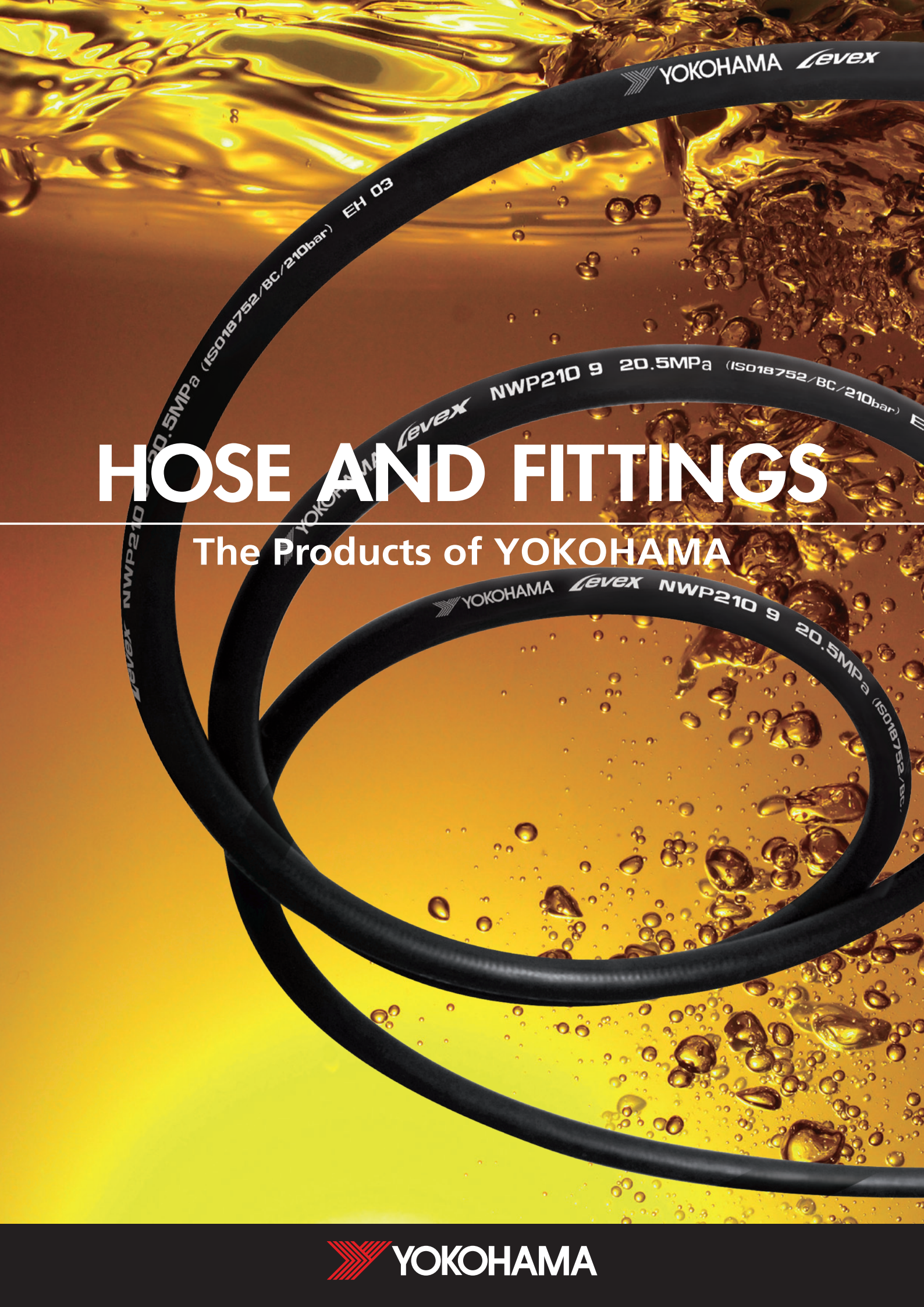




HOSE AND FITTINGS

The Products of YOKOHAMA

HOSE AND FITTINGS

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Warning

ATTENTION TO ALL DISTRIBUTORS AND CUSTOMERS

THE YOKOHAMA RUBBER Co., Ltd. (Herein after called "YRC") hoses and fittings are **designed as integral parts of hose assembly system to be used together** and they should only be used together or in conjunction with other types of fittings for YRC.

Failures to do so may result in reducing the hose assembly life or other failures which can result in serious bodily injury or property damage.

Product selection, product installation and hose integration guide lines are essential to the proper operation and safe use of YRC hoses, fittings, hose assemblies and related equipments.

Improper installation of the hoses, fittings and hose assemblies can result in serious injury or property damage.

The main international standards ISO 17165-2 and SAE J1273 strictly warn not to mix hose with fittings from different manufacturers without their approval.

Before using any product, it is important that **you analyze all aspects of your application and review the information explained in the current catalogue.**

YRC shall not be responsible for any default other than hose, fittings, or hose assembly we supply.

YRC does not represent or warrant any default taken place due to the improper use of hose, fittings or hose assembly. [EX] Hard piping layout, crimping, using inadequate liquid for hose, and so on.

YRC reserves the right to modify any data. Eventual and any kind of modifications can be carried out without any notice.

For more details on the hose shown in this catalog and their application, please be advised to contact your YRC customer service listed above.

Precaution

Safety instruction : Please be advised to read these safety instruction before use carefully.



1, Warning ※This symbol indicates failure to comply with the indication may cause personal death or injury.

- 1 **Do not kink the hose.**
Kink the hose causes burst and do not use kinked hose.
- 2 **Avoid applications where the hose assembly is twisted or pulled.**
Twisting or stretching hose under pressure causes stress concentration of hose or fitting which leads to hose bursting or fitting blow-off.
- 3 **Protect hose from abrasions.**
If the hose reinforcement is exposed, it causes rust and accelerated damage which leads to hose burst.
- 4 **Do not touch hose assembly and fittings under pressure.**
If hose or fittings are burst or broken, and a fluid touch the skins, a serious injury including burns may be caused.
- 5 **Do not repair or rework a hose assembly.**
Repair or rework does not have the same physical characteristics shown in this catalogue, and leading to hose burst or fitting blow-off.
- 6 **System pressure should not exceed the rated working pressure of the hose assembly.**
Exceeding the rated pressure of hose causes the hose bursting or fitting blow-off.
- 7 **Avoid the usage exceeding applicable temperature.**
The usage exceeding fluid/ambient temperature cause the hose bursting or fitting blow-off.
- 8 **Use compatible hydraulic fluid specified on this catalogue.**
The use of an incompatible hydraulic fluid will deteriorate inner tube rubber or thermoplastic and the reinforcement (wire or yarn) resulting in the hose bursting or fitting blow-off.
- 9 **Avoid the usage exceeding the minimum bending radius.**
The usage of exceeding the minimum bending radius causes the hose burst.
- 10 **The usages that our products are not intended for.**
 - Avoid vacuum pressure and external pressure which lead to hose burst or a serious injury.
 - Excessive vacuum pressure or external pressure causes the inner tube peel-off or kink which leads to hose failure and reduce service life.
 - Avoid submerging hose assemblies in water or high humid. Usage under these condition cause the outer cover peel-off and the rust of wire braded which leads to determination of strength.
 - Do not apply an electrical current to a hose assembly. Electrifying a hose leads to a hose failure or an electric shock.
 - Avoid excessive vibration. Excessive vibration causes fatigue which leads to leakage or burst.
- 11 **Selection of hose assembly length.**
 - Have an enough slack in the hose to allow for changes in length that occur when pressure is applied.
 - No slacks in the hose length causes high tension which leads to hose burst or fitting blow-off.



2, Caution ※This symbol indicates failure to comply with the indication may cause personal injury or property damage.

- 1 **Avoid sealing material going into the fitting or hose.**
Sealing material going into the fitting or hose causes clog or reducing fluid speed.
- 2 **Prior to assembly, inspect the fitting and sealing surface for foreign object or any other visible objects.**
If any foreign objects on the fitting and sealing surface are not removed, it leads to leakage of fluid.
- 3 **Tighten hose assemblies to the recommended torque shown in this catalogue.**
If tightening is improper, it cause leakage, joint portion breakage and separation.
- 4 **Select proper hose assembly matching the opponent joint portion.**
The hose assembly using improper fittings will lead to leakage or hose fitting blow-off.
- 5 **If the period of hose assembly usage exceeds 2 years, the hose assembly is recommended to replace a new one.**

- 6 **When hose assembly stored over one month, rust proofing for metal of fitting is recommended.**
Rust covered fitting cause contamination of fluid leading to leakage.
- 7 **Store hose and hose assembly in good condition.**
Store hose and hose assembly in dry room under the temperature of +40°C (+104°F).
Protect hose against direct sun light and humidity commendation. The usage under these condition lead to reduce service life or the rust of wire braded.
- 8 **Avoid damage or deform of hose and hose fitting.**
Keep hose in stress free shape never bent below the min. bend radius.
Do not heavy stuff on hose assembly leading to burst or breakage.
- 9 **Keep clean the inside of hose assembly.**
Hose assemblies fittings should be capped against damage and contamination. If not, it lead to trouble of fluid for hydraulic circuits.
- 10 **Storage period of hose should not exceed one year.**
Hose stored in good shape does not stop deterioration of its original characteristic. If not, it lead to deterioration of hose.

3, Items related to visual inspection of hose and hose fitting recommended by ISO 17165-2.

Hose and hose fittings shall be inspected for the items below listed, which also gives information as to the main causes and corrective action to be taken for each item.

Failure Symptom		Main cause	Corrective action
Leakage from threaded connector		Defective connector seat due to presence of flaw, dirt or other foreign objects	Clean connector seat
		Loose connector or O-ring wear	Tighten the connector or replace O-ring
		Mismatching of seat surface	Replace the connector as necessary
Leakage from flange connection		Loose fixture bolt or deterioration of O-rings or other seals	Tighten the bolt or replace O-rings or other seals
Leakage from hose / connection assembly, hose fitting slippage hose		Deterioration of hose (due to heat, oil, long use, etc.)	Replace the hose
		Improper routing	Avoid sharp bending at the assembly part
Deformation	Kink or dent	External impact	Prevent or protect from impact
	Swell or bulge	Oil spillage (leak)	Replace the hose
Visible defects (damaged, cut or abraded cover, exposed reinforcement; kinked, crushed, lathened, or twisted hose; blistered, soft, degraded, or loose cover; cracked, damaged, or badly corroded hose fitting; wear flaws; scratch etc.)		Component interference / External impact	Prevent or protect from impact / Replace the hose
Visible external cracks		Ozone, radiation, paint other fluids	Protect the exterior / Replace the hose
Unusual hose movement at starting of operation		Improper hose length	Replace the hose
		Improper hose routing	Correct routing or use adaptive devices
Hardening / softening, heat cracked, or Charred hose		Deterioration due to fluid or temperature mismatch	Replace the hose as necessary
Unusual noise, odor, heat		Improper circuitry	Check the circuit
Rusting of joints		Sand dust, water, air salinity	Use protective paint (but not on the exterior surface of the hose)

Tightening torque of hose fittings

When using of fitting for hose assemblies, tighten with an appropriate torque. Otherwise, fluid may leak, or the metal fitting may break. See the table below for the proper tightening torque.

Size	Metric Size	3.2	5	6.3	8	10	12.5	16	19	25	31.5	38	51
	mm Size	3	5	6	8	9	12	15	19	25	32	38	50
	Dash Size	-02	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
JIS Thread		1/8	1/4	1/4	3/8	3/8	1/2	3/4	3/4	1	1- 1/4	1-1/2	2
Tightening torque N.m		15	25	25	34	34	64	132	132	196	225	255	316
UNF Thread		-	-	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	1-1/16-12	1-5/16-12	1-5/8-12	1-7/8-12	2-1/2-12
Tightening torque N.m		-	-	25	29	39	49	69	118	137	167	212	296
DIN DKO (Light)		-	-	M12×1.5	M14×1.5	M16×1.5	M18×1.5	M22×1.5	M26×1.5	M30×2.0	M36×2.0	M45×2.0	-
Tightening torque N.m		-	-	15	25	35	40	60	85	105	135	250	-
DIN DKO (Heavy)		-	-	-	M16×1.5	M18×1.5	M20×1.5	M24×1.5	M30×2.0	M36×2.0	M42×2.0	M52×2.0	-
Tightening torque N.m		-	-	-	35	40	45	75	105	135	205	270	-
SSFST/45/90 (M)		-	-	-	-	-	M8×1.25	-	M10×1.5	M10×1.5	M12×1.75	M14×2.0	M14×2.0
Tightening torque N.m		-	-	-	-	-	20~25	-	28~40	37~48	48~62	62~79	73~90
SSFST/45/90 (UNF)		-	-	-	-	-	5/16-18	-	3/8-16	3/8-16	7/16-14	1/2-13	1/2-13
Tightening torque N.m		-	-	-	-	-	20~25	-	28~40	37~48	48~62	62~79	73~90
HSFST/45/90 (M)		-	-	-	-	-	M8×1.25	-	M10×1.5	M12×1.75	M14×2.0	M16×2.0	M20×2.5
Tightening torque N.m		-	-	-	-	-	20~25	-	34~45	56~68	85~102	158~181	271~294
HSFST/45/90 (UNF)		-	-	-	-	-	5/16-18	-	3/8-16	7/16-14	1/2-13	5/8-11	3/4-10
Tightening torque N.m		-	-	-	-	-	20~25	-	34~45	56~68	85~102	158~181	271~294
ORFS		-	-	9/16-18	-	11/16-16	13/16-16	1-14	1-3/16-12	1-7/16-12	1-11/16-12	2-12	-
Tightening torque N.m		-	-	15	-	26	45	64	93	130	180	213	-

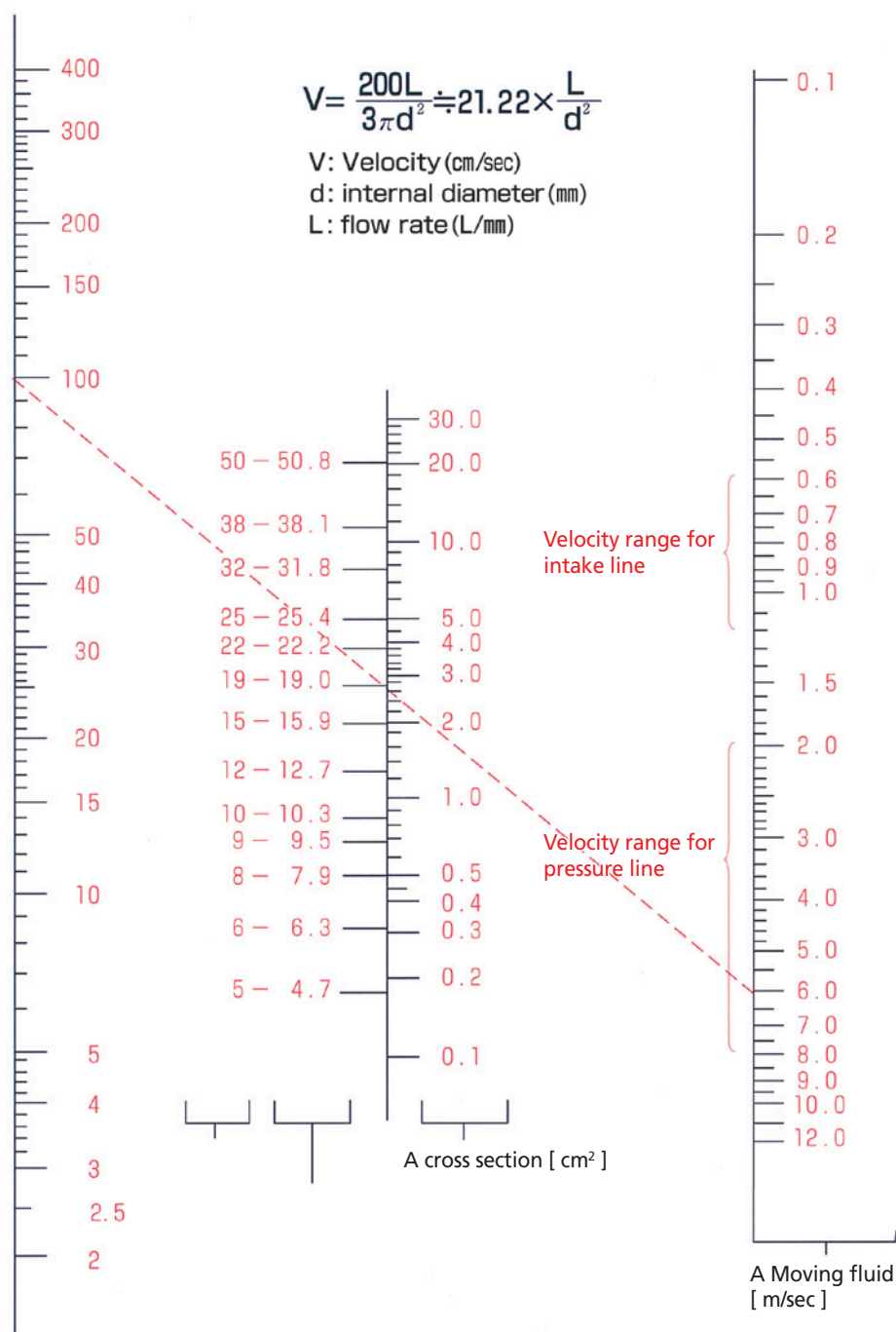
Allowance of hose assembly length (Based on JIS.B. 8360/8362)

Hose Assembly Length (mm)	Allowance (mm)
Under 500	+10 0
Over 500 to Under 1,000	+15 0
Over 1,000 to Under 2,000	+20 0
Over 2,000 to Under 5,000	+1.0% 0
Over 5,000	+2.0% 0

■ Hose selection by moving fluid and volumes

This chart is designed as an aid in selecting the correct hose size.

- In case of the velocity for pressure line is 6m/sec and the necessary volume is 100l/min, the hose size 19mm I.D. (3/4 inch) is required.
- This chart is applied for maximum 66cst (40°C).



1 Product article indication method used in this catalog

Product article numbers used in this catalog have the following meanings.

1. Size indications

Article numbers of hoses and metal fittings mean the product name and their sizes.

Two types of size indications are used: "mm" and "dash (inch)" indications.

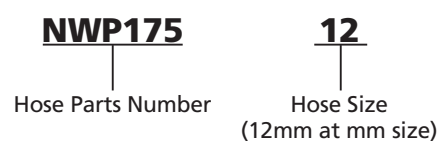
"mm" indication: Indicates hose inside diameter in millimeters according to the JIS standards.

"Dash" indication: Indicates sizes using a dash and number. These express sizes in inches in units of 1/16 of an inch.

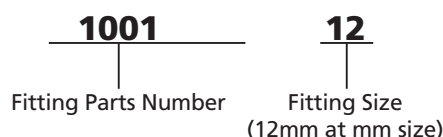
1 inch = 16/16 = -16

Size	Metric Size	3.2	5	6.3	8	10	12.5	16	19	25	31.5	38	51
mm Size	mm Size	3	5	6	8	9	12	15	19	25	32	38	50
Dash Size	Dash Size	-02	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32
Real I.D. (mm)	Real I.D. (mm)	3.6	4.8	6.3	7.9	9.5	12.7	15.9	19	25.4	31.8	38.1	50.8
Real I.D. (inch)	Real I.D. (inch)	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2

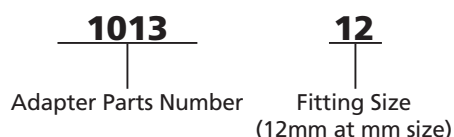
2. Example : Hose parts number



3. Example : Fitting parts number



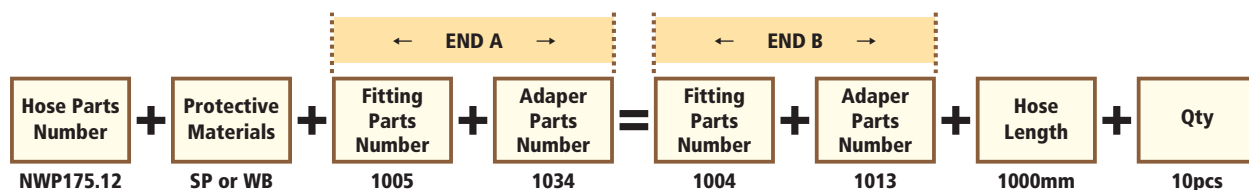
4. Example : Fitting parts number



2 How to order

- If you inform us of your usage conditions described below together, we can recommend the optimum hose.
- When you choose any of our hoses and fittings and place order, use our products article.
- Please contact us if you change current usage or usage by rough environment.

- 1) Type of fluid to be used.
- 2) Flow rate and velocity of the fluid to be used.
- 3) Maximum working pressure
 - possible to use maximum pressure
- 4) Working temperature
 - Fluid temperature
- 5) Applied thread standard and size of a metal fitting
 - If you can use our standard items, you can enjoy their inexpensiveness and quick delivery.
- 6) Hose length shown in mm.
- 7) Installation angle of a metal fitting with bends at both ends.
- 8) Hose installation condition, bend radius, and return bend angle and radius.
- 9) Whether or not you need drawings of delivered items.
- 10) Whether or not you need an inspection report.
 - If you need an inspection report, please specify the inspection items needed.
- 11) When ordering a hose assembly, indicate details using the following indication methods.



Sample for order • • • • "NWP175.12 1000mm SP 1005 + 1034 = 1004 + 1013 10pcs"

2-1 How to calculate the Assembly Length

- **End to End** of both fittings

Case 1)



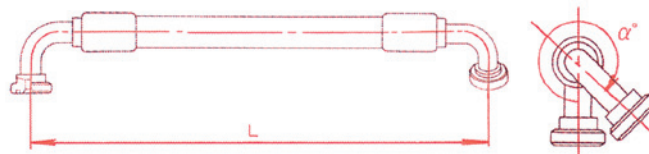
Case 2)



Case 3)



Case 4)



2-2 Hose Protective Materials

1) 1012 Spring

Use to protect too small bending at end of fitting.



Hose Length		L (mm)	Hose Length		L (mm)	Hose Length		L (mm)
mm	Dash		mm	Dash		mm	Dash	
6	-04	200	15	-10	300	32	-20	300
9	-06	200	19	-12	300	38	-24	350
12	-08	200	25	-16	300	50	-32	350

2) Spring Guard (SP)

Use to protect whole hose length from stones or striking objects.



3) Wire Braid (WB)

Use to protect whole hose length from metal cutting powder or sharp chips.



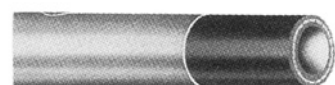
4) Grass Wool Wire Braid (1G-1W)

Use Grass Wool wire braid at high ambient temperature to protect hose from the heat.



5) Vinyl Cover

Use Vinyl Cover to protect hose from abrasion or damage.



6) Plastic protective coil sleeve

Use to protect hose from abrasion.



How to determine correct assembly length

For most assemblies, the correct assembly length may be determined by direct measurement of the equipment or by drawing. The recommended minimum bend radius must be observed. The correct hose length can be determined by the formula given below. Please consult our customer service if you have any question.

Dimension table

Hose I.D.	inch	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2
	(mm)	(5)	(6)	(8)	(9)	(12)	(15)	(19)	(25)	(32)	(38)	(50)
	(dash)	(-03)	(-04)	(-05)	(-06)	(-08)	(-10)	(-12)	(-16)	(-20)	(-24)	(-32)
A	inch	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	2-1/2	2-3/4	3-1/4	4	4-3/4	5-1/2
	(mm)	(30)	(30)	(40)	(40)	(40)	(60)	(70)	(80)	(100)	(120)	(140)
	(dash)	(-03)	(-04)	(-05)	(-06)	(-08)	(-10)	(-12)	(-16)	(-20)	(-24)	(-32)

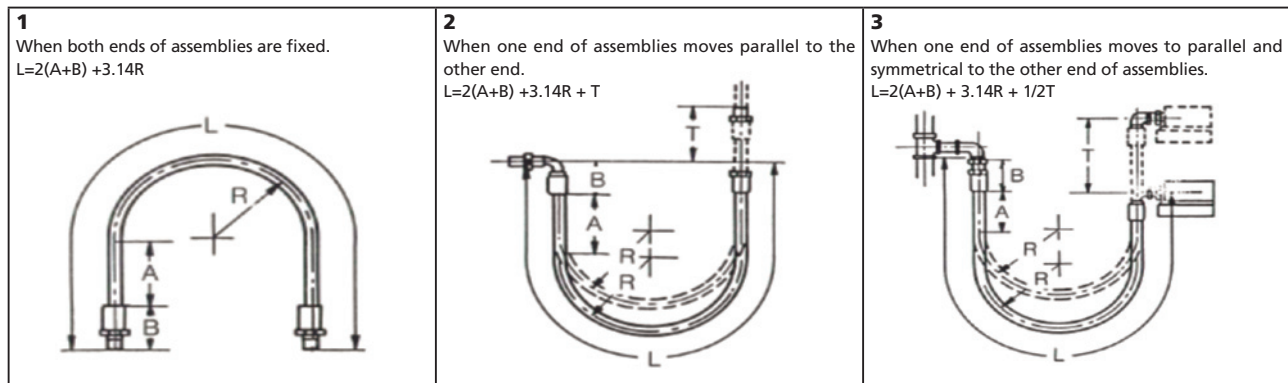
[L] = the overall length of the hydraulic hose assembly

[A] = an allowance for a min. straight section of hydraulic hose at each end of the assembly measured from the inner end of each fitting. These two straight sections are necessary to prevent excessive stress concentration directly back of the fitting. See table below.

[B] = the length of fitting

[R] = the bend radius of hose. See each hose specification table.

[T] = the length of travel



Correct assembly installation

1,
Under pressure, hose may change in length from -4% to +2%(or 4%). So always provide sufficient slack in hose to allow for shrinkage or expansion.

wrong

Correct!

2,
Do not use hose at bend radius less than the required min. bend radius. Provide sufficient length for a wide radius curve. To tight a bend pinches the hose and restricts the flow.

wrong

Correct!

3,
Do not install hose with a twist in tends to be straightened under high operation pressure. This causes loosen of fitting out or even burst of hose at the point of strain.

wrong

Correct!

4,
Where the radius falls below the required min. bend radius, an angle adapter must be used as below to avoid sharp bends in hose.

wrong

Correct!

5,
Hose must be bent in the same plane as the motion of the boss to which the hose is connected.

wrong

Correct!

6,
Obtain direct routing of hose through use of 45° and 90° adapters and fittings. Make appearance neater by avoiding excess hose length.

wrong

Correct!

7,
If hose is installed in bent position, curves absorb changes according to change in hose length under pressure. So do not clamp at bend.

8,
In applications where there is considerable vibration or flexing, provide sufficient hose length to avoid hose bend radius smaller than the recommended min. amount. Also proper installation protects metal parts from undue stress.

wrong

Correct!

9,
Service life of hose becomes short if subjected to abnormally high temperature. Use heat resistant boots, fire sleeves or metal baffles when hose lines pass near heat source. In any application, brackets and cramps keep hose in place and reduce abrasion.

wrong

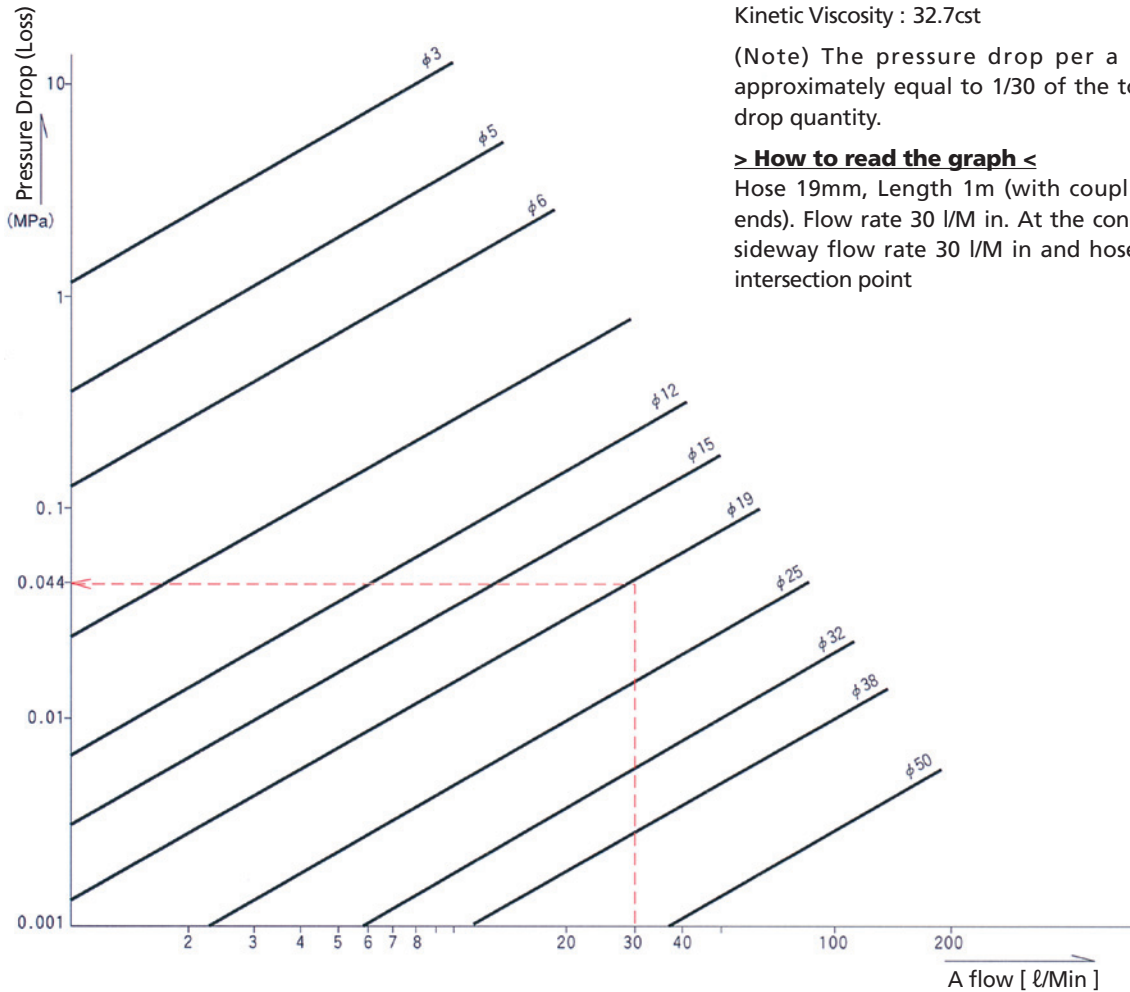
Correct!



Fluid Volume and Pressure Drop(Loss)

The pressure drop (Loss) happens due to the friction resistance caused as the fluid runs inside a hose.

How the relation between the fluid volume inside a hydraulic hose and the pressure drop(Loss) is explained below.



> Conditions <

Hose Length : 10m (Excluding Coupling Lengths)

Fluid : Hydraulic Oil

Temperature : 40°C

Kinetic Viscosity : 32.7cst

(Note) The pressure drop per a coupling is approximately equal to 1/30 of the total pressure drop quantity.

> How to read the graph <

Hose 19mm, Length 1m (with couplings at both ends). Flow rate 30 l/min. At the condition of the sideways flow rate 30 l/min in and hose 19mm, the intersection point



Hose selection by fluid [2]

Please refer this Chemical Resistance Table to select hose and fitting by fluid. It is intended as a guide only and is not a guarantee. Final selection of the proper hose type, seal, or material of metal components is further dependent on many factors including pressure, fluid, and ambient temperature.

