5	18.5
BBT1212	3/4"-14	3/4"-14	30	45.5	16.5	20
BBT1216	3/4"-14	1"-11	36	49.5	19.5	20
BBT1612	1"-11	3/4"-14	36	49.5	19.5	20
BBT1616	1"-11	1"-11	36	54	19.5	24.5
BBT1620	1"-11	1.1/4"-11	50	58.5	22	26
BBT2020	1.1/4"-11	1.1/4"-11	50	58.5	22	26
BBT2024	1.1/4"-11	1.1/2"-11	55	60	22.5	26.5
BBT2424	1.1/2"-11	1.1/2"-11	55	60	22.5	26.5
BBT2432	1.1/2"-11	2"-11	55	60	22.5	26.5
BBT3232	2"-11	2"-11	65	64	24	28

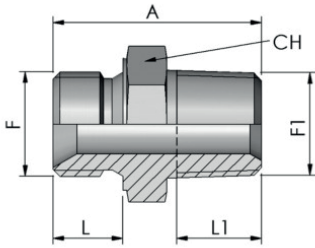


BJ

ADAPTORS

BSP MALE X JIC MALE

Article Code	Thread		Dimensions			
	F1	F	CH	A	L	L1
BJ0404	1/4"-19	7/16"-20	14	23.5	8	10
BJ0405	1/4"-19	1/2"-20	17	31	14	10.5
BJ0406	1/4"-19	9/16"-18	17	27	16.5	10.5
BJ0604	3/8"-19	7/16"-20	17	27	16.5	10.5
BJ0605	3/8"-19	1/2"-20	22	33.5	14	12.5
BJ0606	3/8"-19	9/16"-18	22	36	16.5	12.5
BJ0608	3/8"-19	3/4"-16	22	38.5	18	12.5
BJ0610	3/8"-19	7/8"-14	24	41	20	12.5
BJ0806	1/2"-19	9/16"-18	27	39.5	16	14.5
BJ0808	1/2"-19	3/4"-16	27	41.5	18	14.5
BJ0810	1/2"-19	7/8"-14	27	43.5	20	14.5
BJ0812	1/2"-19	1.1/16"-12	27	45.5	22	14.5
BJ1206	3/4"-14	9/16"-18	30	44	16.5	18.5
BJ1208	3/4"-14	3/4"-16	32	44	18	16.5
BJ1212	3/4"-14	1.1/16"-12	32	48	22	20
BJ1216	3/4"-14	1.5/16"-12	36	51.5	25	16.5
BJ1220	3/4"-14	1.5/8"-12	45	57.5	26	19.5
BJ1612	1"-11	1.1/12"-12	38	52	22	19.5
BJ1616	1"-11	1.5/16"-12	38	55	25	19.5
BJ1620	1"-11	1.5/8"-12	45	57.5	26	19.5
BJ1624	1"-11	1.7/8"-12	50	59	26	22
BJ2020	1.1/4"-11	1.5/8"-12	50	59	26	22
BJ2424	1.1/4"-11	1.7/8"-12	55	61	27	22
BJ3232	2"-11	2.1/2"-12	65	64	24	28

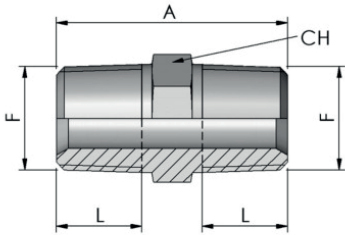


BN

ADAPTORS

BSPP MALE X NPTF MALE

Article Code	Thread		Dimensions			
	F	F1	CH	A	L	L1
BN0202	1/8"-28	1/8"-28	14	23.5	8	10
BN0204	1/8"-28	1/4"-19	14	23.5	10	10
BN0402	1/4"-19	1/8"-28	14	27	10.5	10
BN0404	1/4"-19	1/4"-19	17	30	10.5	15
BN0406	1/4"-19	3/8"-19	19	32.5	12.5	13
BN0604	3/8"-19	1/4"-19	19	32.5	12.5	13
BN0606	3/8"-19	3/8"-19	19	34.5	12.5	15
BN0608	3/8"-19	1/2"-14	24	35.5	14.5	13
BN0806	1/2"-19	3/8"-19	24	35.5	14.5	13
BN0812	1/2"-19	3/4"-14	27	41	15	18
BN0808	1/2"-19	1/2"-19	27	41	15	18
BN1210	3/4"-14	5/8"-14	30	44	16.5	18.5
BN1212	3/4"-14	3/4"-14	30	45.5	16.5	20
BN1216	3/4"-14	1"-11	36	49.5	19.5	20
BN1612	1"-11	3/4"-14	36	49.5	19.5	20
BN1616	1"-11	1"-11	36	54	19.5	24.5
BN1620	1"-11	1.1/4"-11	50	58.5	22	26
BN2020	1.1/4"-11	1.1/4"-11	50	58.5	22	26
BN2024	1.1/4"-11	1.1/2"-11	55	60	22.5	26.5
BN2424	1.1/2"-11	1.1/2"-11	55	60	22.5	26.5
BN2432	1.1/2"-11	2"-11	55	60	22.5	26.5
BN3232	2"-11	2"-11	65	64	24	28

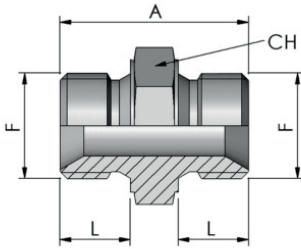


BTBT

ADAPTORS

BSPT MALE X BSPT MALE

Article Code	Thread	Dimensions		
		CH	A	L
	F			
BTBT0202	1/8"-28	14	22.2	8
BTBT0404	1/4"-19	19	31.2	12
BTBT0606	3/8"-19	22	32.4	12
BTBT0808	1/2"-19	27	37.6	14
BTBT1212	3/4"-14	30	42.6	16
BTBT1616	1"-11	32	42.8	16
BTBT2020	1.1/4"-11	41	48	18
BTBT2424	1.1/2"-11	50	59	20
BTBT3232	2"-11	55	64	22

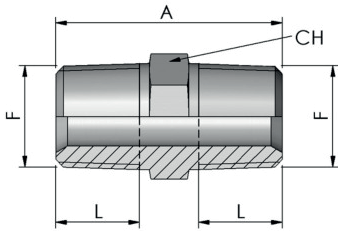


MM

ADAPTORS

METRIC MALE X METRIC MALE

Article Code	Thread		Dimensions	
	F	CH	A	L
MM1010	M10x1	14	22	8
MM1212	M12x1.5	17	26.5	10
MM1414	M14x1.5	19	27.5	10.5
MM1616	M16x1.5	22	32	12.5
MM1818	M18x1.5	24	33.5	13
MM2020	M20x1.5	27	36	14
MM2222	M22x1.5	27	37	14.5
MM2424	M24x1.5	30	38.5	15
MM2626	M26x1.5	32	41	16
MM3030	M30x1.5	36	42.5	16.5

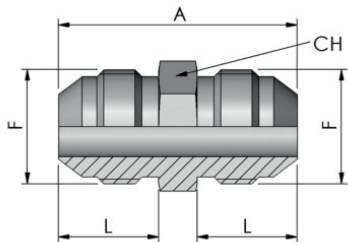


NN

ADAPTORS

NPTF MALE X NPTF MALE

Article Code	Thread		Dimensions	
	F	CH	A	L
NN0202	1/8"-28	14	26	10
NN0404	1/8"-28	17	32.5	13
NN0606	1/4"-19	17	37	15
NN0808	1/4"-19	24	44	18
NN1212	1/4"-19	30	49	20
NN1616	3/8"-19	36	60	25
NN2020	3/8"-19	45	63	25
NN2424	3/8"-19	50	64	25
NN3232	1/2"-19	65	67	23

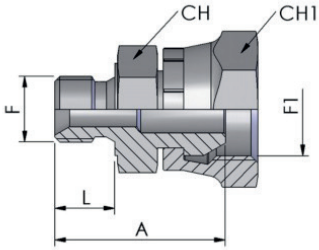


JJ

ADAPTORS

JIC MALE X JIC MALE

Article Code	Thread		Dimensions	
	F	CH	A	L
JJ0404	7/16"-20	13	34.8	14
JJ0505	1/2"-20	14	34.8	14
JJ0606	9/16"-18	16	35.8	14.1
JJ0808	3/4"-16	19	41.1	16.7
JJ1010	7/8"-14	24	47.8	19.3
JJ1212	1.1/16"-12	27	54.9	21.9
JJ1616	1.5/16"-12	36	57.2	23.1
JJ2020	1.5/8"-12	46	61.7	24.3
JJ2424	1.7/8"-12	50	69.8	27.5
JJ3232	2.1/2"-12	55	85	29.5

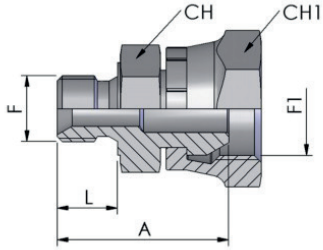


BBF

ADAPTORS

BSP MALE X BSP SWIVEL FEMALE

Article Code	Thread		Dimensions			
	F	F1	CH	CH1	A	L
BBF0202	1/8"-28	1/8"-28	14	14	26.2	9.6
BBF0204	1/8"-28	1/4"-19	14	19	26.2	9.6
BBF0404	1/4"-19	1/4"-19	14	19	29.4	11.2
BBF0406	1/4"-19	3/8"-19	14	22	29.4	11.2
BBF0408	1/4"-19	1/2"-14	14	27	29.4	11.2
BBF0604	3/8"-19	1/4"-19	22	19	34.1	13.6
BBF0606	3/8"-19	3/8"-19	22	22	34.1	13.6
BBF0608	3/8"-19	1/2"-14	22	27	34.1	13.6
BBF0612	3/8"-19	3/4"-14	22	32	34.1	13.6
BBF0616	3/8"-19	1"-11	22	38	34.1	13.6
BBF0804	1/2"-14	1/4"-19	27	19	38.2	14.8
BBF0806	1/2"-14	3/8"-19	27	22	38.2	14.8
BBF0808	1/2"-14	1/2"-14	27	27	38.2	14.8
BBF0810	1/2"-14	5/8"-14	27	30	38.2	14.8
BBF0812	1/2"-14	3/4"-14	27	32	38.2	14.8
BBF0816	1/2"-14	1"-11	27	41	38.2	14.8
BBF1008	5/8"-14	1/2"-14	30	27	39.5	16
BBF1208	3/4"-14	1/2"-14	32	27	43	17
BBF1212	3/4"-14	3/4"-14	32	32	43	17

