

HiFLUX

High Pressure Valves & Fittings



HIGH SERVICE
HIGH QUALITY
HIGH PERFORMANCE
High Pressure equipment

HIFLUX

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HIFLUX



Passion for a high-pressure future, constant challenge and innovation

HIFLUX Co., Ltd. has been recognized for its technological prowess by successfully producing various of high-pressure piping materials that are difficult to manufacture domestically through continuous R&D and facility investment to open up new markets in the ultra-high pressure piping materials sector.

Based on differentiated technological prowess and price competitiveness compared to overseas manufacturers in Europe and the United States, it is growing into a global brand by concluding OEM supply contracts with domestic OEM suppliers and overseas global waterjet manufacturers.

In addition, in order to open up new markets, we have developed air-operated valves, high-pressured pressure regulators, back pressure regulators, and other fittings for various purposes and pressure-specific accessories, and now our products are being applied to mass production facilities in various industries.

Expanding R&D investment to achieve carbon neutrality

In order to contribute to carbon neutrality, HIFLUX has researched and developed manual valves for hydrogen refueling stations with pure domestic capital and technology, obtained KS certification, and is currently being supplied to hydrogen refueling station plant sites. It is also developing check valves and pneumatic valves (AOV) KS propulsion and valves for liquefied hydrogen.

In addition, based on its technology related to high-pressure piping for hydrogen refueling stations, it was selected as a hydrogen specialized company by the Ministry of Trade, Industry and Energy in 2024. We will continue to do our best to contribute to the development of the hydrogen industry through steady investment and marketing.

We will always listen to our customers' voices and contribute to productivity and quality improvement through continuous product improvement and service provision, and strive to become HIFLUX that can grow and develop together with our customers.

Thank you.

HIFLUX Co., Ltd. | CEO *Kim Hyeon Hyo*

Overview

Company name	HIFLUX Co., Ltd.	CEO	Kim Hyeon Hyo
Date of Establishment	May 26, 2010	Business Area	Various valves, hydraulic equipment, pumps, etc
Address	(34037) Da Dong, 361-33, Gapcheon-ro, Yuseong-gu, Daejeon, Republic of Korea	Telephone	+82 042-933-5670 (Extension number 1.Technical Sales Department 2.Design Department 3.Public Relations Department 4.Purchasing Department 5.Production Department)
E-mail	Technical Sales Dept : sales@hiflux.com Promotion Dept : min@hiflux.com	Main Product	Needle Valve, Check Valve, Ball Valve, Relief Valve, Air Operated Valve, High-Temp Valve, Control Valve, Fitting, Fitting Accessory, Tube, Nipple, Regulator, Union, Adapter, Tube Support, Radiating Pipe, Pressure Gauge, Tooling Set, Lok Type Products

HIFLUX HISTORY

- 2024.05. Selected as a 'Hydrogen Specialist Company' by Government
- 2023.10. Acquired 'KS certification for manual valve for hydrogen refueling station' by KGS
- 2023.05. KS Q ISO 45001 certification
- 2023.05. Selected as a 2023 HIFLUX Small Giant Company
- 2021.08. Patent (Double-sealed check valve) acquired
- 2021.07. Received a commendation from KGS
- 2021.03. Patent (High-pressure valve) acquired
- 2020.07. 'Material/Component/Equipment Specialist Company Confirmation' acquired
- 2020.07. Patent (High-temperature/high-pressure valve) acquired
- 2020.06. R&D (Valve and fittings for H70 hydrogen refueling stations)
- 2020.04. Patent (Valves including stem carriers) acquired
- 2020.02. 2 types of valve patents acquired
- 2019.01. Joined the Korea Hydrogen Industry Association
- 2018.09. Moved to new headquarters and factory in Daedeok Techno Valley
- 2018.08. Acquired 'Venture Business Certification' from the Technology Guarantee Fund
- 2018.02. HIFLUX acquired European Standard Certification (CE)
- 2016.09. Self-developed 3 types of high-pressure valves
- 2016.04. Self-developed high-pressure Trunnion Ball Valve
- 2015.11. Self-developed high-pressure relief valve
- 2015.11. Factory expansion
- 2015.10. High pressure manifold block, high pressure ball valve self-development
- 2015.08. High pressure relief valve, high pressure needle valve self-development
- 2014.07. Corporate research institute certification
- 2013.10. KS Q ISO 9001 certification, KS I ISO 14001 certification
- 2010.05. Establishment of HIFLUX