1. Resistance rating key

- 1** = Excellent, - Inner Tube has little or no damage.
- 2** = Good, - Inner Tube has some damage, but useful.
- 3** = Unsatisfactory

2. Select hose style from hose matrix (PP14-19) after inner tube material determined.

Material : Synthetic rubber (NBR) OMNIBAR, Leveex (NWP), YFH, YPH, ARMORLEX, SC, WSR, L35, AJ, LHW, SPOIL, HI-MID, N300N, SP210
 Material : Polyester N173-12, NV105, NV210, NN173
 Material : Nylon N173-02, -03, N177
 Material : EPDM P210

No	Fluid	Inner tube material				Fitting material		
		Synthetic rubber (NBR)	Polyester	Nylon	Synthetic rubber (NBR)	Steel	Brass	Stainless
1	ASTM oil No.1	1	3	1	3	1	1	1
2	ASTM oil No.2	2	3	1	3	1	1	1
5	Asphalt	1	3	2	3	1	2	1
6	Acetylene	1	1	1	1	1	2	1
7	Acetone	3	1	2	2	1	1	1
8	Aniline	3	3	3	2	1	3	1
9	Linseed oil	1	1	2	1	1	1	1
10	Amilunum alcohol	2	1	2	1	2	2	2
11	Sulfurous acid [10•RT]	2	2	2	3	3	3	3
12	Sulfur dioxide	2	2	2	3	3	3	3
13	Ammonium hydroxide (Ammonia water)	2	3	3	1	3	3	2
14	Ammonia gas [Cold]	1	3	3	1	3	3	2
14	Ammonia gas [Hot]	2	3	3	1	3	3	2
15	Isooctane	1	1	1	3	1	2	1
16	Diethyl ether	3	3	2	3	1	1	1
17	Air	2	1	1	1	1	1	1
18	Ethyl alcohol	1	1	2	1	1	1	1
19	Ethylene	2	2	2	3	3	3	1
20	Ethylene glycol	1	1	2	1	3	3	1
21	Methyl chloride	2	3	3	2	1	1	1
22	Hydrochloric acid [10.RT]	1	3	3	1	3	3	3
22	Hydrochloric acid [20.RT]	2	3	3	1	3	3	3
22	Hydrochloric acid [20.80]	3	3	3	2	3	3	3
22	Hydrochloric acid [38.RT]	2	3	3	2	3	3	3
23	Olive oil	1	1	1	2	1	1	1
24	Salt Water (Max.60°C)	1	1	1	1	3	2	2
25	Hydrogen peroxide [5.RT]	3	3	2	1	3	3	2
25	Hydrogen peroxide [5.50]	3	3	2	2	3	3	2
25	Hydrogen peroxide [30.RT]	3	3	2	2	3	3	2
27	Gasoline	1	1	2	3	1	1	1
28	Xylene	2	2	2	3	1	1	1
29	Formic acid	2	3	3	1	3	3	1

No	Fluid	Inner tube material				Fitting material		
		Synthetic rubber (NBR)	Polyester	Nylon	Synthetic rubber (NBR)	Steel	Brass	Stainless
30	Cresol	3	3	3	3	3	2	1
31	Chromic acid [2.70]	3	3	3	1	3	3	2
31	Chromic acid [5.70]	3	3	3	2	3	3	2
31	Chromic acid [10.70]	3	3	3	2	3	3	2
31	Chromic acid [25.70]	3	3	3	3	3	3	2
32	Chloroform	3	3	3	3	3	3	1
33	Grease	1	1	1	3	1	1	1
34	Glycerin	1	1	1	1	1	2	1
35	Sodium silicate	1	1	1	1	2	3	1
36	Diesel	3	1	1	3	1	1	1
37	Kerosene	1	1	1	3	1	1	1
38	Cokes gas	2	2	2	3	1	3	1
39	Synthetic oil/MILL 23699 ※ Nickel plating	3	3	2	3	2	3	1
40	Hydraulic oil	1	1	1	3	1	1	1
41	Acetic acid [10.RT]	2	3	3	3	3	3	1
41	Acetic acid [50.RT]	2	3	3	1	3	3	1
41	Acetic acid [50.70]	3	3	3	3	3	3	1
41	Acetic acid [100.RT]	3	3	3	3	3	3	1
42	Ethyl acetate	3	1	2	2	2	2	1
43	Oxygen [MaX.60°C]	2	1	1	1	3	1	1
44	Nitric acid [10.RT]	3	3	3	1	3	3	3
44	Nitric acid [10.70]	3	3	3	2	3	3	3
44	Nitric acid [30.RT]	3	3	3	2	3	3	3
44	Nitric acid [30.70]	3	3	3	3	3	3	3
44	Nitric acid [61.3.RT]	3	3	3	3	3	3	3
44	Nitric acid [Smoke RT]	3	3	3	3	3	3	3
46	Carbon tetrachloride	2	3	1	3	3	2	2
47	Cyclohexane	3	2	1	2	2	2	1
48	Potassium dichromate [10.RT]	1	3	3	2	1	1	1
49	Fatty acid ester [Max.80°C]	2	3	3	1	1	1	1
50	Heavy oil	1	1	1	3	1	1	1
51	Lubricating oil	1	1	1	3	1	1	1



No	Fluid	Inner tube material				Fitting material		
		Synthetic rubber (NBR)	Polystar	Nylon	Synthetic rubber (NBR)	Steel	Brass	Stainless
52	Hypochlorous acid	3	3	3	2	3	3	2
53	Potassium hydroxide	2	1	2	1	3	3	1
54	Calcium hydroxide	1	3	1	1	3	1	1
55	Sodium hydroxide	2	3	2	1	3	3	1
56	Magnesium hydroxide	1	2	1	1	2	2	2
57	Styrene	3	2	3	3	3	3	1
58	Stearic acid	2	1	2	2	3	3	2
59	Petroleum	1	1	1	3	1	1	1
60	Insulating oil	1	1	2	3	1	1	1
61	Soluble oil	1	1	1	3	1	1	1
62	Tar	1	1	1	3	1	2	1
63	Carbonic acid	1	1	1	2	3	3	2
64	Nitrogen [Max.60°C]	1	1	1	1	1	1	1
65	Natural gas	1	1	1	3	1	2	1
66	Trichloroethylene [Trichlene]	3	3	3	3	2	1	1
67	Toluene	3	3	2	3	1	1	1
68	Toluene diisocyanate	3	3	3	3	3	3	1
69	Naptha	2	2	2	3	1	2	2
70	Naphthene extreme pressure oil	1	1	2	3	1	1	1
71	Lactic acid	1	1	1	1	1	1	1
72	Carbon dioxide	3	3	3	3	1	2	1
73	Fuel oil	1	1	1	3	1	1	1
74	Hydrazine	2	3	3	1	3	3	3
75	Castor oil	1	1	1	1	1	1	1
76	Picric acid	2	2	2	2	3	3	2
77	Phenol	3	3	3	1	3	1	1
78	Hydrofluoric acid [10.RT]	3	3	3	3	3	3	3
79	Hydrofluoric acid [20.RT]	3	3	3	3	3	3	3
79	Hydrofluoric acid [40.RT]	3	3	3	3	3	3	3
80	Butane	2	1	1	3	1	1	1
81	Propane	3	3	3	3	1	1	1
82	Hexane	3	3	3	3	1	1	1

No	Fluid	Inner tube material				Fitting material		
		Synthetic rubber (NBR)	Polystar	Nylon	Synthetic rubber (NBR)	Steel	Brass	Stainless
83	Benzine	2	1	1	3	2	2	1
84	Benzene [Benzol]	3	2	2	3	1	1	1
85	Polyether	2	3	3	3	3	3	1
86	Poriol ester [Max.80°C]	2	2	2	2	2	2	1
87	Water [Max.60°C]	2	3	3	1	2	2	1
88	Methyl alcohol	2	1	2	1	3	1	1
89	Methyl ethyl ketone (MEK)	3	1	2	2	2	2	2
90	Cottonseed oil	1	1	1	2	1	1	1
91	Lacquer	3	2	2	3	1	1	1
92	Sulfuric acid [10.RT]	1	3	3	1	3	3	3
92	Sulfuric acid [10.70]	1	3	3	1	3	3	3
92	Sulfuric acid [30.RT]	1	3	3	1	3	3	3
92	Sulfuric acid [30.70]	1	3	3	1	3	3	3
92	Sulfuric acid [98.RT]	3	3	3	3	3	3	3
92	Sulfuric acid [Smoke RT]	3	3	3	3	3	3	3
94	Sodium sulfate [Glauber's salt]	1	1	1	1	1	2	1
95	Phosphoric acid	3	3	3	2	3	3	2
96	Phosphoric ester	3	3	3	1	1	1	1
97	ammonium phosphate dibasic	1	1	1	1	3	3	2
98	Phosphoric acid, trisodium salt	2	2	1	1	3	3	1
99	Sulfur hexafluoride	2	1	1	2	1	1	1

Thread specification

Code	Type	Related specification	■ Expression sample		
G (PF, BSPP)	Rigid Type Thread	ISO 07-1, JIS B0203, BSP BS 21	G Thread Type	-	1/2 Pipe Size
R (PT, BSPT)	Taper Type Thread		R Taper Male Thread	-	1/4 Pipe Size
UNC	Unified Coarse Screw Thread		Rc Pipe Female Thread	-	1/4 Pipe Size
UNF	Unified Fine Screw Thread	JIS B0206, ANSI B1.1	3/4 Thread Size	-	16 UNF Thread Amount, Type
UNEF	Unified Extra-Fine Thread	JIS B0208, BS1580 ISO263, ANSI B1.1	1 Thread Size	-	20 UNEF Thread Amount, Type
UNS	Unified Special Series	BS1580 ISO263, ANSI B1.1	1 Thread Size	-	14 UNS Thread Amount, Type
UN	Unified Constant-Pitch Thread	BS1580, ANSI B1.1	1-1/16 Thread Size	-	12 UN Thread Amount, Type
M	Metric Fine Screw Thread	BS1580, ISO263, ANSI B1.1	M 20 Male Thread Type, Size	-	X 1.5 Pipe Size
M	Metric Coarse Screw Thread	ISO261, JIS B0207	M 20 Type, Size	-	X 1.5 Pitch Size
NPT	American Standard Taper Pipe Threads for General Use	JIS B0205			
NPTF	Dry seal American Standard Taper Pipe Thread	ANSI B1.20.1	NPT Thread Type	-	1/2 Pipe Size
NPSM	American Standard Straight Pipe Threads for Mechanical Joints	ANSI B1.20.3	NPTF Thread Type	-	3/8 Pipe Size



Maximum Working Pressure by Thread Type (JIS B 8363)

Unit: Mpa

JIS type	YOKOHAMA type	Inner Diameter (mm/SI Size/DN Size/Inch/Dash)														
		4.8	6.3	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1	50.8				
		5	6.3	8	10	12.5	16	19	25	31.5	38	51				
		5	6	8	10	12	16	20	25	31	40	51				
		3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2				
		-04	-05	-06	-08	-10	-12	-16	-20	-24	-32					
R	1001	34.5					27.5		20.5	17.0	10.5					
G	1002															
C	1005															
4C	ML45															
9C	ML90															
(F)	1004															
(M)	METST															
(MC)	1005M															
(UF)	6013															
(GO)	6008															
FA	SHA	-				20.5										
FL	SHAL															
S	SSFST	-				34.5	-	34.5		24.0	20.5					
4S	SSF45															
9S	SSF90															
H(HD)	HSFST							H, 4H, 9H : 24.0 HD, 4HD, 9HD : 34.5								
4H(4HD)	HSF45															
9H(9HD)	HSF90															



Hose

Product Line Up

For Hydraulic Oil

22	OMNIBAR 1Million cycles (JIS-K 6349), High temperature, Safety ratio 500%	OMB10F,10,15F,15,20F,20,25F,25,32F,32,35F,35
24	LEVEX Extremely light Superior flexibility	NWP35,70,105,140,175,210,280,350
27	YFH MAST Hose for Fork Lift	YFH175,210
27	YPH Pilot line	YPH6,9
28	ARMORLEX Abrasion free	AX21,28,35
28	SUCTION	SC Series
29	SAE 100R5	WSR5Z
	SAE 100R2	WSR2Z
	SAE 100R9	WSR9Z
30	SAE 100R6	L35
31	Mid surge	N177
32	Jack Hose	AJ700
32	Jack Hose	AJ1000
	Flexible Jack Hose	NAJ700
33	Heat resistance	LHW
33	Low-mid pressure range	SPOIL
34	Low pressure	HI-MID
34	Large bore series	N300N
34	Large bore series	SP210

For Hydraulic Oil or Water

36	Thermoplastic Hose High Pressure Water	NHW
36	Quick and easy assembly	WS18Z
30	SAE 100R7	N173
37	Thermoplastic	NV105
37	Thermoplastic	NV210
37	Thermoplastic	NN173
38	Water and hot water (not available for use with oil)	HTW10
38	Heat resistance Reusable Fitting	
	High Temperature steam	USTEMN, USTEMT

For special purpose

31	SAE 100R14 / Compressed gas, Fuel and lubricant handling, Steam transfer, Hydraulic Systems	ST40
39	HWBF(High Water Base Fluid),Water oil Emulsion type, Soluble type and hudraulic oil	G210
	Mineral oil / Large bore series	SP350,WSR5
39	Paint solvent (hydrocarbon,ester,ketone,alcohol and ether)	N191
40	Phosphate esters hydraulic oil (not available for use with hydraulic oil)	P210
41	Rolling lubricant oil (Roll Coolant)	RC205,RC35N
42	Water and cement milk	GT70,GT140,GT205,GT410



1 W/B ; Single wire braid



2 W/B ; Double wire braid



4 W/B ; Four spiral wire



6 W/B ; Six spiral wire

Series	Parts Number	Page	MWP [Mpa] [PSI]	MBP [Mpa] [PSI]	Application	Operating Temperature Range (Fluid)		Construction		
						[°C]	[°F]	Tube	Reinforcement	Cover
OMNIBAR 1 Million cycles (JIS-K 6349) Safety ratio 500%	OMB10F	22	17.0 2,500	86.0 12,500	Hydraulic oil	-40~120	-40~248	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion&weather-resistant synthetic rubber
	OMB10	22	17.0 2,500	86.0 12,500						
	OMB15F	22	20.5 3,000	103.0 15,000						
	OMB15	22	20.5 3,000	103.0 15,000						
	OMB20F	22	24.0 3,500	120.0 17,500						
	OMB20	22	24.0 3,500	120.0 17,500						
	OMB25F	23	27.5 4,000	138.0 20,000						
	OMB25	23	27.5 4,000	138.0 20,000						
	OMB32F	23	31.0 4,500	155.0 22,500						
	OMB32	23	31.0 4,500	155.0 22,500						
	OMB35F	23	34.5 5,000	172.5 25,000						
	OMB35	23	34.5 5,000	172.5 25,000						
LEVEX Extremely light Superior flexibility	NWP35	24	3.5 500	14.0 2,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion & weather-resistant synthetic rubber
	NWP70	24	7.0 1,000	28.0 4,000						
	NWP105	24	10.5 1,500	42.0 6,000						
	NWP140	25	14.0 2,000	56.0 8,000						
	NWP175	25	17.0 2,500	68.0 10,000						
	NWP210	25	20.5 3,000	82.0 12,000						
	NWP280	26	27.5 4,000	110.0 16,000						
	NWP350	26	34.5 5,000	138.0 20,000						
MAST Hose for Fork Lift	YFH175	27	17.0 2,500	68.0 10,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion & weather-resistant synthetic rubber
	YFH210	27	20.5 3,000	82.0 12,000						
Pilot line	YPH	27	7.0 1,000	28.0 4,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion & weather-resistant synthetic rubber
Abrasion free	AX21	28	20.5 3,000	82.0 12,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	Abrasion & weather-resistant synthetic rubber
	AX28	28	27.5 4,000	110.0 16,000						
	AX35	28	34.5 5,000	138.0 20,000						

Hose

[illegible]

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Hose



1 W/B ; Single wire braid



2 W/B ; Double wire braid



4 W/B ; Four spiral wire



6 W/B ; Six spiral wire

Series	Parts Number	Page	MWP [Mpa] [PSI]	MBP [Mpa] [PSI]	Application	Operating Tempreture Range (Fluid)		Construction		
						[°C]	[°F]	Tube	Reinforcement	Cover
suction	SC	28	3.5 500	14.0 2,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R2	WSR2Z	29	~34.5 ~5,000	~137.9 ~20,000	Hydraulic oil	-40~93	-40~199	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R5	WSR5Z	29	~20.7 ~3,000	~82.7 ~12,000	Hydraulic oil	-40~93	-40~199	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R6	L35	30	3.5 500	14.0 2,000	Hydraulic oil	-40~100	-40~212	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R7	N173	30	~20.5 ~3,000	~82.0 ~12,000	Hydraulic oil & Water	-40~100 [Water] ~60	-40~212 [Water] ~140	Nylon	Polyester	Polyurethane
SAE 100R9	WSR9Z	29	20.7 3,000	82.7 12,000	Hydraulic oil	-40~93	-40~199	Oil resistance synthetic rubber	High-tensile steel wire	weather-resistant synthetic rubber
SAE 100R14	ST40	31	~20.5 ~3,000	~82.0 ~12,000	Compressed gas, Fuel and lubricant handling, Steam transfer, Hydraulic Systems	-54~232	-65~450	Teflon® TUBE	304 stainless steel wire braid reinforcement	-
Mid surge	N177	31	10.5 1,500	59.0 8,600	Hydraulic oil	-40~100	-40~212	Nylon	Polyester yarn braid	Wire Blade
Jack Hose	AJ700	32	68.6 10,000	137.3 20,000		-20~80	-4~176	Oil resistance synthetic rubber	Wire Blade	weather-resistant synthetic rubber
Jack Hose	AJ1000	32	98.0 14,000	196.0 28,000				Oil restance synthetic rubber	High-tensile steel wire and Aramid yarn	Abrasion & weather- resistant synthetic rubber
Flexible Jack Hose	NAJ700	32	70 10,000	140 20,000				heat resistance, oil- resistant synthetic rubber	High-tensile steel wire	Heat-resistant acrylic, Weather resistant synthetic rubber
Heat resistance	LHW	33	3.5 500	14.0 2,000		-40~150	-40~302	Oil resistance synthetic rubber	Rayon	weather-resistant synthetic rubber
Low-mid pressure range	SPOIL	33	1.0 145	3.9 600		-30~120	-30~248		Synthetic fiber	
Low pressure	HI-MID	34	~1.5 ~200	~6.0 ~900		-40~100	-40~212		Wire Blade	
Large bore series	N300N	34	~5.0 ~700	~25.0 ~3,500		-20~80	-4~176		Spiral Wire Blade	
	SP210	34	20.5 3,000	82.0 12,000						
Thermo Plastic Hose High Pressure Water	NHW	36	13.7 2,000	50 7,300	High Pressure Water	-40~80	-40~176	Water resistance thermoplastic	Polyester fiber	Abrasion resistance polyurethane
Quick and easy assembly	WS18Z	36	1.8 300	3.5 500	Hydraulic oil & Water	-40~93 [Water] ~60 [Air] ~70	-40~199 [Water] ~140 [Air] ~158	Water resistance thermoplastic	Special synthetic fiber	Abrasion resistance polyurethane
Thermoplastic	NV105	37	10.5 1,500	42.0 6,000	Hydraulic oil & Water	-40~100 [Water] ~60	-40~212 [Water] ~140	Polyester elastomer	Polyester yarn braid	Polyester elastomer
	NV210	37	20.6 3,000	82.4 12,000		-55~100 [Water] ~60	-67~212 [Water] ~140			
	NN173	37	13.5 2,000	54.0 7,800						
Heat resistance Reusable Fitting	HTW10	38	1.0 145	4.0 600	Water and hot water (not available for use with oil)	Maximum 120	Maximum 246	Heat-resistant synthetic rubber	Special synthetic fiber	Heat-resistant synthetic rubber

× : Shown in catalogue

Inner Diameter (mm/SI Size/DN Size/Inch/Dash)															
3.6	4.8	6.3	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1	50.8	60	63.5	76.2	101.6
3.2	5	6.3	8	10	12.5	16	19	25	31.5	38	51	60	63	76	102
-	5	6	8	10	12	16	20	25	31	40	51	60	63	76	102
1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-3/8	2-1/2	3	4
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Hose



1 W/B ; Single wire braid



2 W/B ; Double wire braid



4 W/B ; Four spiral wire



6 W/B ; Six spiral wire

Series	Parts Number	Page	MWP [Mpa] [PSI]	MBP [Mpa] [PSI]	Application	Operating Temperature Range (Fluid)		Construction		
						[°C]	[°F]	Tube	Reinforcement	Cover
High Temperature steam	USTEMN USTEMT	38	1.8 260	-	High Temperature steam	Maximum 210~250	Maximum 410~482	Heat-resistant synthetic rubber	Wire & Yarn Blade	Heat-resistant synthetic rubber
HWBF (High Water Base Fluid)	G210	39	20.5 3,000	102.5 15,000	HWBF, Water oil Emulsion type, Soluble type and hudraulic oil	5~60 [Hydraulic Oil] -40~100	5~140 [Hydraulic Oil] -40~212	Oil restance synthetic rubber	Wire Braid Spiral wire Yarn braid	Oil restance synthetic rubber
Large bore series	SP350	35	34.5 5,000	103.5 15,000	Mineral oil	-40~100	-40~212	Oil restance synthetic rubber	Spiral Wire	Abrasion & weather-resistant synthetic rubber
Large bore series	WSR5	35	~2.4 ~350	~9.7 ~1,400	Mineral oil	-40~93	-40~199		Wire Braid	Yarn Braid
Paint spray hose	N191	39	20.6 3,000	68.5 10,000	Paint solvent (hydrocarbon, ester, ketone, alcohol and ether)	-20~80	-4~176	Nylon	High-tensile steel wire	vinyl chloride
Phosphate esters hydraulic oil	P210	40	20.5 3,000	102.5 15,000	Phosphate esters hydraulic oil (not available for use with hydraulic oil)	-30~100	-22~212	Phosphate esters hydraulic synthetic rubber	Wire Braid Spiral wire	weather-resistant synthetic rubber
Roll Coolant system	RC205	41	20.5 3,000	82.0 12,000	rolling lubricant oil (Roll Coolant)	-40~100	-40~212	Oil restance synthetic rubber	Wire Braid	Abrasion & weather-resistant synthetic rubber
	RC35N	41	3.5 500	14.0 2,000						
Water and cement milk	GT70	42	7.0 1,000	-	Water and cement milk	5~60	41~140	Abrasion resistance and water proof synthetic rubber	Wire Braid	Abrasion resistant synthetic rubber
	GT140	42	14.0 2,000	-						
	GT205	42	20.5 3,000	-						
	GT410	42	41.0 6,000	-						



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Inner Diameter (mm/SI Size/DN Size/Inch/Dash)															
3.6	4.8	6.3	7.9	9.5	12.7	15.9	19.0	25.4	31.8	38.1	50.8	60	63.5	76.2	101.6
3.2	5	6.3	8	10	12.5	16	19	25	31.5	38	51	60	63	76	102
-	5	6	8	10	12	16	20	25	31	40	51	60	63	76	102
1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	2	2-3/8	2-1/2	3	4
-02	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-64
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Fitting Type / Hose type		Page	OMB10F OMB10 OMB15F OMB15	OMB20F OMB20	OMB25F OMB25 OMB32F OMB32 OMB35F OMB35	NWP 35 NWP 70 NWP105 NWP140 NWP175 NWP210	NWP280 NWP350	YFH175 YFH210	YPH	AX21	AX28 AX35	S C
1001	JIS BSP Male Tapered ISO07/JIS B8363	44~47	×	×		×		×	×	×		
1002	JIS BSP Parallel 60° Cone Seat BS5200/ ISO8434-6/JIS B8363	48~51	×	×		×		×	×	×		
1004	JIS BSP Female 60° Cone Seat (Crimped Back-Nut) JIS B8363 (DIN20078/3863)	52~55	×	×		×		×	×	×		
1005	JIS BSP Male 60° Cone Seat JIS B8363 (DIN20078/3863)	56~59	×	×		×		×	×	×		×
6012	NPTF Male 60° Cone Seat SAE J516/514	60~61	×	×		×		×		×		
6013	JIC Female 74° Cone Seat Double Hexagon (Crimped Back-Nut) SAE J516/ISO12151-5	62~63	×	×		×		×	×	×		
6028	ORFS Female-SAE J516/ISO12151-1	64	×	×	×	×	×	×		×	×	
6128	45°ORFS Female SWEPT Elbow SAE J516/ISO12151-1	65	×	×	×	×	×	×		×	×	
6228	90°ORFS Female SWEPT Elbow SAE J516/ISO12151-1	66	×	×	×	×	×	×		×	×	
DK0SL	Metric O-ring Female 24° Light duty (Crimped Back Nut) -DIN20066/ISO12151-2					×	×					
DK0SH	Metric O-ring Female 24° Cone Heavy duty (Crimped- Back Nut) DIN20066/ISO12151-2			×	×	×	×					
DKLSH	Metric O-ring Female 24° Cone Heavy duty-DIN20066/ ISO12151-1					×						
DKFSH	Metric Male 24° Cone Seat Heavy duty-DIN20066/ ISO12151-2					×						
DK04H	45° Metric O-ring Female 24° Cone Heavy Duty (Crimped-Back Nut) DIN20066/ISO1215-2				×	×	×					
DK04L	45° Metric O-ring Female 24° Cone Light (Duty Crimped-Back Nut) DIN20066/ISO12151-2					×						
DK09H	90° Metric O-ring Female 24° Cone Heavy Duty (Crimped-Back Nut) DIN20066/ISO12151-2				×	×	×					
DK09L	90° Metric O-ring Female 24° Cone Light duty (Crimped-Back Nut) DIN20066/ISO12151-2					×	×					
HSF45	45° ISO/SAE Code62 Flange SAE J518/ISO12151-3	67		×	×		×				×	
HSF90	90° ISO/SAE Code62 Flange SAE J518/ISO12151-3	68		×	×		×				×	
HSFST	ISO/SAE Code62 Flange SAE J518/ISO12151-3	68		×	×		×				×	
METST	JIS Metric Female 60° Cone Seat (KOMATSU) JISB 8363	69~70				×		×	×	×		
ML45	45° BSP Female SWEPT Slide-back Elbow 60° Cone BS5200/ISO12151-6	71	×	×		×		×				
ML90	90° BSP Female SWEPT Slide-back Elbow 60° Cone BS5200/ISO12151-6	72	×	×		×		×				
SHA45	JIS 21Mpa B2291 Square Flange 45° Elbow	73	×			×						
SHA90	JIS 21Mpa B2291 Square Flange 90° Elbow	74	×			×						
SHALS	JIS 21Mpa B2291 Loose Flange	75	×			×						
SHAST	JIS 21Mpa B2291 Square Flange	76	×			×						
SSF45	45° ISO/SAE Code61 Flange SAE J518/ISO12151-3	77	×	×		×						
SSF90	90° ISO/SAE Code61 Flange SAE J518/ISO12151-3	78	×	×		×						
SSFST	ISO/SAE Code61 Flange SAE J518/ISO12151-3	79	×	×		×						

× : Shown in catalogue

WSR5Z	WSR2Z	WSR9Z	L35	AJ 700 AJ 1000 NAJ700	LHW	SP OIL	HI MID	NV105 NN173 N 173 NV210 N 177 NV150	N191	ST40	G210 P210 RC205	HTW	WS18Z	UP STM	NHW	GT70 GT140 GT205	GT410
×	×	×	×	×	×	×	×	×		×	×	×	×	×	×		
×	×	×	×		×	×	×	×			×				×		
×	×	×	×		×	×	×	×	×	×	×	×	×	×	×	×	
×	×	×	×		×	×	×	×		×	×	×	×	×	×	×	×
×			×					×									
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	×																
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	×																

Feature

While maintaining the excellent Hi Impulse and long durability features of the conventional Omnibar series, that is commonly called "OMB," this series further enhanced flexibility while decreasing the minimum bend radius, and made possible more compact piping designs.

These hoses have passed an endurance test of 1 million repetitions of being bent to the minimum radius under a standard JIS K 6349 and meet with ISO 18752 Grade D with a constant oil temperature of 120°C.

Construction

Inner Tube : Oil resistance synthetic rubber

Reinforcement : High-tensile steel wire

Outer Cover : Abrasion&weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 120°C -40 ~ 248°F

OMB 10

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
OMB10F-04	6.3	1/4	13.4	1W/B	17.0	86.0	60	210
OMB10F-06	9.5	3/8	17.9	2W/B	17.0	86.0	80	440
OMB10F-08	12.7	1/2	21.4	2W/B	17.0	86.0	95	590
OMB10F-10	15.9	5/8	25.1	2W/B	17.0	86.0	115	780
OMB10F-12	19.0	3/4	28.8	2W/B	17.0	86.0	130	950
OMB10F-16	25.4	1	36.1	4W/S	17.0	86.0	170	1,400
OMB10-20	31.8	1 1/4	45.4	4W/S	17.0	86.0	250	2,490
OMB10-24	38.1	1 1/2	52.3	4W/S	17.0	86.0	300	2,970
OMB10-32	50.8	2	66.0	4W/S	17.0	86.0	370	4,650

OMB 15

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
OMB15F-04	6.3	1/4	14.9	2W/B	20.5	103.0	70	370
OMB15F-06	9.5	3/8	18.4	2W/B	20.5	103.0	90	540
OMB15F-08	12.7	1/2	21.5	2W/B	20.5	103.0	100	600
OMB15F-10	15.9	5/8	25.2	2W/B	20.5	103.0	125	800
OMB15F-12	19.0	3/4	29.4	4W/S	20.5	103.0	150	1,100
OMB15F-16	25.4	1	36.2	4W/S	20.5	103.0	190	1,450
OMB15-20	31.8	1 1/4	45.4	4W/S	20.5	103.0	280	2,490
OMB15-24	38.1	1 1/2	52.3	4W/S	20.5	103.0	340	3,020
OMB15-32	50.8	2	66.0	4W/S	20.5	103.0	380	4,650

OMB 20

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
OMB20F-04	6.3	1/4	15.0	2W/B	24.0	120.0	70	380
OMB20F-06	9.5	3/8	18.5	2W/B	24.0	120.0	90	550
OMB20F-08	12.7	1/2	22.9	4W/S	24.0	120.0	110	830
OMB20F-10	15.9	5/8	26.3	4W/S	24.0	120.0	130	960
OMB20F-12	19.0	3/4	29.5	4W/S	24.0	120.0	160	1,130
OMB20F-16	25.4	1	36.9	4W/S	24.0	120.0	200	1,640
OMB20-20	31.8	1 1/4	48.4	6W/S	24.0	120.0	330	3,610
OMB20-24	38.1	1 1/2	55.3	6W/S	24.0	120.0	400	4,210
OMB20-32	50.8	2	70.5	6W/S	24.0	120.0	470	6,740

OMB 25

Hose Brand	 Inner Diameter		 Outer Diameter	 Reinforcement	 Maximum Working Pressure (Mpa)	 Minimum Burst Pressure (Mpa)	 Minimum Bend Radius (mm)	 Weight Per Meter (g)
	(mm)	(Inch)						
OMB25F-04	6.3	1/4	15.0	2W/B	27.5	138.0	70	380
OMB25F-06	9.5	3/8	18.5	2W/B	27.5	138.0	90	550
OMB25F-08	12.7	1/2	23.0	4W/S	27.5	138.0	110	840
OMB25F-10	15.9	5/8	26.4	4W/S	27.5	138.0	140	970
OMB25F-12	19.0	3/4	29.5	4W/S	27.5	138.0	170	1,150
OMB25F-16	25.4	1	37.0	4W/S	27.5	138.0	220	1,680
OMB25-20	31.8	1 1/4	48.4	6W/S	27.5	138.0	340	3,610
OMB25-24	38.1	1 1/2	55.3	6W/S	27.5	138.0	430	4,210
OMB25-32	50.8	2	71.1	6W/S	27.5	138.0	480	7,200

OMB 32

Hose Brand	 Inner Diameter		 Outer Diameter	 Reinforcement	 Maximum Working Pressure (Mpa)	 Minimum Burst Pressure (Mpa)	 Minimum Bend Radius (mm)	 Weight Per Meter (g)
	(mm)	(Inch)						
OMB32F-04	6.3	1/4	15.0	2W/B	31.0	155.0	90	390
OMB32F-06	9.5	3/8	18.9	2W/B	31.0	155.0	120	560
OMB32F-08	12.7	1/2	23.0	4W/S	31.0	155.0	120	850
OMB32F-10	15.9	5/8	26.4	4W/S	31.0	155.0	150	980
OMB32F-12	19.0	3/4	30.3	4W/S	31.0	155.0	180	1,300
OMB32F-16	25.4	1	37.4	4W/S	31.0	155.0	230	1,900
OMB32-20	31.8	1 1/4	48.4	6W/S	31.0	155.0	350	3,670
OMB32-24	38.1	1 1/2	56.0	6W/S	31.0	155.0	450	4,200
OMB32-32	50.8	2	71.1	6W/S	31.0	155.0	490	7,200

OMB 35

Hose Brand	 Inner Diameter		 Outer Diameter	 Reinforcement	 Maximum Working Pressure (Mpa)	 Minimum Burst Pressure (Mpa)	 Minimum Bend Radius (mm)	 Weight Per Meter (g)
	(mm)	(Inch)						
OMB35F-04	6.3	1/4	15.1	2W/B	34.5	172.5	90	400
OMB35F-06	9.5	3/8	19.0	2W/B	34.5	172.5	120	570
OMB35F-08	12.7	1/2	23.1	4W/S	34.5	172.5	140	860
OMB35F-10	15.9	5/8	26.5	4W/S	34.5	172.5	160	1,000
OMB35F-12	19.0	3/4	30.4	4W/S	34.5	172.5	190	1,340
OMB35F-16	25.4	1	37.5	4W/S	34.5	172.5	240	1,930
OMB35-20	31.8	1 1/4	48.4	6W/S	34.5	172.5	370	3,670
OMB35-24	38.1	1 1/2	56.0	6W/S	34.5	172.5	470	4,200
OMB35-32	50.8	2	71.1	6W/S	34.5	172.5	500	7,200

Feature

Employing strong resistance to rubbing and a weather-resistant abrasive cover, these hoses have a small external diameter, are able to form a small bend radius, lightweight, and easy-to-handle. Based on JIS K 6349.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : High-tensile steel wire
 Outer Cover : Abrasion & weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

NWP 35

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
NWP35 6	6.3	1/4	11.7	1W/B	3.5	14.0	40	165
NWP35 9	9.5	3/8	14.9	1W/B	3.5	14.0	50	200
NWP35 12	12.7	1/2	19.0	1W/B	3.5	14.0	60	310
NWP35 15	15.9	5/8	23.2	1W/B	3.5	14.0	80	430
NWP35 19	19.0	3/4	25.6	1W/B	3.5	14.0	100	430
NWP35 25	25.4	1	32.2	1W/B	3.5	14.0	120	580
NWP35 32	31.8	1 1/4	39.9	1W/B	3.5	14.0	190	780
NWP35 38	38.1	1 1/2	46.2	1W/B	3.5	14.0	230	950
NWP35 50	50.8	2	61.0	2W/B	3.5	14.0	300	2,000

NWP 70

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
NWP70 6	6.3	1/4	11.8	1W/B	7.0	28.0	40	170
NWP70 9	9.5	3/8	14.9	1W/B	7.0	28.0	50	210
NWP70 12	12.7	1/2	19.0	1W/B	7.0	28.0	60	320
NWP70 15	15.9	5/8	23.2	1W/B	7.0	28.0	80	450
NWP70 19	19.0	3/4	25.7	1W/B	7.0	28.0	100	450
NWP70 25	25.4	1	32.3	1W/B	7.0	28.0	120	600
NWP70 32	31.8	1 1/4	41.2	2W/B	7.0	28.0	240	1,270
NWP70 38	38.1	1 1/2	47.7	2W/B	7.0	28.0	290	1,450
NWP70 50	50.8	2	61.0	2W/B	7.0	28.0	370	2,060

NWP 105

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
NWP105 6	6.3	1/4	12.3	1W/B	10.5	42.0	45	175
NWP105 9	9.5	3/8	15.0	1W/B	10.5	42.0	50	220
NWP105 12	12.7	1/2	19.1	1W/B	10.5	42.0	60	340
NWP105 15	15.9	5/8	23.2	1W/B	10.5	42.0	80	460
NWP105 19	19.0	3/4	26.7	1W/B	10.5	42.0	100	620
NWP105 25	25.4	1	34.8	2W/B	10.5	42.0	130	1,100
NWP105 32	31.8	1 1/4	41.2	2W/B	10.5	42.0	240	1,320
NWP105 38	38.1	1 1/2	50.5	4W/S	10.5	42.0	290	2,370
NWP105 50	50.8	2	64.5	4W/S	10.5	42.0	370	3,550

NWP 140

Hose Brand	 Inner Diameter		 Outer Diameter	 Reinforcement	 Maximum Working Pressure (Mpa)	 Minimum Burst Pressure (Mpa)	 Minimum Bend Radius (mm)	 Weight Per Meter (g)
	(mm)	(Inch)						
NWP140 6	6.3	1/4	12.3	1W/B	14.0	56.0	45	175
NWP140 9	9.5	3/8	15.0	1W/B	14.0	56.0	50	220
NWP140 12	12.7	1/2	19.1	1W/B	14.0	56.0	60	340
NWP140 15	15.9	5/8	24.0	2W/B	14.0	56.0	95	620
NWP140 19	19.0	3/4	27.9	2W/B	14.0	56.0	110	790
NWP140 25	25.4	1	35.4	2W/B	14.0	56.0	140	1,170
NWP140 32	31.8	1 1/4	43.5	4W/S	14.0	56.0	240	1,750
NWP140 38	38.1	1 1/2	50.5	4W/S	14.0	56.0	290	2,410
NWP140 50	50.8	2	64.5	4W/S	14.0	56.0	370	3,550

NWP 175

Hose Brand	 Inner Diameter		 Outer Diameter	 Reinforcement	 Maximum Working Pressure (Mpa)	 Minimum Burst Pressure (Mpa)	 Minimum Bend Radius (mm)	 Weight Per Meter (g)
	(mm)	(Inch)						
NWP175 6	6.3	1/4	12.4	1W/B	17.0	68.0	45	180
NWP175 9	9.5	3/8	16.2	1W/B	17.0	68.0	60	310
NWP175 12	12.7	1/2	20.3	2W/B	17.0	68.0	80	470
NWP175 15	15.9	5/8	24.1	2W/B	17.0	68.0	100	640
NWP175 19	19.0	3/4	28.7	2W/B	17.0	68.0	120	900
NWP175 25	25.4	1	35.6	2W/B	17.0	68.0	160	1,300
NWP175 32	31.8	1 1/4	44.3	4W/S	17.0	68.0	250	1,930
NWP175 38	38.1	1 1/2	51.4	4W/S	17.0	68.0	300	2,750
NWP175 50	50.8	2	64.5	4W/S	17.0	68.0	430	3,600

NWP 210

Hose Brand	 Inner Diameter		 Outer Diameter	 Reinforcement	 Maximum Working Pressure (Mpa)	 Minimum Burst Pressure (Mpa)	 Minimum Bend Radius (mm)	 Weight Per Meter (g)
	(mm)	(Inch)						
NWP210 6	6.3	1/4	12.4	1W/B	20.5	82.0	45	180
NWP210 9	9.5	3/8	16.7	2W/B	20.5	82.0	60	360
NWP210 12	12.7	1/2	20.4	2W/B	20.5	82.0	80	490
NWP210 15	15.9	5/8	24.1	2W/B	20.5	82.0	110	640
NWP210 19	19.0	3/4	28.7	2W/B	20.5	82.0	130	930
NWP210 25	25.4	1	35.9	4W/S	20.5	82.0	180	1,380
NWP210 32	31.8	1 1/4	44.3	4W/S	20.5	82.0	280	1,980
NWP210 38	38.1	1 1/2	51.4	4W/S	20.5	82.0	330	2,800
NWP210 50	50.8	2	65.9	4W/S	20.5	82.0	430	4,600

NWP 280

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
NWP280 6	6.3	1/4	13.7	2W/B	27.5	110.0	45	280
NWP280 9	9.5	3/8	16.9	2W/B	27.5	110.0	60	370
NWP280 12	12.7	1/2	21.2	2W/B	27.5	110.0	80	510
NWP280 15	15.9	5/8	26.5	4W/S	27.5	110.0	140	1,000
NWP280 19	19.0	3/4	29.5	4W/S	27.5	110.0	170	1,150
NWP280 25	25.4	1	37.0	4W/S	27.5	110.0	220	1,680
NWP280 32	31.8	1 1/4	48.3	6W/S	27.5	110.0	280	3,580
NWP280 38	38.1	1 1/2	55.9	6W/S	27.5	110.0	330	3,930
NWP280 50	50.8	2	71.0	6W/S	27.5	110.0	430	7,100

NWP 350

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
NWP350 6	6.3	1/4	15.0	2W/B	34.5	138.0	90	380
NWP350 9	9.5	3/8	18.9	2W/B	34.5	138.0	120	550
NWP350 12	12.7	1/2	23.0	4W/S	34.5	138.0	140	840
NWP350 15	15.9	5/8	26.5	4W/S	34.5	138.0	160	1,050
NWP350 19	19.0	3/4	30.4	4W/S	34.5	138.0	190	1,340
NWP350 25	25.4	1	37.4	4W/S	34.5	138.0	240	1,930
NWP350 32	31.8	1 1/4	48.3	6W/S	34.5	138.0	280	3,640
NWP350 38	38.1	1 1/2	55.9	6W/S	34.5	138.0	400	3,980
NWP350 50	50.8	2	71.0	6W/S	34.5	138.0	500	7,150





Hose

YFH / MAST Hose for Fork Lift

Feature

Cover material with abrasion resistance is implemented.
Abrasion against other hose or piping is minimized.
Compact bend radius makes to use for mast hose of **Fork Lift**.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : High-tensile steel wire
Outer Cover : Abrasion&weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

YFH175

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
YFH175 6	6.3	1/4	13.5	2W/B	17	68	45	280
YFH175 9	9.5	3/8	16.7	2W/B	17	68	60	360
YFH175 12	12.7	1/2	20.4	2W/B	17	68	80	490

YFH210

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
YFH210 6	6.3	1/4	13.5	2W/B	20.5	82	45	280
YFH210 9	9.5	3/8	16.7	2W/B	20.5	82	60	360
YFH210 12	12.7	1/2	20.4	2W/B	20.5	82	80	490
YFH210 15	15.9	5/8	24.1	2W/B	20.5	82	95	640

YPH / Pilot line

Feature

YPH series was developed just for **pilot line**.
It's minimized small outside diameter ideally suited to the compact lay line requirement.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : High-tensile steel wire
Outer Cover : weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

YPH

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
YPH 6	6.3	1/4	11.8	1W/B	7.0	28.0	40	180
YPH 9	9.5	3/8	14.8	1W/B	7.0	28.0	50	220

Feature

AX series is processed abrasion resistance sheet on outer cover.
 Protector for abrasion on hose is not required.
 Do not use when illuminated with ultraviolet light otherwise life of abrasion resistance sheet on outer cover is degraded.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : High-tensile steel wire
 Outer Cover : Abrasion&weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40° ~ 212°F

ARMORLEX

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
AX21 6	6.3	1/4	13.5	2W/B	20.5	82.0	50	280
AX21 9	9.5	3/8	16.7	2W/B	20.5	82.0	60	360
AX21 12	12.7	1/2	20.4	2W/B	20.5	82.0	70	490
AX21 15	15.9	5/8	24.1	2W/B	20.5	82.0	95	620
AX28 12	12.7	1/2	23.1	4W/S	27.5	110.0	110	850
AX28 15	15.9	5/8	27.5	4W/S	27.5	110.0	140	1,200
AX28 19	19.0	3/4	30.5	4W/S	27.5	110.0	170	1,320
AX35 12	12.7	1/2	23.1	4W/S	34.5	138.0	140	850
AX35 15	15.9	5/8	27.5	4W/S	34.5	138.0	160	1,220
AX35 19	19.0	3/4	30.5	4W/S	34.5	138.0	190	1,340

SUCTION**Feature**

SC series were designed for suction line.
 Maximum suction/vacuum pressure is -86kPa.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : High-tensile steel wire
 Outer Cover : weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

Maximum Vacuum Pressure

-86 kPa

Suction

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
SC 25	25.4	1	35.0	1W/B	3.5	14.0	150	800
SC 32	31.8	1 1/4	40.5	1W/B	3.5	14.0	200	980
SC 38	38.1	1 1/2	47.5	1W/B	3.5	14.0	250	1,130

Feature

W series is high pressure hose which cleared SAE standard specification. Fittings of W series was implemented field assembly.