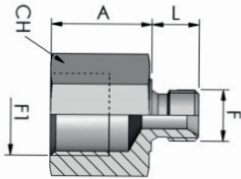


BBF

ADAPTORS

BSP MALE X BSP SWIVEL FEMALE

Article Code	Thread		Dimensions			
	F	F1	CH	CH1	A	L
BBF1216	3/4"-14	1"-11	32	41	47.6	17
BBF1612	1"-11	3/4"-14	41	32	47.6	20.3
BBF1616	1"-11	1"-11	41	41	47.6	20.3
BBF1620	1"-11	1.1/4"-11	41	50	56	20.3
BBF1624	1"-11	1.1/2"-11	41	55	58.5	20.3
BBF2016	1.1/4"-11	1"-11	50	41	56	20
BBF2020	1.1/4"-11	1.1/4"-11	50	50	56	20
BBF2424	1.1/2"-11	1.1/2"-11	55	55	58.5	22
BBF3232	2"-11	2"-11	70	70	62.5	24

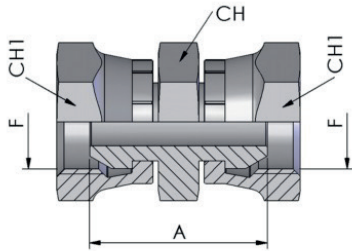


BBF**FIX

ADAPTORS

BSP MALE X BSP FIXED FEMALE

Article Code	Thread	Thread	Dimensions		
	F	F1	CH	A	L
BBF0202FIX	1/8"-28	1/8"-28	14	15	9.6
BBF0204FIX	1/8"-28	1/4"-19	19	22	8
BBF0402FIX	1/4"-19	1/8"-19	19	22	11.2
BBF0404FIX	1/4"-19	1/4"-19	19	24	11.2
BBF0406FIX	1/4"-19	3/8"-19	22	25	11.2
BBF0408FIX	1/4"-19	1/2"-14	27	26	11.2
BBF0604FIX	3/8"-19	1/4"-19	22	25	13.6
BBF0606FIX	3/8"-19	3/8"-19	22	25	13.6
BBF0608FIX	3/8"-19	1/2"-14	27	26	13.6
BBF0806FIX	1/2"-14	3/8"-19	27	26	14.8
BBF0808FIX	1/2"-14	1/2"-14	27	26	14
BBF0812FIX	1/2"-14	3/4"-19	32	40	14.8
BBF0816FIX	1/2"-14	1"-11	41	40	14.8
BBF1208FIX	3/4"-14	1/2"-14	32	40	17
BBF1212FIX	3/4"-14	3/4"-14	32	25	16
BBF1216FIX	3/4"-19	1"-11	41	46	17
BBF1612FIX	1"-11	3/4"-14	41	46	20.3
BBF1616FIX	1"-11	1"-11	41	46	20.3
BBF1620FIX	1"-11	1.1/4"-11	50	34	20.3
BBF2020FIX	1.1/4"-11	1.1/4"-11	50	32	22
BBF2024FIX	1.1/4"-11	1.1/2"-11	55	34	22
BBF2424FIX	1.1/2"-11	1.1/2"-11	50	37	22
BBF2432FIX	1.1/2"-11	2"-11	60	52	30
BBF3224FIX	2"-11	1.1/2"-11	60	52	30
BBF3232FIX	2"-11	2"-11	60	55	35

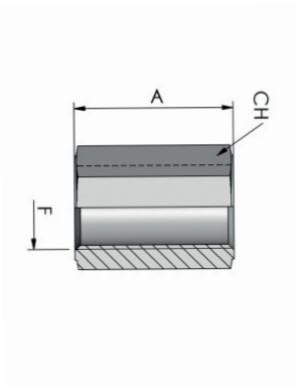


BFBF

ADAPTORS

BSP SWIVEL FEMALE X BSP SWIVEL FEMALE

Article Code	Thread		Dimensions		
	F	F1	CH	CH1	A
BFBF0202	1/8"-28	1/8"-28	14	14	26.2
BFBF0204	1/8"-28	1/4"-19	14	19	26.2
BFBF0404	1/4"-19	1/4"-19	19	19	29.4
BFBF0406	1/4"-19	3/8"-19	19	22	29.4
BFBF0408	1/4"-19	1/2"-14	19	27	29.4
BFBF0412	1/4"-19	3/4"-14	19	32	34.1
BFBF0606	3/8"-19	3/8"-19	22	19	34.1
BFBF0612	3/8"-19	3/4"-14	22	32	34.1
BFBF0808	1/2"-14	1/2"-14	27	27	34.1
BFBF0810	1/2"-14	5/8"-14	27	30	34.1
BFBF0812	1/2"-14	3/4"-19	27	32	38.2
BFBF0816	1/2"-14	1"-11	27	41	38.2
BFBF1010	5/8"-14	5/8"-14	30	30	38.2
BFBF1012	5/8"-14	3/4"-14	30	32	38.2
BFBF1016	5/8"-14	1"-11	30	41	38.2
BFBF1212	3/4"-14	3/4"-14	32	32	38.2
BFBF1216	3/4"-14	1"-11	32	41	39.5
BFBF1616	1"-11	1"-11	41	41	43
BFBF1620	1"-11	1.1/4"-11	41	50	43
BFBF2020	1.1/4"-11	1.1/4"-11	50	50	47.6
BFBF2424	1.1/2"-11	1.1/2"-11	55	55	47.6
BFBF3232	2"-11	2"-11	60	60	47.6

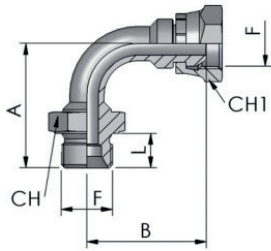


FF****FIX

ADAPTORS

BSP FIXED FEMALE X BSP FIXED FEMALE

Article Code	Thread	Dimensions	
		CH	A
FF0202FIX	1/8"-28	14	30
FF0404FIX	1/4"-19	19	30
FF0606FIX	3/8"-19	22	35
FF0808FIX	1/2"-14	27	40
FF1010FIX	5/8"-14	30	40
FF1212FIX	3/4"-19	32	40
FF1616FIX	1"-11	41	50
FF2020FIX	1.1/4"-11	50	60
FF2424FIX	1.1/2"-11	55	65
FF3232FIX	2"-11	70	75

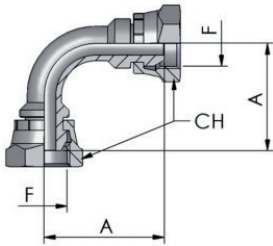


BF90S

ADAPTORS

BSP MALE X BSP SWIVEL FEMALE SWEPT 90

Article Code	Thread	Dimensions				
		CH	CH1	A	B	L
BF90S0202	1/8"-28	14	14	33	26	9.6
BF90S0404	1/4"-19	19	19	43	33.6	12
BF90S0606	3/8"-19	22	22	51.6	41.3	12
BF90S0808	1/2"-14	27	27	59.8	48.6	14
BF90S1010	5/8"-14	30	30	57	53	16
BF90S1212	3/4"-19	32	32	73.9	62.1	16
BF90S1616	1"-11	41	41	93.7	72.8	18
BF90S2020	1.1/4"-11	50	50	110.7	85.9	20
BF90S2424	1.1/2"-11	55	55	123	91.5	22
BF90S3232	2"-11	70	70	120	108	24

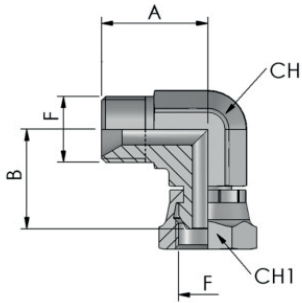


FF90S

ADAPTORS

BSP FEMALE X BSP SWIVEL FEMALE SWEPT 90

Article Code	Thread		Dimensions			
	F	CH	CH1	A	B	L
FF90S0202	1/8"-28	14	14	33	26	9.6
FF90S0404	1/4"-19	19	19	43	33.6	12
FF90S0606	3/8"-19	22	22	51.6	41.3	12
FF90S0808	1/2"-14	27	27	59.8	48.6	14
FF90S1010	5/8"-14	30	30	57	53	16
FF90S1212	3/4"-19	32	32	73.9	62.1	16
FF90S1616	1"-11	41	41	93.7	72.8	18
FF90S2020	1.1/4"-11	50	50	110.7	85.9	20
FF90S2424	1.1/2"-11	55	55	123	91.5	22
FF90S3232	2"-11	70	70	120	108	24

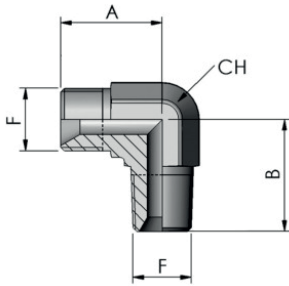


BF90C

ADAPTORS

BSP MALE X BSP SWIVEL FEMALE COMPACT 90

Article Code	Thread	Dimensions			
		F	CH	CH1	A
BF90C0404	1/4"-19	14	19	26	23.8
BF90C0606	3/8"-19	19	22	29	28.4
BF90C0808	1/2"-14	22	27	34	32
BF90C1010	5/8"-14	27	30	38	39.3
BF90C1212	3/4"-14	27	32	41	38.5
BF90C1616	1"-11	33	38	45	46.2
BF90C2020	1.1/4"-11	41	50	52	54
BF90C2424	1.1/2"-11	55	55	55	58
BF90C3232	2"-11	60	59	59	62

