



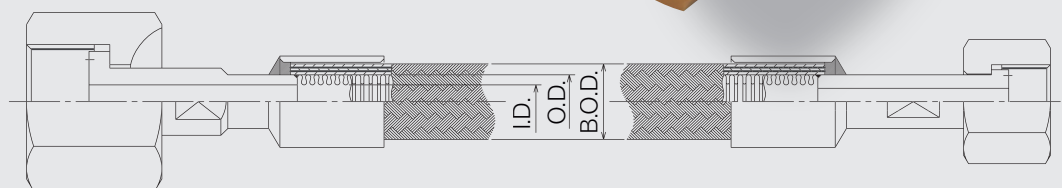
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High Pressure

Conforming to High Pressure Gas Safety Law
(inspection by KHK) /Applicable for 88MPa

Flexible hose for high pressure are used in piping in industrial gas, transportation of each liquid with high pressure, filling lines etc. Especially, we have many records to manufacturing facilities for high pressure gas and can deal with items inspected by The High Pressure Safety Institute of Japan (KHKS 0803).

Sleeve nut type (conforming to High Pressure Gas Safety Low)



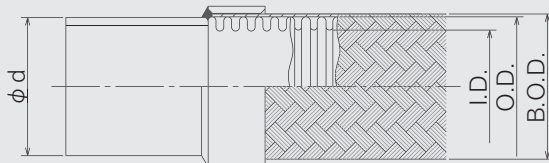
Standard dimensions

Nominal diameter		I.D.	O.D.	B.O.D.	Max.working pressure MPa (40°C)	Min.bending radius
A	B					
8	1/4	7.2	12.2	16.5	22.0	135
10	3/8	10.0	16.0	22.5	22.0	165
15	1/2	12.0	17.5	22.0	17.0	195

※For joint types and materials, please consult us.

※Design with more pressure shown in the list can be available.

Pipe type



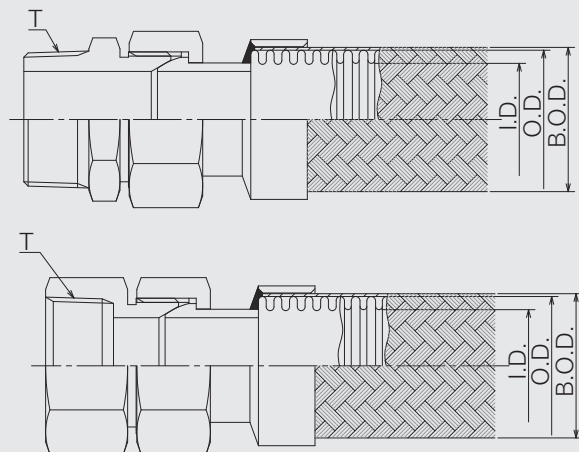
Standard dimensions

Nominal diameter		Pipe O.D.	Hose dimension		Single braid		Double braid	
A	B	d	I.D.	O.D.	B.O.D.	Max.working pressure MPa (40°C)	B.O.D	Max.working pressure MPa (40°C)
8	1/4	6.35	7.2	12.2	13.5	7.0	15.0	14.1
10	3/8	9.52	10.0	16.0	17.5	5.5	19.0	11.1
15	1/2	12.7	12.0	17.5	19.0	4.9	20.5	9.9
20	3/4	19.05	19.0	26.0	27.5	2.7	29.0	5.5
25	1	25.4	25.5	34.0	35.5	1.9	37.0	3.9

※Other joints, such as UJR and VCR, can be available. For joint types, please specify model no.

※Sizes for Gas piping can be available.