- ① Easy for on site assembly. Hose can be cut suitable length for equipments.
- ② It enhance minimized down time to replace hose assembly built into equipments.
- ③ No needs to purchase full assembly hose. It minimize excess inventory.

Construction

Inner Tube : Oil resistance synthetic rubber.
 Reinforcement : Wire braid, Spiral Wire braid.
 Outer Cover : Abrasion & weather-resistant synthetic rubber.

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 93°C -40 ~ 199°F

WSR2Z equivalent to SAE 100R2

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
WSR2Z-04	6.4	1/4	17.5	2W/B	35	140	100	500
WSR2Z-06	9.5	3/8	21.4	2W/B	28	112	125	650
WSR2Z-08	12.7	1/2	24.6	2W/B	24.5	98	175	850
WSR2Z-12	19.0	3/4	31.8	2W/B	15.7	62.8	240	1,100
WSR2Z-16	25.4	1	39.7	2W/B	14	56	300	1,600
WSR2Z-20	31.8	1 1/4	50.8	2W/B	11.3	45.2	420	2,550
WSR2Z-24	38.1	1 1/2	57.1	2W/B	8.7	34.8	500	3,000

WSR5Z equivalent to SAE 100R5

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
WSR5Z-05	6.4	1/4	14.7	1W/B	21	84	85	295
WSR5Z-06	7.9	5/16	17.1	1W/B	15.7	62.8	100	330
WSR5Z-10	12.7	1/2	23.4	1W/B	12.2	48.4	140	560
WSR5Z-12	15.9	5/8	27.4	1W/B	10.5	42	165	735
WSR5Z-16	22.2	7/8	31.3	1W/B	5.6	22.4	185	755
WSR5Z-20	28.6	1 1/8	38.1	1W/B	4.3	17.2	230	810
WSR5Z-24	34.9	1 3/8	44.4	1W/B	3.5	14	265	1,000

WSR9Z equivalent to SAE 100R9

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
WSR9Z-12	19.0	3/4	31.1	4W/S	21	84	240	1,100
WSR9Z-16	25.4	1	39.5	4W/S	21	84	300	1,760



Hose

SAE 100R6

Feature

Light weighty and flexible hose for low-mid pressure range passed ISO4079-R6, SAE100R6.
Easy to assembly by field crimp machine.

Construction

Inner Tube : Oil resistance synthetic rubber.
Reinforcement : Wire braid, Spiral Wire braid.
Outer Cover : Weather-resistant synthetic rubber.

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

L35 equivalent to SAE 100R6

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
L35 6	6.3	1/4	12.7	2Y/S	3.5	14.0	65	135
L35 9	9.5	3/8	15.9	2Y/S	3.5	14.0	75	180
L35 12	12.7	1/2	19.8	2Y/S	3.5	14.0	100	250
L35 19	19.0	3/4	27.0	1Y/B	3.5	14.0	150	480
L35 25	25.4	1	34.9	1Y/B	3.5	14.0	200	720

SAE 100R7

Feature

N173 hose is equivalent to SAE100R7.
N173 hose series has hose size of which NN173 has no availability of the same size.

Construction

Inner Tube : -02,-03:Nylon -12:Polyester
Reinforcement : Polyester yarn braid
Outer Cover : Polyurethane

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C (up ~ 60°C when using water)
-40 ~ 212°F (up ~ 140°F when using water)

N173 equivalent to SAE 100R7

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
N173-02	3.6	1/8	8.8	1Y/B	21	82.0	15	35
N173-03	4.8	3/16	10.0	1Y/B	21	82.0	30	40
N173-12	19.0	3/4	27.0	1Y/B	8.7	34.0	165	310

I

Hose

SAE 100R14

Feature

Advantage for flexibility, temperature and chemical proof.
No viscous tube much with high viscosity fluid such as adhesive, coating material etc. Also much with cleanliness factor fluid like steam or machine for food materials. Inner core vertically extruded to maintain highest quality of concentricity.
304 stainless steel wire braid reinforcement.
Meets or exceeds requirement of SAE100R14- PTFE meets FDA 21CFR 177.1550.

Construction

Inner Tube : Teflon® TUBE
Reinforcement : 304 stainless steel wire braid reinforcement

Application

Compressed gas, Fuel and lubricant handling, Steam transfer, Hydraulic Systems

Operating Temperature Range

- 54°C ~ 232°C for continuous service
- 65°C ~ 450°F

ST40 equivalent to SAE 100R14

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
ST40-04	4.8	3/16	7.7	-	20.5	82.0	50	105
ST40-05	6.4	1/4	9.5	-	20.5	82.0	75	120
ST40-06	7.9	5/16	11.0	-	17.0	68.0	100	150
ST40-10	12.7	1/2	16.1	-	12.0	48.0	165	215
ST40-12	15.9	5/8	19.4	-	10.5	42.0	191	285
ST40-16	22.2	7/8	26.2	-	7.0	28.0	230	430

Mid surge

Feature

N177 hose wears wire braid to build in machining tool.

Construction

Inner Tube : Nylon
Reinforcement : Polyester yarn braid
Outer Cover : Wire braid

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

N177 Mid surge / Thermo Plastic

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
N177-04	6.3	1/4	11.4	1Y/B	10.5	59.0	35	150
N177-06	9.5	3/8	15.0	1Y/B	10.5	59.0	50	200
N177-08	12.7	1/2	19.0	1Y/B	10.5	59.0	75	330

Feature

Reinforcement is implemented Aramid yarn braid.
It enhanced flexibility by 50% and lighten weight by 30% compared to conventional jack hose.
Surge pressures higher than the maximum operating pressure will shorten hose life.

Construction

Inner Tube : Oil hesitance synthetic rubber
Reinforcement : High-tensile steel wire and Aramid yarn
Outer Cover : Abrasion & weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

New AJ for Jack

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
NAJ700 6	6.3	1/4	15.8	1A/B + 1W/B	70	140	100	300
NAJ700 9	9.5	3/8	19.7	1A/B + 1W/B	70	140	120	440
NAJ700 12	12.7	1/2	23.6	1A/B + 1W/B	70	140	140	550

Feature

AJ hose series endurance up to 68.6MPa(700kg/cm²) through 98.0MPa(1000kg/cm²).
Cubic expansion is small because pressure is transferred swiftly, precisely, and light weight.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : Wire braid
Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

AJ for Jack

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
AJ700 5	4.8	3/16	13.2	2W/B	68.6	137.3	80	350
AJ700 6	6.3	1/4	15.7	2W/B	68.6	137.3	100	430
AJ700 9	9.5	3/8	19.4	2W/B	68.6	137.3	130	620
AJ700 12	12.7	1/2	23.8	2W/B	68.6	137.3	160	920
AJ1000 5	4.8	3/16	13.2	2W/B	98.0	196.0	80	350
AJ1000 6	6.3	1/4	15.7	2W/B	98.0	196.0	100	430
AJ1000 9	9.5	3/8	19.4	2W/B	98.0	196.0	130	620

I

Hose

Heat resistance

Feature

As a result of improvement of the quality of the inside and outside rubbers, the heat resistance performance was much improved. The maximum temperature for the use of the HW series now reaches at 150°C. The life expectancy of the HW series has been also improved at the 120°C.

Construction

Inner Tube : heat resistance, oil-resistant synthetic rubber
Reinforcement : High tension copper wire
Outer Cover : Heat-resistant acrylic, Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 150°C -40 ~ 302°F

LHW for Heat resistance

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
LHW 6	6.3	1/4	13.5	1W/B	3.5	14.0	60	220
LHW 9	9.5	3/8	16.8	1W/B	3.5	14.0	80	300
LHW 12	12.7	1/2	20.2	1W/B	3.5	14.0	90	430
LHW 15	15.9	5/8	23.3	1W/B	3.5	14.0	120	500
LHW 19	19.0	3/4	26.8	1W/B	3.5	14.0	140	645
LHW 25	25.4	1	32.8	1W/B	3.5	14.0	190	690
LHW 32	31.8	1 1/4	40.5	1W/B	3.5	14.0	230	930
LHW 38	38.1	1 1/2	47.5	1W/B	3.5	14.0	290	1,160
LHW 50	50.4	2	61.1	2W/B	3.5	14.0	370	1,790

Low-mid pressure range

Feature

Low-mid pressure range hose for High temperature resistant.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : Rayon
Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-30 ~ 120°C -30 ~ 248°F

SPOIL for Low-Mid pressure

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
SPOIL 9	9.5	3/8	19.0	2Y/S	1.0	3.9	115	260
SPOIL 12	12.7	1/2	22.5	2Y/S	1.0	3.9	135	370
SPOIL 19	19.0	3/4	31.0	2Y/S	1.0	3.9	185	640



Hose

Low pressure

Feature

We recommend Hi-Mid hose series for low pressure of inner diameter 6 to 25.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : Synthetic fiber
Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

HI-MID for Low pressure

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
HI-MID 6	6.3	1/4	13.8	2Y/S	1.5	6.0	100	150
HI-MID 9	9.5	3/8	17.0	2Y/S	1.5	6.0	120	200
HI-MID 12	12.7	1/2	20.5	2Y/S	1.5	6.0	150	260
HI-MID 19	19.0	3/4	27.5	1Y/B	1.0	4.0	210	390
HI-MID 25	25.4	1	34.0	1Y/B	1.0	4.0	250	510

Large bore series

Feature

Large inner diameter rubber hose series

In general, inner diameter of hose for hydraulic line sufficiently up to 50mm ID.

This hose series was developed for limited usage of marine, ship design, steel work and aircraft up to 100mm ID.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : Wire braid
Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

N300N Large Bore

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
N300N 65	63.5	2 1/2	76.0	2W/B	5.0	25.0	660	2,780
N300N 75	76.2	3	89.0	2W/B	3.0	15.0	800	3,180
N300N 100	101.6	4	117.5	3W/B	3.0	15.0	950	5,400

Feature

Large inner diameter rubber hose series

In general, inner diameter of hose for hydraulic line sufficiently up to 50mm ID.

This hose series was developed for limited usage of marine, ship design, steel work and aircraft up to 100mm ID.

Construction

Inner Tube : Oil resistance synthetic rubber
Reinforcement : Spiral wire
Outer Cover : Weather-resistant synthetic rubber

Application

Hydraulic oil

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

SP210 Large Bore

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
SP210 65	63.5	2 1/2	87.0	6W/S	20.5	82.0	600	9,200

Feature

Large inner diameter rubber hose series

In general, inner diameter of hose for hydraulic line sufficiently up to 50mm ID.

This hose series was developed for limited usage of marine, ship design, steel work and aircraft up to 100mm ID.

Construction

Inner Tube : Oil resistance synthetic rubber

Reinforcement : Spiral wire

Outer Cover : Abrasion & weather-resistant synthetic rubber.

Application

Mineral oil

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

SP350 Large Bore

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
SP350 65	63.5	2 1/2	87.0	6W/S	34.5	103.5	600	9,200

Feature

Large inner diameter rubber hose series

In general, inner diameter of hose for hydraulic line sufficiently up to 50mm ID.

This hose series was developed for limited usage of marine, ship design, steel work and aircraft up to 100mm ID.

Construction

Inner Tube : Oil resistance synthetic rubber

Reinforcement : Wire braid

Outer Cover : Yarn braid

Application

Mineral oil

Operating Temperature Range

-40 ~ 93°C -40 ~ 199°F

WSR5 Large Bore

Hose Brand	Inner Diameter		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
	(mm)	(Inch)						
WSR5-40	60.3	2 1/2	73.0	1W/B	2.4	9.7	610	2,210
WSR5-48	76.2	3	90.5	1W/B	1.4	5.5	840	3,040



Quick and easy assembly

Feature

Quick and easy assembly: Only cut a hose to the required length and insert fitting (WS18 Stockless Reusable fitting) after lubricating it. Special hose insertion tool is available.)

Fittings can be reusable. All fittings are reusable. Even if a hose is damaged, the metal fittings can be reused unless there is a deformation or flaw on them.

Reduce inventory: As the hoses can be assembled easily, there is no need to stock hose assemblies of a specific length and fittings.

You can stock hoses and fittings separately and can reduce inventory.

We have Black, Blue, Green and Red color. You can change hose at application line.

(-12 only Black color)

Construction

Inner Tube : Oil resistance synthetic rubber

Reinforcement : High-tensile steel wire

Outer Cover : weather-resistant synthetic rubber

Application

General-use working oil, lubrication oil, fuel oil, and air.

Operating Temperature Range

-40 °C ~ 93 °C (Oil), ~ 70 °C (Air), ~ 60 °C (Water)

-40 °C ~ 199 °F (Oil), ~ 158 °F (Air), ~ 140 °F (Water)

WS18Z socket less hose

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
WS18Z-04	6.3	1/4	12.7	1Y/B	1.8	7.0	76	120
WS18Z-06	9.5	3/8	15.9	1Y/B	1.8	7.0	76	160
WS18Z-08	12.7	1/2	19.0	1Y/B	1.8	7.0	127	220
WS18Z-12	19.0	3/4	26.2	1Y/B	1.8	7.0	178	340

Thermoplastic Hose High Pressure Water

Feature

Designed for high pressure cleaning hose built into coin car washing machine and portable washers and cleaners.

Construction

Inner Tube : Water resistant thermo plastics.

Reinforcement : Polyester fiber

Outer Cover : Abrasion resistance polyurethane

Application

High pressure water

Operating Temperature Range

-40 ~ 80°C -40 ~ 176°F

NHW for high pressure water

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
NHW 9	9.5	3/8	17.0	1Y/B	13.7	-	50	150



Hose

Thermoplastic

Feature

i-bar hose was developed to minimize kink. Easy to build compact lay-line.

High abrasion resistance of outer cover reduced by 1/5 to 1/3 compared to current product and guarantee long service life.

NN173 hose series are implemented polyester elastomer for outer cover and inner tube.

It enhance flexibility and cold resistance up to -55°C

Construction

Inner Tube : Polyreser elastomer

Reinforcement : Polyester yarn braid

Outer Cover : Polyreser elastomer

Application

Hydraulic oil

Operating Temperature Range

NV105 : -40 ~ 100°C (up ~ 60°C when using water)

-40 ~ 212°F (up ~ 140°F when using water)

NV210 : -40 ~ 100°C (up ~ 60°C when using water)

-40 ~ 212°F (up ~ 140°F when using water)

NN173 : -55 ~ 100°C (up ~ 60°C when using water)

-67 ~ 212°F (up ~ 140°F when using water)

NV105

Hose Brand	 Inner Diameter		 Outer Diameter	 Reinforcement	 Maximum Working Pressure (Mpa)	 Minimum Burst Pressure (Mpa)	 Minimum Bend Radius (mm)	 Weight Per Meter (g)
	(mm)	(Inch)						
NV105 6	6.3	1/4	11.0	1Y/B	10.5	42.0	40	70
NV105 9	9.5	3/8	14.5	1Y/B	10.5	42.0	50	110
NV105 12	12.7	1/2	18.3	1Y/B	10.5	42.0	60	180

NV210

Hose Brand	 Inner Diameter		 Outer Diameter	 Reinforcement	 Maximum Working Pressure (Mpa)	 Minimum Burst Pressure (Mpa)	 Minimum Bend Radius (mm)	 Weight Per Meter (g)
	(mm)	(Inch)						
NV210 6	6.3	1/4	13.4	2Y/B	20.6	82.4	50	130
NV210 9	9.5	3/8	17.6	2Y/B	20.6	82.4	65	200
NV210 12	12.7	1/2	21.4	2Y/B	20.6	82.4	80	250

NN173

Hose Brand	 Inner Diameter		 Outer Diameter	 Reinforcement	 Maximum Working Pressure (Mpa)	 Minimum Burst Pressure (Mpa)	 Minimum Bend Radius (mm)	 Weight Per Meter (g)
	(mm)	(Inch)						
NN173-04	6.3	1/4	12.6	1Y/B	19.0	76.0	30	110
NN173-06	9.5	3/8	16.0	1Y/B	15.5	62.0	50	140
NN173-08	12.7	1/2	19.8	1Y/B	13.5	54.0	60	200

Water and hot water (not available for use with oil)

Feature

Only insert a hose into a fitting and then you can use the assembly.
No need for band tightening or clamping. Usable with up to 120°C hot water.

Construction

Inner Tube : Heat-resistant synthetic rubber
Reinforcement : Special synthetic fiber
Outer Cover : Heat-resistant synthetic rubber

Application

Water and hot water (not available for use with oil)

Operating Temperature Range

Max 120°C Max 248°F

HTW10 water and hot water

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
HTW10-04	6.3	1/4	12.7	1Y/B	1.0	4.0	76	120
HTW10-06	9.5	3/8	15.9	1Y/B	1.0	4.0	76	150
HTW10-08	12.7	1/2	19.5	1Y/B	1.0	4.0	127	225

Heat resistance Reusable Fitting / High Temperature steam

Feature

Superior high pressure and high temperature resistance.
Operating limit temperature is up to 210°C continuously and 250°C intermittently superior tube material for resistance to damp.

Construction

Inner Tube : Heat resistance synthetic rubber
Reinforcement : High tensile steel Yarn braid
Outer Cover : Heat resistance synthetic rubber

Application

High temperature steam

Operating Temperature Range

Up ~ 210°C continuously and 250°C intermittently.
Do not use for other fluid except steam.
Up ~ 410°F continuously and 482°F intermittently.
Do not use for other fluid except steam.

UP STEAM for high temp steam

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
USTEMN 12	12.7	1/2	26.5	1W/B × 1Y/B	1.8	220	650	120
USTEMT 19	19.0	3/4	33.0	1W/B × 1Y/B	1.8	270	950	150
USTEMN 25	25.4	1	41.5	1W/B × 1Y/B	1.8	340	1,300	120
USTEMN 32	31.8	1 1/4	48.0	1W/B × 1Y/B	1.8	400	1,500	150
USTEMN 38	38.1	1 1/2	54.5	1W/B × 1Y/B	1.8	450	1,800	120
USTEMN 50	50.8	2	67.0	1W/B × 1Y/B	1.8	550	2,250	150



Hose

Paint solvent (hydrocarbon, ester, ketone, alcohol and ether)

Feature

Implement nylon inner tube resistant to solvent used for paint material.
 Implement vinyl chloride outer cover resistant to abrasion.
 Conductive type to prevent static electricity caused by flammable solvent.
 1000 hours endurance test passed.

Construction

Inner Tube : Nylon
 Reinforcement : High-tensile steel wire
 Outer Cover : vinyl chloride

Application

Paint solvent (hydrocarbon, ester, ketene, alcohol and ether)

Operating Temperature Range

-20 ~ 80°C -4 ~ 176°F

N191 for paint solvent

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
N191 5	4.8	3/16	10.0	1W/B	20.6	68.5	30	120
N191 6	6.1	1/4	11.4	1W/B	20.6	68.5	35	140
N191 9	9.5	3/8	15.0	1W/B	20.6	68.5	50	230

HWBF(High Water Base Fluid), Water oil Emulsion type, Soluble type and hydraulic oil

Feature

Pricking processes for easy permeation of water vapor 800,000 cycles impulse test is cleared exceeding JIS specification Special fitting is available.

HWBF : High water base fluid.

Fitting standard material is mild steel plated black or Nickel Stainless steel material is available.

Construction

Inner Tube : Oil resistance synthetic rubber
 Reinforcement : Wire braid
 Outer Cover : Wire spiral
 Weather-resistant synthetic rubber

Application

HWBF, Water oil Emulsion type, Soluble type and hydraulic oil

Operating Temperature Range

5 ~ 60°C
 -40 ~ 100°C for hydraulic oil
 5 ~ 140°F
 -40 ~ 212°F for hydraulic oil

UP STEAM for high temp steam

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
G210 6	6.4	1/4	17.5	2W/B + 1Y/B	20.5	102.5	100	500
G210 9	9.5	3/8	21.5	2W/B + 1Y/B	20.5	102.5	130	700
G210 12	12.7	1/2	28.0	1W/B + 4W/S + 1Y/B	20.5	102.5	160	1,250
G210 19	19.0	3/4	35.0	1W/B + 4W/S + 1Y/B	20.5	102.5	250	1,750
G210 25	25.4	1	41.0	1W/B + 4W/S + 1Y/B	20.5	102.5	310	2,250
G210 32	31.8	1-1/4	48.0	1W/B + 4W/S + 1Y/B	20.5	102.5	350	3,000
G210 38	38.1	1-1/2	58.0	1W/B + 6W/S + 1Y/B	20.5	102.5	450	4,700
G210 50	50.8	2	73.5	1W/B + 6W/S + 1Y/B	20.5	102.5	580	7,400

Phosphate esters hydraulic oil (not available for use with hydraulic oil)

Feature

Used for Phosphate esters hydraulic oil as fire resistant hose.
We recommend G210 hose series for HWBF Glass wool wearied on P210 hose is recommended when used under high ambient temperature, 100°C more.

Construction

Inner Tube : Phosphate esters hydraulic synthetic rubber
Reinforcement : Wire braid, Wire spiral
Outer Cover : Weather-resistant synthetic rubber

Application

Phosphate esters hydraulic oil

Operating Temperature Range

-30 ~ 100°C (Do not use hydraulic oil)
-22 ~ 212°F (Do not use hydraulic oil)

P210 for phosphate esters

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
P210 6	6.4	1/4	14.8	2W/B	20.5	102.5	100	350
P210 9	9.5	3/8	18.8	2W/B	20.5	102.5	130	500
P210 12	12.7	1/2	22.0	2W/B	20.5	102.5	160	700
P210 19	19.0	3/4	33.5	4W/S	20.5	102.5	250	1,600
P210 25	25.4	1	40.0	4W/S	20.5	102.5	310	2,000
P210 32	31.8	1 1/4	50.0	6W/S	20.5	102.5	350	3,900
P210 38	38.1	1 1/2	57.0	6W/S	20.5	102.5	450	4,100
P210 50	50.8	2	73.0	6W/S	20.5	102.5	580	7,500



I

Hose

Rolling lubricant oil (Roll Coolant)

Feature

The cover rubber is made of oil-resistance material as well. Even the outside of the hose is poured by the rolling lubricant oil, the rubber material is sufficiently resistant for regular use.

The hose is very hard to be smashed. At the same time it has a quality of being flexible. Consequently the hose is found convenient in a narrow space.

Construction

Inner Tube : oil-resistant synthetic rubber
Reinforcement : wire braid Wire spiral
Outer Cover : oil resistant, oil-resistant synthetic rubber

Application

Rolling lubricant oil(Roll Coolant system)

Operating Temperature Range

-40 ~ 100°C -40 ~ 212°F

RC205 for roll coolant

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
RC205 6	6.3	1/4	13.5	2W/B	20.5	82.0	70	300
RC205 9	9.5	3/8	16.7	2W/B	20.5	82.0	90	390
RC205 12	12.7	1/2	20.2	2W/B	20.5	82.0	110	520
RC205 19	19.0	3/4	28.8	2W/B	20.5	82.0	170	970
RC205 25	25.4	1	36.0	4W/S	20.5	82.0	220	1,450
RC205 32	31.8	1 1/4	44.4	4W/S	20.5	82.0	280	2,200
RC205 38	38.1	1 1/2	51.5	4W/S	20.5	82.0	330	2,870
RC205 50	50.8	2	66.0	4W/S	20.5	82.0	430	4,700

RC35N for roll coolant

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Burst Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
RC35N 50	50.8	2	61.1	2W/B	3.5	14.0	300	2,060
RC35N 65	63.5	2 1/2	76.0	2W/B	3.5	14.0	660	2,780
RC35N 75	76.2	3	95.0	3W/B	3.5	14.0	800	5,400

Feature

This hose is exclusively to transfer of water and cement milk for soil improvement, strength rock mass, dam and tunnel construction. Improved abrasion resistance to prevent rubbing makes longer product-life cycle.

Construction

Inner Tube : Abrasion resistance and water proof synthetic rubber
 Reinforcement : Wire braid
 Outer Cover : Abrasion resistance synthetic rubber

Application

Water and cement milk

Operating Temperature Range

5 ~ 60°C (Do not use hydraulic oil)
 41 ~ 140°F (Do not use hydraulic oil)

GT70 for water and grout

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
GT70 12	12.7	1/2	19.9	1W/B	7.0	80	330
GT70 25	25.4	1	33.2	1W/B	7.0	150	690
GT70 32	31.8	1 1/4	41.0	1W/B	7.0	190	960
GT70 38	38.1	1 1/2	48.0	1W/B	7.0	230	1,160
GT70 50	50.8	2	63.0	2W/B	7.0	300	2,020

GT140 for water and grout

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
GT140 19	19.0	3/4	27.2	1W/B	14.0	140	640
GT140 25	25.4	1	34.8	2W/B	14.0	190	1,100
GT140 32	31.8	1 1/4	41.3	2W/B	14.0	240	1,340
GT140 38	38.1	1 1/2	47.8	2W/B	14.0	290	1,470
GT140 50	50.8	2	61.1	2W/B	14.0	370	2,060

GT205 for water and grout

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
GT205 12	12.7	1/2	20.8	1W/B	20.5	90	400
GT205 19	19.0	3/4	28.0	2W/B	20.5	140	820
GT205 25	25.4	1	34.8	2W/B	20.5	190	1,100
GT205 32	31.8	1 1/4	41.3	2W/B	20.5	240	1,340
GT205 38	38.1	1 1/2	48.8	2W/B	20.5	330	1,640

GT410 for water and grout

Hose Brand	Inner Diameter (mm) (Inch)		Outer Diameter (mm)	Reinforcement	Maximum Working Pressure (Mpa)	Minimum Bend Radius (mm)	Weight Per Meter (g)
GT410 19	19.0	3/4	29.2	2W/B	41.0	160	1,020



Fitting

Product Line Up

Fitting

1001 / 1002 / 1004 / 1005

6012 / 6013 / 6028 / 6128 / 6228

HSF45 / HSF90 / HSFST

METST / ML45 / ML90

SHA45 / SHA90 / SHALS / SHAST

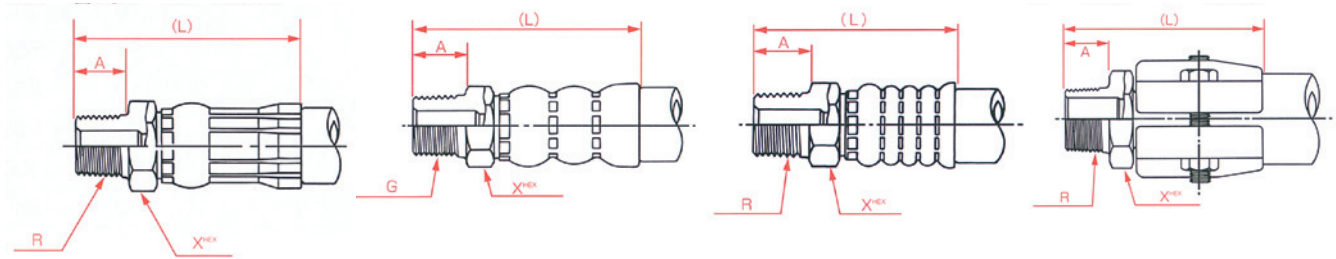
SSF45 / SSF90 / SSFST



YRC reserves the right to modify any data. Eventual and any kind of modifications can be carried out without any notice.
For more details on the hose shown in this catalog and their application, please be advised to contact your YRC customer service listed above.