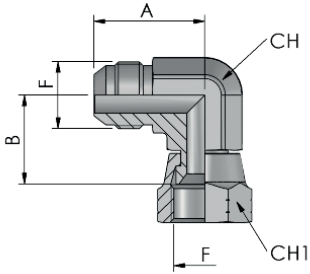


BBT90C

ADAPTORS

BSP MALE X BSPT MALE COMPACT 90

Article Code	Thread	Dimensions		
	Inch	CH	A	B
BBT90C0404	1/4"-19	14	26	28
BBT90C0606	3/8"-19	19	29	31
BBT90C0808	1/2"-14	22	34	37
BBT90C1212	3/4"-14	27	41	40
BBT90C1616	1"-11	33	45	50
BBT90C2020	1.1/4"-11	41	52	60
BBT90C2424	1.1/2"-11	55	55	65
BBT90C3232	2"-11	70	60	67

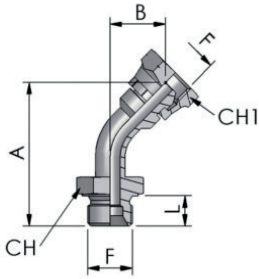


JJF90C

ADAPTORS

JIC MALE X JIC SWIVEL FEMALE COMPACT 90

Article Code	Thread	Dimensions			
	F	CH	CH1	A	B
JJF90C0404	7/16"-20	12	18	22.5	17
JJF90C0505	1/2"-20	13	19	24.1	18.5
JJC90J0606	9/16"-18	14	17	27	22
JJF90C0808	3/4"-16	19	24	31.8	25.5
JJF90C1010	7/8"-14	22	27	36.8	28.5
JJF90C1212	1.1/16"-12	27	32	42	30
JJF90C1616	1.5/16"-12	33	38	46	36.5
JJF90C2020	1.5/8"-12	41	50	52.3	44
JJF90C2424	1.7/8"-12	48	60	59.2	44.9
JJF90C3232	2.1/2"-12	52	65	63	49

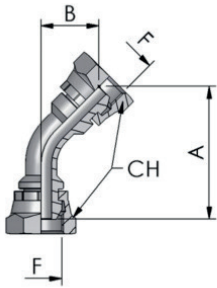


BF45S

ADAPTORS

BSP MALE X BSP SWIVEL FEMALE SWEPT 45

Article Code	Thread	Dimensions		
		CH	A	B
BF45S0202	1/8"-28	14	50.1	20
BF45S0404	1/4"-19	19	53.3	22.1
BF45S0606	3/8"-19	22	65	26.9
BF45S0808	1/2"-14	27	76	31.5
BF45S1010	5/8"-14	30	65	34
BF45S1212	3/4"-19	32	96.2	36.8
BF45S1616	1"-11	41	111.3	46.2
BF45S2020	1.1/4"-11	50	93	38
BF45S2424	1.1/2"-11	55	103	40
BF45S3232	2"-11	70	125	45

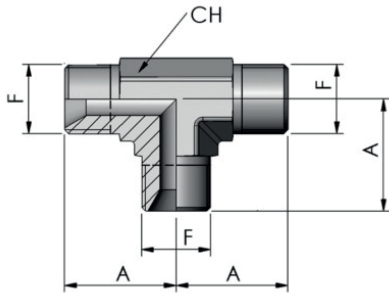


FF45S

ADAPTORS

BSP MALE X BSP SWIVEL FEMALE SWEPT 45

Article Code	Thread	Dimensions		
		CH	A	B
	F			
FF45S0202	1/8"-28	14	50.1	20
FF45S0404	1/4"-19	19	53.3	22.1
FF45S0606	3/8"-19	22	65	26.9
FF45S0808	1/2"-14	27	76	31.5
FF45S1010	5/8"-14	30	65	34
FF45S1212	3/4"-19	32	96.2	36.8
FF45S1616	1"-11	41	111.3	46.2
FF45S2020	1.1/4"-11	50	93	38
FF45S2424	1.1/2"-11	55	103	40
FF45S3232	2"-11	70	125	45

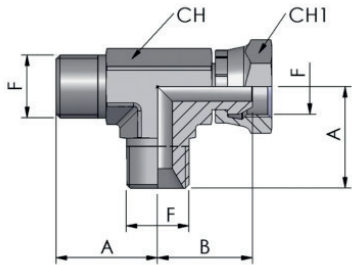


TEEB

ADAPTORS

BSP MALE MALE MALE TEE

Article Code	Thread	Dimensions	
		CH	A
TEEB02	1/8"-19	12	23
TEEB04	1/4"-19	14	26
TEEB06	3/8"-19	19	29
TEEB08	1/2"-14	22	34
TEEB10	5/8"-14	25	38
TEEB12	3/4"-14	27	41
TEEB16	1"-11	33	45
TEEB20	1.1/4"-11	39	49
TEEB24	1.1/2"-11	45	52
TEEB32	2"-112	52	58

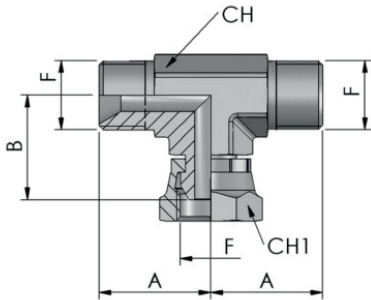


TEEBFB

ADAPTORS

BSP MALE SWIVEL FEMALE MALE TEE

Article Code	Thread	Dimensions			
		F	CH	CH1	A
TEEBFB02	1/8"-28	12	17	24	15
TEEBFB04	1/4"-19	14	19	26	23.8
TEEBFB06	3/8"-19	19	22	29	28.4
TEEBFB08	1/2"-14	22	27	34	31.8
TEEBFB10	5/8"-14	24	30	38	35
TEEBFB12	3/4"-14	27	32	41	38.5
TEEBFB16	1"-11	33	38	45	45.7
TEEBFB20	1.1/4"-11	41	50	52	54
TEEBFB24	1.1/2"-11	45	55	55	58
TEEBFB32	2"-11	52	59	59	62

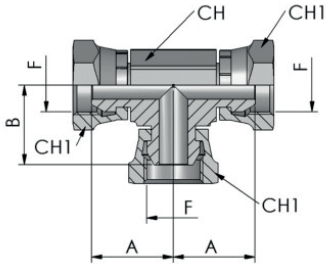


TEEBBF

ADAPTORS

BSP MALE MALE SWIVEL FEMALE TEE

Article Code	Thread	Dimensions			
	F	CH	CH1	A	B
TEEBBF02	1/8"-28	12	17	24	15
TEEBBF04	1/4"-19	14	19	26	23.8
TEEBBF06	3/8"-19	19	22	29	28.4
TEEBBF08	1/2"-14	22	27	34	31.8
TEEBBF10	5/8"-14	24	30	38	35
TEEBBF12	3/4"-14	27	32	41	38.5
TEEBBF16	1"-11	33	38	45	45.7
TEEBBF20	1.1/4"-11	41	50	52	54
TEEBBF24	1.1/2"-11	45	55	55	58
TEEBBF32	2"-11	52	59	59	62

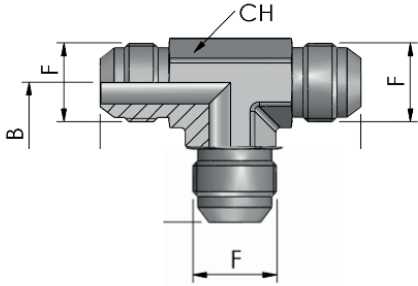


TEEF

ADAPTORS

BSP FEMALE SWIVEL TEE

Article Code	Thread	Dimensions			
		F	CH	CH1	A
TEEF02	1/8"-28	12	17	24	15
TEEF04	1/4"-19	14	19	26	23.8
TEEF06	3/8"-19	19	22	29	28.4
TEEF08	1/2"-14	22	27	34	31.8
TEEF10	5/8"-14	24	30	38	35
TEEF12	3/4"-14	27	32	41	38.5
TEEF16	1"-11	33	38	45	45.7
TEEF20	1.1/4"-11	41	50	52	54
TEEF24	1.1/2"-11	45	55	55	58
TEEF32	2"-11	52	59	59	62

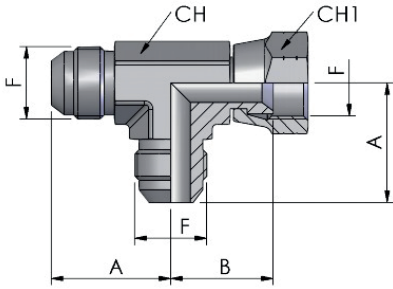


TEEJ

ADAPTORS

JIC MALE MALE MALE TEE

Article Code	Thread	Dimensions			
		F	CH	CH1	A
TEEJ04	7/16"-20	11	17	22.6	17
TEEJ05	1/2"-20	13	19	24.1	18.5
TEEJ06	9/16"-18	14	19	26.9	23
TEEJ08	3/4"-16	19	22	32	25
TEEJ10	7/8"-14	22	27	36.8	28.5
TEEJ12	1.1/16"-12	27	32	42.2	31.5
TEEJ16	1.5/16"-12	33	38	46	36.5
TEEJ20	1.5/8"-12	41	50	52.3	44
TEEJ24	1.7/8"-12	48	60	59.2	44.9
TEEJ32	2.1/2"-12	55	65	63	48.6