Certification Patents



Certificate of Hydrogen Specialist Company



KS Certificate of Needle valve for Hydrogen Station



ISO 9001, 14001, 45001 (Quality, Environment, Health)



CE Certifications



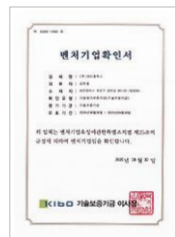
Certificate of Corporate Research Institute



Certificate of Small and Medium Enterprise



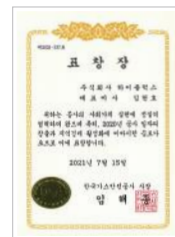
Certificate of Materials/Parts/Equipment Specialist Enterprise



Certificate of Venture Enterprise



Hydrogen Association Membership Card



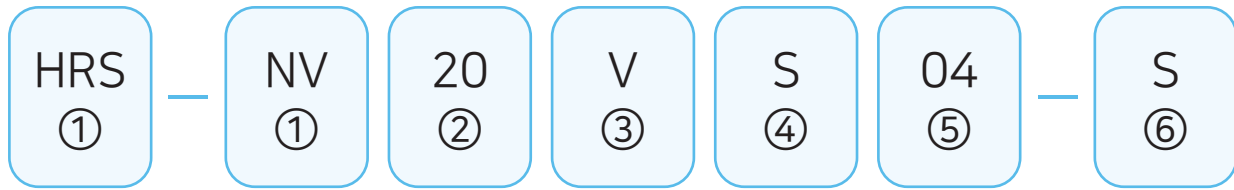
Gas Safety Corporation Award



Patent Certificate / Trademark Registration Certificate

Catalog Numbering System

simply indicate catalog number and specify option or special requirement



① Products	② Pressure	③ Type of Components	④ Material	⑤ Tube Size	⑥ Options
HRS-NV : Hydrogen Refueling System Needle Valve	03 : 3,000 psi	Needle Valve - V : Vee Stem - R : Regulating Stem	S : Stainless Steel 316	02 : 1/8 inch 04 : 1/4 inch	Needle Valve Control Valve Air Operated Valve High Temperature Valve
NV : Needle Valve	07 : 7,500 psi	Check Valve - O : O-Ring Type - B : Ball Type	H : Hastelloy	06 : 3/8 inch	- S : Straight Type - A : Angle Type
CV : Check Valve	15 : 15,000 psi	Ball Valve	HC : Hastelloy C276 Wetted Part	08 : 1/2 inch	- O : 3way/1on Type - T : 3way/2on Type
BV : Ball Valve	20 : 20,000 psi	- 03 : Orifice 4.8mm - 05 : Orifice 8mm	IN : Inconel 600	09 : 9/16 inch	- D : 3way 2stem Type
ABV : Actuator Ball Valve	30 : 30,000 psi	Control Valve Air Operated Valve - O : Normal-Open Type - C : Normal-Closed Type	IN625 : Inconel 625	12 : 3/4 inch 16 : 1 inch	Ball Valve - 20-90 : 2way - 3-180 : 3way Switching - 3-90 : 3way Diverting
AOV : Air Operated Valve	60 : 60,000 psi	Relief Valve - FS : Factory Set - FA : Field Adjustable - PP : Proportional Type	IN825 : Inconel 825	15 : 15A 25 : 25A	Relief Valve Field Adjustable - 1 : 1 Inlet - 2 : 2 Inlet
RV : Relief Valve	100 : 100,000 psi	Fitting - E : Elbow Type - T : Tee Type - C : Cross Type	NI : Nickel 200		Proportional Type - N : NPT Inlet port
SH : Safety Head	150 : 150,000 psi	Fitting Accessory - A : Adapter - S : Sleeve - G : Gland - R : Collar - T : Collet	TI : Titanium		Fitting Accessory - AV : Anti-Vibration Type
CON : Control Valve	N : NPT P : PT				GPR - N : Normal Type - P : Panel Type
HV : High Temperature Valve					
GV : Wellhead Gauge Valve					
BLV : Bleed Valve					
DBBV : Double Block and Bleed Valve					
FT : Fitting					
FA : Fitting Accessory					
MF : Manifold Block					
FATC : Tube Cap					
T : Tube					
N : Nipple					
A : Adapter					
BPR : Back Pressure Regulator					
HPR : High Pressure Regulator					
GPR : General Pressure Regulator					
ABPR : Air Operating Back Pressure Regulator					