1001

JIS BSP Male Tapered ISO07 / JIS B8363



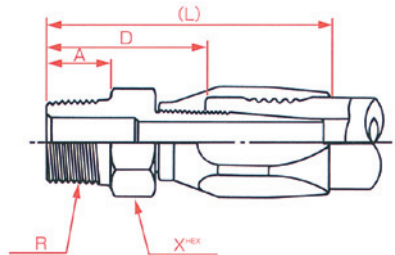
Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	X (mm)	L (mm)	Weight (g)
1001	6	-04	1/4	R (BSP/PT)	OMB10F,15F,20F,25F	-	4.0	13	-	17	51	60
1001	9	-06	3/8	R (BSP/PT)	OMB10F,15F,20F,25F	-	6.5	15	-	19	55	80
1001	12	-08	1/2	R (BSP/PT)	OMB10F,15F,20F,25F	-	9.5	18	-	22	63	130
1001	15	-10	5/8	R (BSP/PT)	OMB10F,15F,20F,25F	-	12.0	20	-	30	79	220
1001	19	-12	3/4	R (BSP/PT)	OMB10F,15F,20F,25F	-	15.0	20	-	30	85	270
1001	25	-16	1	R (BSP/PT)	OMB10F,15F,20F,25F	-	20.5	22	-	36	94	440
1001	32	-20	1 1/4	R (BSP/PT)	OMB10,15,20	-	25.5	25	-	46	115	810
1001	38	-24	1 1/2	R (BSP/PT)	OMB10,15,20	-	32.0	25	-	50	135	1,075
1001	50	-32	2	R (BSP/PT)	OMB10,15,20	-	43.0	29	-	65	156	2,140
1001	6	-04	1/4	R (BSP/PT)	NWP35,70,105,140,175,210	-	4.0	13	-	17	50	60
1001	9	-06	3/8	R (BSP/PT)	NWP35,70,105,140,175,210	-	6.5	15	-	19	54	80
1001	12	-08	1/2	R (BSP/PT)	NWP35,70,105,140,175,210	-	9.5	18	-	22	62	130
1001	15	-10	5/8	R (BSP/PT)	NWP35,70,105,140,175,210	-	12.0	20	-	30	78	220
1001	19	-12	3/4	R (BSP/PT)	NWP35,70,105,140,175,210	-	15.0	20	-	30	85	270
1001	25	-16	1	R (BSP/PT)	NWP35,70,105,140,175,210	-	20.5	22	-	36	94	440
1001	32	-20	1 1/4	R (BSP/PT)	NWP35,70,105,140,175,210	-	25.5	25	-	46	115	810
1001	38	-32	1 1/2	R (BSP/PT)	NWP35,70,105,140,175,210	-	32.0	25	-	50	135	1,075
1001	50	-32	2	R (BSP/PT)	NWP35,70,105,140,175,210	-	43.0	29	-	65	156	2,140
1001	32	-20	1 1/4	R (BSP/PT)	NWP35,70(φ32,38,50)	-	27.5	25	-	46	103	665
1001	38	-32	1 1/2	R (BSP/PT)	NWP35,70(φ32,38,50)	-	32.5	25	-	50	111	860
1001	50	-32	2	R (BSP/PT)	NWP35,70(φ32,38,50)	-	44.0	29	-	65	123	1,420
1001	6	-04	1/4	R (BSP/PT)	YFH175,210	-	4.0	13	-	17	50	60
1001	9	-06	3/8	R (BSP/PT)	YFH175,210	-	6.5	15	-	19	54	80
1001	12	-08	1/2	R (BSP/PT)	YFH175,210	-	9.5	18	-	22	62	130
1001	15	-10	5/8	R (BSP/PT)	YFH175,210	-	13.2	20	-	30	66	220
1001	6	-04	1/4	R (BSP/PT)	YPH6,9	-	4.0	13	-	17	51	43
1001	9	-06	3/8	R (BSP/PT)	YPH6,9	-	6.5	15	-	19	53	60
1001	6	-04	1/4	R (BSP/PT)	AX21	-	4.0	13	-	17	50	60
1001	9	-06	3/8	R (BSP/PT)	AX21	-	6.5	15	-	19	54	80
1001	12	-08	1/2	R (BSP/PT)	AX21	-	9.5	18	-	22	62	130
1001	19	-12	3/4	R (BSP/PT)	AX21	-	13.2	20	-	30	66	220
1001	TFC	6	-04	R (BSP/PT)	ST40	-	4.5	13	-	17	43	35
1001	TFC	8	-05	R (BSP/PT)	ST40	-	4.5	13	-	17	43	37
1001	TFC	9	-06	R (BSP/PT)	ST40	-	7.0	15	-	19	48	54
1001	TFC	15	-10	R (BSP/PT)	ST40	-	10.0	18	-	27	58	106
1001	TFC	19	-12	R (BSP/PT)	ST40	-	16.0	20	-	30	68	158
1001	TFC	25	-16	R (BSP/PT)	ST40	-	21.5	22	-	36	77	297
1001		5	-03	R (BSP/PT)	AJ700	-	2.5	13	-	36	77	297

Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	X (mm)	L (mm)	Weight (g)
1001		5	-03	3/16	R (BSP/PT)	AJ700	-	2.5	15	-	17	57	100
1001		6	-04	1/4	R (BSP/PT)	AJ700	-	4.0	15	-	19	59	
1001		9	-06	3/8	R (BSP/PT)	AJ700	-	6.5	15	-	19	52	70
1001		12	-08	1/2	R (BSP/PT)	AJ700	-	9.5	18	-	19	54	80
1001		6	-04	1/4	R (BSP/PT)	AJ1000	-	4.0	15	-	22	62	135
1001		9	-06	3/8	R (BSP/PT)	AJ1000	-	6.5	15	-	22	59	90
1001		6	-04	1/4	R (BSP/PT)	NAJ700	-	4.0	13	-	22	70	145
1001		9	-06	3/8	R (BSP/PT)	NAJ700	-	6.5	15	-	17	55	60
1001		12	-08	1/2	R (BSP/PT)	NAJ700	-	9.5	18	-	19	60	80
1001		6	-04	1/4	R (BSP/PT)	G210	-	4.0	13	-	22	70	150
1001		9	-06	3/8	R (BSP/PT)	G210	-	6.5	15	-	17	50	60
1001		12	-08	1/2	R (BSP/PT)	G210	-	9.5	18	-	19	54	80
1001		19	-12	3/4	R (BSP/PT)	G210	-	15.0	20	-	22	70	240
1001		25	-16	1	R (BSP/PT)	G210	-	20.5	22	-	30	85	460
1001		32	-20	1 1/4	R (BSP/PT)	G210	-	25.5	25	-	36	94	510
1001		38	-24	1 1/2	R (BSP/PT)	G210	-	32.0	25	-	46	115	810
1001		50	-32	2	R (BSP/PT)	G210	-	43.0	29	-	50	135	1,075
1001		6	-04	1/4	R (BSP/PT)	P210	-	4.0	13	-	65	157	2,140
1001		9	-06	3/8	R (BSP/PT)	P210	-	6.5	15	-	17	50	60
1001		12	-08	1/2	R (BSP/PT)	P210	-	9.5	18	-	19	54	80
1001		19	-12	3/4	R (BSP/PT)	P210	-	15.0	20	-	22	62	130
1001		25	-16	1	R (BSP/PT)	P210	-	20.5	22	-	30	85	300
1001		32	-20	1 1/4	R (BSP/PT)	P210	-	25.5	25	-	36	94	470
1001		38	-24	1 1/2	R (BSP/PT)	P210	-	32.0	25	-	50	140	1,020
1001		50	-32	2	R (BSP/PT)	P210	-	43.0	30	-	50	155	1,570
1001		6	-04	1/4	R (BSP/PT)	RC205	-	4.0	13	-	70	182	2,810
1001		9	-06	3/8	R (BSP/PT)	RC205	-	6.5	15	-	17	50	60
1001		12	-08	1/2	R (BSP/PT)	RC205	-	9.5	18	-	19	54	80
1001		19	-12	3/4	R (BSP/PT)	RC205	-	15.0	20	-	22	62	135
1001		25	-16	1	R (BSP/PT)	RC205	-	20.5	22	-	30	85	270
1001		32	-20	1 1/4	R (BSP/PT)	RC205	-	25.5	25	-	36	94	440
1001		38	-24	1 1/2	R (BSP/PT)	RC205	-	32.0	25	-	46	115	810
1001		50	-32	2	R (BSP/PT)	RC205	-	43.0	29	-	50	135	1,075
1001		6	-04	1/4	R (BSP/PT)	LHW	-	4.0	13	-	65	156	2,140
1001		9	-06	3/8	R (BSP/PT)	LHW	-	6.5	15	-	17	50	60
1001		12	-08	1/2	R (BSP/PT)	LHW	-	9.5	18	-	19	54	80
1001		15	-10	5/8	R (BSP/PT)	LHW	-	12.0	20	-	22	62	130
1001		19	-12	3/4	R (BSP/PT)	LHW	-	15.0	20	-	30	78	220
1001		25	-16	1	R (BSP/PT)	LHW	-	20.5	22	-	30	89	270
1001		32	-20	1 1/4	R (BSP/PT)	LHW	-	27.5	25	-	36	99	440
1001		38	-24	1 1/2	R (BSP/PT)	LHW	-	32.5	25	-	50	103	665
1001		50	-32	2	R (BSP/PT)	LHW	-	44.0	29	-	60	111	860
1001	GAC	6	-04	1/4	R (BSP/PT)	L35	-	4.0	13	-	70	123	1,420
1001	GAC	9	-06	3/8	R (BSP/PT)	L35	-	6.5	15	-	17	50	50
1001	GAC	12	-08	1/2	R (BSP/PT)	L35	-	9.5	18	-	19	54	70
1001	GAC	19	-12	3/4	R (BSP/PT)	L35 ※Crimping shape	-	15.0	20	-	22	62	105
1001	GAC	25	-16	1	R (BSP/PT)	L35 ※Crimping shape	-	20.5	22	-	36	94	350
1001		9	-06	3/8	R (BSP/PT)	SP OIL	-	6.5	15	-	22	53	80
1001		12	-08	1/2	R (BSP/PT)	SP OIL	-	9.5	18	-	27	59	115
1001		19	-12	3/4	R (BSP/PT)	SP OIL	-	15.5	20	-	36	74	240
1001	GAC	6	-04	1/4	R (BSP/PT)	HI-MID	-	4.0	13	-	17	50	50
1001	GAC	9	-06	3/8	R (BSP/PT)	HI-MID	-	6.5	15	-	19	54	70

Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	X (mm)	L (mm)	Weight (g)
1001	GAC	12	-08	1/2	R (BSP/PT)	HI-MID	-	9.5	18	-	22	62	105
1001	GAC	19	-12	3/4	R (BSP/PT)	HI-MID ※Crimping shape	-	15.0	20	-	30	85	230
1001	GAC	25	-16	1	R (BSP/PT)	HI-MID ※Crimping shape	-	20.5	22	-	36	94	350
1001		12	-08	1/2	R (BSP/PT)	UP STEAM	-	10.0	18	-	27	71	450
1001		19	-12	3/4	R (BSP/PT)	UP STEAM	-	15.5	20	-	36	85	610
1001		25	-16	1	R (BSP/PT)	UP STEAM	-	21.5	22	-	41	99	950
1001		32	-20	1 1/4	R (BSP/PT)	UP STEAM	-	27.0	25	-	50	114	1,250
1001		38	-24	1 1/2	R (BSP/PT)	UP STEAM	-	33.0	25	-	60	118	1,800
1001		50	-32	2	R (BSP/PT)	UP STEAM	-	44.0	30	-	70	136	2,550

1001

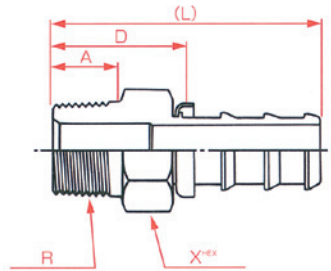
JIS BSP Male Tapered ISO07/JIS B8363



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	X (mm)	L (mm)	Weight (g)
1001	AMR	6	-04	1/4	R (BSP/PT)	WSR5Z	-05	4.3	13	32	52	17	70
1001	AMR	9	-06	3/8	R (BSP/PT)	WSR5Z	-06	6.0	15	36	59	19	85
1001	AMR	15	-10	1/2	R (BSP/PT)	WSR5Z	-10	10.0	18	43	76	22	125
1001	AMR	19	-12	3/4	R (BSP/PT)	WSR5Z	-12	14.0	20	48	88	30	265
1001	AMR	25	-16	1	R (BSP/PT)	WSR5Z	-16	20.5	22	49	82	36	360
1001	AMR	32	-20	1 1/4	R (BSP/PT)	WSR5Z	-20	26.5	25	56	90	46	560
1001	AMR	38	-24	1 1/2	R (BSP/PT)	WSR5Z	-24	32.5	25	56	93	50	620
1001	AHR	6	-04	1/4	R (BSP/PT)	WSR2Z	-04	4.3	13	34	66	17	105
1001	AHR	9	-06	3/8	R (BSP/PT)	WSR2Z	-06	7.0	15	37	75	19	160
1001	AHR	12	-08	1/2	R (BSP/PT)	WSR2Z	-08	9.8	18	42	81	22	250
1001	AHR	19	-12	3/4	R (BSP/PT)	WSR2Z	-12	15.5	20	50	98	30	430
1001	AHR	25	-16	1	R (BSP/PT)	WSR2Z	-16	20.5	22	63	115	36	730
1001	AHR	32	-20	1 1/4	R (BSP/PT)	WSR2Z	-20	26.5	25	74	133	46	1,250
1001	AHR	38	-24	1 1/2	R (BSP/PT)	WSR2Z	-24	32.5	25	74	131	50	1,420
1001	AAR	19	-12	3/4	R (BSP/PT)	WSR9Z	-12	15.5	20	50	98	30	430
1001	AAR	25	-16	1	R (BSP/PT)	WSR9Z	-16	20.5	22	63	115	36	730

1001

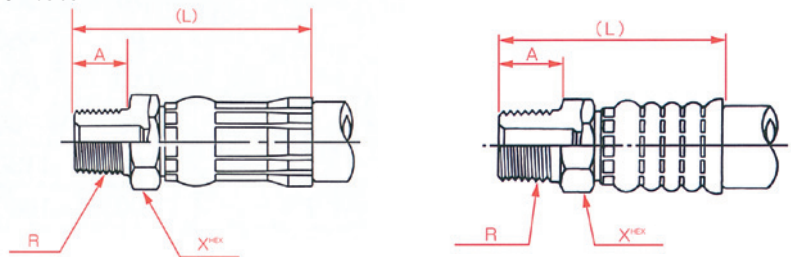
JIS BSP Male Tapered ISO07/JIS B8363



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	X (mm)	L (mm)	Weight (g)
1001	LAR	6	-04	1/4	R (BSP/PT)	HTW10	-04	4.3	13	21	40	14	35
1001	LAR	9	-06	3/8	R (BSP/PT)	HTW10	-06	7.4	15	24	46	17	40
1001	LAR	12	-08	1/2	R (BSP/PT)	HTW10	-08	9.8	18	28	54	22	80
1001	LAR	6	-04	1/4	R (BSP/PT)	WS18Z	-04	4.3	13	21	40	14	35
1001	LAR	9	-06	3/8	R (BSP/PT)	WS18Z	-06	7.4	15	24	46	17	40
1001	LAR	12	-08	1/2	R (BSP/PT)	WS18Z	-08	9.8	18	28	54	22	80
1001	LAR	19	-12	3/4	R (BSP/PT)	WS18Z	-12	15.0	20	36	75	30	100

1001

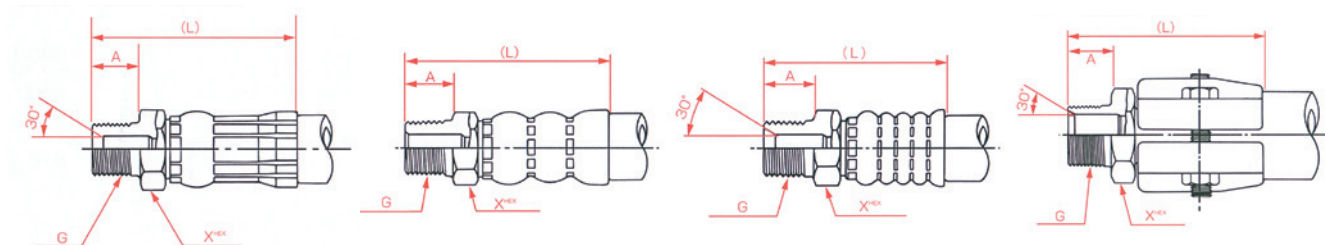
JIS BSP Male Tapered ISO07/JIS B8363



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	X (mm)	L (mm)	Weight (g)
1001	NFC	6	-04	1/4	R (BSP/PT)	NV210,NN173	-05	4.3	13	32	52	17	70
1001	NFC	9	-06	3/8	R (BSP/PT)	NV210,NN173	-06	6.0	15	36	59	19	85
1001	NFC	12	-08	1/2	R (BSP/PT)	NV210,NN173	-10	10.0	18	43	76	22	125
1001	NBC	6	-04	1/4	R (BSP/PT)	NV105	-12	14.0	20	48	88	30	265
1001	NBC	9	-06	3/8	R (BSP/PT)	NV105	-16	20.5	22	49	82	36	360
1001	NBC	12	-08	1/2	R (BSP/PT)	NV105	-20	26.5	25	56	90	46	560
1001	NBC	3	-02	1/8	R (BSP/PT)	N173(-02,-03,-12), N177(-04,-06,-08)	-24	32.5	25	56	93	50	620
1001	NBC	5	-03	3/16	R (BSP/PT)	N173(-02,-03,-12), N177(-04,-06,-08)	-04	4.3	13	34	66	17	105
1001	NBC	6	-04	1/4	R (BSP/PT)	N173(-02,-03,-12), N177(-04,-06,-08)	-06	7.0	15	37	75	19	160
1001	NBC	9	-06	3/8	R (BSP/PT)	N173(-02,-03,-12), N177(-04,-06,-08)	-08	9.8	18	42	81	22	250
1001	NBC	12	-08	1/2	R (BSP/PT)	N173(-02,-03,-12), N177(-04,-06,-08)	-12	15.5	20	50	98	30	430
1001	NBC	19	-12	3/4	R (BSP/PT)	N173(-02,-03,-12), N177(-04,-06,-08)	-16	20.5	22	63	115	36	730
1001	NFC	9	-06	3/8	R (BSP/PT)	NHW	-20	26.5	25	74	133	46	1,250

1002

JIS BSP Parallel 60° Cone Seat BS5200 / ISO8434-6 / JIS B8363

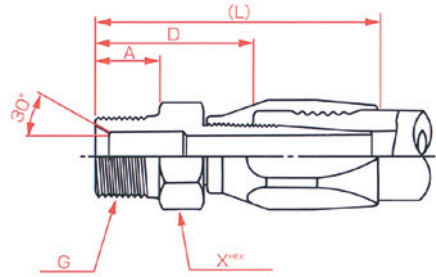


Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	X (mm)	L (mm)	Weight (g)
1002	6	-04	1/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	4.0	13	-	17	51	60
1002	9	-06	3/8	G (BSP/PF)	OMB10F,15F,20F,25F	-	6.5	15	-	19	55	80
1002	12	-08	1/2	G (BSP/PF)	OMB10F,15F,20F,25F	-	9.5	18	-	22	63	130
1002	15	-10	5/8	G (BSP/PF)	OMB10F,15F,20F,25F	-	12.0	20	-	30	79	220
1002	19	-12	3/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	15.0	20	-	30	85	270
1002	25	-16	1	G (BSP/PF)	OMB10F,15F,20F,25F	-	20.5	22	-	36	94	440
1002	32	-20	1 1/4	G (BSP/PF)	OMB10,15,20	-	25.5	25	-	46	115	810
1002	38	-24	1 1/2	G (BSP/PF)	OMB10,15,20	-	32.0	25	-	50	135	1,075
1002	50	-32	2	G (BSP/PF)	OMB10,15,20	-	43.0	29	-	65	156	2,140
1002	6	-04	1/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	4.0	13	-	17	50	60
1002	9	-06	3/8	G (BSP/PF)	NWP35,70,105,140,175,210	-	6.5	15	-	19	54	80
1002	12	-08	1/2	G (BSP/PF)	NWP35,70,105,140,175,210	-	9.5	18	-	22	62	130
1002	15	-10	5/8	G (BSP/PF)	NWP35,70,105,140,175,210	-	12.0	20	-	30	78	220
1002	19	-12	3/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	15.0	20	-	30	85	270
1002	25	-16	1	G (BSP/PF)	NWP35,70,105,140,175,210	-	20.5	22	-	36	94	440
1002	32	-20	1 1/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	25.5	25	-	46	115	810
1002	38	-24	1 1/2	G (BSP/PF)	NWP35,70,105,140,175,210	-	32.0	25	-	50	135	1,075
1002	50	-32	2	G (BSP/PF)	NWP35,70,105,140,175,210	-	43.0	29	-	65	156	2,140
1002	32	-20	1 1/4	G (BSP/PF)	NWP35,70(φ32,38,50)	-	27.5	25	-	46	103	665
1002	38	-24	1 1/2	G (BSP/PF)	NWP35,70(φ32,38,50)	-	32.5	25	-	50	111	860
1002	50	-32	2	G (BSP/PF)	NWP35,70(φ32,38,50)	-	44.0	29	-	65	123	1,420
1002	6	-04	1/4	G (BSP/PF)	YFH175,210	-	4.0	13	-	17	50	60
1002	9	-06	3/8	G (BSP/PF)	YFH175,210	-	6.5	15	-	19	54	80
1002	12	-08	1/2	G (BSP/PF)	YFH175,210	-	9.5	18	-	22	62	130
1002	15	-10	5/8	G (BSP/PF)	YFH175,210	-	13.2	20	-	30	66	220
1002	6	-04	1/4	G (BSP/PF)	YPH6,9	-	4.0	13	-	17	51	43
1002	9	-06	3/8	G (BSP/PF)	YPH6,9	-	6.5	15	-	19	53	60
1002	6	-04	1/4	G (BSP/PF)	AX21	-	4.0	13	-	17	50	60
1002	9	-06	3/8	G (BSP/PF)	AX21	-	6.5	15	-	19	54	80
1002	12	-08	1/2	G (BSP/PF)	AX21	-	9.5	18	-	22	62	130
1002	15	-10	5/8	G (BSP/PF)	AX21	-	13.2	20	-	30	66	220
1002	6	-04	1/4	G (BSP/PF)	G210	-	4.0	13	-	17	50	60
1002	9	-06	3/8	G (BSP/PF)	G210	-	6.5	15	-	19	54	80
1002	12	-08	1/2	G (BSP/PF)	G210	-	9.5	18	-	22	70	240
1002	19	-12	3/4	G (BSP/PF)	G210	-	15.0	20	-	30	85	460
1002	25	-16	1	G (BSP/PF)	G210	-	20.5	22	-	36	94	510
1002	32	-20	1 1/4	G (BSP/PF)	G210	-	25.5	25	-	46	115	810
1002	38	-24	1 1/2	G (BSP/PF)	G210	-	32.0	25	-	50	135	1,075
1002	50	-32	2	G (BSP/PF)	G210	-	43.0	29	-	65	157	2,140

Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	X (mm)	L (mm)	Weight (g)
1002		6	-04	1/4	G (BSP/PF)	P210	-	4.0	13	-	17	50	60
1002		9	-06	3/8	G (BSP/PF)	P210	-	6.5	15	-	19	54	80
1002		12	-08	1/2	G (BSP/PF)	P210	-	9.5	18	-	22	62	130
1002		19	-12	3/4	G (BSP/PF)	P210	-	15.0	20	-	30	85	300
1002		25	-16	1	G (BSP/PF)	P210	-	20.5	22	-	36	94	470
1002		32	-20	1 1/4	G (BSP/PF)	P210	-	25.5	25	-	50	140	1,020
1002		38	-24	1 1/2	G (BSP/PF)	P210	-	32.0	25	-	50	155	1,570
1002		50	-32	2	G (BSP/PF)	P210	-	43.0	30	-	70	182	2,810
1002		6	-04	1/4	G (BSP/PF)	RC205	-	4.0	13	-	17	50	60
1002		9	-06	3/8	G (BSP/PF)	RC205	-	6.5	15	-	19	54	80
1002		12	-08	1/2	G (BSP/PF)	RC205	-	9.5	18	-	22	62	135
1002		19	-12	3/4	G (BSP/PF)	RC205	-	15.0	20	-	30	85	270
1002		25	-16	1	G (BSP/PF)	RC205	-	20.5	22	-	36	94	440
1002		32	-20	1 1/4	G (BSP/PF)	RC205	-	25.5	25	-	46	115	810
1002		38	-24	1 1/2	G (BSP/PF)	RC205	-	32.0	25	-	50	135	1,075
1002		50	-32	2	G (BSP/PF)	RC205	-	43.0	29	-	65	156	2,140
1002		6	-04	1/4	G (BSP/PF)	LHW	-	4.0	13	-	17	50	60
1002		9	-06	3/8	G (BSP/PF)	LHW	-	6.5	15	-	19	54	80
1002		12	-08	1/2	G (BSP/PF)	LHW	-	9.5	18	-	22	62	130
1002		15	-10	5/8	G (BSP/PF)	LHW	-	12.0	20	-	30	78	220
1002		19	-12	3/4	G (BSP/PF)	LHW	-	15.0	20	-	30	89	270
1002		25	-16	1	G (BSP/PF)	LHW	-	20.5	22	-	36	99	440
1002		32	-20	1 1/4	G (BSP/PF)	LHW	-	27.5	25	-	50	103	665
1002		38	-24	1 1/2	G (BSP/PF)	LHW	-	32.5	25	-	60	111	860
1002		50	-32	2	G (BSP/PF)	LHW	-	44.0	29	-	70	123	1,420
1002	GAC	6	-04	1/4	G (BSP/PF)	L35,HIMID	-	4.0	13	-	17	50	50
1002	GAC	9	-06	3/8	G (BSP/PF)	L35,HIMID	-	6.5	15	-	19	54	70
1002	GAC	12	-08	1/2	G (BSP/PF)	L35,HIMID	-	9.5	18	-	22	62	105
1002	GAC	19	-12	3/4	G (BSP/PF)	L35,HIMID ※Crimping shape	-	15.0	20	-	30	85	230
1002	GAC	25	-16	1	G (BSP/PF)	L35,HIMID ※Crimping shape	-	20.5	22	-	36	94	350
1002		9	-06	3/8	G (BSP/PF)	SP OIL	-	6.5	15	-	22	53	80
1002		12	-08	1/2	G (BSP/PF)	SP OIL	-	9.5	18	-	27	59	115
1002		19	-12	3/4	G (BSP/PF)	SP OIL	-	15.5	20	-	36	74	240
1002		12	-08	1/2	G (BSP/PF)	UP STEAM	-	10.0	18	-	27	71	450
1002		19	-12	3/4	G (BSP/PF)	UP STEAM	-	15.5	20	-	36	85	610
1002		25	-16	1	G (BSP/PF)	UP STEAM	-	21.5	22	-	41	99	950
1002		32	-20	1 1/4	G (BSP/PF)	UP STEAM	-	27.0	25	-	50	114	1,250
1002		38	-24	1 1/2	G (BSP/PF)	UP STEAM	-	33.0	25	-	60	118	1,800
1002		50	-32	2	G (BSP/PF)	UP STEAM	-	44.0	30	-	70	136	2,550

1002

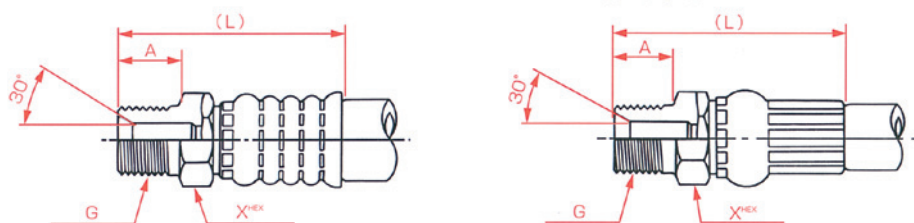
JIS BSP Parallel 60° Cone Seat BS5200 / ISO8434-6 / JIS B8363



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	X (mm)	L (mm)	Weight (g)
1002	AMR	6	-04	1/4	G (BSP/PF)	WSR5Z	-05	4.3	13	32	52	17	70
1002	AMR	9	-06	3/8	G (BSP/PF)	WSR5Z	-06	6.0	15	36	59	19	85
1002	AMR	12	-08	1/2	G (BSP/PF)	WSR5Z	-10	10.0	18	43	76	22	125
1002	AMR	19	-12	3/4	G (BSP/PF)	WSR5Z	-12	14.0	20	48	88	30	265
1002	AMR	25	-16	1	G (BSP/PF)	WSR5Z	-16	20.5	22	49	82	36	360
1002	AMR	32	-20	1 1/4	G (BSP/PF)	WSR5Z	-20	26.5	25	56	90	46	560
1002	AMR	38	-24	1 1/2	G (BSP/PF)	WSR5Z	-24	32.5	25	56	93	50	620
1002	AHR	6	-04	1/4	G (BSP/PF)	WSR2Z	-04	4.3	13	34	66	17	105
1002	AHR	9	-06	3/8	G (BSP/PF)	WSR2Z	-06	7.0	15	37	75	19	160
1002	AHR	12	-08	1/2	G (BSP/PF)	WSR2Z	-08	9.8	18	42	81	22	250
1002	AHR	19	-12	3/4	G (BSP/PF)	WSR2Z	-12	15.5	20	50	98	30	430
1002	AHR	25	-16	1	G (BSP/PF)	WSR2Z	-16	20.5	22	63	115	36	730
1002	AHR	32	-20	1 1/4	G (BSP/PF)	WSR2Z	-20	26.5	25	74	133	46	1,250
1002	AHR	38	-24	1 1/2	G (BSP/PF)	WSR2Z	-24	32.5	25	74	131	50	1,420
1002	AAR	19	-12	3/4	G (BSP/PF)	WSR9Z	-12	15.5	20	50	98	30	430
1002	AAR	25	-16	1	G (BSP/PF)	WSR9Z	-16	20.5	22	63	115	36	730

1002

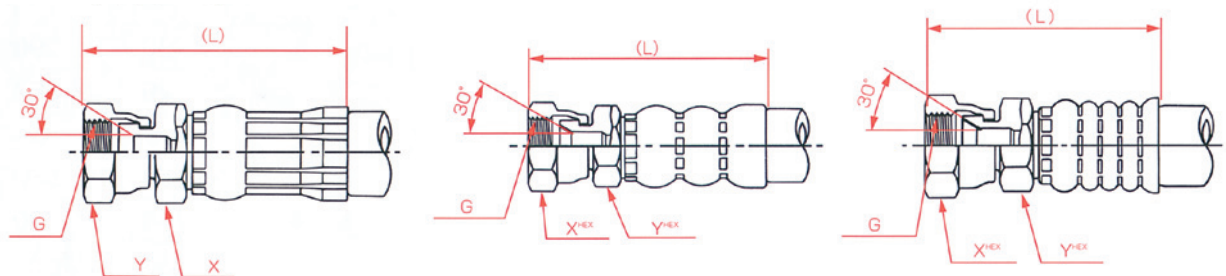
JIS BSP Parallel 60° Cone Seat BS5200 / ISO8434-6 / JIS B8363



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	L (mm)	X (mm)	Weight (g)
1002	NFC	6	-04	1/4	G (BSP/PF)	NV210,NN173	-	4.0	13	-	56	17	65
1002	NFC	9	-06	3/8	G (BSP/PF)	NV210,NN173	-	6.5	15	-	61	19	85
1002	NFC	12	-08	1/2	G (BSP/PF)	NV210,NN173	-	9.5	18	-	65	22	140
1002	NBC	6	-04	1/4	G (BSP/PF)	NV105	-	4.0	13	-	51	17	35
1002	NBC	9	-06	3/8	G (BSP/PF)	NV105	-	6.5	15	-	53	19	65
1002	NBC	12	-08	1/2	G (BSP/PF)	NV105	-	9.5	18	-	59	22	85
1002	NBC	3	-02	1/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	2.0	10	-	34	14	20
1002	NBC	5	-03	3/16	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	2.8	13	-	43	17	25
1002	NBC	6	-04	1/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	4.0	13	-	51	17	35
1002	NBC	9	-06	3/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	6.5	15	-	53	19	65
1002	NBC	12	-08	1/2	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	9.5	18	-	59	22	85
1002	NBC	19	-12	3/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	15.5	20	-	80	30	210
1002	NFC	9	-06	3/8	G (BSP/PF)	NHW	-	6.5	15	-	61	19	85

1004

JIS BSP Female 60° Cone Seat (Crimped Back-Nut) / JIS B8363(DIN20078/3863)



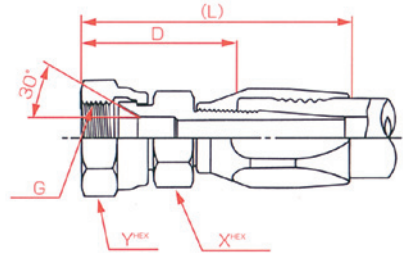
Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1004	6	-04	1/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	4.0	-	56	19	17	75
1004	9	-06	3/8	G (BSP/PF)	OMB10F,15F,20F,25F	-	6.5	-	60	22	19	95
1004	12	-08	1/2	G (BSP/PF)	OMB10F,15F,20F,25F	-	9.5	-	67	27	22	145
1004	15	-10	5/8	G (BSP/PF)	OMB10F,15F,20F,25F	-	12.0	-	83	36	30	280
1004	19	-12	3/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	15.0	-	90	36	30	330
1004	25	-16	1	G (BSP/PF)	OMB10F,15F,20F,25F	-	20.5	-	99	41	36	500
1004	32	-20	1 1/4	G (BSP/PF)	OMB10,15,20	-	25.5	-	46	50	122	890
1004	38	-24	1 1/2	G (BSP/PF)	OMB10,15,20	-	32.0	-	50	60	144	1,250
1004	50	-32	2	G (BSP/PF)	OMB10,15,20	-	43.0	-	65	70	165	2,320
1004	6	-04	1/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	4.0	-	17	19	55	75
1004	9	-06	3/8	G (BSP/PF)	NWP35,70,105,140,175,210	-	6.5	-	19	22	59	95
1004	12	-08	1/2	G (BSP/PF)	NWP35,70,105,140,175,210	-	9.5	-	22	27	67	145
1004	15	-10	5/8	G (BSP/PF)	NWP35,70,105,140,175,210	-	12.0	-	30	36	83	280
1004	19	-12	3/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	15.0	-	30	36	89	330
1004	25	-16	1	G (BSP/PF)	NWP35,70,105,140,175,210	-	20.5	-	36	41	98	500
1004	32	-20	1 1/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	25.5	-	46	50	122	890
1004	38	-24	1 1/2	G (BSP/PF)	NWP35,70,105,140,175,210	-	32.0	-	50	60	144	1,250
1004	50	-32	2	G (BSP/PF)	NWP35,70,105,140,175,210	-	43.0	-	65	70	165	2,320
1004	32	-20	1 1/4	G (BSP/PF)	NWP35,70(φ32,38,50)	-	27.5	-	46	50	110	765
1004	38	-32	1 1/2	G (BSP/PF)	NWP35,70(φ32,38,50)	-	32.5	-	50	60	120	1,030
1004	50	-32	2	G (BSP/PF)	NWP35,70(φ32,38,50)	-	44.0	-	65	70	132	1,660
1004	6	-04	1/4	G (BSP/PF)	YFH175,210	-	4.0	-	17	19	55	72
1004	9	-06	3/8	G (BSP/PF)	YFH175,210	-	6.5	-	19	22	59	90
1004	12	-08	1/2	G (BSP/PF)	YFH175,210	-	9.5	-	22	27	67	172
1004	15	-10	5/8	G (BSP/PF)	YFH175,210	-	13.2	-	30	36	71	280
1004	6	-04	1/4	G (BSP/PF)	YPH6,9	-	4.0	-	19	17	56	57
1004	9	-06	3/8	G (BSP/PF)	YPH6,9	-	6.5	-	22	19	58	68
1004	6	-04	1/4	G (BSP/PF)	AX21	-	4.0	-	17	19	55	75
1004	9	-06	3/8	G (BSP/PF)	AX21	-	6.5	-	19	22	59	90
1004	12	-08	1/2	G (BSP/PF)	AX21	-	9.5	-	22	27	67	172
1004	15	-10	5/8	G (BSP/PF)	AX21	-	13.2	-	30	36	71	280
1004	5	-03	1/4	G (BSP/PF)	N191	-	2.8	-	19	17	49	55
1004	6	-04	1/4	G (BSP/PF)	N191	-	4.0	-	19	17	61	60
1004	9	-06	3/8	G (BSP/PF)	N191	-	6.5	-	22	19	63	95
1004	6	-04	1/4	G (BSP/PF)	G210	-	4.0	-	55	19	17	75
1004	9	-06	3/8	G (BSP/PF)	G210	-	6.5	-	59	22	19	95
1004	12	-08	1/2	G (BSP/PF)	G210	-	9.5	-	75	27	22	270
1004	19	-12	3/4	G (BSP/PF)	G210	-	15.0	-	89	36	30	520

Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1004		25	-16	1	G (BSP/PF)	G210	-	20.5	-	98	41	36	570
1004		32	-20	1 1/4	G (BSP/PF)	G210	-	25.5	-	122	50	46	890
1004		38	-24	1 1/2	G (BSP/PF)	G210	-	32.0	-	144	60	50	1,250
1004		50	-32	2	G (BSP/PF)	G210	-	43.0	-	165	70	65	2,320
1004		6	-04	1/4	G (BSP/PF)	P210	-	4.0	-	17	19	55	70
1004		9	-06	3/8	G (BSP/PF)	P210	-	6.5	-	19	22	59	90
1004		12	-08	1/2	G (BSP/PF)	P210	-	9.5	-	22	27	67	170
1004		19	-12	3/4	G (BSP/PF)	P210	-	15.0	-	30	36	89	330
1004		25	-16	1	G (BSP/PF)	P210	-	20.5	-	36	41	98	560
1004		32	-20	1 1/4	G (BSP/PF)	P210	-	25.5	-	50	50	147	1,180
1004		38	-24	1 1/2	G (BSP/PF)	P210	-	32.0	-	50	60	164	1,720
1004		50	-32	2	G (BSP/PF)	P210	-	43.0	-	70	70	190	3,020
1004		6	-04	1/4	G (BSP/PF)	RC205	-	4.0	-	17	19	55	75
1004		9	-06	3/8	G (BSP/PF)	RC205	-	6.5	-	19	22	59	95
1004		12	-08	1/2	G (BSP/PF)	RC205	-	9.5	-	22	27	67	150
1004		19	-12	3/4	G (BSP/PF)	RC205	-	15.0	-	30	36	89	330
1004		25	-16	1	G (BSP/PF)	RC205	-	20.5	-	36	41	98	500
1004		32	-20	1 1/4	G (BSP/PF)	RC205	-	25.5	-	46	50	122	890
1004		38	-24	1 1/2	G (BSP/PF)	RC205	-	32.0	-	50	60	144	1,250
1004		50	-32	2	G (BSP/PF)	RC205	-	43.0	-	65	70	165	2,320
1004		6	-04	1/4	G (BSP/PF)	LHW	-	4.0	-	17	19	55	75
1004		9	-06	3/8	G (BSP/PF)	LHW	-	6.5	-	19	22	59	95
1004		12	-08	1/2	G (BSP/PF)	LHW	-	9.5	-	22	27	67	145
1004		15	-10	5/8	G (BSP/PF)	LHW	-	12.0	-	30	36	83	280
1004		19	-12	3/4	G (BSP/PF)	LHW	-	15.0	-	30	36	94	330
1004		25	-16	1	G (BSP/PF)	LHW	-	20.5	-	36	41	104	500
1004		32	-20	1 1/4	G (BSP/PF)	LHW	-	27.5	-	46	50	110	765
1004		38	-24	1 1/2	G (BSP/PF)	LHW	-	32.5	-	50	60	120	1,030
1004		50	-32	2	G (BSP/PF)	LHW	-	44.0	-	65	70	132	1,660
1004	GAC	6	-04	1/4	G (BSP/PF)	L35,HIMID	-	4.0	-	55	19	17	65
1004	GAC	9	-06	3/8	G (BSP/PF)	L35,HIMID	-	6.5	-	59	22	19	90
1004	GAC	12	-08	1/2	G (BSP/PF)	L35,HIMID	-	9.5	-	67	27	22	130
1004	GAC	19	-12	3/4	G (BSP/PF)	L35,HIMID ※Crimping shape	-	15.0	-	89	36	30	280
1004	GAC	25	-16	1	G (BSP/PF)	L35,HIMID ※Crimping shape	-	20.5	-	98	41	36	410
1004		9	-06	3/8	G (BSP/PF)	SP OIL	-	6.5	-	-	22	58	100
1004		12	-08	1/2	G (BSP/PF)	SP OIL	-	9.5	-	-	27	63	140
1004		19	-12	3/4	G (BSP/PF)	SP OIL	-	15.5	-	-	36	79	290
1004	GFC	12	-08	1/2	G (BSP/PF)	GT70,140,205,410	-	9.5	-	67	22	27	150
1004	GFC	19	-12	3/4	G (BSP/PF)	GT70,140,205,410	-	15.0	-	89	30	36	330
1004	GFC	25	-16	1	G (BSP/PF)	GT70,140,205,410	-	20.5	-	98	36	41	500
1004	GTC	32	-20	1 1/4	G (BSP/PF)	GT70,140,205,410	-	27.5	-	110	46	50	765
1004	GTC	38	-24	1 1/2	G (BSP/PF)	GT70,140,205,410	-	32.5	-	120	50	60	1,030
1004	GTC	50	-32	2	G (BSP/PF)	GT70,140,205,410	-	44.0	-	132	65	70	1,660
1004	NFC	6	-04	1/4	G (BSP/PF)	NV210,NN173	-	4.0	-	62	19	17	80
1004	NFC	9	-06	3/8	G (BSP/PF)	NV210,NN173	-	6.5	-	67	22	19	90
1004	NFC	12	-08	1/2	G (BSP/PF)	NV210,NN173	-	9.5	-	70	27	22	165
1004	NBC	6	-04	1/4	G (BSP/PF)	NV105	-	4.0	-	56	19	17	55
1004	NBC	9	-06	3/8	G (BSP/PF)	NV105	-	6.5	-	58	22	19	80
1004	NBC	12	-08	1/2	G (BSP/PF)	NV105	-	9.5	-	63	27	22	115
1004	NBC	3	-02	1/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	2.0	-	40	14	14	40

Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1004	NBC	5	-03	3/16	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	2.8	-	48	19	17	45
1004	NBC	6	-04	1/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	4.0	-	56	19	17	55
1004	NBC	9	-06	3/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	6.5	-	58	22	19	80
1004	NBC	12	-08	1/2	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	9.5	-	63	27	22	115
1004	NBC	19	-12	3/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	15.5	-	8	36	30	270
1004	NFC	9	-06	3/8	G (BSP/PF)	NHW	-	6.5	-	66	22	19	90
1004	NBC	6	-04	1/4	G (BSP/PF)	NV105	-	4.0	-	56	19	17	55
1004	NBC	9	-06	3/8	G (BSP/PF)	NV105	-	6.5	-	58	22	19	80
1004	NBC	12	-08	1/2	G (BSP/PF)	NV105	-	9.5	-	63	27	22	115
1004	NBC	3	-02	1/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	2.0	-	40	14	14	40
1004	NBC	5	-03	3/16	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	2.8	-	48	19	17	45
1004	NBC	6	-04	1/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	4.0	-	56	19	17	55
1004	NBC	9	-06	3/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	6.5	-	58	22	19	80
1004	NBC	12	-08	1/2	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	9.5	-	63	27	22	115
1004	NBC	19	-12	3/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	15.5	-	84	36	30	270
1004	NFC	9	-06	3/8	G (BSP/PF)	NHW	-	6.5	-	66	22	19	90

1004

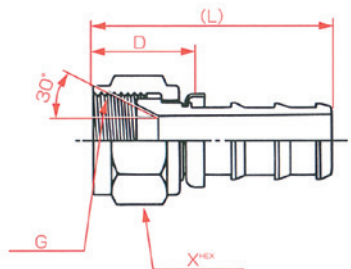
JIS BSP Female 60° Cone Seat (Crimped Back-Nut) / JIS B8363(DIN20078/3863)



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
1004	AMR	6	-04	1/4	G (BSP/PF)	WSR5Z	-05	4.3	37	57	19	17	85
1004	AMR	9	-06	3/8	G (BSP/PF)	WSR5Z	-06	6.0	41	64	22	19	95
1004	AMR	15	-10	5/8	G (BSP/PF)	WSR5Z	-10	10.0	47	80	27	22	270
1004	AMR	19	-12	3/4	G (BSP/PF)	WSR5Z	-12	14.0	53	93	36	30	330
1004	AMR	25	-16	1	G (BSP/PF)	WSR5Z	-16	20.5	54	86	41	36	420
1004	AMR	32	-20	1 1/4	G (BSP/PF)	WSR5Z	-20	26.5	62	97	50	46	640
1004	AMR	38	-24	1 1/2	G (BSP/PF)	WSR5Z	-24	32.5	65	102	60	50	790
1004	AHR	6	-04	1/4	G (BSP/PF)	WSR2Z	-04	4.3	39	71	19	17	120
1004	AHR	9	-06	3/8	G (BSP/PF)	WSR2Z	-06	7.0	42	80	22	19	175
1004	AHR	12	-08	1/2	G (BSP/PF)	WSR2Z	-08	9.8	47	85	27	22	270
1004	AHR	19	-12	3/4	G (BSP/PF)	WSR2Z	-12	15.5	55	102	36	30	490
1004	AHR	25	-16	1	G (BSP/PF)	WSR2Z	-16	20.5	67	119	41	36	780
1004	AHR	32	-20	1 1/4	G (BSP/PF)	WSR2Z	-20	26.5	81	140	50	46	1,340
1004	AHR	38	-24	1 1/2	G (BSP/PF)	WSR2Z	-24	32.5	83	140	60	50	1,600
1004	AAR	19	-12	3/4	G (BSP/PF)	WSR9Z	-12	15.5	55	102	36	30	490
1004	AAR	25	-16	1	G (BSP/PF)	WSR9Z	-16	20.5	67	119	41	36	780

1004

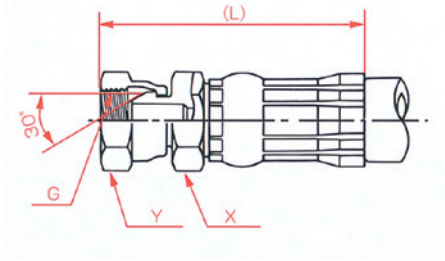
JIS BSP Female 60° Cone Seat (Crimped Back-Nut) / JIS B8363(DIN20078/3863)



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1004	LAR	6	-04	1/4	G (BSP/PF)	HTW10	-04	4.3	18	37	-	17	30
1004	LAR	9	-06	3/8	G (BSP/PF)	HTW10	-06	7.4	20	42	-	19	35
1004	LAR	12	-08	1/2	G (BSP/PF)	HTW10	-08	9.8	24	49	-	24	70
1004	LAR	6	-04	1/4	G (BSP/PF)	WS18Z	-04	4.3	18	37	-	17	30
1004	LAR	9	-06	3/8	G (BSP/PF)	WS18Z	-06	7.4	20	42	-	19	35
1004	LAR	12	-08	1/2	G (BSP/PF)	WS18Z	-08	9.8	24	49	-	24	70
1004	LAR	19	-12	3/4	G (BSP/PF)	WS18Z	-12	15.0	28	66	-	32	140

1005

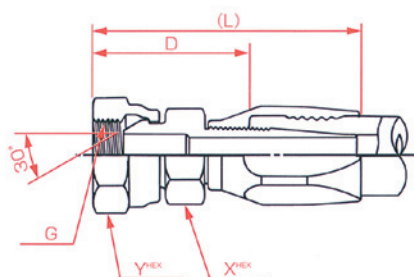
JIS BSP Male 60° Cone Seat JIS B8363(DIN20078/3863)



Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	X (mm)	Y (mm)	L (mm)	Weight (g)
1005	32	-20	1 1/4	G (BSP/PF)	OMB10,15,20	-	25.5	-	46	50	122	890
1005	38	-24	1 1/2	G (BSP/PF)	OMB10,15,20	-	32.0	-	50	60	144	1,250
1005	50	-32	2	G (BSP/PF)	OMB10,15,20	-	43.0	-	65	70	165	2,320
1005	6	-04	1/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	4.0	-	17	19	55	75
1005	9	-06	3/8	G (BSP/PF)	NWP35,70,105,140,175,210	-	6.5	-	19	22	59	95
1005	12	-08	1/2	G (BSP/PF)	NWP35,70,105,140,175,210	-	9.5	-	22	27	67	145
1005	15	-10	5/8	G (BSP/PF)	NWP35,70,105,140,175,210	-	12.0	-	30	36	83	280
1005	19	-12	3/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	15.0	-	30	36	89	330
1005	25	-16	1	G (BSP/PF)	NWP35,70,105,140,175,210	-	20.5	-	36	41	98	500
1005	32	-20	1 1/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	25.5	-	46	50	122	890
1005	38	-24	1 1/2	G (BSP/PF)	NWP35,70,105,140,175,210	-	32.0	-	50	60	144	1,250
1005	50	-32	2	G (BSP/PF)	NWP35,70,105,140,175,210	-	43.0	-	65	70	165	2,320
1005	32	-20	1 1/4	G (BSP/PF)	NWP35,70(φ32,38,50)	-	27.5	-	46	50	110	765
1005	38	-24	1 1/2	G (BSP/PF)	NWP35,70(φ32,38,50)	-	32.5	-	50	60	120	1,030
1005	50	-32	2	G (BSP/PF)	NWP35,70(φ32,38,50)	-	44.0	-	65	70	132	1,660
1005	6	-04	1/4	G (BSP/PF)	YFH175,210	-	4.0	-	17	19	55	75
1005	9	-06	3/8	G (BSP/PF)	YFH175,210	-	6.5	-	19	22	59	90
1005	12	-08	1/2	G (BSP/PF)	YFH175,210	-	9.5	-	22	27	67	152
1005	15	-10	5/8	G (BSP/PF)	YFH175,210	-	13.2	-	30	36	72	280
1005	6	-04	1/4	G (BSP/PF)	YPH6,9	-	4.0	-	19	17	56	57
1005	9	-06	3/8	G (BSP/PF)	YPH6,9	-	6.5	-	22	19	58	68
1005	6	-04	1/4	G (BSP/PF)	AX21	-	4.0	-	17	19	55	75
1005	9	-06	3/8	G (BSP/PF)	AX21	-	6.5	-	19	22	59	90
1005	12	-08	1/2	G (BSP/PF)	AX21	-	9.5	-	22	27	67	152
1005	15	-10	5/8	G (BSP/PF)	AX21	-	13.2	-	30	36	72	280
1005	25	-16	1	G (BSP/PF)	SC	-	20.5	-	36	41	98	500
1005	32	-20	1 1/4	G (BSP/PF)	SC	-	27.5	-	46	50	110	890
1005	38	-24	1 1/2	G (BSP/PF)	SC	-	32.5	-	50	60	120	1,070
1005	9	-06	3/8	G (BSP/PF)	SP OIL	-	6.5	-	22	-	58	100
1005	12	-08	1/2	G (BSP/PF)	SP OIL	-	9.5	-	27	-	63	140
1005	19	-12	3/4	G (BSP/PF)	SP OIL	-	15.5	-	36	-	79	290

1005

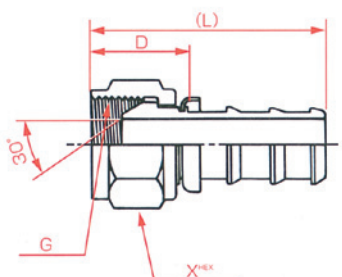
JIS BSP Male 60° Cone Seat JIS B8363(DIN20078/3863)



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
1005	AMR	6	-04	1/4	G (BSP/PF)	WSR5Z	-05	4.3	37	57	19	17	85
1005	AMR	9	-06	3/8	G (BSP/PF)	WSR5Z	-06	6.0	41	64	22	19	95
1005	AMR	12	-08	1/2	G (BSP/PF)	WSR5Z	-10	10.0	47	80	27	22	270
1005	AMR	19	-12	3/4	G (BSP/PF)	WSR5Z	-12	14.0	53	93	36	30	330
1005	AMR	25	-16	1	G (BSP/PF)	WSR5Z	-16	20.5	54	86	41	36	420
1005	AMR	32	-20	1 1/4	G (BSP/PF)	WSR5Z	-20	26.5	62	97	50	46	640
1005	AMR	38	-24	1 1/2	G (BSP/PF)	WSR5Z	-24	32.5	65	102	60	50	790
1005	AHR	6	-04	1/4	G (BSP/PF)	WSR2Z	-04	4.3	39	71	19	17	120
1005	AHR	9	-06	3/8	G (BSP/PF)	WSR2Z	-06	7.0	42	80	22	19	175
1005	AHR	12	-08	1/2	G (BSP/PF)	WSR2Z	-08	9.8	47	85	27	22	270
1005	AHR	19	-12	3/4	G (BSP/PF)	WSR2Z	-12	15.5	55	102	36	30	490
1005	AHR	25	-16	1	G (BSP/PF)	WSR2Z	-16	20.7	67	119	41	36	780
1005	AHR	32	-20	1 1/4	G (BSP/PF)	WSR2Z	-20	26.5	81	140	50	46	1,340
1005	AHR	38	-24	1 1/2	G (BSP/PF)	WSR2Z	-24	32.5	83	140	60	50	1,600
1005	AAR	19	-12	3/4	G (BSP/PF)	WSR9Z	-12	15.5	55	102	36	30	490
1005	AAR	25	-16	1	G (BSP/PF)	WSR9Z	-16	20.5	67	119	41	36	780

1005

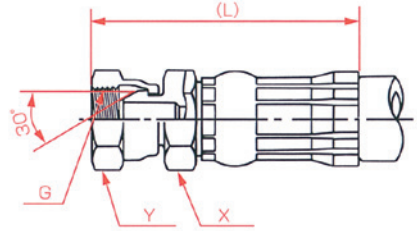
JIS BSP Male 60° Cone Seat JIS B8363(DIN20078/3863)



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
1005	LAR	6	-04	1/4	G (BSP/PF)	HTW10	-04	4.3	18	37	---	17	30
1005	LAR	9	-06	3/8	G (BSP/PF)	HTW10	-06	7.4	20	42	---	19	35
1005	LAR	12	-08	1/2	G (BSP/PF)	HTW10	-08	9.8	24	49	---	24	70
1005	LAR	6	-04	1/4	G (BSP/PF)	WS18Z	-04	4.3	18	37	---	17	30
1005	LAR	9	-06	3/8	G (BSP/PF)	WS18Z	-06	7.4	20	42	---	19	35
1005	LAR	12	-08	1/2	G (BSP/PF)	WS18Z	-08	9.8	24	49	---	24	70
1005	LAR	19	-12	3/4	G (BSP/PF)	WS18Z	-12	15.0	28	66	---	32	140

1005

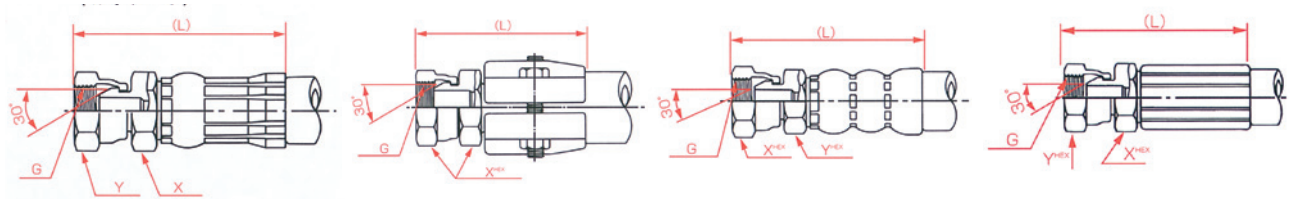
JIS BSP Male 60° Cone Seat JIS B8363(DIN20078/3863)



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1005	NFC	6	-04	1/4	G (BSP/PF)	NV210,NN173	-	4.0	-	62	19	17	80
1005	NFC	9	-06	3/8	G (BSP/PF)	NV210,NN173	-	6.5	-	67	22	19	90
1005	NFC	12	-08	1/2	G (BSP/PF)	NV210,NN173	-	9.5	-	70	27	22	165
1005	NBC	6	-04	1/4	G (BSP/PF)	NV105	-	4.0	-	56	19	17	55
1005	NBC	9	-06	3/8	G (BSP/PF)	NV105	-	6.5	-	58	22	19	80
1005	NBC	12	-08	1/2	G (BSP/PF)	NV105	-	9.5	-	63	27	22	115
1005	NBC	3	-02	1/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	2.0	-	40	14	14	40
1005	NBC	5	-03	3/16	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	2.8	-	48	19	17	45
1005	NBC	6	-04	1/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	4.0	-	56	19	17	55
1005	NBC	9	-06	3/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	6.5	-	58	22	19	80
1005	NBC	12	-08	1/2	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	9.5	-	63	27	22	115
1005	NBC	19	-12	3/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	15.5	-	84	36	30	270
1005	NFC	9	-06	3/8	G (BSP/PF)	NHW	-	6.5	-	66	22	19	90

1005

JIS BSP Male 60° Cone Seat JIS B8363(DIN20078/3863)

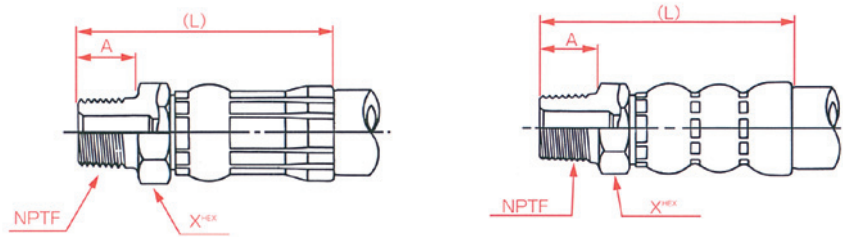


Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
1005		6	-04	1/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	4.0	-	56	19	17	75
1005		9	-06	3/8	G (BSP/PF)	OMB10F,15F,20F,25F	-	6.5	-	60	22	19	95
1005		12	-08	1/2	G (BSP/PF)	OMB10F,15F,20F,25F	-	9.5	-	67	27	22	145
1005		15	-10	5/8	G (BSP/PF)	OMB10F,15F,20F,25F	-	12.0	-	83	36	30	280
1005		19	-12	3/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	15.0	-	90	36	30	330
1005		25	-16	1	G (BSP/PF)	OMB10F,15F,20F,25F	-	20.5	-	99	41	36	500
1005	TFC	6	-04	1/4	G (BSP/PF)	ST40	-	4.5	-	48	17	19	48
1005	TFC	8	-05	5/16	G (BSP/PF)	ST40	-	4.5	-	48	17	19	51
1005	TFC	9	-06	3/8	G (BSP/PF)	ST40	-	7.0	-	53	19	22	67
1005	TFC	12	-08	1/2	G (BSP/PF)	ST40	-	10.0	-	63	27	27	126
1005	TFC	19	-12	3/4	G (BSP/PF)	ST40	-	16.0	-	73	30	36	221
1005	TFC	25	-16	1	G (BSP/PF)	ST40	-	21.5	-	81	36	41	343
1005		6	-04	1/4	G (BSP/PF)	G210	-	4.0	-	55	19	17	75
1005		9	-06	3/8	G (BSP/PF)	G210	-	6.5	-	59	22	19	95
1005		12	-08	1/2	G (BSP/PF)	G210	-	9.5	-	75	27	22	270

Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
1005		19	-12	3/4	G (BSP/PF)	G210	-	15.0	-	89	36	30	520
1005		25	-16	1	G (BSP/PF)	G210	-	20.5	-	98	41	36	570
1005		32	-20	1 1/4	G (BSP/PF)	G210	-	25.5	-	122	50	46	890
1005		38	-24	1 1/2	G (BSP/PF)	G210	-	32.0	-	144	60	50	1,250
1005		50	-32	2	G (BSP/PF)	G210	-	43.0	-	165	70	65	2,320
1005		6	-04	1/4	G (BSP/PF)	P210	-	4.0	-	55	19	17	70
1005		9	-06	3/8	G (BSP/PF)	P210	-	6.5	-	59	22	19	90
1005		12	-08	1/2	G (BSP/PF)	P210	-	9.5	-	67	27	22	170
1005		19	-12	3/4	G (BSP/PF)	P210	-	15.0	-	89	36	30	330
1005		25	-16	1	G (BSP/PF)	P210	-	20.5	-	98	41	36	560
1005		32	-20	1 1/4	G (BSP/PF)	P210	-	25.5	-	147	50	50	1,180
1005		38	-24	1 1/2	G (BSP/PF)	P210	-	32.0	-	164	60	50	1,720
1005		50	-32	2	G (BSP/PF)	P210	-	43.0	-	190	70	70	3,020
1005		6	-04	1/4	G (BSP/PF)	RC205	-	4.0	-	55	19	17	75
1005		9	-06	3/8	G (BSP/PF)	RC205	-	6.5	-	59	22	19	95
1005		12	-08	1/2	G (BSP/PF)	RC205	-	9.5	-	67	27	22	150
1005		19	-12	3/4	G (BSP/PF)	RC205	-	15.0	-	89	36	30	330
1005		25	-16	1	G (BSP/PF)	RC205	-	20.5	-	98	41	36	500
1005		32	-20	1 1/4	G (BSP/PF)	RC205	-	25.5	-	122	50	46	890
1005		38	-24	1 1/2	G (BSP/PF)	RC205	-	32.0	-	144	60	50	1,250
1005		50	-32	2	G (BSP/PF)	RC205	-	43.0	-	165	70	65	2,320
1005		6	-04	1/4	G (BSP/PF)	LHW	-	4.0	-	55	19	17	75
1005		9	-06	3/8	G (BSP/PF)	LHW	-	6.5	-	59	22	19	95
1005		12	-08	1/2	G (BSP/PF)	LHW	-	9.5	-	67	27	22	145
1005			-10	5/8	G (BSP/PF)	LHW	-	12.0	-	83	36	30	280
1005		19	-12	3/4	G (BSP/PF)	LHW	-	15.0	-	94	36	30	330
1005		25	-16	1	G (BSP/PF)	LHW	-	20.5	-	104	41	36	500
1005		32	-20	1 1/4	G (BSP/PF)	LHW	-	27.5	-	110	50	46	765
1005		38	-24	1 1/2	G (BSP/PF)	LHW	-	32.5	-	120	60	50	1,030
1005		50	-32	2	G (BSP/PF)	LHW	-	44.0	-	132	70	65	1,660
1005	GAC	6	-04	1/4	G (BSP/PF)	L35	-	4.0	-	55	17	19	65
1005	GAC	9	-06	3/8	G (BSP/PF)	L35	-	6.5	-	59	19	22	90
1005	GAC	12	-08	1/2	G (BSP/PF)	L35	-	9.5	-	67	22	27	130
1005	GAC	19	-12	3/4	G (BSP/PF)	L35 ※Crimping shape	-	15.0	-	89	30	36	280
1005	GAC	25	-16	1	G (BSP/PF)	L35 ※Crimping shape	-	20.5	-	98	36	41	410
1005	GAC	6	-04	1/4	G (BSP/PF)	HI-MID	-	4.0	-	55	17	19	65
1005	GAC	9	-06	3/8	G (BSP/PF)	HI-MID	-	6.5	-	59	19	22	90
1005	GAC	12	-08	1/2	G (BSP/PF)	HI-MID	-	9.5	-	67	22	27	130
1005	GAC	19	-12	3/4	G (BSP/PF)	HI-MID ※Crimping shape	-	15.0	-	89	30	36	280
1005	GAC	25	-16	1	G (BSP/PF)	HI-MID ※Crimping shape	-	20.5	-	98	36	41	410
1005		12	-08	1/2	G (BSP/PF)	UP STEAM	-	10.0	-	75	---	27	470
1005		19	-12	3/4	G (BSP/PF)	UP STEAM	-	15.5	-	89	---	36	670
1005		25	-16	1	G (BSP/PF)	UP STEAM	-	21.5	-	103	---	41	1,050
1005		32	-20	1 1/4	G (BSP/PF)	UP STEAM	-	27.0	-	119	---	50	1,350
1005		38	-24	1 1/2	G (BSP/PF)	UP STEAM	-	33.0	-	124	---	60	2,000
1005		50	-32	2	G (BSP/PF)	UP STEAM	-	44.0	-	143	---	70	2,750
1005	GFC	12	-08	1/2	G (BSP/PF)	GT70,140,205,410	-	9.5	-	67	27	22	150
1005	GFC	19	-12	3/4	G (BSP/PF)	GT70,140,205,410	-	15.0	-	89	36	30	330
1005	GFC	25	-16	1	G (BSP/PF)	GT70,140,205,410	-	20.5	-	98	41	36	500
1005	GTC	32	-20	1 1/4	G (BSP/PF)	GT70,140,205,410	-	27.5	-	110	50	46	765
1005	GTC	38	-24	1 1/2	G (BSP/PF)	GT70,140,205,410	-	32.5	-	120	60	50	1,030
1005	GTC	50	-32	2	G (BSP/PF)	GT70,140,205,410	-	44.0	-	132	70	65	1,660

6012

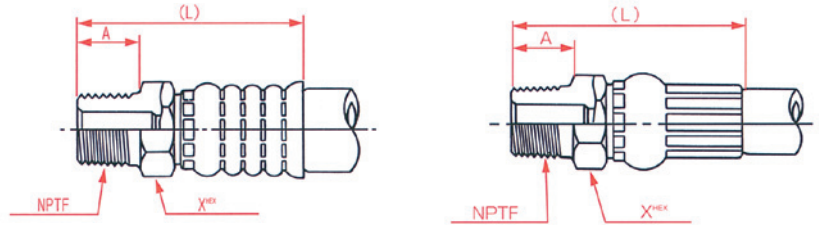
NPTF Male 60° Cone Seat SAE J516/514



Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
6012	6	-04	1/4	NPTF	OMB10F,15F,20F,25F	-	4.0	-	13	50	17	60
6012	9	-06	3/8	NPTF	OMB10F,15F,20F,25F	-	6.5	-	15	54	19	80
6012	12	-08	1/2	NPTF	OMB10F,15F,20F,25F	-	9.5	-	18	62	22	130
6012	15	-10	5/8	NPTF	OMB10F,15F,20F,25F	-	12.0	-	20	78	30	220
6012	19	-12	3/4	NPTF	OMB10F,15F,20F,25F	-	15.0	-	20	85	30	270
6012	25	-16	1	NPTF	OMB10F,15F,20F,25F	-	20.5	-	22	94	36	440
6012	32	-20	1 1/4	NPTF	OMB10,15,20	-	25.5	-	25	115	46	810
6012	38	-24	1 1/2	NPTF	OMB10,15,20	-	32.0	-	25	135	50	1,075
6012	50	-32	2	NPTF	OMB10,15,20	-	43.0	-	30	157	65	2,140
6012	6	-04	1/4	NPTF	NWP35,70,105,140,175,210	-	4.0	-	13	50	17	60
6012	9	-06	3/8	NPTF	NWP35,70,105,140,175,210	-	6.5	-	15	54	19	80
6012	12	-08	1/2	NPTF	NWP35,70,105,140,175,210	-	9.5	-	18	62	22	135
6012	15	-10	5/8	NPTF	NWP35,70,105,140,175,210	-	12.0	-	20	78	30	220
6012	19	-12	3/4	NPTF	NWP35,70,105,140,175,210	-	15.0	-	20	85	30	270
6012	25	-16	1	NPTF	NWP35,70,105,140,175,210	-	20.5	-	22	94	36	440
6012	32	-20	1 1/4	NPTF	NWP35,70,105,140,175,210	-	25.5	-	25	115	46	810
6012	38	-24	1 1/2	NPTF	NWP35,70,105,140,175,210	-	32.0	-	25	135	50	1,075
6012	50	-32	2	NPTF	NWP35,70,105,140,175,210	-	43.0	-	29	156	65	2,140
6012	32	-20	1 1/4	NPTF	NWP35,70(φ32,38,50)	-	27.5	-	25	103	46	665
6012	38	-32	1 1/2	NPTF	NWP35,70(φ32,38,50)	-	32.5	-	25	111	50	860
6012	50	-32	2	NPTF	NWP35,70(φ32,38,50)	-	44.0	-	30	123	65	1,420
6012	6	-04	1/4	NPTF	YFH175,210	-	4.0	-	13	50	17	60
6012	9	-06	3/8	NPTF	YFH175,210	-	6.5	-	15	54	19	80
6012	12	-08	1/2	NPTF	YFH175,210	-	9.5	-	18	62	22	135
6012	15	-10	5/8	NPTF	YFH175,210	-	13.2	-	20	67	30	220
6012	6	-04	1/4	NPTF	AX21	-	4.0	-	13	50	17	60
6012	9	-06	3/8	NPTF	AX21	-	6.5	-	15	54	19	80
6012	12	-08	1/2	NPTF	AX21	-	9.5	-	18	62	22	135
6012	15	-10	5/8	NPTF	AX21	-	13.2	-	20	67	30	220
6012	GAC	6	-04	NPTF	L35	-	4.0	-	13	50	17	50
6012	GAC	9	-06	NPTF	L35	-	6.5	-	15	54	19	70
6012	GAC	12	-08	NPTF	L35	-	9.5	-	18	62	22	105
6012	GAC	19	-12	NPTF	L35 ※Crimping shape	-	15.0	-	20	85	30	230
6012	GAC	25	-16	NPTF	L35 ※Crimping shape	-	20.5	-	22	94	36	350
6012	GAC	6	-04	NPTF	HI-MID	-	4.0	-	13	50	17	50
6012	GAC	9	-06	NPTF	HI-MID	-	6.5	-	15	54	19	70
6012	GAC	12	-08	NPTF	HI-MID	-	9.5	-	18	62	22	105
6012	GAC	19	-12	NPTF	HI-MID ※Crimping shape	-	15.0	-	20	85	30	230
6012	GAC	25	-16	NPTF	HI-MID ※Crimping shape	-	20.5	-	22	94	36	350

6012

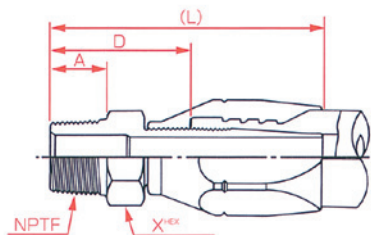
NPTF Male 60° Cone Seat SAE J516/514



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
6012	NFC	6	-04	1/4	NPTF	NV210,NN173	4.0	13	56	17	65	-	60
6012	NFC	9	-06	3/8	NPTF	NV210,NN173	6.5	15	61	19	85	-	80
6012	NFC	12	-08	1/2	NPTF	NV210,NN173	9.5	18	65	22	140	-	130
6012	NBC	6	-04	1/4	NPTF	NV105	4.0	13	51	17	35	-	220
6012	NBC	9	-06	3/8	NPTF	NV105	6.5	15	53	19	65	-	270
6012	NBC	12	-08	1/2	NPTF	NV105	9.5	18	59	22	85	-	440
6012	NBC	3	-02	1/8	NPTF	N173(-02,-03,-12), N177(-04,-06,-08)	2.0	10	34	14	20	-	810
6012	NBC	5	-03	3/16	NPTF	N173(-02,-03,-12), N177(-04,-06,-08)	2.8	13	43	17	25	-	1,075
6012	NBC	6	-04	1/4	NPTF	N173(-02,-03,-12), N177(-04,-06,-08)	4.0	13	51	17	35	-	2,140
6012	NBC	9	-06	3/8	NPTF	N173(-02,-03,-12), N177(-04,-06,-08)	6.5	15	53	19	65	-	60
6012	NBC	12	-08	1/2	NPTF	N173(-02,-03,-12), N177(-04,-06,-08)	9.5	18	59	22	85	-	80
6012	NBC	19	-12	3/4	NPTF	N173(-02,-03,-12), N177(-04,-06,-08)	15.5	20	80	30	210	-	135

6012

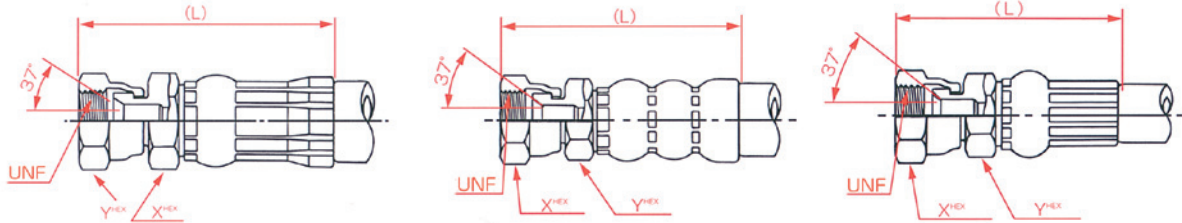
NPTF Male 60° Cone Seat SAE J516/514



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	D (mm)	L (mm)	X (mm)	Weight (g)
6012	AMR	6	-04	1/4	NPTF	WSR5Z	-05	4.3	13	32	52	17	70
6012	AMR	9	-06	3/8	NPTF	WSR5Z	-06	6.0	15	36	59	19	85
6012	AHR	9	-06	3/8	NPTF	WSR2Z	-06	7.0	15	37	75	19	160
6012	AHR	12	-08	1/2	NPTF	WSR2Z	-08	9.8	18	42	81	22	250
6012	AHR	19	-12	3/4	NPTF	WSR2Z	-12	15.5	20	50	98	30	430
6012	AHR	25	-16	1	NPTF	WSR2Z	-16	20.5	22	63	115	36	730

6013

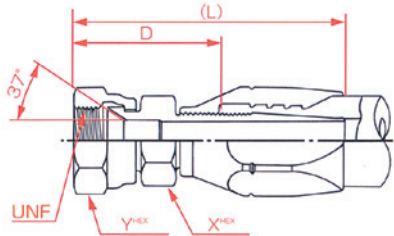
JIC Female 74° Cone Seat Double Hexagon (Crimped Back-Nut) SAE J516/ISO12151-5



Fitting Type		mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
6013		6	-04	7/16-20 UNF	OMB10F,15F,20F,25F	-	4.0	-	56	19	17	75
6013		9	-06	9/16-18 UNF	OMB10F,15F,20F,25F	-	6.5	-	59	22	19	95
6013		12	-08	3/4-16 UNF	OMB10F,15F,20F,25F	-	9.5	-	66	27	22	155
6013		15	-10	7/8-14 UNF	OMB10F,15F,20F,25F	-	10.0	-	80	27	27	265
6013		19	-12	1 1/16-12 UN	OMB10F,15F,20F,25F	-	15.0	-	91	36	30	325
6013		25	-16	1 5/16-12 UN	OMB10F,15F,20F,25F	-	20.5	-	100	41	36	490
6013		32	-20	1 5/8-12 UN	OMB10,15,20	-	25.5	-	121	50	46	890
6013		38	-24	1 7/8-12 UN	OMB10,15,20	-	32.0	-	146	60	50	1,370
6013		50	-32	2 1/2-12 UN	OMB10,15,20	-	43.0	-	171	75	65	2,430
6013		6	-04	7/16-20 UNF	NWP35,70,105,140,175,210	-	4.0	-	56	19	17	75
6013		9	-06	9/16-18 UNF	NWP35,70,105,140,175,210	-	6.5	-	59	22	19	95
6013		12	-08	3/4-16 UNF	NWP35,70,105,140,175,210	-	9.5	-	66	27	22	165
6013		15	-10	7/8-14 UNF	NWP35,70,105,140,175,210	-	10.0	-	80	27	27	270
6013		19	-12	1 1/16-12 UN	NWP35,70,105,140,175,210	-	15.0	-	91	36	30	330
6013		25	-16	1 5/16-12 UN	NWP35,70,105,140,175,210	-	20.5	-	100	41	36	500
6013		32	-20	1 5/8-12 UN	NWP35,70,105,140,175,210	-	25.5	-	121	50	46	890
6013		38	-24	1 7/8-12 UN	NWP35,70,105,140,175,210	-	32.0	-	145	60	50	1,370
6013		50	-32	2 1/2-12 UN	NWP35,70,105,140,175,210	-	43.0	-	171	75	65	2,430
6013		32	-20	1 5/8-12 UN	NWP35,70(φ32,38,50)	-	27.5	-	109	50	46	765
6013		38	-24	1 7/8-12 UN	NWP35,70(φ32,38,50)	-	32.5	-	122	60	50	1,015
6013		50	-32	2 1/2-12 UN	NWP35,70(φ32,38,50)	-	44.0	-	138	75	65	1,660
6013		6	-04	7/16-20 UNF	YFH175,210	-	4.0	-	56	19	17	75
6013		9	-06	9/16-18 UNF	YFH175,210	-	6.5	-	59	22	19	95
6013		12	-08	3/4-16 UNF	YFH175,210	-	9.5	-	66	27	22	165
6013		15	-10	7/8-14 UNF	YFH175,210	-	13.2	-	70	27	27	270
6013		6	-04	7/16-20 UNF	YPH6,9	-	4.0	-	56	17	19	55
6013		9	-06	9/16-18 UNF	YPH6,9	-	6.5	-	57	19	22	80
6013		6	-04	7/16-20 UNF	AX21	-	4.0	-	56	19	17	75
6013		9	-06	9/16-18 UNF	AX21	-	6.5	-	59	22	19	95
6013		12	-08	3/4-16 UNF	AX21	-	9.5	-	66	27	22	165
6013		15	-10	7/8-14 UNF	AX21	-	13.2	-	70	27	27	270
6013	GAC	6	-04	7/16-20 UNF	L35	-	4.0	-	56	17	19	70
6013	GAC	9	-06	9/16-18 UNF	L35	-	6.5	-	59	19	22	95
6013	GAC	12	-08	3/4-16 UNF	L35	-	9.5	-	66	22	27	135
6013	GAC	19	-12	1 1/16-12 UN	L35 ※Crimping shape	-	15.0	-	91	30	36	290
6013	GAC	25	-16	1 5/16-12 UN	L35 ※Crimping shape	-	20.5	-	100	36	41	420
6013	GAC	6	-04	7/16-20 UNF	HI-MID	-	4.0	-	56	17	19	70
6013	GAC	9	-06	9/16-18 UNF	HI-MID	-	6.5	-	59	19	22	95
6013	GAC	12	-08	3/4-16 UNF	HI-MID	-	9.5	-	66	22	27	135
6013	GAC	19	-12	1 11/16-12 UN	HI-MID ※Crimping shape	-	15.0	-	91	30	36	290
6013	GAC	25	-16	1 15/16-12 UN	HI-MID ※Crimping shape	-	20.5	-	100	36	41	420