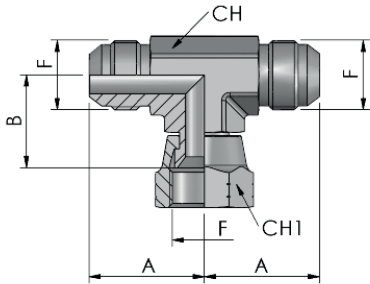


TEEJFJ

ADAPTORS

JIC MALE, SWIVEL FEMALE, MALE TEE

Article Code	Thread	Dimensions			
	F	CH	CH1	A	B
TEEJFJ04	7/16"-20	11	17	22.6	17
TEEJFJ05	1/2"-20	13	19	24.1	18.5
TEEJFJ06	9/16"-18	14	19	26.9	23
TEEJFJ08	3/4"-16	19	22	32	25
TEEJFJ10	7/8"-14	22	27	36.8	28.5
TEEJFJ12	1.1/16"-12	27	32	42.2	31.5
TEEJFJ16	1.5/16"-12	33	38	46	36.5
TEEJFJ20	1.5/8"-12	41	50	52.3	44
TEEJFJ24	1.7/8"-12	48	60	59.2	44.9
TEEJFJ32	2.1/2"-12	55	65	63	48.6

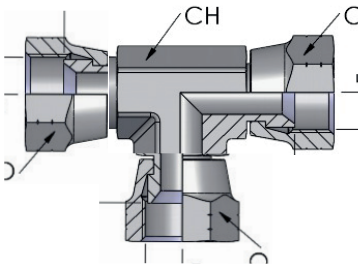


TEEJJF

ADAPTORS

JIC MALE, JIC MALE, SWIVEL FEMALE TEE

Article Code	Thread	Dimensions			
		CH	CH1	A	B
TEEJJF04	7/16"-20	11	17	22.6	17
TEEJJF05	1/2"-20	13	19	24.1	18.5
TEEJJF06	9/16"-18	14	19	26.9	23
TEEJJF08	3/4"-16	19	22	32	25
TEEJJF10	7/8"-14	22	27	36.8	28.5
TEEJJF12	1.1/16"-12	27	32	42.2	31.5
TEEJJF16	1.5/16"-12	33	38	46	36.5
TEEJJF20	1.5/8"-12	41	50	52.3	44
TEEJJF24	1.7/8"-12	48	60	59.2	44.9
TEEJJF32	2.1/2"-12	55	65	63	48.6

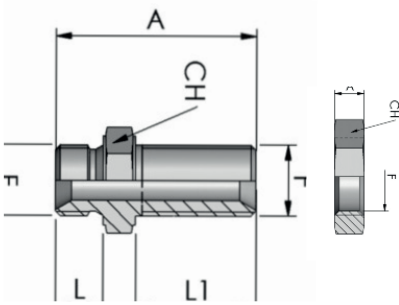


TEEJF

ADAPTORS

JIC FEMALE SWIVEL TEE

Article Code	Thread	Dimensions			
		CH	CH1	A	B
TEEJF04	7/16"-20	11	17	22.6	17
TEEJF05	1/2"-20	13	19	24.1	18.5
TEEJF06	9/16"-18	14	19	26.9	23
TEEJF08	3/4"-16	19	22	32	25
TEEJF10	7/8"-14	22	27	36.8	28.5
TEEJF12	1.1/16"-12	27	32	42.2	31.5
TEEJF16	1.5/16"-12	33	38	46	36.5
TEEJF20	1.5/8"-12	41	50	52.3	44
TEEJF24	1.7/8"-12	48	60	59.2	44.9
TEEJF32	2.1/2"-12	55	65	63	48.6

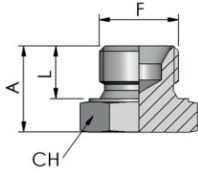


BH

ADAPTORS

BSPP BULKHEAD WITH LOCKNUT

Article Code	Thread	Dimensions			
		CH	A	L	L1
BH04	1/4"	19	45.9	11.2	27.5
BH06	3/8"	22	54	13.6	32
BH08	1/2"	27	60	14.8	35.6
BH10	5/8"	30	61	15.2	36
BH12	3/4"	32	63.8	16	37
BH16	1"	41	82.3	20.3	50
BH20	1.1/4"	50	88	20	52
BH24	1.1/2"	55	91	22	52
BH32	2"	70	110	23	57

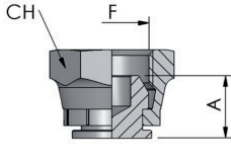


BP

ADAPTORS

BSPP CONED PLUG 60°

Article Code	Thread	Dimensions		
		F	CH	A
BP02	1/8"-28	14	15.7	9.4
BP04	1/4"-19	19	17.8	11.2
BP06	3/8"-19	22	21.3	13.6
BP08	1/2"-14	27	23.6	14.8
BP10	5/8"-14	30	25.8	16
BP12	3/4"-19	32	25.9	16
BP16	1"-11	41	29	18
BP20	1.1/4"-11	50	36.5	22
BP24	1.1/2"-11	55	36.8	22
BP32	2"-11	70	40	24
BP40	2.1/2"-11	80	45	28
BP48	3"-11	99	58	30

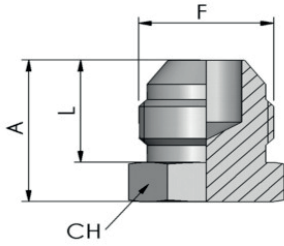


BC

ADAPTORS

BSP FEMALE BLANKING CAP 60°

Article Code	Thread	Dimensions	
		CH	A
BC02	1/8"-28	14	11.5
BC04	1/4"-19	19	16.1
BC06	3/8"-19	22	17.3
BC08	1/2"-14	27	19.1
BC10	5/8"-14	30	16.3
BC12	3/4"-19	32	20.6
BC16	1"-11	38	20.8
BC20	1.1/4"-11	50	22
BC24	1.1/2"-11	55	21.5
BC32	2"-11	70	25

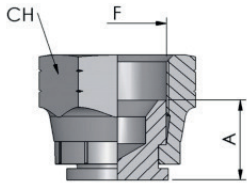


JP

ADAPTORS

JIC MALE PLUG

Article Code	Thread	Dimensions		
		F	CH	A
JP04	7/16"-20	13	20.3	14
JP05	1/2"-20	14	20.3	14
JP06	9/16"-18	16	21.3	14.1
JP08	3/4"-16	19	23.9	16.7
JP10	7/8"-14	24	27.9	19.3
JP12	1.1/16"-12	27	32.5	21.9
JP14	1.3/16"-12	36	33.8	23.1
JP16	1.5/16"-12	36	33.8	23.1
JP20	1.5/8"-12	46	36.8	24.3
JP24	1.7/8"-12	50	41.9	27.8
JP32	2.1/2"-12	55	44.2	28.9

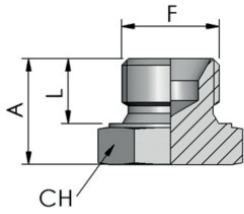


JC

ADAPTORS

JIC FEMALE SWIVEL BLANKING CAP

Article Code	Thread	Dimensions	
		CH	A
JC04	7/16"-20	15	10.3
JC05	1/2"-20	17	10.3
JC06	9/16"-18	19	11
JC08	3/4"-16	24	12.3
JC10	7/8"-14	27	14
JC12	1.1/16"-12	32	15.7
JC16	1.5/16"-12	38	20.8
JC20	1.5/8"-12	50	22
JC24	1.7/8"-12	55	21.5
JC32	2.1/2"-12	70	25

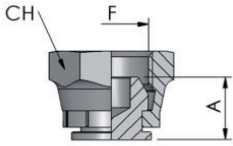


MP

ADAPTORS

METRIC MALE PLUG 60°

Article Code	Thread	Dimensions		
		F	CH	A
MP10	M10x1	15	13.5	8
MP12	M12x1.5	17	18.1	11
MP14	M14x1.5	19	19.2	12
MP16	M16x1.5	22	21.4	13
MP18	M18x1.5	24	22.4	14
MP20	M20x1.5	27	23.6	14
MP22	M22x1.5	27	24.6	15
MP24	M24x1.5	30	24	13.5
MP26	M26x1.5	32	25	16
MP30	M30x1.5	36	26	16.5
MP36	M36x1.5	46	35.8	21

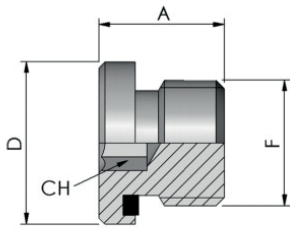


MC

ADAPTORS

METRIC FEMALE BLANKING CAP

Article Code	Thread	Dimensions	
		CH	A
MC12	M12X1.5	12	11.5
MC14	M14X1.5	19	16.1
MC16	M16X1.5	22	17.3
MC18	M18X1.5	24	17.3
MC20	M20X1.5	27	15.6
MC22	M22X1.5	27	19.1
MC26	M26X1.5	32	20.6



BPWD

ADAPTORS

BSPP CONED PLUG INTERNAL HEXAGON

Article Code	Thread	Dimensions		
		CH	A	L
BPWD02	1/8"-28	4	13	15
BPWD04	1/4"-19	6	16	19
BPWD06	3/8"-19	6	17	22
BPWD08	1/2"-14	8	20	27
BPWD12	3/4"-19	12	20	32
BPWD16	1"-11	12	22	40
BPWD20	1.1/4"-11	12	25	50
BPWD24	1.1/2"-11	14	30	55



HOSE PROTECTION



SG

SPIRAL GALVANISED SPRING GUARD
FOR FLEXIBLE HOSES

Article Code	Dimensions										
	I.D	O.D	Pitch	1SN	2SN	1SNK	2SNK	4SP	4SH	R13	R15
SG15	15	18.2	5	1/4"		1/4" 5/16"	1/4"				
SG17	17	20.2	5	5/16"	1/4"		5/16"				
SG19	19	22.2	5	3/8"	5/16"	3/8"	3/8"				
SG21	21	25	6		3/8"	1/2"					
SG23	23	27	6	1/2"	1/2"		1/2"				
SG26	26	30	6	5/8"	5/8"	5/8"	5/8"	3/8" 1/2"			
SG30	30	34	6	3/4"	3/4"	3/4"	3/4"	5/8"			
SG34	34	40.4	10					3/4"	3/4"	3/4"	3/4"
SG38	38	44.4	10	1"		1"	1"	1"			
SG41	41	47.4	10		1"				1"	1"	1"
SG46	46	52.4	10	1.1/4"							
SG50	50	56.4	10		1.1/4"				1.1/4"		
SG55	55	61.4	10	1.1/2"						1.1/4"	1.1/4"
SG58	58	64.4	10		1.1/2"				1.1/2"		
SG61	61	67.4	12							1.1/2"	1.1/2"
SG70	70	76.4	12	2"	2"				2"		
SG75	75	81.4	12							2"	2"

GALVANISED SPRING GUARD FOR HOSE
PROTECTION.