Screw type



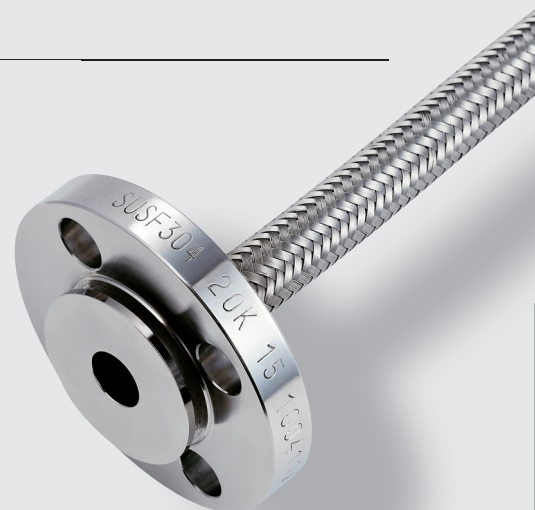
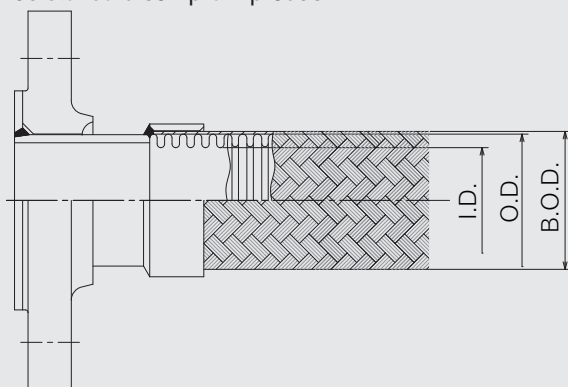
Standard dimensions

Nominal diameter		Screw specification	Hose dimension		Single braid		Double braid	
A	B	T	I.D.	O.D.	B.O.D.	Max.working pressure MPa (40°C)	B.O.D.	Max.working pressure MPa (40°C)
8	1/4	R(Rc)1/4	7.2	12.2	13.5	7.0	15.0	14.1
10	3/8	R(Rc)3/8	10.0	16.0	17.5	5.5	19.0	11.1
15	1/2	R(Rc)1/2	12.0	17.5	19.0	4.9	20.5	9.9
20	3/4	R(Rc)3/4	19.0	26.0	27.5	2.7	29.0	5.5
25	1	R(Rc) 1	25.5	34.0	35.5	1.9	37.0	3.9

※Other screw specifications can be available. ※For joints and materials, please consult us.

Flange type (JIS20K)

JLPA209 standard compliant product



Standard dimensions

Nominal diameter		I.D.	O.D.	B.O.D	Max.working pressure
A	B				
15	1/2	12.0	17.5	19.0	2.12MPa/60°C
20	3/4	19.0	26.0	27.5	
25	1	25.5	34.0	37.0	
32	1 1/4	32.0	42.0	46.0	
40	1 1/2	39.0	49.0	53.0	
50	2	50.0	62.0	66.0	
65	2 1/2	65.0	86.0	90.0	
80	3	77.0	104.0	109.0	
100	4	100.0	129.0	134.0	

※For materials, please consult us.

Flexible hose for ultra-high pressure

Usage

- Hydrogen station facilities
- Various testing facilities for on-board tanks etc.

Features

- No penetration of hydrogen
- High flexibility
- Hoses can be designed to conform to High Pressure Gas Safety Act.
- SUS316・SUS316L
(Material with more than nickel equivalent 28.5, can be dealt with)

Specifications

Max. working pressure	90.2MPa
Max. working temperature	+85°C
Min. working temperature	-45°C
Min. burst pressure	360.8MPa
Min. bending radius	200mm

※Flexible hoses for 40MPa and 70MPa can be fabricated.

※For fittings, please consult us.



■ We have a hydraulic test equipment which can apply pressure of up to 700MPa.

Hydrogen impulse test

<Test condition>

Medium : Hydrogen gas

Pressure : 0⇔85MPaG (repeated pressure)

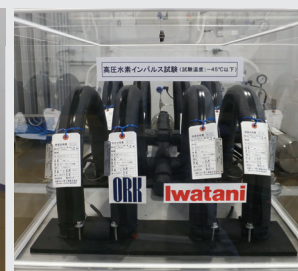
Temperature : Less than : -45°C (under the condition of precooling)

Pressure cycle : 3 minutes

Installation status : Inverted U-shape

(please refer to the picture of hose piping)

Bending radius : 200mm



Test facility : Iwatani Corporation Iwatani R&D center



Our FCVs (place : Iwatani Hydrogen Refueling Station in Amagasaki)