6013

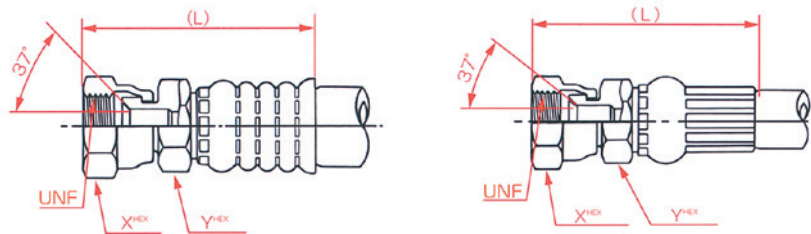
JIC Female 74° Cone Seat Double Hexagon (Crimped Back-Nut) SAE J516/ISO12151-5



Fitting Type		mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
6013	AMR	8	-05	1/2 -20 UNF	WSR5Z	-05	4.3	38	58	19	17	90
6013	AMR	9	-06	9/16 -18 UNF	WSR5Z	-06	6.0	40	64	22	19	100
6013	AHR	9	-06	9/16 -18 UNF	WSR2Z	-06	7.0	42	79	22	19	180
6013	AHR	12	-08	3/4 -14 UNF	WSR2Z	-08	9.8	46	85	27	22	270
6013	AHR	19	-12	1 1/16 -12 UN	WSR2Z	-12	15.5	57	105	36	30	500
6013	AHR	25	-16	1 5/16 -12 UN	WSR2Z	-16	20.7	69	121	41	36	790

6013

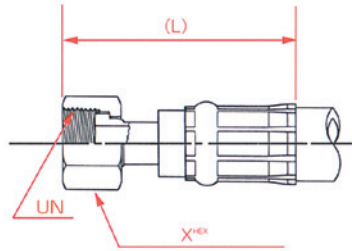
JIC Female 74° Cone Seat Double Hexagon (Crimped Back-Nut) SAE J516/ISO12151-5



Fitting Type		mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
6013	NFC	6	-04	7/16 -20 UNF	NV210,NN173	-	61	-	61	19	17	85
6013	NFC	9	-06	9/16 -18 UNF	NV210,NN173	-	66	-	66	22	19	95
6013	NFC	12	-08	3/4 -16 UNF	NV210,NN173	-	69	-	69	27	22	170
6013	NBC	6	-04	7/16 -20 UNF	NV105	-	56	-	56	19	17	60
6013	NBC	9	-06	9/16 -18 UNF	NV105	-	57	-	57	22	19	85
6013	NBC	12	-08	3/4 -16 UNF	NV105	-	63	-	63	27	22	120
6013	NBC	3	-02	5/16 -24 UNF	N173(-02,-03,-12), N177(-04,-06,-08)	-	40	-	40	14	14	40
6013	NBC	5	-03	3/8 -24 UNF	N173(-02,-03,-12), N177(-04,-06,-08)	-	48	-	48	19	17	45
6013	NBC	6	-04	7/16 -20 UNF	N173(-02,-03,-12), N177(-04,-06,-08)	-	56	-	56	19	17	60
6013	NBC	9	-06	9/16 -18 UNF	N173(-02,-03,-12), N177(-04,-06,-08)	-	57	-	57	22	19	85
6013	NBC	12	-08	3/4 -16 UNF	N173(-02,-03,-12), N177(-04,-06,-08)	-	63	-	63	27	22	120
6013	NBC	19	-12	1 1/16 -12 UN	N173(-02,-03,-12), N177(-04,-06,-08)	-	86	-	86	36	30	280

6028

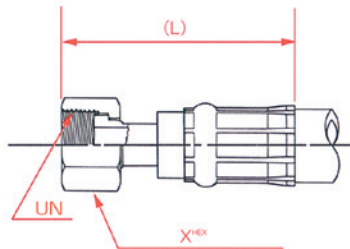
ORFS Female SAE J516/ISO12151-1



Fitting Type	mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	X (mm)	Y (mm)	L (mm)	Weight (g)
6028	6	-04	9/16 -18UNF UNF	OMB10F,15F,20F,25F,32F,35F	-	4.0	-	19	-	63	62
6028	9	-06	11/16 -16UN UN	OMB10F,15F,20F,25F,32F,35F	-	6.5	-	22	-	68	90
6028	12	-08	13/16 -16UN UN	OMB10F,15F,20F,25F,32F,35F	-	9.7	-	27	-	79	165
6028	15	-10	1-14UNS UNS	OMB10F,15F,20F,25F,32F,35F	-	12.5	-	30	-	97	280
6028	19	-12	1 3/16 -12UN UN	OMB10F,15F,20F,25F,32F,35F	-	15.5	-	36	-	108	375
6028	25	-16	1 7/16 -12UN UN	OMB10F,15F,20F,25F,32F,35F	-	20.5	-	41	-	117	700
6028	32	-20	1 11/16 -12UN UN	OMB10,15,20,25,32,35	-	26.5	-	50	-	135	1,050
6028	38	-24	2-12UN UN	OMB10,15,20,25,32,35	-	32.5	-	60	-	155	1,450
6028	6	-04	9/16 -18UNF UNF	NWP35,70,105,140,175,210,280,350	-	4.0	-	19	-	63	62
6028	9	-06	11/16 -16UN UN	NWP35,70,105,140,175,210,280,350	-	6.5	-	22	-	68	90
6028	12	-08	13/16 -16UN UN	NWP35,70,105,140,175,210,280,350	-	9.7	-	27	-	78	165
6028	15	-10	1-14UNS UNS	NWP35,70,105,140,175,210,280,350	-	12.5	-	30	-	96	280
6028	19	-12	1 3/16 -12UN UN	NWP35,70,105,140,175,210,280,350	-	15.5	-	36	-	107	375
6028	25	-16	1 7/16 -12UN UN	NWP35,70,105,140,175,210,280,350	-	20.5	-	41	-	117	700
6028	32	-20	1 11/16 -12UN UN	NWP35,70,105,140,175,210,280,350	-	26.5	-	50	-	135	1,050
6028	38	-24	2-12UN UN	NWP35,70,105,140,175,210,280,350	-	32.5	-	60	-	155	1,450
6028	6	-04	9/16 -18UNF UNF	YFH175,210	-	4.0	-	19	-	63	62
6028	9	-06	11/16 -16UN UN	YFH175,210	-	6.5	-	22	-	68	90
6028	12	-08	13/16 -16UN UN	YFH175,210	-	9.5	-	27	-	78	165
6028	15	-10	1-14UNS UNS	YFH175,210	-	12.5	-	30	-	86	280

6028

ORFS Female SAE J516/ISO12151-1



Fitting Type	mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	A (mm)	X (mm)	Y (mm)	L (mm)	Weight (g)
6028	6	-04	9/16 -18UNF UNF	AX21	-	4.0	-	19	-	63	62
6028	9	-06	11/16 -16UN UN	AX21	-	6.5	-	22	-	68	90
6028	12	-08	13/16 -16UN UN	AX21	-	9.5	-	27	-	78	165
6028	15	-10	1-14UNS UNS	AX21	-	12.5	-	30	-	96	280
6028	12	-08	13/16 -16UN UN	AX28,35	-	9.7	-	27	-	78	165
6028	15	-10	1-14UNS UNS	AX28,35	-	12.5	-	30	-	96	280
6028	19	-12	1 3/16 -12UN UN	AX28,35	-	15.5	-	36	-	107	375

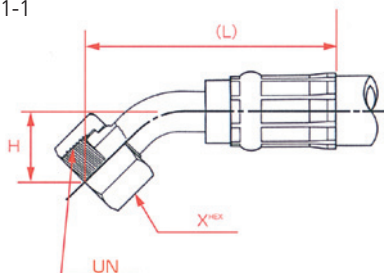


Fitting

6128

6128

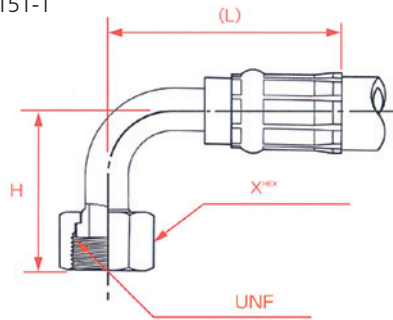
45°ORFS Female SWEPT Elbow SAE J516/ISO12151-1



Fitting Type	mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	X (mm)	Y (mm)	H (mm)	L (mm)	Weight (g)
6128	6	-04	9/16 -18UNF UNF	OMB10F,15F,20F,25F,32F,35F	-	4.0	19	-	23.5	80	70
6128	9	-06	11/16 -16UN UN	OMB10F,15F,20F,25F,32F,35F	-	6.5	22	-	27.5	91	100
6128	12	-08	13/16 -16UN UN	OMB10F,15F,20F,25F,32F,35F	-	9.8	27	-	31.5	104	185
6128	15	-10	1-14UNS UNS	OMB10F,15F,20F,25F,32F,35F	-	11.6	30	-	36.5	123	300
6128	19	-12	1 3/16 -12UN UN	OMB10F,15F,20F,25F,32F,35F	-	15.3	36	-	40.5	137	450
6128	25	-16	1 7/16 -12UN UN	OMB10F,15F,20F,25F,32F,35F	-	19.4	41	-	43.0	152	700
6128	32	-20	1 11/16 -12UN UN	OMB10,15,20,25,32,35	-	25.0	50	-	45.0	181	1,210
6128	38	-24	2-12UN UN	OMB10,15,20,25,32,35	-	30.7	60	-	47.0	211	2,100
6128	6	-04	9/16 -18UNF UNF	NWP35,70,105,140,175,210,280,350	-	4.0	19	-	23.5	80	70
6128	9	-06	11/16 -16UN UN	NWP35,70,105,140,175,210,280,350	-	6.5	22	-	27.5	90	100
6128	12	-08	13/16 -16UN UN	NWP35,70,105,140,175,210,280,350	-	9.8	27	-	31.5	103	185
6128	15	-10	1-14UNS UNS	NWP35,70,105,140,175,210,280,350	-	11.6	30	-	36.5	123	300
6128	19	-12	1 3/16 -12UN UN	NWP35,70,105,140,175,210,280,350	-	15.3	36	-	40.5	137	450
6128	25	-16	1 7/16 -12UN UN	NWP35,70,105,140,175,210,280,350	-	19.4	41	-	43.0	151	700
6128	32	-20	1 11/16 -12UN UN	NWP35,70,105,140,175,210,280,350	-	25.0	50	-	45.0	181	1,210
6128	38	-24	2-12UN UN	NWP35,70,105,140,175,210,280,350	-	30.7	60	-	47.0	211	2,100
6128	6	-04	9/16 -18UNF UNF	YFH175,210	-	4.0	19	-	23.5	80	70
6128	9	-06	11/16 -16UN UN	YFH175,210	-	6.5	22	-	27.5	90	100
6128	12	-08	13/16 -16UN UN	YFH175,210	-	9.5	27	-	31.5	103	185
6128	15	-10	1-14UNS UNS	YFH175,210	-	11.6	30	-	36.5	112	300
6128	6	-04	9/16 -18UNF UNF	AX21	-	4.0	19	-	23.5	80	70
6128	9	-06	11/16 -16UN UN	AX21	-	6.5	22	-	27.5	90	100
6128	12	-08	13/16 -16UN UN	AX21	-	9.5	27	-	31.5	103	185
6128	15	-10	1-14UNS UNS	AX21	-	11.6	30	-	36.5	112	300
6128	12	-08	13/16 -16UN UN	AX28,35	-	9.8	27	-	31.5	103	185
6128	15	-10	1-14UNS UNS	AX28,35	-	11.6	30	-	36.5	123	300
6128	19	-12	1 3/16 -12UN UN	AX28,35	-	15.3	36	-	40.5	137	450

6228

90°ORFS Female SWEPT Elbow SAE J516/ISO12151-1



Fitting Type	mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	X (mm)	Y (mm)	H (mm)	L (mm)	Weight (g)
6228	6	-04	9/16 -18UNF UNF	OMB10F,15F,20F,25F,32F,35F	-	4.0	19	-	37.5	56	70
6228	9	-06	11/16 -16UN UN	OMB10F,15F,20F,25F,32F,35F	-	6.5	22	-	46.0	65	100
6228	12	-08	13/16 -16UN UN	OMB10F,15F,20F,25F,32F,35F	-	9.5	27	-	54.5	77	185
6228	15	-10	1-14UNS UNS	OMB10F,15F,20F,25F,32F,35F	-	11.6	30	-	65.0	90	300
6228	19	-12	1 3/16 -12UN UN	OMB10F,15F,20F,25F,32F,35F	-	15.3	36	-	73.0	104	470
6228	25	-16	1 7/16 -12UN UN	OMB10F,15F,20F,25F,32F,35F	-	19.4	41	-	81.0	120	710
6228	32	-20	1 11/16 -12UN UN	OMB10,15,20,25,32,35	-	25.0	50	-	82.0	168	1,280
6228	38	-24	2-12UN UN	OMB10,15,20,25,32,35	-	30.7	60	-	94.0	198	2,200
6228	6	-04	9/16 -18UNF UNF	NWP35,70,105,140,175,210,280,350	-	4.0	19	-	37.5	56	70
6228	9	-06	11/16 -16UN UN	NWP35,70,105,140,175,210,280,350	-	6.5	22	-	46.0	65	100
6228	12	-08	13/16 -16UN UN	NWP35,70,105,140,175,210,280,350	-	9.5	27	-	54.5	76	185
6228	15	-10	1-14UNS UNS	NWP35,70,105,140,175,210,280,350	-	11.6	30	-	65.0	90	300
6228	19	-12	1 3/16 -12UN UN	NWP35,70,105,140,175,210,280,350	-	15.3	36	-	73.0	104	470
6228	25	-16	1 7/16 -12UN UN	NWP35,70,105,140,175,210,280,350	-	19.4	41	-	81.0	120	710
6228	32	-20	1 11/16 -12UN UN	NWP35,70,105,140,175,210,280,350	-	25.0	50	-	82.0	168	1,280
6228	38	-24	2-12UN UN	NWP35,70,105,140,175,210,280,350	-	30.7	60	-	94.0	198	2,200
6228	6	-04	9/16 -18UNF UNF	YFH175,210	-	4.0	19	-	37.5	56	70
6228	9	-06	11/16 -16UN UN	YFH175,210	-	6.5	22	-	46.0	65	100
6228	12	-08	13/16 -16UN UN	YFH175,210	-	9.5	27	-	54.5	76	185
6228	15	-10	1-14UNS UNS	YFH175,210	-	11.6	30	-	65.0	79	300
6228	6	-04	9/16 -18UNF UNF	AX21	-	4.0	19	-	37.5	56	70
6228	9	-06	11/16 -16UN UN	AX21	-	6.5	22	-	46.0	65	100
6228	12	-08	13/16 -16UN UN	AX21	-	9.5	27	-	54.5	76	185
6228	15	-10	1-14UNS UNS	AX21	-	11.6	30	-	65.0	90	300
6228	12	-08	13/16 -16UN UN	AX28,35	-	9.5	27	-	54.5	76	185
6228	15	-10	1-14UNS UNS	AX28,35	-	11.6	30	-	65.0	90	300
6228	19	-12	1 3/16 -12UN UN	AX28,35	-	15.3	36	-	73.0	104	470

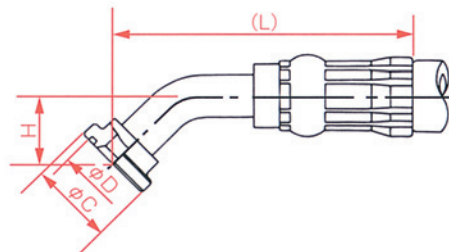


Fitting

HSF45

HSF45

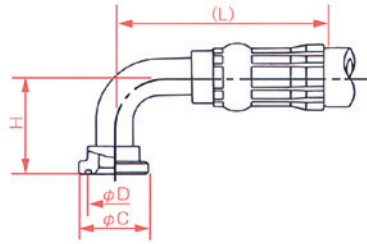
45°ISO/SAE Code62 Flange SAE J518/ISO12151-3



Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
HSF45	12	-08	1/2	-	OMB20F,25F,32F,35F	-	9.5	31.8	25.5	22.0	84	140
HSF45	19	-12	3/4	-	OMB20F,25F,32F,35F	-	15.0	41.3	31.8	32.5	126	405
HSF45	25	-16	1	-	OMB20F,25F,32F,35F	-	18.2	47.6	39.7	40.0	143	705
HSF45	32	-20	1 1/4	-	OMB20,25,32,35	-	23.0	54.0	44.5	49.5	185	1,290
HSF45	38	-24	1 1/2	-	OMB20,25,32,35	-	30.0	63.5	53.9	60	225	2,020
HSF45	50	-32	2	-	OMB20,25,32,35	-	40.0	79.4	63.4	80.5	284	3,920
HSF45	12	-08	1/2	-	NWP280,350	-	9.5	31.8	25.5	22	83	140
HSF45	19	-12	3/4	-	NWP280,350	-	15.0	41.3	31.8	32	105	405
HSF45	25	-16	1	-	NWP280,350	-	18.2	47.6	39.7	40	126	705
HSF45	32	-20	1 1/4	-	NWP280,350	-	23.0	54.0	44.5	49	184	1,290
HSF45	38	-24	1 1/2	-	NWP280,350	-	30.0	63.5	53.9	60	225	2,015
HSF45	50	-32	2	-	NWP280,350	-	40.0	79.4	63.4	80	283	3,920
HSF45	12	-08	1/2	-	AX28,35	-	9.5	31.8	25.5	23	92	185
HSF45	19	-12	3/4	-	AX28,35	-	15.0	41.3	31.8	32.5	126	405

HSF90

90°ISO/SAE Code62 Flange SAE J518/ISO12151-3

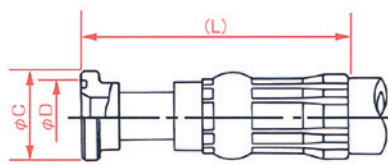


Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
HSF90	12	-08	1/2	-	OMB20F,25F,32F,35F	-	9.5	31.8	25.5	42.0	73	170
HSF90	19	-12	3/4	-	OMB20F,25F,32F,35F	-	15.0	41.3	31.8	64.0	105	440
HSF90	25	-16	1	-	OMB20F,25F,32F,35F	-	18.2	47.6	39.7	80.0	126	770
HSF90	32	-20	1 1/4	-	OMB20,25,32,35	-	23.0	54.0	44.5	99	164	1,450
HSF90	38	-24	1 1/2	-	OMB20,25,32,35	-	30.0	63.5	53.9	120	200	2,270
HSF90	50	-32	2	-	OMB20,25,32,35	-	40.0	79.4	63.4	160	249	4,400
HSF90	12	-08	1/2	-	NWP280,350	-	9.5	31.8	25.5	42	72	170
HSF90	19	-12	3/4	-	NWP280,350	-	15.0	41.3	31.8	64	105	440
HSF90	25	-16	1	-	NWP280,350	-	18.2	47.6	39.7	80	126	770
HSF90	32	-20	1 1/4	-	NWP280,350	-	23.0	54.0	44.5	99	164	1,450
HSF90	38	-24	1 1/2	-	NWP280,350	-	30.0	63.5	53.9	120	200	2,265
HSF90	50	-32	2	-	NWP280,350	-	40.0	79.4	63.4	160	249	4,400
HSF90	12	-08	1/2	-	AX28,35	-	9.0	31.8	25.5	43	81	215
HSF90	19	-12	3/4	-	AX28,35	-	15.0	41.3	31.8	64.0	111	440

HSFST

HSFST

ISO/SAE Code62 Flange SAE J518/SO12151-3



Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
HSFST	12	-08	1/2	-	OMB20F,25F,32F,35F	-	10.0	31.8	25.5	-	76	125
HSFST	19	-12	3/4	-	OMB20F,25F,32F,35F	-	15.0	41.3	31.8	-	101	355
HSFST	25	-16	1	-	OMB20F,25F,32F,35F	-	21.0	47.6	39.7	-	111	565
HSFST	32	-20	1 1/4	-	OMB20,25,32,35	-	25.5	54.0	44.5	-	129	960
HSFST	38	-24	1 1/2	-	OMB20,25,32,35	-	32.0	63.5	53.9	-	162	1,520
HSFST	50	-32	2	-	OMB20,25,32,35	-	43.0	79.4	63.4	-	190	2,850
HSFST	12	-08	1/2	-	NWP280,350	-	10.0	31.8	25.5	-	75	125
HSFST	19	-12	3/4	-	NWP280,350	-	15.0	41.3	31.8	-	100	355
HSFST	25	-16	1	-	NWP280,350	-	21.0	47.6	39.7	-	110	565
HSFST	32	-20	1 1/4	-	NWP280,350	-	25.5	54.0	44.5	-	129	960
HSFST	38	-24	1 1/2	-	NWP280,350	-	32.0	63.5	53.9	-	162	1,520
HSFST	50	-32	2	-	NWP280,350	-	43.0	79.4	63.4	-	190	2,850
HSFST	12	-08	1/2	-	AX28,35	-	9.5	31.8	25.5	-	84	170
HSFST	19	-12	3/4	-	AX28,35	-	15.0	41.3	31.8	-	101	355

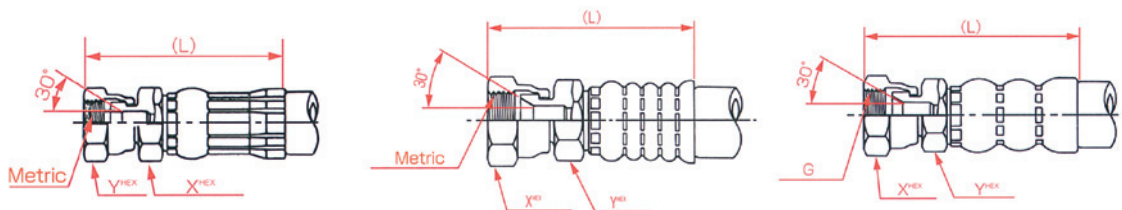


Fitting

METST

METST

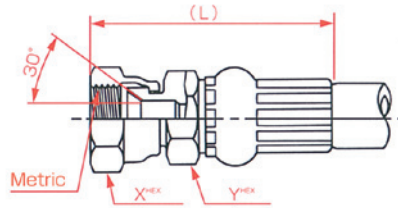
JIS Metric Female 60° Cone Seat (KOMATSU) JISB 8363



Fitting Type		mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
METST		6	-04	M14 × 1.5	NWP35,70,105,140,175,210	4.0	17	19	57	75	56	70
METST		9	-06	M18 × 1.5	NWP35,70,105,140,175,210	6.5	19	24	59	95	65	100
METST		12	-08	M22 × 1.5	NWP35,70,105,140,175,210	9.5	22	27	68	150	77	185
METST		15	-10	M24 × 1.5	NWP35,70,105,140,175,210	12.0	30	32	85	300	90	300
METST		19	-12	M30 × 1.5	NWP35,70,105,140,175,210	15.0	30	36	97	360	104	470
METST		25	-16	M33 × 1.5	NWP35,70,105,140,175,210	20.5	36	41	107	550	120	710
METST		6	-04	M14 × 1.5	YFH175,210	4.0	17	19	57	75	168	1,280
METST		9	-06	M18 × 1.5	YFH175,210	6.5	19	24	59	95	198	2,200
METST		12	-08	M22 × 1.5	YFH175,210	9.5	22	27	68	150	56	70
METST		15	-10	M24 × 1.5	YFH175,210	13.2	30	32	75	300	65	100
METST		6	-04	M14 × 1.5	YPH6,9	4.0	19	17	57	57	76	185
METST		9	-06	M18 × 1.5	YPH6,9	6.5	24	19	58	85	90	300
METST		6	-04	M14 × 1.5	AX21	4.0	17	19	57	75	104	470
METST		9	-06	M18 × 1.5	AX21	6.5	19	24	59	95	120	710
METST		12	-08	M22 × 1.5	AX21	9.5	22	27	68	150	168	1,280
METST		15	-10	M24 × 1.5	AX21	13.2	30	32	75	300	198	2,200
METST	GAC	6	-04	M14 × 1.5	L35	4.0	19	17	57	85	56	70
METST	GAC	9	-06	M18 × 1.5	L35	6.5	24	19	59	100	65	100
METST	GAC	12	-08	M22 × 1.5	L35	9.5	27	22	68	140	76	185
METST	GAC	19	-12	M30 × 1.5	L35 ※Crimping shape	15.0	36	30	97	350	79	300
METST	GAC	25	-16	M33 × 1.5	L35 ※Crimping shape	20.5	41	36	107	460	56	70
METST	GAC	6	-04	M14 × 1.5	HI-MID	4.0	19	17	57	85	65	100
METST	GAC	9	-06	M18 × 1.5	HI-MID	6.5	24	19	59	100	76	185
METST	GAC	12	-08	M22 × 1.5	HI-MID	9.5	27	22	68	140	90	300
METST	GAC	19	-12	M30 × 1.5	HI-MID ※Crimping shape	15.0	36	30	97	350	76	185
METST	GAC	25	-16	M33 × 1.5	HI-MID ※Crimping shape	20.5	41	36	107	460	90	300

METST

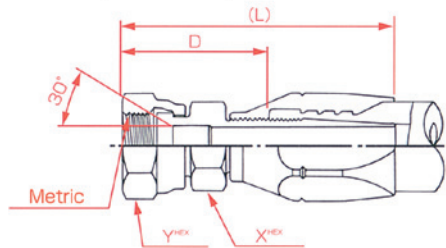
JIS Metric Female 60° Cone Seat (KOMATSU) JISB 8363



Fitting Type	mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
METST	NFC	6	-04	M14 × 1.5	NV210, NN173	-	4.0	63	19	17	75
METST	NFC	9	-06	M18 × 1.5	NV210, NN173	-	6.5	67	24	19	110
METST	NFC	12	-08	M22 × 1.5	NV210, NN173	-	9.5	72	27	22	165
METST	NBC	6	-04	M14 × 1.5	NV105	-	4.0	57	19	17	75
METST	NBC	9	-06	M18 × 1.5	NV105	-	6.5	58	24	19	85
METST	NBC	12	-08	M22 × 1.5	NV105	-	9.5	65	27	22	125
METST	NBC	6	-04	M14 × 1.5	N173(-02,-03,-12), N177(-04,-06,-08)	-	4.0	57	19	17	75
METST	NBC	9	-06	M18 × 1.5	N173(-02,-03,-12), N177(-04,-06,-08)	-	6.5	58	24	19	85
METST	NBC	12	-08	M22 × 1.5	N173(-02,-03,-12), N177(-04,-06,-08)	-	9.5	65	27	22	125
METST	NBC	19	-12	M30 × 1.5	N173(-02,-03,-12), N177(-04,-06,-08)	-	15.5	92	36	30	340

METST

JIS Metric Female 60° Cone Seat (KOMATSU) JISB 8363



Fitting Type	mm size	Dash size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
METST	AMR	8	-0405	M14 × 1.5	WSR5Z	-04	4.3	39	19	17	90
METST	AMR	9	-06	M18 × 1.5	WSR5Z	-06	6.0	41	24	19	100
METST	AMR	15	-0810	M22 × 1.5	WSR5Z	-10	10.0	49	27	22	280
METST	AMR	19	-1012	M24 × 1.5	WSR5Z	-12	14.0	56	32	30	400
METST	AHR	9	-06	M18 × 1.5	WSR2Z	-06	7.0	42.0	24	19	125
METST	AHR	12	-08	M22 × 1.5	WSR2Z	-08	9.8	48.0	17	22	180
METST	AHR	19	-1012	M24 × 1.5	WSR2Z	-12	15.5	57.0	32	30	500
METST	AHR	19	-12	M30 × 1.5	WSR2Z	-12	15.5	62.0	36	30	510
METST	AHR	25	-16	M33 × 1.5	WSR2Z	-16	20.7	76.5	41	36	790

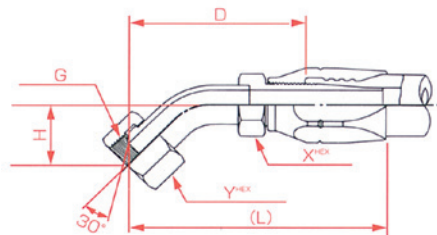


Fitting

ML45

ML45

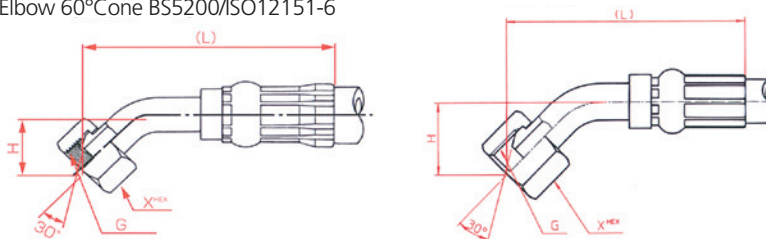
45°BSP Female SWEPT Slide-back Elbow 60°Cone BS5200/ISO12151-6



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	H (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
ML45	AMR	6	-04	1/4	G (BSP/PF)	WSR5Z	-05	4.3	55	22	75	19	17	115
ML45	AMR	9	-06	3/8	G (BSP/PF)	WSR5Z	-06	6.0	65	26	88	22	19	130
ML45	AMR	15	-0810	1/2	G (BSP/PF)	WSR5Z	-10	10.0	74	30	106	27	22	300
ML45	AHR	6	-04	1/4	G (BSP/PF)	WSR2Z	-04	4.3	56.5	21.5	88	19	17	150
ML45	AHR	9	-06	3/8	G (BSP/PF)	WSR2Z	-06	7.0	66	26	103	22	19	220
ML45	AHR	12	-08	1/2	G (BSP/PF)	WSR2Z	-08	9.8	74.5	29.5	113	27	22	430

ML45

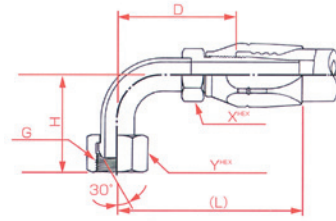
45°BSP Female SWEPT Slide-back Elbow 60°Cone BS5200/ISO12151-6



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	H (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
ML45		6	-04	1/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	4.0	21.5	74	19	-	75
ML45		9	-06	3/8	G (BSP/PF)	OMB10F,15F,20F,25F	-	6.5	26.0	84	22	-	105
ML45		12	-08	1/2	G (BSP/PF)	OMB10F,15F,20F,25F	-	9.5	29.5	96	27	-	175
ML45		19	-12	3/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	15.0	36.0	127	36	-	420
MEL45		25	-16	1	G (BSP/PF)	OMB10F,15F,20F,25F	-	20.4	39.5	140	41	-	700
ML45		6	-04	1/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	4.0	21.5	73	19	-	75
ML45		9	-06	3/8	G (BSP/PF)	NWP35,70,105,140,175,210	-	6.5	26.0	84	22	-	105
ML45		12	-08	1/2	G (BSP/PF)	NWP35,70,105,140,175,210	-	9.5	29.5	95	27	-	175
ML45		15	-10	5/8	G (BSP/PF)	NWP35,70,105,140,175,210	-	12.5	36.0	120	36	-	330
ML45		19	-12	3/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	12.5	36.0	126	36	-	420
ML45		25	-16	1	G (BSP/PF)	NWP35,70,105,140,175,210	-	20.4	39.5	140	41	-	700
MEL45		25	-16	1	G (BSP/PF)	NWP35,70,105,140,175,210	-	20.4	39.5	140	41	-	700
ML45		6	-04	1/4	G (BSP/PF)	YFH175,210	-	4.0	21.5	73	19	-	75
ML45		9	-06	3/8	G (BSP/PF)	YFH175,210	-	6.5	26.0	84	22	-	105
ML45		12	-08	1/2	G (BSP/PF)	YFH175,210	-	9.5	29.5	95	27	-	175
ML45	NFC	6	-04	1/4	G (BSP/PF)	NV210,NN173	-	4.0	21.5	79	19	-	75
ML45	NFC	9	-06	3/8	G (BSP/PF)	NV210,NN173	-	6.5	26.0	90	22	-	105
ML45	NFC	12	-08	1/2	G (BSP/PF)	NV210,NN173	-	9.5	29.5	104	27	-	190
ML45	NBC	6	-04	1/4	G (BSP/PF)	NV105	-	4.0	21.5	74	19	-	45
ML45	NBC	9	-06	3/8	G (BSP/PF)	NV105	-	6.5	26.0	82	22	-	85
ML45	NBC	12	-08	1/2	G (BSP/PF)	NV105	-	9.5	29.5	91	27	-	135
ML45	NBC	6	-04	1/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	4.0	21.5	74	19	-	45
ML45	NBC	9	-06	3/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	6.5	26.0	82	22	-	85
ML45	NBC	12	-08	1/2	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	9.5	29.5	91	27	-	135

ML90

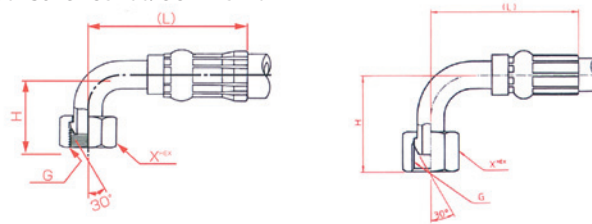
90°BSP Female SWEPT Slide-back Elbow 60°Cone BS5200/ISO12151-6



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	D (mm)	H (mm)	L (mm)	Y (mm)	X (mm)	Weight (g)
ML90	AMR	6	-04	1/4	G (BSP/PF)	WSR5Z	-04	4.3	38	35	58	19	17	120
ML90	AMR	9	-06	3/8	G (BSP/PF)	WSR5Z	-06	6.0	46	44	70	22	19	155
ML90	AMR	15	-0810	1/2	G (BSP/PF)	WSR5Z	-10	10.0	55	53	88	27	22	330
ML90	AHR	6	-04	1/4	G (BSP/PF)	WSR2Z	-04	4.3	39.5	35	71	19	17	120
ML90	AHR	9	-06	3/8	G (BSP/PF)	WSR2Z	-06	7.0	47.5	44	85	22	19	220
ML90	AHR	12	-08	1/2	G (BSP/PF)	WSR2Z	-08	9.8	57	53	96	27	22	450