Example

- NV60VS06-A : Needle Valve, 60,000 psi, Vee Stem, 3/8", Angle Type.
- NV15VS04-O : Needle Valve, 15,000 psi, Vee Stem, 1/4", 3Way/1on Pressure Type.
- AOV60CS04-A : Air Operated Valve, 60,000 psi, Normal-Closed, 1/4", Angle Type.
- FT60ES06 : Fitting, 60,000 psi, Elbow Type, 3/8".
- FA60GS04-AV : Fitting Accessory, 60,000 psi, Gland, 1/4", Anti-Vibration Type.

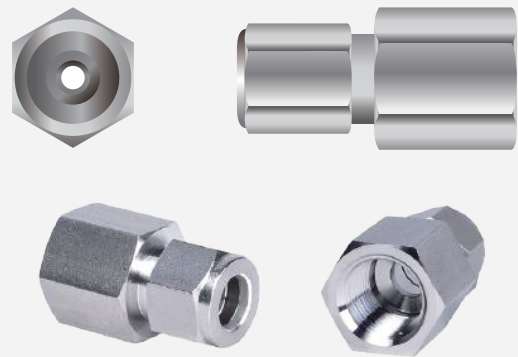
High Pressure Union & Adapter

High pressure union and adapter series that facilitate pressure and size compatibility without separate coupling

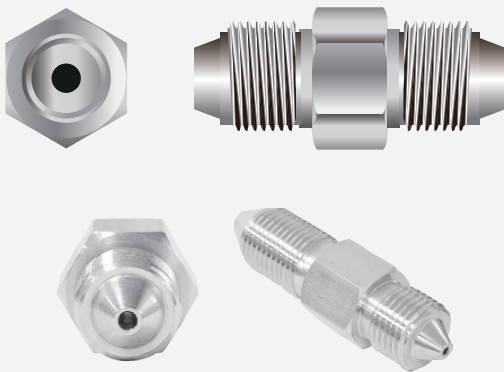
Female ▶ Female (Union)



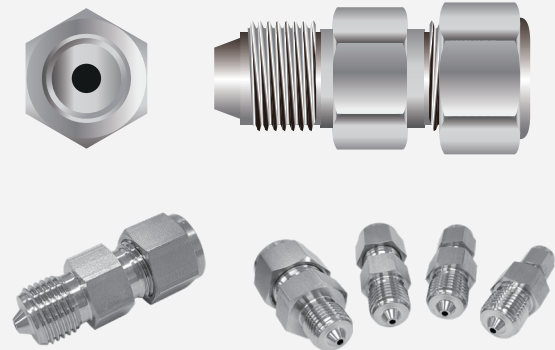
Adapter - Female to LOK(Female)