AVAILABLE IN 10 METER COILS

FLAT VERSION ALSO AVAILABLE



SP

SPIRAL GUARD PROTECTION
FOR FLEXIBLE HOSES

Article Code	Dimensions								
	Inside	Outside	Pitch	1SNK	2SNK	1SN	2SN	4SP	4SH
SP0812	8	12	15	-	-	-	-	-	-
SP1216	13	16	12	1/4"-5/16"	1/4"	1/4"-5/16"	1/4"	-	-
SP1620	17	20	16	5/16"	3/8"	5/16"-3/8"	3/8"	5/16"-3/8"	-
SP2025	21	25	22	3/8"	1/2"-5/8"	1/2"-5/8"	1/2"-5/8"	1/2"	-
SP2732	27	32	22	3/4"	3/4"	3/4"	3/4"	5/8"-3/4"	3/4"
SP3640	35	40	24	1"	1"	1"	1"	1"	1"
SP4450	45	50	30	1.1/4"	-	1.1/4"-1.1/2"	1.1/4"	1.1/4"	1.1/4"
SP5663	56	63	40	-	-	-	1.1/2"	1.1/2"	1.1/2"
SP6775	69	75	35	-	-	2"	2"	2"	2"
SP8090	80	90	48	-	-	-	-	-	-
SP100110	100	110	55	-	-	-	-	-	-

HIGH-DENSITY POLYETHYLENE
ABRASIVE AND U.V. RAYS RESISTANT

TEMPERATURE RANGE
FROM -20 TO +100

PRACTICAL, QUICK AND SIMPLE TO FIT. THIS CAN BE
USED FOR THE CONTAINMENT OF ONE OR
MULTIPLE HOSES.

BOX QUANTITY
SP0812 TO SP4450 50 METERS
SP5663 TO SP8090 20 METERS
SP100110 12 METERS



SSOB

SPIRAL GUARD PROTECTION
FOR FLEXIBLE HOSES

STAINLESS STEEL OVER BRAID

Article Code	Hose Types										
	I.D	O.D	KG/MTR	1SN	2SN	1SNK	2SNK	4SP	4SH	R13	R15
SSOB-10	10.0	10.44	0.098								
SSOB-16	16.0	16.44	0.157	1/4"-5/16"	1/4"	1/4"-5/16"	1/4"				
SSOB-20	20.0	20.6	0.195	3/8"	5/16"-3/8"	3/8"	5/16"-3/8"				
SSOB-25	25.0	25.6	0.240	1/2"-5/8"	1/2"	1/2"-5/8"	1/2"	3/8"			
SSOB-32	32.0	32.6	0.300	3/4"	5/8"-3/4"	3/4"	5/8"-3/4"	1/2"-5/8"			
SSOB-40	40.0	40.6	0.375	1"	1"	1"	1"	3/4"-1"	3/4"-1"	3/4"-1"	3/4"-1"
SSOB-51	51.0	51.6	0.450	1.1/4"	1.1/4"			1.1/4"	1.1/4"	1.1/4"	1.1/4"
SSOB-63	63.0	63.6	0.580	1.1/2"	1.1/2"			1.1/2"	1.1/2"	1.1/2"	1.1/2"
SSOB-76	76.0	76.6	0.690	2"	2"			2"	2"	2"	2"

AISI 304 STAINLESS STEEL BRAIDED SLEEVING
TO PROTECT HOSES AND CABLES

TEMPERATURE RANGE -35°C+120°C
THICKNESS 0.22MM UP TO ID 16MM INCLUDED
0.30MM

10 STRANDS FOR ALL DIAMETERS



GTN

TEXTILE PROTECTION
FOR FLEXIBLE HOSES

Article Code	Dimensions						
	Width	1SNK	2SNK	1SN	2SN	4SP	4SH
GTN35	8	1/4"-5/16"	1/4"	1/4"	1/4"	-	-
GTN40	13	3/8"	5/16"-3/8"	5/16"-3/8"	5/16"-3/8"	-	-
GTN45	17	-	-	1/2"	-	-	-
GTN50	21	-	-	-	-	-	-
GTN55	27	1/2"-5/8"	1/2"-5/8"	5/8"	1/2"-5/8"	1/2"	-
GTN65	35	3/4"	3/4"	3/4"	3/4"	5/8"-3/4"	3/4"
GTN80	45	1"	1"	1"	1"	1"	1"
GTN100	69	-	-	1.1/4"-1.1/2"	1.1/4"-1.1/2"	1.1/4"	1.1/4"-1.1/2"
GTN120	80	-	-	-	-	1.1/2"	-
GTN150	100	-	-	2"	2"	2"	2"

TEXTILE PROTECTION
SIZE INDICATED IS IN FLAT POSITION

MATERIAL
HIGH TENACITY FIBRE

TEMPERATURE RANGE
FROM -40 TO +80

CAN BE USED TO CONTAIN SINGLE OR A
MULTIPLE OF HOSES

ALSO USE THE BG CRIMPING RINGS TO
KEEP THE SLEEVE IN POSITION AT ALL
TIMES.



GTN**MSHA

TEXTILE PROTECTION
FOR FLEXIBLE HOSES
MSHA GRADE

Article Code	Dimensions						
	Width	1SNK	2SNK	1SN	2SN	4SP	4SH
GTN34MSHA	8	1/4"-5/16"	1/4"	1/4"	1/4"	-	-
GTN39MSHA	13	3/8"	5/16"-3/8"	5/16"-3/8"	5/16"-3/8"	-	-
GTN45MSHA	17	-	-	1/2"	-	-	-
GTN52MSHA	21	-	-	-	-	-	-
GTN55MSHA	27	1/2"-5/8"	1/2"-5/8"	5/8"	1/2"-5/8"	1/2"	-
GTN66MSHA	35	3/4"	3/4"	3/4"	3/4"	5/8"-3/4"	3/4"
GTN80MSHA	45	1"	1"	1"	1"	1"	1"
GTN90MSHA	56	-	-	-	-	-	-
GTN100MSHA	69	-	-	1.1/4"-1.1/2"	1.1/4"-1.1/2"	1.1/4"	1.1/4"-1.1/2"
GTN118MSHA	80	-	-	-	-	1.1/2"	-
GTN149MSHA	100	-	-	2"	2"	2"	2"

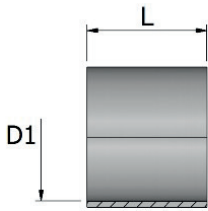
TEXTILE PROTECTION
SIZE INDICATED IS IN FLAT POSITION

MATERIAL
HIGH TENACITY FIBRE
ABRASIVE RESISTANT MSHA APPROVED

TEMPERATURE RANGE
FROM -40 TO +80

CAN BE USED TO CONTAIN SINGLE OR A
MULTIPLE OF HOSES

ALSO USE THE BG CRIMPING RINGS TO
KEEP THE SLEEVE IN POSITION AT ALL
TIMES.



BG

SLEEVE FOR TEXTILE PROTECTION
FOR FLEXIBLE HOSES

Article Code	Dimensions							
	D1	L	1SNK	2SNK	1SN	2SN	4SP	4SH
BG03	19	30	1/4"	-	-	-	-	-
BG04	22	30	5/16"	1/4"-5/16"	1/4"-5/16"	1/4"	-	-
BG06	27	30	3/8"	3/8"-1/2"	3/8"-1/2"	5/16"-3/8"	-	-
BG0810	32	30	1/2"-5/8"	5/8"	5/8"	1/2"	1/2"	-
BG12	38	35	3/4"	3/4"	3/4"	5/8"-3/4"	5/8"-3/4"	3/4"
BG16	46	50	1"	1"	1"	1"	1"	1"

MATERIAL = CARBON STEEL
SURFACE TREATMENT = Cr3 GALVANIZATION

THE FERRULE IS USED TO HOLD THE TEXTILE PROTECTION (CODE GTN) IN PLACE AFTER ASSEMBLING.

THIS MUST BE CRIMPED IN CORRESPONDENCE TO THE FERRULE ALREADY CRIMPED ONTO THE HOSE ASSEMBLY.



FS

RED OXIDE SILICONE COATED GLASS
FIBRE SLEEVING

AEROSPACE GRADED AS10550

15 MTR COILS

Article Code	Dimensions										
	I.D	O.D	Pitch	1SN	2SN	1SNK	2SNK	4SP	4SH	R13	R15
FS16	15	18.2	5	1/4"		1/4" 5/16"	1/4"				
FS19	17	20.2	5	5/16"	1/4"		5/16"				
FS22	19	22.2	5	3/8"	5/16" & 3/8"	3/8" & 1/2"	3/8"				
FS25	23	27	6	1/2"	1/2"		1/2"				
FS28	26	30	6	5/8"	5/8"	5/8"	5/8"	3/8" 1/2"			
FS32	30	34	6	3/4"	3/4"	3/4"	3/4"	5/8"			
FS35	34	40.4	10					3/4"	3/4"	3/4"	3/4"
FS38	38	44.4	10	1"		1"	1"	1"			
FS41	41	47.4	10		1"				1"	1"	1"
FS51	46	52.4	10	1.1/4"	1.1/4"				1.1/4"		
FS57	55	61.4	10	1.1/2"						1.1/4"	1.1/4"
FS63	58	64.4	10		1.1/2"				1.1/2"	1.1/2"	1.1/2"
FS76	70	76.4	12	2"	2"				2"	2"	2"

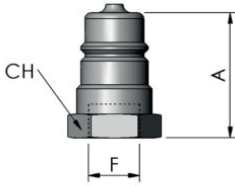
Aerospace Grade

Red oxide silicone coated glass sleeving (Aerospace Grade) has similar general characteristic but is manufactured from 'E' glass fibre yarn. **Braided** to form a sleeve and coated with high grade iron oxide silicone elastomer rubber.