ML90

90°BSP Female SWEPT Slide-back Elbow 60°Cone BS5200/ISO12151-6



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Hose Size	Inner Diameter	H (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
ML90		6	-04	1/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	4.0	35.0	59	19	-	75
ML90		9	-06	3/8	G (BSP/PF)	OMB10F,15F,20F,25F	-	6.5	44.0	68	22	-	115
ML90		12	-08	1/2	G (BSP/PF)	OMB10F,15F,20F,25F	-	9.5	53.0	79	27	-	185
ML90		19	-12	3/4	G (BSP/PF)	OMB10F,15F,20F,25F	-	15.0	67.5	108	36	-	460
MEL90	MEL90	25	-16	1	G (BSP/PF)	OMB10F,15F,20F,25F	-	20.4	76.5	121	41	-	810
ML90		6	-04	1/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	4.0	35.0	59	19	-	75
ML90		9	-06	3/8	G (BSP/PF)	NWP35,70,105,140,175,210	-	6.5	44.0	68	22	-	115
ML90		12	-08	1/2	G (BSP/PF)	NWP35,70,105,140,175,210	-	9.5	53.0	79	27	-	185
ML90		15	-1210	3/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	12.5	67.5	101	36	-	340
ML90		19	-12	3/4	G (BSP/PF)	NWP35,70,105,140,175,210	-	15.3	67.5	108	36	-	460
MEL90	MEL90	25	-16	1	G (BSP/PF)	NWP35,70,105,140,175,210	-	20.4	76.5	121	41	-	810
ML90		6	-04	1/4	G (BSP/PF)	YFH175,210	-	4.0	35.0	59	19	-	75
ML90		9	-06	3/8	G (BSP/PF)	YFH175,210	-	6.5	44.0	68	22	-	115
ML90		12	-08	1/2	G (BSP/PF)	YFH175,210	-	9.5	53.0	79	27	-	185
ML90	NFC	6	-04	1/4	G (BSP/PF)	NV210,NN173	-	4.0	35.0	65.5	19	-	100
ML90	NFC	9	-06	3/8	G (BSP/PF)	NV210,NN173	-	6.5	44.0	75.5	22	-	115
ML90	NFC	12	-08	1/2	G (BSP/PF)	NV210,NN173	-	9.5	54.0	81.0	27	-	200
ML90	NBC	6	-04	1/4	G (BSP/PF)	NV105	-	4.0	35.0	60	19	-	70
ML90	NBC	9	-06	3/8	G (BSP/PF)	NV105	-	6.5	44.0	67	22	-	95
ML90	NBC	12	-08	1/2	G (BSP/PF)	NV105	-	9.5	53.0	75	27	-	145
ML90	NBC	6	-04	1/4	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	4.0	35.0	60	19	-	70
ML90	NBC	9	-06	3/8	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	6.5	44.0	67	22	-	95
ML90	NBC	12	-08	1/2	G (BSP/PF)	N173(-02,-03,-12), N177(-04,-06,-08)	-	9.5	53.0	75	27	-	145

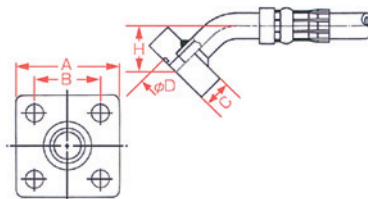


Fitting

SHA45

SHA45

JIS 21Mpa B2291 Square Flange 45°Elbow



Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	A (mm)	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
SHA45	12	-08	1/2	-	OMB10F,15F,20F,25F,32F,35F	16.0	63	40	22	30	39	125	825
SHA45	19	-12	3/4	-	OMB10F,15F,20F,25F,32F,35F	20.0	68	45	22	35	40	149	1,450
SHA45	25	-16	1	-	OMB10F,15F,20F,25F,32F,35F	25.0	80	53	28	40	41.5	152	1,845
SHA45	32	-20	1 1/4	-	OMB10,15,20,25,32,35	25.5	90	63	28	45	50	194	2,150
SHA45	38	-24	1 1/2	-	OMB10,15,20,25,32,35	32.0	100	70	36	55	53	225	3,880
SHA45	50	-32	2	-	OMB10,15,20,25,32,35	43.0	112	80	36	65	65	243	6,000
SHA45	12	-08	1/2	-	NWP35,70,105,140,175,210	16.0	63	40	22	30	39.0	124	825
SHA45	19	-12	3/4	-	NWP35,70,105,140,175,210	20.0	68	45	22	35	40.0	148	1,550
SHA45	25	-16	1	-	NWP35,70,105,140,175,210	25.0	80	53	28	40	41.5	151	1,845
SHA45	32	-20	1 1/4	-	NWP35,70,105,140,175,210	25.5	90	63	28	45	50.0	194	2,150
SHA45	38	-24	1 1/2	-	NWP35,70,105,140,175,210	32.0	100	70	36	55	53.0	225	3,880
SHA45	50	-32	2	-	NWP35,70,105,140,175,210	43.0	112	80	36	65	65.0	243	6,000
SHA45	32	-20	1 1/4	-	NWP35,70(ϕ 32,38,50)	27.5	90	63	28	45	50	178	2,040
SHA45	38	-24	1 1/2	-	NWP35,70(ϕ 32,38,50)	32.5	100	70	36	55	53	212	3,655
SHA45	50	-32	2	-	NWP35,70(ϕ 32,38,50)	44.0	112	80	36	65	65	211	5,420
SHA45	12	-08	1/2	-	G210	16.0	63	40	22	30	39.0	132	850
SHA45	19	-12	3/4	-	G210	20.0	68	45	22	35	40.0	148	1,550
SHA45	25	-16	1	-	G210	25.0	80	53	28	40	41.5	151	1,845
SHA45	32	-20	1 1/4	-	G210	25.5	90	63	28	45	50.0	194	2,150
SHA45	38	-24	1 1/2	-	G210	32.0	100	70	36	55	53.0	225	3,880
SHA45	50	-32	2	-	G210	43.0	112	80	36	65	65.0	243	6,000
SHA45	12	-08	1/2	-	P210	16.0	63	40	22	30	39	124	825
SHA45	19	-12	3/4	-	P210	20.0	68	45	22	35	40	148	1,550
SHA45	25	-16	1	-	P210	25.0	80	53	28	40	41	151	1,845
SHA45	32	-20	1 1/4	-	P210	25.5	90	63	28	45	50	213	2,430
SHA45	38	-24	1 1/2	-	P210	32.0	100	70	36	55	53	253	4,285
SHA45	50	-32	2	-	P210	43.0	112	80	36	65	65	268	6,810

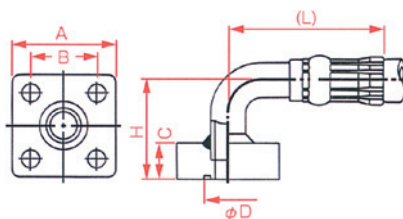


Fitting

SHA90

SHA90

JIS 21Mpa B2291 Square Flange 90°Elbow



Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	A (mm)	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
SHA90	12	-08	1/2	-	OMB10F,15F,20F,25F,32F,35F	16.0	63	40	22	30	67	90	820
SHA90	19	-12	3/4	-	OMB10F,15F,20F,25F,32F,35F	20.0	68	45	22	35	77	122	1,210
SHA90	25	-16	1	-	OMB10F,15F,20F,25F,32F,35F	25.0	80	53	28	40	93	135	1,995
SHA90	32	-20	1 1/4	-	OMB10,15,20,25,32,35	25.5	90	63	28	45	108	172	2,900
SHA90	38	-24	1 1/2	-	OMB10,15,20,25,32,35	32.0	100	70	36	55	126	207	3,020
SHA90	50	-32	2	-	OMB10,15,20,25,32,35	43.0	112	80	36	65	141	228	6,300
SHA90	12	-08	1/2	-	NWP35,70,105,140,175,210	16.0	63	40	22	30	67	89	820
SHA90	19	-12	3/4	-	NWP35,70,105,140,175,210	20.0	68	45	22	35	77	122	1,210
SHA90	25	-16	1	-	NWP35,70,105,140,175,210	25.0	80	53	28	40	93	135	1,995
SHA90	32	-20	1 1/4	-	NWP35,70,105,140,175,210	25.5	90	63	28	45	108	172	2,900
SHA90	38	-24	1 1/2	-	NWP35,70,105,140,175,210	32.0	100	70	36	55	126	207	4,135
SHA90	50	-32	2	-	NWP35,70,105,140,175,210	43.0	112	80	36	65	141	228	6,300
SHA90	32	-20	1 1/4	-	NWP35,70(φ32,38,50)	27.5	90	63	28	45	108	159	2,760
SHA90	38	-24	1 1/2	-	NWP35,70(φ32,38,50)	32.5	100	70	36	55	126	193	4,010
SHA90	50	-32	2	-	NWP35,70(φ32,38,50)	44.0	112	80	36	65	141	200	5,700
SHA90	12	-08	1/2	-	G210	16.0	63	40	22	30	67	97	850
SHA90	19	-12	3/4	-	G210	20.0	68	45	22	35	77	122	1,210
SHA90	25	-16	1	-	G210	25.0	80	53	28	40	93	135	2,010
SHA90	32	-20	1 1/4	-	G210	25.5	90	63	28	45	108	172	2,930
SHA90	38	-24	1 1/2	-	G210	32.0	100	70	36	55	126	207	4,215
SHA90	50	-32	2	-	G210	43.0	112	80	36	65	141	228	6,400
SHA90	12	-08	1/2	-	P210	16.0	63	40	22	30	67	89	835
SHA90	19	-12	3/4	-	P210	20.0	68	45	22	35	77	122	1,210
SHA90	25	-16	1	-	P210	25.0	80	53	28	40	93	135	2,010
SHA90	32	-20	1 1/4	-	P210	25.5	90	63	28	45	108	191	3,110
SHA90	38	-24	1 1/2	-	P210	32.0	100	70	36	55	126	225	4,620
SHA90	50	-32	2	-	P210	43.0	112	80	36	65	141	253	7,210

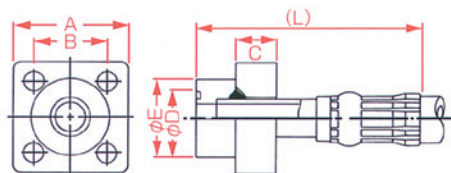


Fitting

SHALS

SHALS

JIS 21Mpa B2291 Loose Flange



Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	L (mm)	Weight (g)
SHALS	12	-08	1/2	-	OMB10F,15F,20F,25F,32F,35F	16.0	63	40	22	30	44	99	1,440
SHALS	19	-12	3/4	-	OMB10F,15F,20F,25F,32F,35F	20.0	68	45	22	35	51	108	1,565
SHALS	25	-16	1	-	OMB10F,15F,20F,25F,32F,35F	25.0	80	53	28	40	60	144	2,040
SHALS	32	-20	1 1/4	-	OMB10,15,20,25,32,35	25.5	90	63	28	45	74	170	4,080
SHALS	38	-24	1 1/2	-	OMB10,15,20,25,32,35	32.0	100	70	36	55	79	189	5,080
SHALS	50	-32	2	-	OMB10,15,20,25,32,35	43.0	112	80	36	65	93	216	7,170
SHALS	12	-08	1/2	-	NWP35,70,105,140,175,210	16.0	63	40	22	30	44	98	1,440
SHALS	19	-12	3/4	-	NWP35,70,105,140,175,210	20.0	68	45	22	35	51	108	1,565
SHALS	25	-16	1	-	NWP35,70,105,140,175,210	25.0	80	53	28	40	60	144	2,040
SHALS	32	-20	1 1/4	-	NWP35,70,105,140,175,210	25.5	90	63	28	45	74	170	4,080
SHALS	38	-24	1 1/2	-	NWP35,70,105,140,175,210	32.0	100	70	36	55	79	189	5,080
SHALS	50	-32	2	-	NWP35,70,105,140,175,210	43.0	112	80	36	65	93	216	7,170
SHALS	32	-20	1 1/4	-	NWP35,70(ϕ 32,38,50)	27.5	90	63	28	45	74	142	2,650
SHALS	38	-24	1 1/2	-	NWP35,70(ϕ 32,38,50)	32.5	100	70	36	55	79	163	4,830
SHALS	50	-32	2	-	NWP35,70(ϕ 32,38,50)	44.0	112	80	36	65	93	184	4,650
SHALS	12	-08	1/2	-	G210	16.0	63	40	22	30	44	106	1,470
SHALS	19	-12	3/4	-	G210	20.0	68	45	22	35	51	108	1,560
SHALS	25	-16	1	-	G210	25.0	80	53	28	40	60	144	2,020
SHALS	32	-20	1 1/4	-	G210	25.5	90	63	28	45	74	170	4,110
SHALS	38	-24	1 1/2	-	G210	32.0	100	70	36	55	79	189	5,160
SHALS	50	-32	2	-	G210	43.0	112	80	36	65	93	216	7,270
SHALS	12	-08	1/2	-	P210	16.0	63	40	22	30	44	98	950
SHALS	19	-12	3/4	-	P210	20.0	68	45	22	35	51	108	1,560
SHALS	25	-16	1	-	P210	25.0	80	53	28	40	60	144	2,020
SHALS	32	-20	1 1/4	-	P210	25.5	90	63	28	45	74	179	4,250
SHALS	38	-24	1 1/2	-	P210	32.0	100	70	36	55	79	203	5,410
SHALS	50	-32	2	-	P210	43.0	112	80	36	65	93	242	7,960

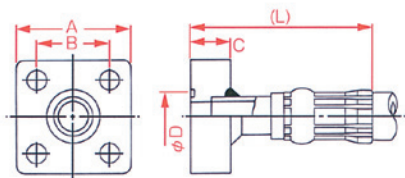


Fitting

SHAST

SHAST

JIS 21Mpa B2291 Square Flange



Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	A (mm)	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
SHAST	12	-08	1/2	-	OMB10F,15F,20F,25F,32F,35F	16.0	63	40	22	30	-	77	675
SHAST	19	-12	3/4	-	OMB10F,15F,20F,25F,32F,35F	20.0	68	45	22	35	-	108	925
SHAST	25	-16	1	-	OMB10F,15F,20F,25F,32F,35F	25.0	80	53	28	40	-	112	1,585
SHAST	32	-20	1 1/4	-	OMB10,15,20,25,32,35	25.5	90	63	28	45	-	135	2,180
SHAST	38	-24	1 1/2	-	OMB10,15,20,25,32,35	32.0	100	70	36	55	-	160	3,190
SHAST	50	-32	2	-	OMB10,15,20,25,32,35	43.0	112	80	36	65	-	181	4,555
SHAST	12	-08	1/2	-	NWP35,70,105,140,175,210	16.0	63	40	22	30	-	76	675
SHAST	19	-12	3/4	-	NWP35,70,105,140,175,210	20.0	68	45	22	35	-	108	925
SHAST	25	-16	1	-	NWP35,70,105,140,175,210	25.0	80	53	28	40	-	112	1,585
SHAST	32	-20	1 1/4	-	NWP35,70,105,140,175,210	25.5	90	63	28	45	-	135	2,180
SHAST	38	-24	1 1/2	-	NWP35,70,105,140,175,210	32.0	100	70	36	55	-	160	3,190
SHAST	50	-32	2	-	NWP35,70,105,140,175,210	43.0	112	80	36	65	-	181	4,558
SHAST	32	-20	1 1/4	-	NWP35,70(ϕ 32,38,50)	27.5	90	63	28	45	-	114	2,935
SHAST	38	-24	1 1/2	-	NWP35,70(ϕ 32,38,50)	32.5	100	70	36	55	-	127	2,810
SHAST	50	-32	2	-	NWP35,70(ϕ 32,38,50)	44.0	112	80	36	65	-	148	3,890
SHAST	12	-08	1/2	-	G210	16.0	63	40	22	30	-	84	720
SHAST	19	-12	3/4	-	G210	20.0	68	45	22	35	-	108	920
SHAST	25	-16	1	-	G210	25.0	80	53	28	40	-	112	1,600
SHAST	32	-20	1 1/4	-	G210	25.5	90	63	28	45	-	135	2,210
SHAST	38	-24	1 1/2	-	G210	32.0	100	70	36	55	-	160	3,270
SHAST	50	-32	2	-	G210	43.0	112	80	36	65	-	181	4,660
SHAST	12	-08	1/2	-	P210	16.0	63	40	22	30	-	85	690
SHAST	19	-12	3/4	-	P210	20.0	68	45	22	35	-	108	920
SHAST	25	-16	1	-	P210	25.0	80	53	28	40	-	112	1,600
SHAST	32	-20	1 1/4	-	P210	25.5	90	63	28	45	-	160	2,420
SHAST	38	-24	1 1/2	-	P210	32.0	100	70	36	55	-	178	3,400
SHAST	50	-32	2	-	P210	43.0	112	80	36	65	-	206	5,200

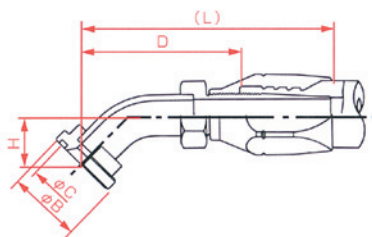


Fitting

SSF45

SSF45

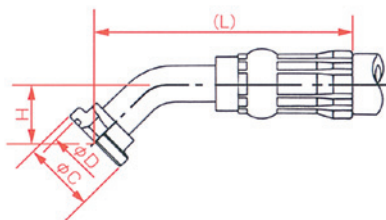
45°ISO/SAE Code61 Flange SAE J518/ISO12151-3



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	Inner Diameter	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
SSF45	AHR	12	-08	1/2	-	WSR2Z	-08	9.8	30.2	25.5	62	21	101	290
SSF45	AHR	19	-12	3/4	-	WSR2Z	-12	15.5	38.1	31.8	76	25	123	490
SSF45	AHR	25	-16	1	-	WSR2Z	-16	20.5	44.5	39.7	93	28	145	755

SSF45

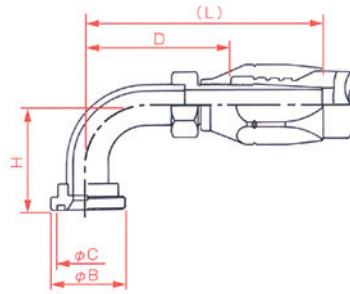
45°ISO/SAE Code61 Flange SAE J518/ISO12151-3



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	Inner Diameter	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
SSF45		12	-08	1/2	-	OMB10F,15F,20F	-	-	-	30.2	25.5	21	83	145
SSF45		19	-12	3/4	-	OMB10F,15F,20F	-	-	-	38.1	31.8	26	111	330
SSF45		25	-16	1	-	OMB10F,15F,20F	-	-	-	44.5	39.7	28	131	590
SSF45		32	-20	1 1/4	-	OMB10,15,20	-	-	-	50.8	44.5	29	151	840
SSF45		38	-24	1 1/2	-	OMB10,15,20	-	-	-	60.3	53.9	36	185	1,440
SSF45		50	-32	2	-	OMB10,20	-	-	-	71.4	63.4	51	228	3,000
SSF45		12	-08	1/2	-	NWP35,70,105,140,175,210	-	-	-	30.2	25.5	21	82	145
SSF45		19	-12	3/4	-	NWP35,70,105,140,175,210	-	-	-	38.1	31.8	26	111	330
SSF45		25	-16	1	-	NWP35,70,105,140,175,210	-	-	-	44.5	39.7	28	126	590
SSF45		32	-20	1 1/4	-	NWP35,70,105,140,175,210	-	-	-	50.8	44.5	29	151	840
SSF45		38	-24	1 1/2	-	NWP35,70,105,140,175,210	-	-	-	60.3	53.9	36	185	1,440
SSF45		50	-32	2	-	NWP35,70,105,140,175,210	-	-	-	71.4	63.4	51	228	3,000

SSF90

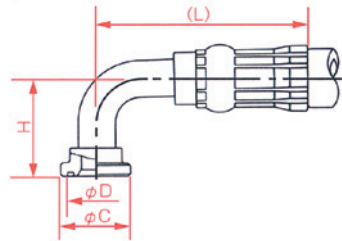
90°ISO/SAE Code61 Flange SAE J518/ISO12151-3



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	Inner Diameter	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
SSF90	AHR	12	-08	1/2	-	WSR2Z	-08	9.8	30.2	25.5	52	41	91	290
SSF90	AHR	19	-12	3/4	-	WSR2Z	-12	15.5	38.1	31.8	70	54	117	540
SSF90	AHR	25	-16	1	-	WSR2Z	-16	20.5	44.5	39.7	87	61	139	810

SSF90

90°ISO/SAE Code61 Flange SAE J518/ISO12151-3



Fitting Type	mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	Inner Diameter	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
SSF90	12	-08	1/2	-	OMB10F,15F,20F	-	-	-	30.2	25.5	41	73	165
SSF90	19	-12	3/4	-	OMB10F,15F,20F	-	-	-	38.1	31.8	55	105	360
SSF90	25	-16	1	-	OMB10F,15F,20F	-	-	-	44.5	39.7	61	126	645
SSF90	32	-20	1 1/4	-	OMB10,15,20	-	-	-	50.8	44.5	67	146	950
SSF90	38	-24	1 1/2	-	OMB10,15,20	-	-	-	60.3	53.9	86	182	1,580
SSF90	50	-32	2	-	OMB10,20	-	-	-	71.4	63.4	115	224	3,150
SSF90	12	-08	1/2	-	NWP35,70,105,140,175,210	-	-	-	30.2	25.5	41	72	165
SSF90	19	-12	3/4	-	NWP35,70,105,140,175,210	-	-	-	38.1	31.8	55	105	360
SSF90	25	-16	1	-	NWP35,70,105,140,175,210	-	-	-	44.5	39.7	61	126	645
SSF90	32	-20	1 1/4	-	NWP35,70,105,140,175,210	-	-	-	50.8	44.5	67	146	950
SSF90	38	-24	1 1/2	-	NWP35,70,105,140,175,210	-	-	-	60.3	53.9	86	182	1,580
SSF90	50	-32	2	-	NWP35,70,105,140,175,210	-	-	-	71.4	63.4	115	224	3,150

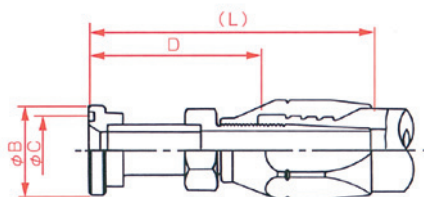


Fitting

SSFST

SSFST

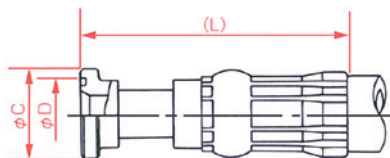
ISO/SAE Code61 Flange SAE J518/ISO1251-3



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	Inner Diameter	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
SSFST	AHR	12	-08	1/2	-	WSR2Z	-08	9.8	30.2	25.5	55	93	260	290
SSFST	AHR	19	-12	3/4	-	WSR2Z	-12	15.5	38.1	31.8	64	111	510	490
SSFST	AHR	25	-16	1	-	WSR2Z	-16	20.5	44.5	39.7	77	129	680	755

SSFST

ISO/SAE Code61 Flange SAE J518/ISO1251-3



Fitting Type		mm size	Dash size	Inch size	Thread Type	Hose	Inner Diameter	Inner Diameter	B (mm)	C (mm)	D (mm)	H (mm)	L (mm)	Weight (g)
SSFST		12	-08	1/2	-	OMB10F,15F,20F	-	-	-	30.2	25.5	-	73	110
SSFST		19	-12	3/4	-	OMB10F,15F,20F	-	-	-	38.1	31.8	-	97	340
SSFST		25	-16	1	-	OMB10F,15F,20F	-	-	-	44.5	39.7	-	105	550
SSFST		32	-20	1 1/4	-	OMB10,15,20	-	-	-	50.8	44.5	-	120	880
SSFST		38	-24	1 1/2	-	OMB10,15	-	-	-	60.3	53.9	-	149	1,210
SSFST		50	-32	2	-	OMB10,20	-	-	-	71.4	63.4	-	170	2,325
SSFST		12	-08	1/2	-	NWP35,70,105,140,175,210	-	-	-	30.2	25.5	-	73	110
SSFST		19	-12	3/4	-	NWP35,70,105,140,175,210	-	-	-	38.1	31.8	-	97	340
SSFST		25	-16	1	-	NWP35,70,105,140,175,210	-	-	-	44.5	39.7	-	105	550
SSFST		32	-20	1 1/4	-	NWP35,70,105,140,175,210	-	-	-	50.8	44.5	-	120	880
SSFST		38	-24	1 1/2	-	NWP35,70,105,140,175,210	-	-	-	60.3	53.9	-	149	1,210
SSFST		50	-32	2	-	NWP35,70,105,140,175,210	-	-	-	71.4	63.4	-	170	2,325



Accessories

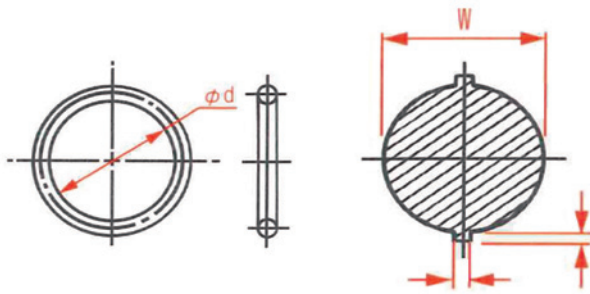
Product Line Up

Accessories

O RING, ADPT



YRC reserves the right to modify any data. Eventual and any kind of modifications can be carried out without any notice.
For more details on the hose shown in this catalog and their application, please be advised to contact your YRC customer service listed above.

**SSF/HSF Code61, 62 (Hardness : 90°)**

Size	Parts Number		d (mm)	W (mm)
-08	AS568-210-1B	AN6227 15	18.64 ± 0.25	3.53 ± 0.1
-12	AS568-214-1B	AN6227 19	24.99 ± 0.25	
-16	AS568-219-1B	AN6227 24	32.92 ± 0.30	
-20	AS568-222-1B	AN6227 27	37.69 ± 0.38	
-24	AS568-225-1B	AN6230 3	47.22 ± 0.45	
-32	AS568-228-1B	AN6230 6	56.75 ± 0.55	
-40	AS568-232-1B	AN6230 10	69.45 ± 0.60	

JIS 21Mpa for SHA, SSA

Size	Parts Number	JIS B2401	d (mm)	W (mm)
-08 / 12	G251B	G25	24.4 ± 0.25	3.1 ± 0.10
-12 / 19	G301B	G30	29.4 ± 0.29	
-16 / 25	G351B	G35	34.4 ± 0.33	
-20 / 32	G401B	G40	39.4 ± 0.37	
-24 / 38	G501B	G50	49.4 ± 0.45	
-32 / 50	G601B	G60	59.4 ± 0.53	

ORS(WSOR)

Size	Parts Number	Thread	d (mm)	W (mm)
-04	AS568-011-1B	9/16-18UNF	7.65 ± 0.12	1.78 ± 0.07
-06	AS568-012-1B	11/16-16UN	9.25 ± 0.12	
-08	AS568-014-1B	13/16-16UN	12.42 ± 0.13	
-10	AS568-016-1B	1-14UNS	15.60 ± 0.22	
-12	AS568-018-1B	1 3/16-12UN	18.77 ± 0.22	
-16	AS568-021-1B	1 7/16-12UN	23.52 ± 0.22	
-20	AS568-025-1B	1 11/16-12UN	29.87 ± 0.28	
-24	AS568-029-1B	2-12UN	37.82 ± 0.33	

KSF(KOMATSU STD PRESSURE)

Cord / mm	Parts Number	O ring Cord	d (mm)	W (mm)
04 / 12	KSF 12	P 21	20.8 ± 0.23	2.4 ± 0.09
05 / 15	KSF 15	P 22A	21.7 ± 0.24	
06 / 19	KSF 19	P 25	24.7 ± 0.25	3.5 ± 0.10
10 / 25	KSF 25	P 32	31.7 ± 0.31	
12 / 32	KSF 32	P 38	37.7 ± 0.37	
14 / 38	KSF 38	P 48	47.7 ± 0.44	
20 / 50	KSF 50	G 60	59.4 ± 0.53	3.1 ± 0.10

DKOSL/DKOL Light Series

Size	Parts Number	Thread	Parts Number	d (mm)	W (mm)
-04	Y22660-6-A9	M14 X 1.5	P6	5.8 ± 0.15	1.9 ± 0.08
-04	Y22660-8-A9	M16 X 1.5	P8	7.8 ± 0.16	
-06	Y22660-10-A9	M18 X 1.5	P10	9.8 ± 0.17	
-08	Y22660-12-A9	M22 X 1.5	P12	11.8 ± 0.19	2.4 ± 0.09
-10	Y29513-016-A9	M26 X 1.5	AS568-016	15.6 ± 0.22	1.78 ± 0.07
-12	Y22660-18-A9	M30 X 2.0	P18	17.8 ± 0.21	2.4 ± 0.09
-16	Y29513-120-A9	M36 X 2.0	AS568-120	25.07 ± 0.25	2.62 ± 0.07
-20	Y29513-124-A9	M45 X 2.0	AS568-124	31.42 ± 0.3	
-24	Y29513-129-A9	M52 X 2.0	AS568-129	39.34 ± 0.38	

DKOSH/DKOS Heavy Series

Size	Parts Number	Thread	Parts Number	d (mm)	W (mm)
-04	Y22660-6-A9	M16 X 1.5	P6	5.8 ± 0.15	1.9 ± 0.08
-04	Y22660-8-A9	M18 X 1.5	P8	7.8 ± 0.16	
-06	Y22660-10-A9	M20 X 1.5	P10	9.8 ± 0.17	
-08	Y22617-906-A	M22 X 1.5	AS568-906	11.89 ± 0.12	1.98 ± 0.07
-10	Y22617-907-A	M24 X 1.5	AS568-907	13.46 ± 0.18	2.08 ± 0.07
-12	Y22617-909-A	M30 X 2.0	AS568-909	17.93 ± 0.23	2.46 ± 0.07
-16	Y29513-118-A9	M36 X 2.0	AS568-118	21.89 ± 0.25	2.62 ± 0.07
-20	Y29513-121-A9	M42 X 2.0	AS568-121	26.64 ± 0.25	
-24	Y29513-126-A9	M52 X 2.0	AS568-126	34.59 ± 0.30	

ORB

Size	Parts Number	JIS B2401	Parts Number	d (mm)	W (mm)
-04	P111B	P11	-	10.8 ± 0.18	2.4 ± 0.09
-06	P141B	P14	-	13.8 ± 0.19	
-08	P181B	P18	-	17.8 ± 0.21	
-10	P241B	P24	-	23.7 ± 0.24	3.5 ± 0.1
-12	P291B	P29	-	28.7 ± 0.29	
-20	P381B	P38	-	37.7 ± 0.37	
-24	P441B	P44	-	43.7 ± 0.41	

KHF(KOMATSU HIGH PRESSURE)

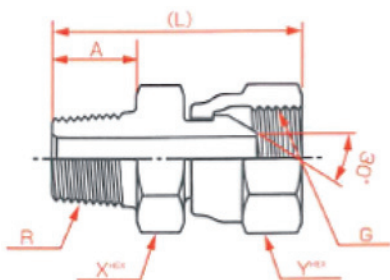
Cord / mm	Parts Number	O ring Cord	d (mm)	W (mm)
12 / 32	KHF 32	P 32	31.7 ± 0.31	3.5 ± 0.10
14 / 38	KHF 38	P 48	47.7 ± 0.44	
20 / 50	KHF 50	G 65	64.4 ± 0.57	3.1 ± 0.10



Accessories

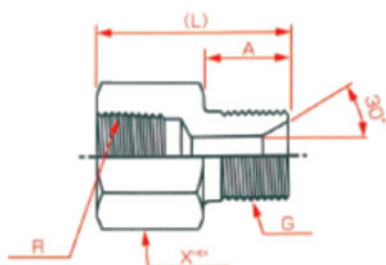
Adapter

1006 (Connect to 1002)



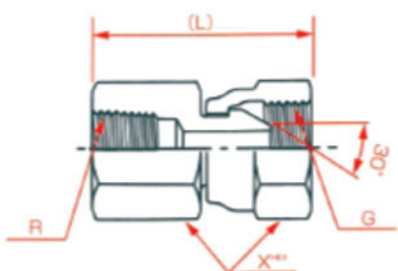
Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1006 6	1/4	5	13	-	39	17	19	55
1006 9	3/8	8	15	-	43	19	22	70
1006 12	1/2	11	18	-	49	22	27	115
1006 19	3/4	16	20	-	56	30	36	240
1006 25	1	22	22	-	61	36	41	305
1006 32	1 1/4	27.5	25	-	70	46	50	540
1006 38	1 1/2	34	25	-	73	50	60	710
1006 50	2	46	29	-	84	65	70	1,080

1007 (Connect to 1001,1005)



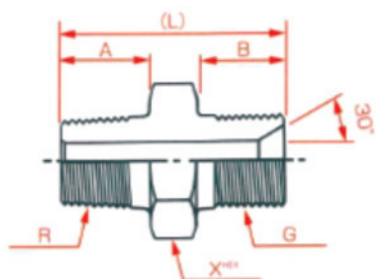
Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1007 6	1/4	5	13	-	30	19	-	35
1007 9	3/8	8	15	-	34	22	-	55
1007 12	1/2	11	18	-	40	27	-	95
1007 19	3/4	16	20	-	45	36	-	175
1007 25	1	22	22	-	49	41	-	220
1007 32	1 1/4	27.5	25	-	55	50	-	350
1007 38	1 1/2	34	25	-	55	60	-	470
1007 50	2	46	29	-	65	70	-	710

1008 (Connect to 1001,1002)



Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1008 6	1/4	5	-	-	35	19	-	55
1008 9	3/8	8	-	-	39	22	-	75
1008 12	1/2	11	-	-	44	27	-	120
1008 19	3/4	16	-	-	49	36	-	260
1008 25	1	22	-	-	53	41	-	330
1008 32	1 1/4	27.5	-	-	62	50	-	420
1008 38	1 1/2	34	-	-	64	60	-	680
1008 50	2	46	-	-	74	70	-	950

1009 (Connect to 1005)



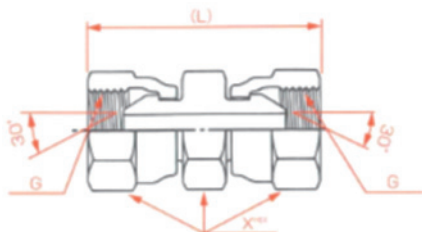
Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1009 6	1/4	5	13	13	34	17	-	40
1009 9	3/8	8	15	15	38	19	-	60
1009 12	1/2	11	18	18	46	22	-	100
1009 19	3/4	16	20	20	52	30	-	170
1009 25	1	22	22	22	56	36	-	255
1009 32	1 1/4	27.5	25	25	64	46	-	460
1009 38	1 1/2	34	25	25	65	50	-	520
1009 50	2	46	29	29	76	65	-	860



Accessories

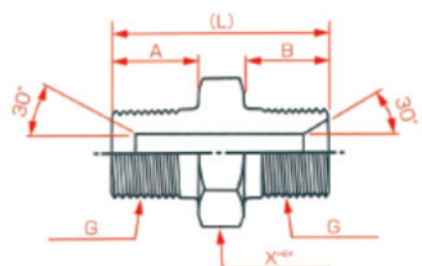
Adapter

1010 (Connect to 1002)



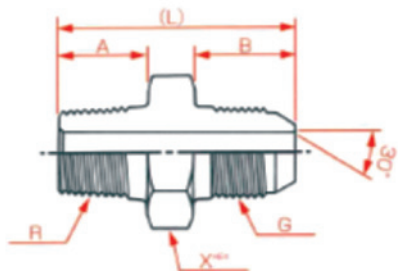
Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1010 6	1/4	5.0	-	-	44	17	-	70
1010 9	3/8	8.0	-	-	48	19	-	80
1010 12	1/2	11.0	-	-	54	22	-	140
1010 19	3/4	16.0	-	-	61	30	-	300
1010 25	1	22.0	-	-	65	36	-	350
1010 32	1 1/4	27.5	-	-	78	46	-	625
1010 38	1 1/2	34.0	-	-	82	50	-	900
1010 50	2	46.0	-	-	93	65	-	1,310

1011 (Connect to 1005)