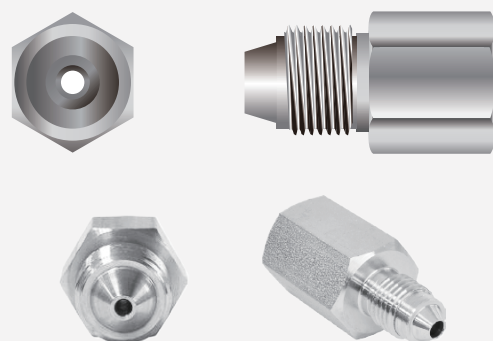
male ▶ male



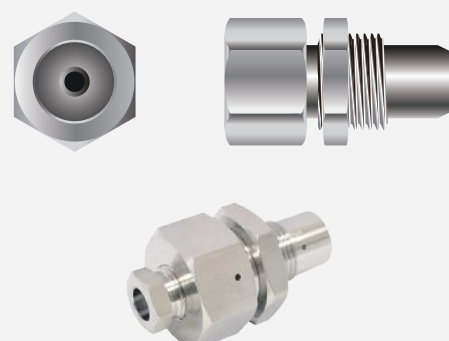
Adapter - Male to LOK(Female)



male ▶ Female



Bulkhead Union



Features

- Stainless Steel 316 cold material used for excellent corrosion resistance required at high pressure
- A variety of configurations for all pressures of HIFLUX products and up to National Pipe Thread (NPT)
- Leak-resistant Cone and thread Connection
- The high pressure part of the female port is provided with a gland, collar or sleeve.
- Please contact the customer center for the anti-vibration type and other material use.
- It is manufactured to be safely connected with a cone and thread type, so it can be used without leakage even at high pressure regardless of fluid or gas.

▶ [Female → Female (Union)]

(단위 : mm)