The braided version allows qualified hose assemblies to pass AS1055D testing under stated flow and pressure conditions.



QRC & BALL VALVES



IRPM

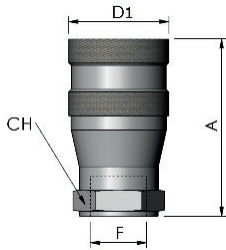
QUICK RELEASE COUPLING MALE PROBE
EVOFLUID BRAND

THREAD = BSP

NORM ISO 7241-1A

Article Code	THREAD	Dimensions	
		CH	A
	5		
IRPM04	1/4"-19	19	34.5
IRPM06	3/8"-19	22	39
IRPM08	1/2"-14	27	45
IRPM12	3/4"-14	34	54.5
IRPM16	1"-11	41	62
IRPM20	1.1/4"-11	55	75
IRPM24	1.1/2"-11	60	85
IRPM32	2"-11	75	100

QUICK RELEASE COUPLING MALE PROBE
 BODY IN HIGH GRADE CARBON STEEL
 INDUCTION HARDENED
 VALVE IN HARDENED STEEL
 SPRINGS IN C72 STEEL
 BALLS IN HIGH RESISTANCE 100 R6
 SEAL NBR
 Cr3 GALVANIZATION
 TEMPERATURE RANGE -20 TO +100 DEG C



IRPF

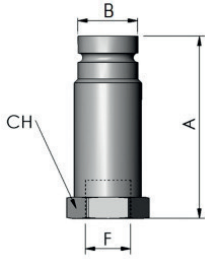
QUICK RELEASE COUPLING CARRIER FEMALE
EVOFLUID BRAND

THREAD = BSP

NORM ISO 7241-1A

Article Code	Flange Head	Dimensions		
		CH	F	D1
	Inch			
IRPF04	1/4"-19	19	47	25
IRPF06	3/8"-19	24	58	31
IRPF08	1/2"-14	30	67	38
IRPF12	3/4"-14	38	81	46
IRPF16	1"-11	45	96	55
IRPF20	1.1/4"-11	50	117	65
IFPR24	1.1/2"-11	60	123	80
IRPF32	2"-11	75	160	100

QUICK RELEASE COUPLING MALE PROBE
BODY IN HIGH GRADE CARBON STEEL
INDUCTION HARDENED
VALVE IN HARDENED STEEL
SPRINGS IN C72 STEEL
BALLS IN HIGH RESISTANCE 100 R6
SEAL NBR
Cr3 GALVANIZATION
TEMPERATURE RANGE -20 TO +100 DEG C



IRPMFP

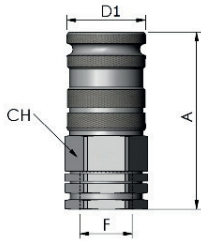
QUICK RELEASE COUPLING FLAT FACE PROBE
EVOFLUID BRAND

THREAD = BSP

NORM ISO 16028

Article Code	Thread	Dimensions		
	Inch	CH	A	B
IRPMFP04	1/4"-19	22	57	16.1
IRPMFP06	3/8"-19	24	68	19.7
IRPMFP08	1/2"-14	27	68	24.5
IRPMFP12	3/4"-14	36	70	30
IRPMFP16	1"-11	46	83	30
IRPMFP20	1.1/4"-11	55	90	36
IRPMFP24	1.1/2"-11	70	111	57

QUICK RELEASE COUPLING MALE PROBE
BODY IN HIGH GRADE CARBON STEEL
INDUCTION HARDENED
VALVE IN HARDENED STEEL
SPRINGS IN C72 STEEL
BALLS IN HIGH RESISTANCE 100 R6
SEAL NBR
Cr3 GALVANIZATION
TEMPERATURE RANGE -20 TO +100 DEG C



IRPFFP

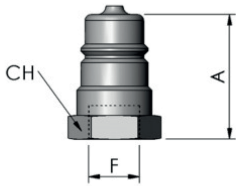
QUICK RELEASE COUPLING FLAT FACE CARRIER
EVOFLUID BRAND

THREAD = BSP

NORM ISO 16028

Article Code	Flange Head	Dimensions		
	Inch	CH	A	B
IRPFFP04	1/4"-19	24	63	28
IRPFFP06	3/8"-19	30	72	31
IRPFFP08	1/2"-14	30	72	32
IRPFFP12	3/4"-14	36	87	38
IRPFFP16	1"-11	46	98	48
IRPFFP20	1.1/4"-11	55	106	55
IRPFFP24	1.1/2"-11	65	133	80

QUICK RELEASE COUPLING MALE PROBE
 BODY IN HIGH GRADE CARBON STEEL
 INDUCTION HARDENED
 VALVE IN HARDENED STEEL
 SPRINGS IN C72 STEEL
 BALLS IN HIGH RESISTANCE 100 R6
 SEAL NBR
 Cr3 GALVANIZATION
 TEMPERATURE RANGE -20 TO +100 DEG C



QRCM

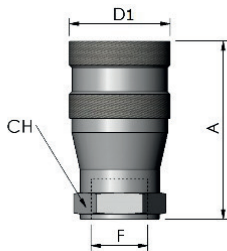
QUICK RELEASE COUPLING MALE PROBE
PREMIUM BRAND

THREAD = BSP

NORM ISO 7241-1A

Article Code	THREAD	Dimensions	
		CH	A
	5		
QRCM04	1/4"-19	19	34.5
QRCM06	3/8"-19	22	39
QRCM08	1/2"-14	27	45
QRCM12	3/4"-14	34	54.5
QRCM16	1"-11	41	62
QRCM20	1.1/4"-11	55	75
QRCM24	1.1/2"-11	60	85
QRCM32	2"-11	75	100

QUICK RELEASE COUPLING MALE PROBE
BODY IN HIGH GRADE CARBON STEEL
INDUCTION HARDENED
VALVE IN HARDENED STEEL
SPRINGS IN C72 STEEL
BALLS IN HIGH RESISTANCE 100 R6
SEAL NBR
Cr3 GALVANIZATION
TEMPERATURE RANGE -20 TO +100 DEG C



QRCF

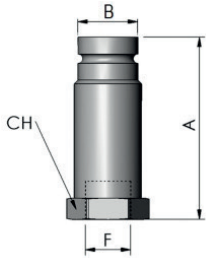
QUICK RELEASE COUPLING CARRIER FEMALE
PREMIUM BRAND

THREAD = BSP

NORM ISO 7241-1A

Article Code	Thread	Dimensions		
	Inch	CH	F	D1
QRCF04	1/4"-19	19	47	25
QRCF06	3/8"-19	24	58	31
QRCF08	1/2"-14	30	67	38
QRCF12	3/4"-14	38	81	46
QRCF16	1"-11	45	96	55
QRCF20	1.1/4"-11	50	117	65
QRCF24	1.1/2"-11	60	123	80
QRCF32	2"-11	75	160	100

QUICK RELEASE COUPLING MALE PROBE
BODY IN HIGH GRADE CARBON STEEL
INDUCTION HARDENED
VALVE IN HARDENED STEEL
SPRINGS IN C72 STEEL
BALLS IN HIGH RESISTANCE 100 R6
SEAL NBR
Cr3 GALVANIZATION
TEMPERATURE RANGE -20 TO +100 DEG C



QRCFFM

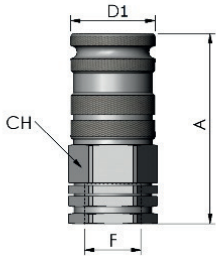
QUICK RELEASE COUPLING FLAT FACE PROBE
PREMIUM BRAND

THREAD = BSP

NORM ISO 16028

Article Code	Flange Head	Dimensions		
	Inch	CH	A	B
QRCFFM-04	1/4"-19	22	57	16.1
QRCFFM-06	3/8"-19	24	68	19.7
QRCFFM-08	1/2"-14	27	68	24.5
QRCFFM-12	3/4"-14	36	70	30
QRCFFM-16	1"-11	46	83	30
QRCFFM-20	1.1/4"-11	55	90	36
QRCFFM-24	1.1/2"-11	70	111	57

QUICK RELEASE COUPLING MALE PROBE
BODY IN HIGH GRADE CARBON STEEL
INDUCTION HARDENED
VALVE IN HARDENED STEEL
SPRINGS IN C72 STEEL
BALLS IN HIGH RESISTANCE 100 R6
SEAL NBR
Cr3 GALVANIZATION
TEMPERATURE RANGE -20 TO +100 DEG C



QRCFFF

QUICK RELEASE COUPLING FLAT FACE CARRIER
PREMIUM RANGE

THREAD = BSP

NORM ISO 16028

Article Code	Flange Head	Dimensions		
	Inch	CH	A	B
QRCFFF-04	1/4"-19	24	63	28
QRCFFF-06	3/8"-19	30	72	31
QRCFFF-08	1/2"-14	30	72	32
QRCFFF-12	3/4"-14	36	87	38
QRCFFF-16	1"-11	46	98	48
QRCFFF-20	1.1/4"-11	55	106	55
QRCFFF-24	1.1/2"-11	65	133	80

QUICK RELEASE COUPLING MALE PROBE
 BODY IN HIGH GRADE CARBON STEEL
 INDUCTION HARDENED
 VALVE IN HARDENED STEEL
 SPRINGS IN C72 STEEL
 BALLS IN HIGH RESISTANCE 100 R6
 SEAL NBR
 Cr3 GALVANIZATION
 TEMPERATURE RANGE -20 TO +100 DEG C