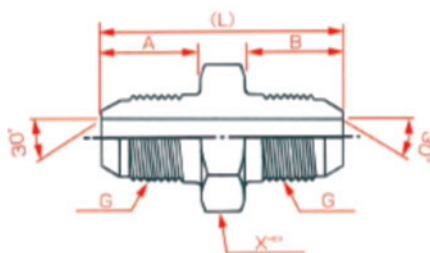
Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1011 6	1/4	5.0	13	13	34	17	-	40
1011 9	3/8	8.0	15	15	38	19	-	55
1011 12	1/2	11.0	18	18	46	22	-	95
1011 19	3/4	16.0	20	20	52	30	-	170
1011 25	1	22.0	22	22	56	36	-	250
1011 32	1 1/4	27.5	25	25	64	46	-	455
1011 38	1 1/2	34.0	25	25	65	50	-	510
1011 50	2	46.0	29	29	76	65	-	855

1013 (Connect to 1004)

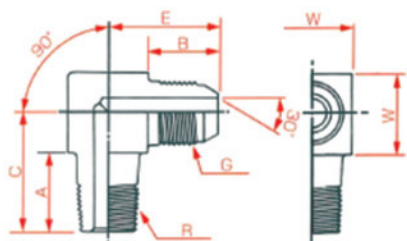


Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1013 6	1/4	5.0	13	16	37	17	-	40
1013 9	3/8	8.0	15	18	41	19	-	60
1013 12	1/2	11.0	18	20	48	22	-	100
1013 19	3/4	16.0	20	22	54	30	-	175
1013 25	1	22.0	22	24	58	36	-	255
1013 32	1 1/4	27.5	25	27	66	46	-	470
1013 38	1 1/2	34.0	25	27	67	50	-	530
1013 50	2	46.0	29	30	77	65	-	860

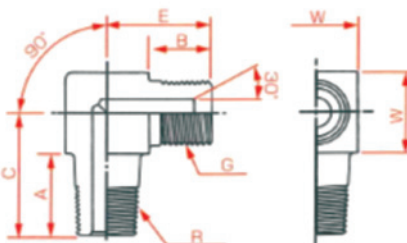
1014 (Connect to 1004)



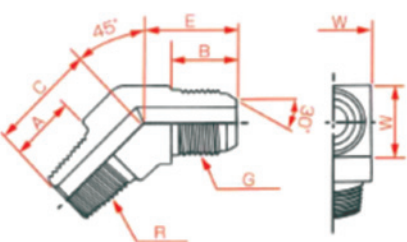
Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	L (mm)	X (mm)	Y (mm)	Weight (g)
1014 6	1/4	5.0	16	16	40	17	-	40
1014 9	3/8	8.0	18	18	44	19	-	60
1014 12	1/2	11.0	20	20	50	22	-	95
1014 19	3/4	16.0	22	22	56	30	-	170
1014 25	1	22.0	24	24	60	36	-	250
1014 32	1 1/4	27.5	27	27	68	46	-	460
1014 38	1 1/2	34.0	27	27	69	50	-	520
1014 50	2	46.0	30	30	78	65	-	830

1033 (Connect to 1004)

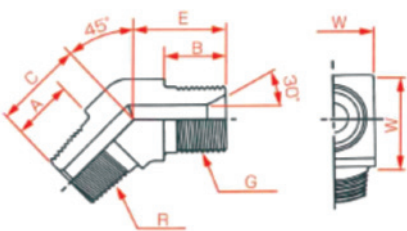
Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	C (mm)	E (mm)	W (mm)	Weight (g)
1033 6	1/4	5.0	17	16	26	25	17	60
1033 9	3/8	8.0	20	18	30	28	19	100
1033 12	1/2	11.0	24	20	36	32	24	175
1033 19	3/4	16.0	28	22	43	37	30	295
1033 25	1	22.0	32	24	50	42	36	470
1033 32	1 1/4	27.5	35	27	58	50	46	940
1033 38	1 1/2	34.0	38	27	63	52	50	960
1033 50	2	46.0	42	30	75	63	65	1,560

1034 (Connect to 1005)

Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	C (mm)	E (mm)	W (mm)	Weight (g)
1034 6	1/4	5.0	17	13	26	22	17	60
1034 9	3/8	8.0	20	15	30	25	19	100
1034 12	1/2	11.0	24	18	36	30	24	180
1034 19	3/4	16.0	28	20	43	35	30	280
1034 25	1	22.0	32	22	50	40	36	480
1034 32	1 1/4	27.5	35	25	58	48	46	910
1034 38	1 1/2	34.0	38	25	63	50	50	1,020
1034 50	2	46.0	42	29	75	62	65	1,810

1035 (Connect to 1004)

Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	C (mm)	E (mm)	W (mm)	Weight (g)
1035 6	1/4	5.0	13	16	19	22	17	45
1035 9	3/8	8.0	15	18	22	25	19	75
1035 12	1/2	11.0	18	20	26	28	24	125
1035 19	3/4	16.0	20	22	30	32	30	210
1035 25	1	22.0	22	24	34	36	36	330
1035 32	1 1/4	27.5	25	27	40	42	46	645
1035 38	1 1/2	34.0	25	27	41	43	50	735
1035 50	2	46.0	29	30	50	51	65	1,340

1036 (Connect to 1005)

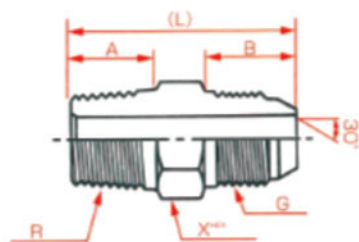
Parts Number	R(PT) G(PF)	Inner Diameter	A (mm)	B (mm)	C (mm)	E (mm)	W (mm)	Weight (g)
1036 6	1/4	5.0	13	13	19	19	17	45
1036 9	3/8	8.0	15	15	22	22	19	75
1036 12	1/2	11.0	18	18	26	26	24	130
1036 19	3/4	16.0	20	20	30	30	30	210
1036 25	1	22.0	22	22	34	34	36	330
1036 32	1 1/4	27.5	25	25	40	40	46	560
1036 38	1 1/2	34.0	25	25	41	41	50	835
1036 50	2	46.0	29	29	50	51	65	1,095



Accessories

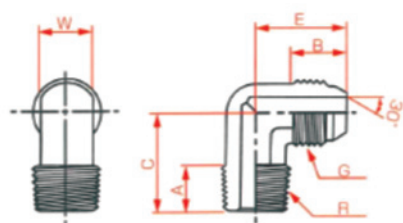
Adapter

3013



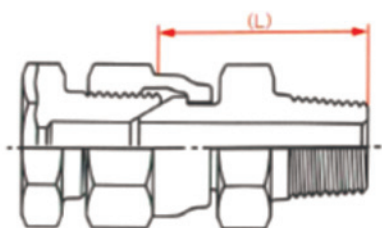
Parts Number	R(PT)	G(PF)	Inner Diameter	A (mm)	B (mm)	L (mm)	X (mm)	Weight (g)
3013-04B	1/4	1/4	5	13	16	34	14	30
3013-0204B	1/8	1/4	5	10	16	31	14	25
3013-06B	3/8	3/8	7	14	17.5	39	17	50
3013-0406B	1/4	3/8	7	13	17.5	36	17	45
3013-08B	1/2	1/2	10	18	20	48	22	100
3013-12B	3/4	3/4	16	20	21.5	54	30	160

3033



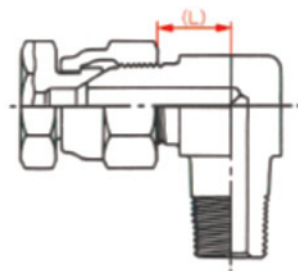
Parts Number	R(PT)	Inner Diameter	A (mm)	B (mm)	C (mm)	E (mm)	W (mm)	Weight (g)
3033-04B	1/4	5	11	13	23	24	12	40
3033-06B	3/8	7	12	14	27	26	14	65
3033-08B	1/2	10	15	17	32	31	17	110

1002 + 1006



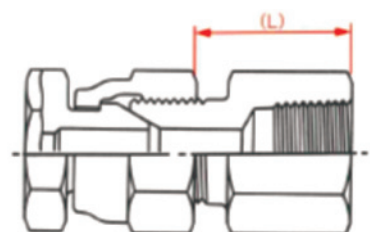
Size	L (mm)
6(-04)	32
9(-06)	35
12(-08)	39
19(-12)	45
25(-16)	48
32(-20)	56
38(-24)	59
50(-32)	68

1004 + 1033



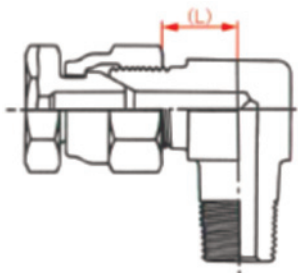
Size	L (mm)
6(-04)	14
9(-06)	15
12(-08)	18
19(-12)	21
25(-16)	25
32(-20)	32
38(-24)	33
50(-32)	63

1005 + 1007



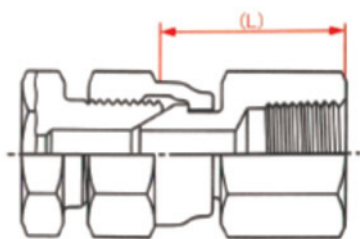
Size	L (mm)
6(-04)	23
9(-06)	26
12(-08)	30
19(-12)	34
25(-16)	36
32(-20)	41
38(-24)	41
50(-32)	49

1005 + 1034



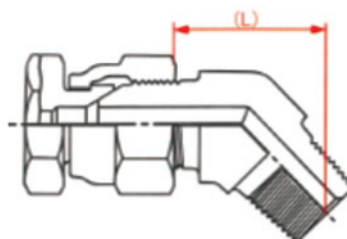
Size	L (mm)
6(-04)	15
9(-06)	17
12(-08)	20
19(-12)	24
25(-16)	27
32(-20)	34
38(-24)	36
50(-32)	46

1002 + 1008



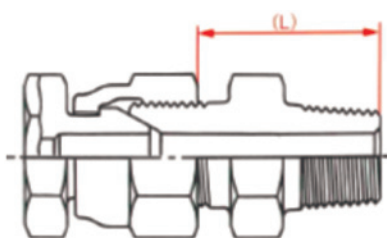
Size	L (mm)
6(-04)	28
9(-06)	31
12(-08)	34
19(-12)	38
25(-16)	40
32(-20)	48
38(-24)	50
50(-32)	58

1004 + 1035



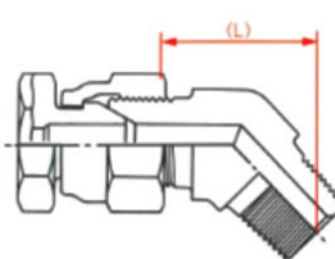
Size	L (mm)
6(-04)	26
9(-06)	30
12(-08)	33
19(-12)	39
25(-16)	44
32(-20)	53
38(-24)	54
50(-32)	67

1005 + 1009



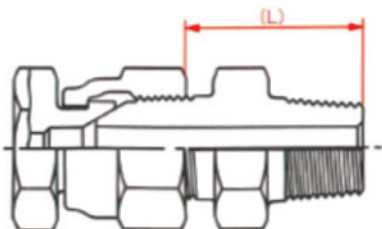
Size	L (mm)
6(-04)	27
9(-06)	30
12(-08)	36
19(-12)	41
25(-16)	43
32(-20)	50
38(-24)	51
50(-32)	60

1005 + 1036



Size	L (mm)
6(-04)	29
9(-06)	33
12(-08)	36
19(-12)	42
25(-16)	47
32(-20)	56
38(-24)	58
50(-32)	70

1004 + 1013



Size	L (mm)
6(-04)	27
9(-06)	30
12(-08)	35
19(-12)	40
25(-16)	42
32(-20)	49
38(-24)	49
50(-32)	58

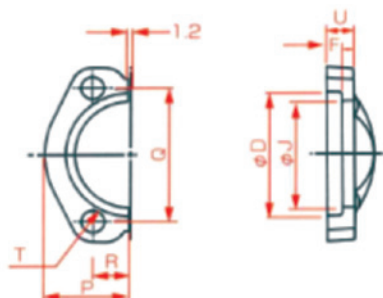




Accessories

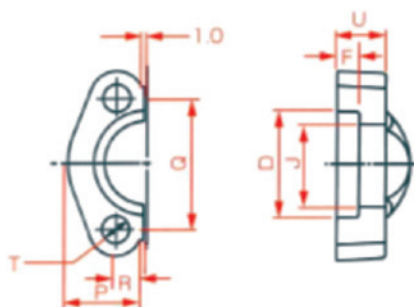
Flange

SCLH (for Code 61)



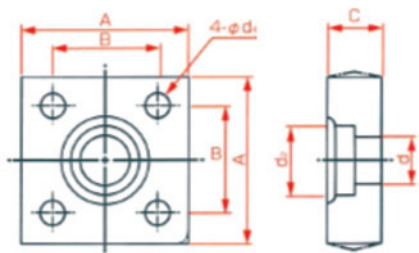
Parts Number		Frange Size	D (mm)	F (mm)	J (mm)	P (mm)	Q (mm)	R (mm)	T (mm)	U (mm)	Weight (g)
SCLH	12	1/2	31.0	6.2	24.3	21.8	38.1	8	8.7	13	65
SCLH	19	3/4	38.9	6.2	32.1	24.9	47.6	10	10.3	14	110
SCLH	25	1	45.2	7.5	38.9	28.2	52.4	12	10.3	16	120
SCLH	32	1-1/4	51.6	7.5	43.7	35.3	58.7	14	11.9	14	160
SCLH	38	1-1/2	61.1	7.5	51.2	40.1	69.9	17	13.5	19(16)	290
SCLH	50	2	72.2	9.0	63.1	48.0	77.8	21	13.5	19(16)	370

HCLH (for Code 62)



Parts Number		Frange Size	D (mm)	F (mm)	J (mm)	P (mm)	Q (mm)	R (mm)	T (mm)	U (mm)	Weight (g)
HCLH	12	1/2	32.5	7.2	24.6	22.6	40.5	8	8.7	16	80
HCLH	19	3/4	42.1	8.3	32.5	29.0	50.8	11	10.3	19	185
HCLH	25	1	48.4	9.0	38.9	33.8	57.2	13	11.9	24	290
HCLH	32	1-1/4	54.8	9.9	44.5	38.6	66.7	15	13.5	27	380
HCLH	38	1-1/2	64.3	12.2	51.6	46.5	79.4	17	16.7	30	640
HCLH	50	2	80.2	12.1	67.6	55.9	96.8	21	19.8	37	1,130

SHB JIS 21Mpa



Parts Number		Frang Size	A (mm)	B (mm)	C (mm)	d (mm)	d2 (mm)	d4 (mm)	Weight (g)
SHB	12	15	63	40	22	16.0	22.2	11	590
SHB	19	20	68	45	22	20.0	27.7	11	650
SHB	25	25	80	53	28	25.0	34.5	13	1,130
SHB	32	32	90	63	28	31.5	43.2	13	1,350
SHB	38	40	100	70	35	37.5	49.1	18	2,050
SHB	50	50	112	80	35	47.5	61.1	18	2,300



Yarn Braided Hose

Product Line Up

For Air and Water

HP AIR
PLAST
COLOR FLEX

For Hydraulic oil

MID OIL
HI-MID OIL
SP OIL
SP-C OIL

For Special Purpose

CAPTAIN OXYGEN
CAPTAIN ACETYLENE
CAPYAIN LMN
SP-C OIL
FUEL (Gasoline,Diesel)



Corugate Type		Smooth Type	
1Y/B		1Y/B	
2Y/B		2Y/B	
3Y/B		3Y/B	
2Y/s		2Y/S	

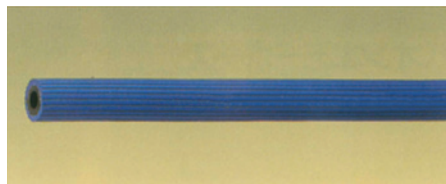
YRC reserves the right to modify any data. Eventual and any kind of modifications can be carried out without any notice.
For more details on the hose shown in this catalog and their application, please be advised to contact your YRC customer service listed above.



Yarn Braided Hose

CAPTAIN OXYGEN [For Special Purpose]

Application Oxygen
Operating Temperature -30°C to +70°C
Minimum Coil Length 200m/coil

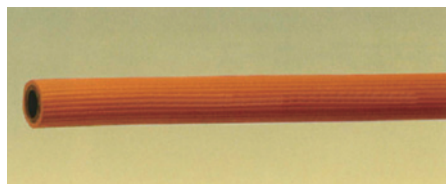


 Inner Diameter	 Outer Diameter	 Reinforcement	 Maximum Working Pressure Mpa(kgf)	 Weight (Kg/10mtr)	 Minimum Bend Radius mm
mm	mm				
6.3	14.3	2Y/S	2.0(20.4)	1.5	100
8.0	16.3			1.7	110
9.5	17.5			1.9	120

Equivalent to JIS K 6333.

CAPTAIN ACETYLENE [For Special Purpose]

Application Acetylene gas
Operating Temperature -30°C to +70°C
Minimum Coil Length 200m/coil

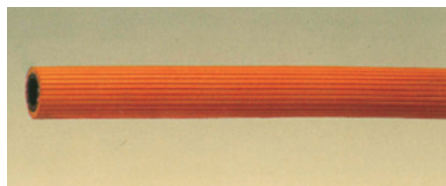


 Inner Diameter	 Outer Diameter	 Reinforcement	 Maximum Working Pressure Mpa(kgf)	 Weight (Kg/10mtr)	 Minimum Bend Radius mm
mm	mm				
6.3	13.2	1Y/B	0.15	1.5	100
8.0	14.7			1.7	110
9.5	16.2			1.9	120

Equivalent to JIS K 6333.

CAPTAIN LMN [For Special Purpose]

Application LPgas, Natural gas
Operating Temperature -30°C to +70°C
Minimum Coil Length 200m/coil



 Inner Diameter	 Outer Diameter	 Reinforcement	 Maximum Working Pressure Mpa(kgf)	 Weight (Kg/10mtr)	 Minimum Bend Radius mm
mm	mm				
6.3	14.3	2Y/S	2.0(20.4)	1.8	100
8.0	16.3			2.2	110
9.5	17.5			2.3	120

Equivalent to JIS K 6333.

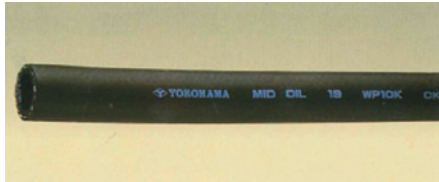
MID OIL, MID OIL-E [For Hydraulic oil]

Application Hydraulic oil
(Not for hot water)

Operating Temperature -40℃ to +80℃

Minimum Coil Length 100m/coil

※ MID OIL-E : static wire series
I/D 19~50mm, 1.0Mpa



 Inner Diameter	 Outer Diameter	 Reinforcement	 Maximum Working Pressure Mpa(kgf)	 Weight (Kg/10mtr)	 Minimum Bend Radius mm
mm	mm				
4.8	12.0	1Y/B	1.5(15.3)	1.2	80
6.3	15.5	2Y/S		1.8	100
7.9	16.5			2.1	110
9.5	18.0			2.4	120
12.7	22.0	1Y/B	1.0(10.2)	3.1	150
15.9	26.0			4.0	180
19.0	30.0			5.1	210
25.4	39.5			8.7	280
31.8	46.0	2Y/B		10.4	330
38.1	54.0	3Y/B		13.9	390
50.8	70.5			22.7	520

HI-MID OIL [For Hydraulic oil]

Application Hydraulic oil
(Not for hot water)

Operating Temperature -40℃ to +100℃

Minimum Coil Length 100m/coil



					
Inner Diameter	Outer Diameter	Reinforcement	Maximum Working Pressure Mpa(kgf)	Weight (Kg/10mtr)	Minimum Bend Radius mm
mm	mm				
6.3	13.8	2Y/S	1.5(15.3)	1.5	100
7.9	15.2			1.6	110
9.5	17.0			2.0	120
12.7	20.5			2.5	150
15.9	25.0	1Y/B	1.0(10.2)	3.8	180
19.0	27.5			4.0	210
25.4	34.0			5.0	250
31.8	44.0	2Y/B		9.5	320
38.1	51.5			12.0	380
50.8	65.0			16.0	500

SP OIL [For Hydraulic oil]

Application Hydraulic oil
(Not for hot water)

Operating Temperature -30℃ to +120℃

Minimum Coil Length 100m/coil



 Inner Diameter	 Outer Diameter	 Reinforcement	 Maximum Working Pressure Mpa(kgf)	 Weight (Kg/10mtr)	 Minimum Bend Radius mm
mm	mm				
9.5	19.0	1Y/B	1.0(10.2)	2.9	115
12.7	22.5			3.7	135
15.9	27.0			5.1	160
19.0	31.0			6.4	185

IV

Yarn Braided Hose

SP-C OIL [For Hydraulic oil]

Application Hydraulic oil
(Not for hot water)

Operating Temperature -50°C to +100°C

Minimum Coil Length 100m/coil



 Inner Diameter	 Outer Diameter	 Reinforcement	 Maximum Working Pressure Mpa(kgf)	 Weight (Kg/10mtr)	 Minimum Bend Radius mm
mm	mm				
9.5	19.0	1Y/B	1.0(10.2)	2.9	115
12.7	22.5			3.7	135

PLAST [For Air, Water]

Application Air, Water

Operating Temperature -10°C to +60°C

Minimum Coil Length 100m/coil



 Inner Diameter	 Outer Diameter	 Reinforcement	 Maximum Working Pressure Mpa(kgf)	 Weight (Kg/10mtr)	 Minimum Bend Radius mm
mm	mm				
6.5	13.0	2Y/S	1.0(10.2)	1.2	80
7.0	13.5			1.4	80
8.0	15.0			1.7	90
9.5	16.5			1.8	100
13.0	21.5			2.9	120
19.0	27.5			3.9	170

COLOR FLEX [For Air, Water]

Application Air, Water
Operating Temperature -30°C to +60°C
Minimum Coil Length 100m/coil



 Inner Diameter	 Outer Diameter	 Reinforcement	 Maximum Working Pressure Mpa(kgf)	 Weight (Kg/10mtr)	 Minimum Bend Radius mm
mm	mm				
6.3	12.5	1Y/B	1.0(10.2)	1.2	95
9.5	16.0			1.7	120
12.7	19.5			2.2	145
15.9	23.5			2.8	170

FUEL (Gasoline,Diesel) [For Special Purpose]

Application Gasoline, Diesel
Operating Temperature -40°C to +100°C
Minimum Coil Length 100m/coil

 Inner Diameter	 Outer Diameter	 Reinforcement	 Maximum Working Pressure Mpa(kgf)	 Weight (Kg/10mtr)	 Minimum Bend Radius mm
mm	mm				
4.5	12.0	1Y/B	0.2	1.3	80
6.0	13.5			1.5	90
7.5	15.0			1.7	100
9.5	17.5			2.4	120



Fittings for Field Crimp

Product Line Up

Fitting Selection



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Fittings for Field Crimp

Fitting Selection

1001 : JIS BSP Male Tapered ISO07/JIS B8363	1001S : JIS BSP Male Tapered ISO07/JIS B8363	1002 : JIS BSP Parallel 60° Cone Seat B55200/ISO8434-6/JIS B8363	1003 : BSP Female Taperd
1004 : JIS BSP Female 60° Cone Seat (Crimped Back-Nut) JIS B8363 (DIN20078/3863)	1004R : JIS BSP Female 60° Cone Seat JIS B8363 (DIN20078/3863) Heavy Type	1005 : JIS BSP Female 60° Cone Seat JIS B8363 (DIN20078/3863)	1005R : JIS BSP Female 60° Cone Seat JIS B8363 (DIN20078/3863) Heavy Type
1005M : JIS BSP Female 60° Cone Seat JIS B8363 (DIN20078/3863) Metric Thread	6006 : French Metric Female Multiseal (Crimped-Back Nut) Millimetric Type	6007 : BSP Male O-ring Boss Type	6007M : BSP Male O-ring Boss Type Male Thread
6008 : SAE Male O-ring Boss Type SAE J516/ISO 11926	6010 : JIC Male 74° Cone SAE J516/ISO12151-5	6010M : JIC Male 74° Cone SAE J516/ISO12151-5	6012 : NPTF Male 60° Cone Seat SAE J516/514
6013 : JIC Female 74° Cone Seat Double Hexagon (Crimped Back-Nut) SAE J516/ISO12151-5	6013R : JIC Female 74° Cone Seat Double Hexagon SAE J516/ISO12151-5 Heavy Type	6014 : JIC Metric Female 90° Cone Seat SAE J516/ISO12151-5	6014M : JIC Metric Female 90° Cone Seat SAE J516/ISO12151-5 Metric Thread

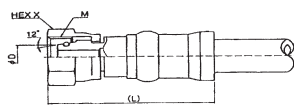
6015 : JIC 45° Female SWEPT Elbow 74° Cone Seat (Crimped-Back Nut) SAE J516/ISO12151-5	6016 : JIC 90° Female SWEPT Elbow 74° Cone Seat (Crimped Back-Nut) SAE J516/ISO12151-5	6028 : ORFS Female- SAE J516/ISO12151-1	6128 · 6128P : 45° ORFS Female SWEPT Elbow SAE J516/ISO12151-1
6228 · 6228P : 90° ORFS Female SWEPT Elbow SAE J516/ISO12151-1	6072 : Metric Stand pipe Light Duty -DIN2353/ISO8434-1 (DIN · French)	6472 : 45° Metric Stand pipe Cone Light duty DIN2353/ISO8434-1 (DIN · French)	6972 : 90° Metric Stand pipe Cone Light duty DIN2353/ISO8434-1 (DIN · French)
6073 : BSP Stand pipe (SAE Inch Pipe)	6973 : BSP 90° Stand pipe (SAE)	6074 : 12° Stand pipe Light Duty DIN 2353/ISO8434-1 (DIN · French, Metric Pipe)	6075 : 12° Stand pipe DIN 2353/ISO8434-1 (SAE, Inch Pipe)
1390 : SAE 74° Flared Elbow 90°	049T · 0490: JIS Swivel type female pipe G(PF) thread fitting Elbow 90°	059T · 0590 : JIS Swivel type female pipe thread fitting Elbow 90° Metric Female Thread	0590M : JIS Swivel type female pipe thread fitting Elbow 90°
0590M : JIS Swivel type female pipe thread fitting Elbow 90°	DKFSL : DIN3901/3902 Metric Male 24° Cone Seat Mill Cone Light Duty DIN20066/ISO12151-2	DKFSH : DIN3901/3902 Metric Male 24° Cone Seat Heavy duty-DIN20066/ISO12151-2	DKOSL : Metric O-ring Female 24° Light duty (Crimped Back Nut) -DIN20066/ISO12151-2



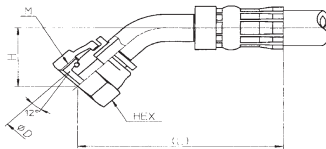
Fittings for Field Crimp

Fitting Selection

DKOSH : Metric O-ring Female 24°
Cone Heavy duty (Crimped-Back Nut)
DIN20066/ISO12151-2

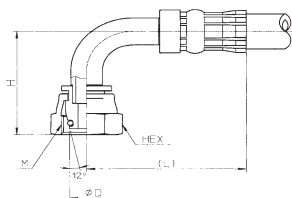


DKO4L : 45° Metric O-ring Female 24°
Cone Light Duty (Crimped-Back Nut)
DIN20066/ISO12151-2



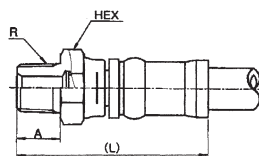
DKO4H : 45° Metric O-ring Female 24°
Cone Heavy Duty (Crimped-Back Nut)
DIN20066/ISO1215-2

DKO9L : 90° Metric O-ring Female 24°
Cone Light duty (Crimped-Back Nut)
DIN20066/ISO12151-2

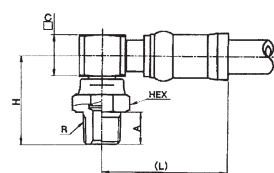


DKO9H : 90° Metric O-ring Female 24°
Cone Heavy Duty (Crimped-Back Nut)
DIN20066/ISO12151-2

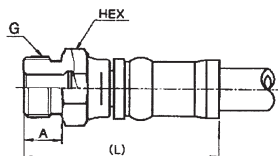
AD1ST : Rigid Type Male Pipe R(PT)
Thread Dry Seal Adapter Free Straight



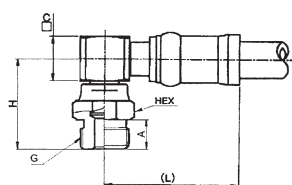
AD190 : Rigid Type Male Pipe R(PT)
Thread Dry Seal Adapter Free Elbow
90°



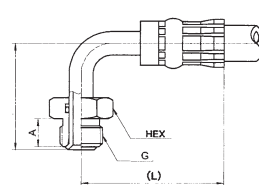
AD7ST : Rigid Type Male Pipe G(PF)
Thread O-ring boss Adapter Free
Straight



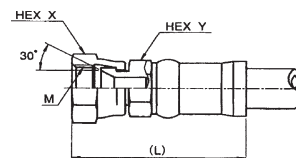
AD790 : Rigid Type Male Pipe G(PF)
Thread O-ring boss Adapter Free
Elbow 90°



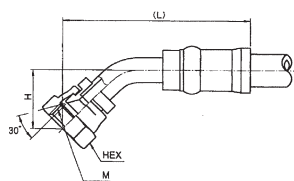
AP79S : Rigid Type Male Pipe G(PF)
Thread O-ring boss Adapter Free
Elbow 90°



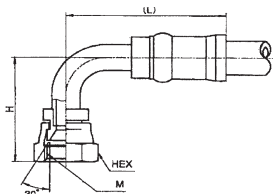
METST : JIS Metric Female 60° Cone
Seat (KOMATSU) JISB 8363



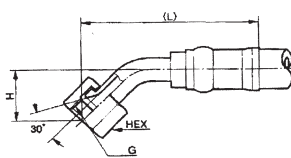
MET45 : 45° Metric Female 60° Cone
Seat (KOMATSU)



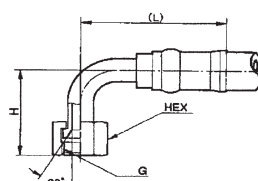
MET90 : 90° Metric Female 60° Cone
Seat (KOMATSU)



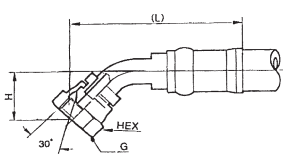
MT45 · MTP45 : 45° Female SWEPT
Slide-back Elbow 60° Cone BS5200/
ISO12151-6



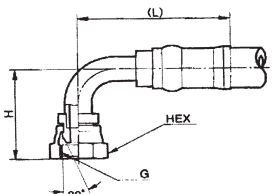
MT90 · MTP90 : 90° Female SWEPT
Slide-back Elbow 60° Cone BS5200/
ISO12151-6



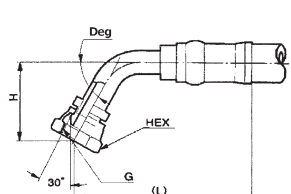
MEL45 : JIS 45° Male SWEPT Elbow 60°
Non-Slide-back Cone Seat



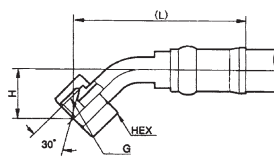
MEL90 : JIS 90° Male SWEPT Elbow 60°
Non-Slide-back Cone Seat



MEL ※※ : JIS Male SWEPT Elbow 60°
Non-Slide-back Cone Seat



ML45 · MLP45 : 45° BSP Female SWEPT
Slide-back Elbow 60° Cone BS5200/
ISO12151-6

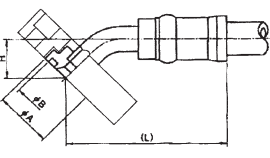
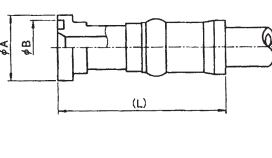
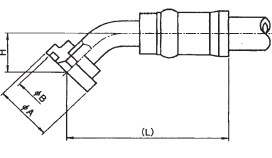
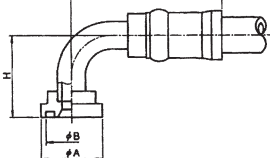
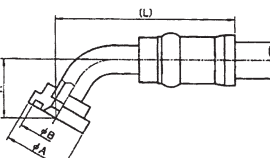
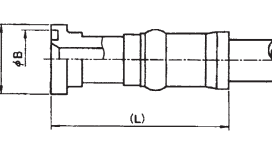
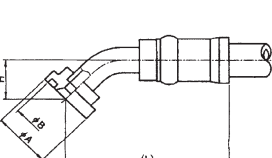
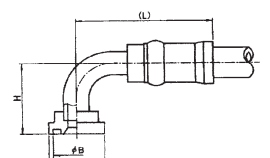
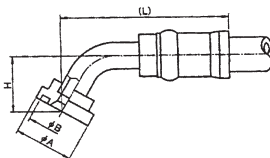


ML90 • MLP90 : 90° BSP Female SWEPT Slide-back Elbow 60° Cone BS5200/ISO12151-6	FEL45 : JIS 45° Female SWEPT Elbow 60° Non-Slide-back Cone Seat	FEL90 : JIS 90° Female SWEPT Elbow 60° Non-Slideback Cone Seat	FL45 • FLP45 : JIS 45° Female SWEPT Elbow 60° Slide-Back Cone Seat
FL90 • FLP90 : JIS 90° Female SWEPT Elbow 60° Slide-Back Cone Seat	FH ※※※ : 凸 Type Frange	HIAB : BSP Female Flat Seat (Crimped-Back Nut)	HIABM : Metric Female Flat Seat (Crimped-Back Nut)
PL11 : Palmex Series One Touch Type	UN45 • UNP45 : 45° SAE Flared Fitting UNF Female	UN90 • UNP90 : 90° SAE Flared Fitting UNF Female	SHAST : JIS B2291 Square Flange
SSFST : ISO/SAE Code61 Flange SAE J518/ISO1251-3	SSF45 : 45° ISO/SAE Code61 Flange SAE J518/ISO1251-3	SSF90 : 90° ISO/SAE Code61 Flange SAE J518/ISO1251-3	SSF ※※ • SF ※※※ : SAE J518 Code61 Standard Pressure Series
HSFST : SAE J518 Code62	HSF45 : SAE J518 Code62	HSF90 : SAE J518 Code62	HSF ※※ : SAE J518 Code62



Fittings for Field Crimp

Fitting Selection

HSF ※※ : SAE J518 Code62 	KSFST : Straight KOMATSU Flange (Code61) 	KSF45 : 45° KOMATSU Flange (Code61) 	KSF90 : 90° KOMATSU Flange (Code61) 
KSFZZ : Special Bend KOMATSU Flange (Code61) 22°, 30°, 75° 	KHFST : Straight KOMATSU Flange (Code62) 	KHF45 : 45° KOMATSU Flange (Code62) 	KHF90 : 90° KOMATSU Flange (Code62) 
KHFZZ : Special Bend KOMATSU Flange (Code62) 22°, 30°, 75° 			



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www.yrtc.co.th/



Warning

ATTENTION TO ALL DISTRIBUTORS AND CUSTOMERS

THE YOKOHAMA RUBBER Co., Ltd. [Herein after called "YRC"] hoses and fittings are designed as integral parts of hose assembly system to be used together and they should only be used together or in conjunction with other types of fittings for YRC.

Failures to do so may result in reducing the hose assembly life or other failures which can result in serious bodily injury or property damage.

Product selection, product installation and hose integration guide lines are essential to the proper operation and safe use of YRC hoses, fittings, hose assemblies and related equipments.

Improper installation of the hoses, fittings and hose assemblies can result in serious injury or property damage.

The main international standards ISO 17165-2 and SAE J1273 strictly warn not to mix hose with fittings from different manufacturers without their approval.

Before using any product, it is important that you analyze all aspects of your application and review the information explained in the current catalogue.

YRC shall not be responsible for any default other than hose, fittings, or hose assembly we supply.

YRC does not represent or warrant any default taken place due to the improper use of hose, fittings or hose assembly.

[EX] Hard piping layout, crimping, using inadequate liquid for hose, and so on.

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