GE2G

HIGH PRESSURE 2 WAY BALL VALVE
CARBON STEEL

THREAD = BSP. ISO 228

MOUNTING HOLES INCLUDED

Article Code	DN	THREAD	MOUNTING HOLE	BODY LENGTH	WORKING PRESSURE
			mm	mm	Bar
GE2G04	6	1/4"-19	5.25	71	500 BAR
GE2G06	10	3/8"-19	5.25	73	500 BAR
GE2G08	13	1/2"-14	5.25	83	500 BAR
GE2G12	20	3/4"-14	6.25	95	420 BAR
GE2G16	25	1"-11	6.25	112	420 BAR
GE2G20R	25	1.1/4"-11	6.25	120	350 BAR
GE2G24R	25	1.1/2"-11	6.25	124	350 BAR

MATERIAL
CARBON STEEL
SURFACE TREATMENT
Cr3 GALVANIZATION
TEMPERATURE RANGE -20 TO +100 DEG C



GB1G

HIGH PRESSURE 2 WAY BALL VALVE
CARBON STEEL

FULL BORE FORGED BODY

THREAD = BSP. ISO 228

Article Code	DN	THREAD	BODY LENGTH	WORKING PRESSURE
			mm	Bar
GB1G20	32	1.1/4"-11	115	420 BAR
GB1G24	40	1.1/2"-11	131	420 BAR
GB1G32	50	2"-11	140	420 BAR

MATERIAL
CARBON STEEL
SURFACE TREATMENT
Cr3 GALVANIZATION
TEMPERATURE RANGE -20 TO +100 DEG C



GE2N

HIGH PRESSURE 2 WAY BALL VALVE
CARBON STEEL

THREAD = NPT. ANSI/ASME B1.20.1 NPT

MOUNTING HOLES INCLUDED

Article Code	DN	THREAD	MOUNTING HOLE	BODY LENGTH	WORKING PRESSURE
			mm	mm	Bar
GE2N04	6	1/4"-19	5.25	71	500 BAR
GE2N06	10	3/8"-19	5.25	73	500 BAR
GE2N08	13	1/2"-14	5.25	83	500 BAR
GE2N12	20	3/4"-14	6.25	95	420 BAR
GE2N16	25	1"-11	6.25	112	420 BAR
GE2N20R	25	1.1/4"-11	6.25	120	350 BAR
GE2N24R	25	1.1/2"-11	6.25	124	350 BAR

MATERIAL
CARBON STEEL
SURFACE TREATMENT
Cr3 GALVANIZATION
TEMPERATURE RANGE -20 TO +100 DEG C



GB1N

HIGH PRESSURE 2 WAY BALL VALVE
CARBON STEEL

FULL BORE FORGED BODY

THREAD = NPT ANSI/ASME B1.20.1 NPT

Article Code	DN	THREAD	BODY LENGTH	WORKING PRESSURE
			mm	Bar
GB1N20	32	1.1/4"-11	115	420 BAR
GB1N24	40	1.1/2"-11	131	420 BAR
GB1N32	50	2"-11	140	420 BAR

MATERIAL
CARBON STEEL
SURFACE TREATMENT
Cr3 GALVANIZATION
TEMPERATURE RANGE -20 TO +100 DEG C



GE2GSS

HIGH PRESSURE 2 WAY BALL VALVE
STAINLESS STEEL

THREAD = BSP. ISO 228

Article Code	DN	THREAD	MOUNTING HOLE	BODY LENGTH	WORKING PRESSURE
			mm	mm	Bar
GE2G04SS	6	1/4"-19	5.25	71	500 BAR
GE2G06SS	10	3/8"-19	5.25	73	500 BAR
GE2G08SS	13	1/2"-14	5.25	83	500 BAR
GE2G12SS	20	3/4"-14	6.25	95	420 BAR
GE2G16SS	25	1"-11	6.25	112	420 BAR
GE2G20RSS	25	1.1/4"-11	6.25	120	350 BAR
GE2G24RSS	25	1.1/2"-11	6.25	124	350 BAR

MATERIAL
STAINLESS STEEL
TEMPERATURE RANGE -30 TO +100 DEG C



GB1GSS

HIGH PRESSURE 2 WAY BALL VALVE
STAINLESS STEEL

FULL BORE FORGED BODY

THREAD = BSP. ISO 228

Article Code	DN	THREAD	BODY LENGTH	WORKING PRESSURE
			mm	Bar
GB1G20SS	32	1.1/4"-11	115	420 BAR
GB1G24SS	40	1.1/2"-11	131	420 BAR
GB1G32SS	50	2"-11	140	420 BAR

MATERIAL
STAINLESS STEEL
FULL BORE FORGED BODY
TEMPERATURE RANGE -30 TO +100 DEG C



GE2NSS

HIGH PRESSURE 2 WAY BALL VALVE
STAINLESS STEEL

THREAD = NPT. ANSI/ASME B1.20.1 NPT

Article Code	DN	THREAD	MOUNTING HOLE	BODY LENGTH	WORKING PRESSURE
			mm	mm	Bar
GE2N04SS	6	1/4"-19	5.25	71	500 BAR
GE2N06SS	10	3/8"-19	5.25	73	500 BAR
GE2N08SS	13	1/2"-14	5.25	83	500 BAR
GE2N12SS	20	3/4"-14	6.25	95	420 BAR
GE2N16SS	25	1"-11	6.25	112	420 BAR
GE2N20RSS	25	1.1/4"-11	6.25	120	350 BAR
GE2N24RSS	25	1.1/2"-11	6.25	124	350 BAR

MATERIAL
STAINLESS STEEL
TEMPERATURE RANGE -30 TO +100 DEG C



GB1NSS

HIGH PRESSURE 2 WAY BALL VALVE
STAINLESS STEEL

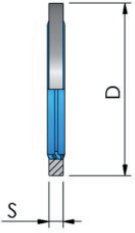
FULL BORE FORGED BODY

THREAD = NPT ANSI/ASME B1.20.1 NPT

Article Code	DN	THREAD	BODY LENGTH	WORKING PRESSURE
			mm	Bar
GB1N20SS	32	1.1/4"-11	115	420 BAR
GB1N24SS	40	1.1/2"-11	131	420 BAR
GB1N32SS	50	2"-11	140	420 BAR

MATERIAL
 STAINLESS STEEL
 FULL BORE FORGED BODY
 TEMPERATURE RANGE -30 TO +100 DEG C

MISCELLANEOUS



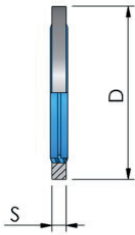
RBG

SUPERSEDED BS00

SEALS

BSP BONDED SEAL
SELF CENTERING

Article Code	Thread	Dimensions	
		S	D
RBG02	1/8"-28	2	15.9
RBG04	1/4"-19	2	20.6
RBG06	3/8"-19	2	23.8
RBG08	1/2"-14	2.5	28.6
RBG10	5/8"-14	2.5	31.8
RBG12	3/4"-14	2.5	35
RBG16	1"-11	3.2	42.8
RBG20	1.1/4"-11	3.2	52.4
RBG24	1.1/2"-12	3.2	58.6
RBG32	2"-11	3.2	73



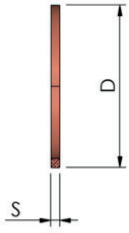
RBM

SUPERSEDED BSM00

SEALS

METRIC BONDED SEAL
SELF CENTERING

Article Code	Thread	Dimensions	
		S	D
RBM10	M10x1	1.5	16
RBM12	M12x1.5	1.5	20
RBM14	M14x1.5	1.5	22
RBM16	M16x1.5	1.5	24
RBM18	M18x1.5	1.5	26
RBM20	M20x1.5	1.5	28
RBM22	M22x1.5	2	30
RBM24	M24x1.5	2	32
RBM26	M26x1.5	2	35
RBM30	M30x1.5	2	39

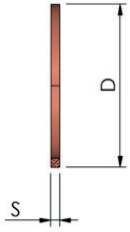


RRG

SEALS

BSP COPPER SEAL

Article Code	Thread	Dimensions	
	Inch	S	D
RRG02	1/8"-28	1.5	14
RRG04	1/4"-19	1.5	19
RRG06	3/8"-19	1.5	23
RRG08	1/2"-14	1.5	27
RRG10	5/8"-14	1.5	30
RRG12	3/4"-14	1.5	33
RRG16	1"-11	1.5	40
RRG20	1.1/4"-11	1.5	50
RRG24	1.1/2"-11	1.5	55
RRG32	2"-11	1.5	68

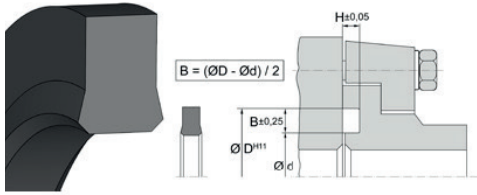


RRM

SEALS

METRIC COPPER SEAL

Article Code	Thread	Dimensions	
		S	D
RRM06	M6x1	1.5	12
RRM08	M8x1	1.5	14
RRM10	M10x1	1.5	16
RRM12	M12x1.5	1.5	18
RRM14	M14x1.5	1.5	20
RRM16	M16x1.5	1.5	22
RRM18	M18x1.5	1.5	24
RRM20	M20x1.5	1.5	26
RRM22	M22x1.5	1.5	28
RRM24	M24x1.5	1.5	32
RRM26	M26x1.5	1.5	32
RRM28	M28x1.5	1.5	34
RRM30	M30x1.5	1.5	36



TFL

SQUARE SECTION 'O' RING

SEALS

TO SUIT 3000 & 6000 SAE FLANGES

Article Code	d	D	H
TFL08	17.0	25.4	2.85
TFL12	23.4	31.8	2.85
TFL16	31.3	39.7	2.85
TFL20	36.1	44.5	2.85
TFL24	45.4	53.8	2.85
TFL32	55.0	63.4	2.85



PMR

UNIVERSAL SOFT END CAP

THREAD = UNIVERSAL

Article Code	Dimensions			
	A	d	hex	R
PMR8.7X13	13	8.7	-	BSP 1/8
PMR10.3X13	13	10.3	-	UNF 7/16
PMR11.1X13	13	11.1	-	BSP 1/4 UNF 9/16 M14
PMR12.7X13	13	12.7	-	-
PMR13.8X13	13	13.8	-	-
PMR15.2X13	13	15.2	14	UNF 5/8 M16
PMR15.9X13	13	15.9	15	BSP 3/8 UNF 11/16 3/4
PMR17.4X13	13	17.4	17	M18
PMR19.1X25	25	19.1	-	UNF 13/16 M20
PMR21.4X25	25	21.4	19	BSP 5/8 UNF 7/8 M22
PMR22.2X25	25	22.2	-	-
PMR23.8X25	25	23.8	22	UNF 1 M24
PMR25.4X25	25	25.4	24	BSP 3/4 UNF 1.1/16 M26
PMR26.3X25	25	26.3	-	-
PMR26.9X25	25	26.9	-	-
PMR28.6X25	25	28.6	27	M30
PMR30.2X25	25	30.2	28	-
PMR31.8X25	25	31.8	30	BSP 1 UNF 1.5/16
PMR34.9X25	25	34.9	32	M36
PMR38.1X25	25	38.1	36	-
PMR41.3X25	25	41.3	38	BSP 1.1/4 UNF 5/8 M42
PMR44.5X25	25	44.5	41	M45
PMR47.6X38	38	47.6	-	BSP 1.1/2 UNF 1.7/8
PMR50.8X38	38	50.8	46	M52
PMR53.9X38	38	53.9	50	-
PMR57.2X38	38	57.2	-	BSP 2
PMR60.3X38	38	60.3	55	-
PMR63.5X38	38	63.5	60	UNF 2.1/2
PMR69.8X50	50	69.8	-	-



KITTPNP

GO NO-GO COLLAPSE GAUGES

FROM 3/16" UP TO 2"

Article Code	Dimensions			
	HOSE	DN	GO (mm)	No Go (mm)
TPNPL03	3/16"	5	2.55	2.85
TPNPL04	1/4"	6	3.40	3.80
TPNPL05	5/16"	8	4.80	5.20
TPNPL06	3/8"	10	6.30	6.70
TPNPL08	1/2"	12	8.50	9.00
TPNPL10	5/8"	16	11.00	11.50
TPNPL12	3/4"	19	14.00	14.50
TPNPL16	1"	25	18.40	19.10
TPNPL20	1.1/4"	32	24.30	25.00
TPNPL24	1.1/2"	38	29.80	30.80
TPNPL32	2"	51	41.80	42.80

Article Code	KIT	FROM	TO
KITTPNP032		3/16	1.1/4
KITTPNP		3/16	2





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Tel +44 (0) 1384 888333

Fax +44 (0) 1384 888334



Terms of Sale Hydro Holding S.p.A.*

1. General:

These general terms and conditions apply to all deliveries and supplies made by Hydro Holding S.p.A. (HH). They are applicable exclusively and only apply to entrepreneurs; We do not accept any deviating or contradictory terms and conditions imposed by the Customer unless we expressly accept their validity in written form. Placement of purchase orders means clean acceptance of these terms.

2. Quotations:

The quotations of HYDRO HOLDING S.P.A. are always subject to change without notice. Particulars e.g. depictions, descriptions, technical data, and specifications printed in prospectus, price lists, catalogues, circulars and other printed matter or particulars in documentation affiliated to the quotation as well as such particulars contained in electronic data carriers e.g. CD-ROMs or Internet homepages are not binding. No liability is assumed for the correctness of technical data and other specifications, outside the scope of the order and order confirmation. HH reserves the right to technical alterations not of substance to the products, provided that their characteristics, methods and intended use are not changed. The Customer will accept any deviations to the extent as may be reasonably expected of him.

3. Acceptance of orders: Placed orders are always binding for the Customer. Such commitment becomes binding for HH only after explicit written acceptance (acknowledgement of order). Delivery constitutes implicit confirmation of acceptance of the order.

4. Prices and terms of payment:

- Our prices are net Ex Works (Ex-W as in Incoterms 2020) including normal packaging and excluding shipment. All prices and incidental expenses, especially shipping costs, will be charged on the basis of the price list valid at the time the contract is concluded. Discounts must be agreed upon separately;
- The legal VAT is not included in our prices. Such VAT will be itemized in the invoice separately at the rate applicable on the day of invoicing;
- Due to the fluctuation in price of the raw material we reserve the right to change our sale prices without any prior notice to the Customers, in this case this new price will be applicable to all deliveries starting from a certain date even if orders have been placed by Customers before the change and considering a different price and provided that the increases applied are proportional to the increases in the purchase cost for HH of the raw material.

- Should the Customer be in delay of payment, HH are authorized to:
 - a) debit bank charges and penal interest in the amount provided for by Legislative Decree 231/2002;
 - b) cancel any delivery and stop any execution of outstanding orders.

5. Period of delivery:

Agreed delivery deadlines and the beginning of the delivery period stated by us are not binding for HH, due to the fact that they are subject to timely receipt of deliveries from our suppliers. Compliance with our delivery commitment also prerequisites timely and proper contract performance by the Customer. We reserve the right to defense of non-performance of contract. HH shall not be liable if the non-observance of any term as a consequence of strikes, unavailability of raw materials, natural disasters, fires, epidemics, pandemics, governmental measures that may affect the regularity of production and deliveries and causes of force majeure in general, or other events not attributable to it.

6. Shipment- passage of risk:

Delivery is made ex our warehouse for the account of purchaser and at his risk. In case delivery free domicile is agreed, this will not affect the passage of risk. Risk passes to the Customer when the object sold is transferred to the forwarding company or leaves our warehouse for the purpose of shipment. If such shipment is delayed due to circumstances within the Customer's scope of responsibility, the risk passes to the Customer at the time he is notified of the readiness for shipment. In such case, we are, however, obligated to take out such insurance at the Customer's wish and expense as the Customer desires. We are also entitled to invoice the incurred warehouse costs or a flat-rate sum of 0.5% of the invoiced value of goods per month. In this case, the contract price resp. other consideration is due for payment at the time the goods are ready for shipment. We will insure the delivery by taking out a transport insurance policy at the Customer's request and expense.

7. Warranty for defects:

Customer's complaints must be received by us in written and specified form at the latest eight workdays after receipt of the goods at the point of destination. Any defects that cannot be found inside this period even with meticulous inspection will be reported in written form immediately after they are detected. In case of a defect brought to notice in due time, we may also choose to have the defective part reworked or to deliver a replacement part. The Customer may put forward statutory warranty claims



(cancellation of sale or reduction of purchase price) only after such rework or replacement delivery have failed.

Any liability for any loss or damage arising in relation to a product is excluded, irrespective of the nature of claim put forward. To the extent our liability is excluded or limited, this also applies to personal liability of our salaried employees, wage earners, representatives, and vicarious agents.

8. Retention to ownership:

We retain ownership of the sold object until all payments from the business relation with the Customer are received.

9. Place of jurisdiction, applicable law:

The courts of Bologna (Italy) have exclusive jurisdiction to settle any dispute (a "Dispute"), arising from or connected with this Agreement (including a dispute regarding the existence, validity or termination of this Agreement) or the consequences of its nullity. However, HH is also authorized to bring action at the Customer's legal domicile. These Terms and Conditions and all legal relations between HH and the Customer are subject to the Italian law.

Escape Clause: Should individual clauses in this agreement be or become ineffective in whole or in part or should an item have not been considered in this agreement, this will not affect the validity of the remaining clauses. The ineffective or forgotten clause will be replaced by an appropriate clause which, to the extent legally admissible, comes closest to what the contractual parties intended or, following design and wording of this contract, would have intended if they had been aware of the ineffective or missing clause.

10. GDPR Compliance: According to The EU General Data Protection Regulation (GDPR – EU/2016/679), your personal data, collected for specified purposes with reference to a business relation, shall be processed in accordance with provisions of the above-mentioned regulation. They shall be handled in a manner which ensures the protection of the data subject's human dignity, legitimate interests and fundamental rights, with particular regard to confidentiality and personal data. Therefore:

- Your data will be processed for the purposes of carrying out the legal and tax obligations;
- Your data will be processed by electronic and non-electronic means;
- Provision of Data is necessary for the performance of the agreement between you and HH and for any pre-contractual obligations thereof;
- When a transfer of personal data is not necessary for the performance of

contractual or pre-contractual measures in the interest of the data subject or for the purposes of carrying out the legal and tax obligations, it shall take place if the transfer to the Italian or to a third Country subject is necessary for credit protection purposes or to protect the interests of subjects involved, such as with regard to:

- Banking Companies, Insurance companies, Consultants or Services Providers, Public Bodies and professionals responsible for fulfilling certain obligations such as tax and accounting;

- Your data can be handled by data processors and providers of electronic networks and services.

We will not disclose your personal data.

You, as data subject, shall have the right to:

- Access the personal data;
- Obtain the rectification or provide supplementary statement;
- Obtain the erasure ('right to be forgotten')
- Obtain restriction of processing;
- Object to processing of personal data;
- Data portability: that is to say to have the right to receive the personal data in a structured, commonly used and machine-readable format and have the right to transmit those data to another controller without hindrance;
- Withdraw the consent at any time;
- Lodge a complaint with a supervisory authority.

The Data Controller is Hydro Holding S.p.A., Via Provinciale Nord, 26/A - Castello d'Argile 40050 (BO)

The Italian version is solely authoritative for interpretation of these Standard Terms and Conditions.

Hydro Holding S.P.A.

Notes



Notes



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