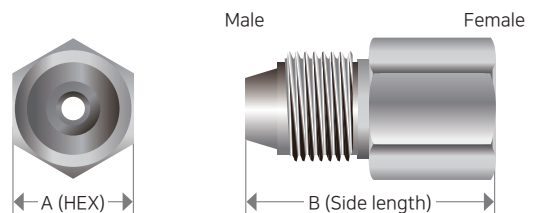
Pressure Rating		15,000 psi (Female 2)						20,000 psi (Female 2)						30,000 psi (Female 2)		60,000 psi (Female 2)		NPT (Female 2)																																		
		Catalog No / Dimensions																																																		
	Tube Size (Port Type)	1/8" (H1502)		1/4" (H1504)		3/8" (H1506)		1/2" (H1008)		1/4" (H2004)		3/8" (H2006)		9/16" (H2009)		3/4" (H2012)		1" (H2016)		1/8" (H3002)		1" (H3016)		1/4" (H6004)		3/8" (H6006)		9/16" (H6009)		1/8"		1/4"		3/8"		1/2"		3/4"		1"												
	Dimensions	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B											
15,000 psi (Female 1)	1/8" (H1502)	A015F2 /015F2	A015F2 /015F4	A015F2 /015F6	A015F2 /010F8	A015F2 /020F4	A015F2 /020F6	A015F2 /020F9													A015F2 /030F2				A015F2 /060F4	A015F2 /060F6	A015F2 /060F9	A015F2 /NPTF2	A015F2 /NPTF4	A015F2 /NPTF6	A015F2 /NPTF8																					
		12.7	31	16	36.5	19	38	25.4	41.5	16	35	20.6	38	25.4	44.5							20.6	31			20.6	31.5	25.4	38	36	44.5	16	35	20.6	38	25.4	41	30	50.5													
	1/4" (H1504)			A015F4 /015F4	A015F4 /015F6	A015F4 /010F8	A015F4 /020F4	A015F4 /020F6	A015F4 /020F9	A015F4 /020F12													A015F4 /030F2				A015F4 /060F4	A015F4 /060F6	A015F4 /060F9	A015F4 /NPTF2	A015F4 /NPTF4	A015F4 /NPTF6	A015F4 /NPTF8	A015F4 /NPTF12	A015F4 /NPTF16																	
				16	41.5	19	43	25.4	47.5	16	41.5	20.6	44.5	25.4	50.5	36	57						20.6	38			20.6	38	25.4	43	36	52	16	38	20.6	41.5	25.4	44.5	30	54	36	55.5										
20,000 psi (Female 1)	3/8" (H1506)				A015F6 /015F6	A015F6 /010F8	A015F6 /020F4	A015F6 /020F6	A015F6 /020F9	A015F6 /020F12	A015F6 /020F16	A015F6 /030F2	A015F6 /030F16	A015F6 /060F4	A015F6 /060F6	A015F6 /060F9	A015F6 /NPTF2	A015F6 /NPTF4	A015F6 /NPTF6	A015F6 /NPTF8	A015F6 /NPTF12	A015F6 /NPTF16																														
					19	44.5	25.4	47.5	19	41.5	20.6	44.5	25.4	50.5	36	57	46	76	20.6	38	46	76	20.6	41.5	25.4	46	36	51	19	41.5	20.6	44.5	25.4	48	30	54	36	58.5	46	68												
	1/2" (H1008)					A010F8 /010F8	A010F8 /020F4	A010F8 /020F6	A010F8 /020F9	A010F8 /020F12	A010F8 /020F16	A010F8 /030F2	A010F8 /030F16	A010F8 /060F4	A010F8 /060F6	A010F8 /060F9	A010F8 /NPTF2	A010F8 /NPTF4	A010F8 /NPTF6	A010F8 /NPTF8	A010F8 /NPTF12	A010F8 /NPTF16																														
						25.4	50.5	25.4	41.5	25.4	47.5	25.4	50.5	36	57	46	76	25.4	43	46	76	25.4	43	46	76	25.4	43	25.4	47.5	36	52	25.4	38	25.4	50.5	25.4	50.5	30	57	36	63.5	46	72									
30,000 psi (Female 1)	1/4" (H2004)						A020F4 /020F4	A020F4 /020F6	A020F4 /020F9	A020F4 /020F12	A020F4 /020F16	A020F4 /030F2													A020F4 /060F4	A020F4 /060F6	A020F4 /060F9	A020F4 /NPTF2	A020F4 /NPTF4	A020F4 /NPTF6	A020F4 /NPTF8	A020F4 /NPTF12	A020F4 /NPTF16																			
							16	41.5	20.6	44.5	25.4	50.5	36	57	46	76	20.6	38							20.6	35	25.4	41.5	36	47.5	16	35	20.6	41.5	25.4	41.5	30	50.5	36	57												
	3/8" (H2006)								A020F6 /020F6	A020F6 /020F9	A020F6 /020F12	A020F6 /020F16	A020F6 /030F2	A020F6 /030F16	A020F6 /060F4	A020F6 /060F6	A020F6 /060F9	A020F6 /NPTF2	A020F6 /NPTF4	A020F6 /NPTF6	A020F6 /NPTF8	A020F6 /NPTF12	A020F6 /NPTF16																													
										20.6	44.5	25.4	50.5	36	57	46	73	20.6	40	46	76	20.6	41.5	25.4	50.5	36	50.5	20.6	38	20.6	44.5	25.4	46	30	54	36	57	46	66.5													
	9/16" (H2009)										A020F9 /020F9	A020F9 /020F12	A020F9 /020F16	A020F9 /030F2	A020F9 /030F16	A020F9 /060F4	A020F9 /060F6	A020F9 /060F9	A020F9 /NPTF2	A020F9 /NPTF4	A020F9 /NPTF6	A020F9 /NPTF8	A020F9 /NPTF12	A020F9 /NPTF16																												
60,000 psi (Female 1)	1/4" (H6004)																								A060F4 /060F4	A060F4 /060F6	A060F4 /060F9	A060F4 /NPTF2	A060F4 /NPTF4	A060F4 /NPTF6	A060F4 /NPTF8	A060F4 /NPTF12	A060F4 /NPTF16																			
																									20.6	35	25.4	44.5	36	57	20.6	35	20.6	41.5	25.4	41.5	30	50.5	36	55.5												
	9/16" (H6009)																											A060F9 /060F9	A060F9 /NPTF2	A060F9 /NPTF4	A060F9 /NPTF6	A060F9 /NPTF8	A060F9 /NPTF12	A060F9 /NPTF16																		

All dimensions are for reference only and may differ from actual size.

▶ How to use the table and select products

- ※ (Example) When selecting a Male → Female adapter product
- ① Select a Male port that matches the pressure and Tube Size (vertical lines in the table)
- ② Check the pressure and Tube Size to be connected, then select the Female2 port (horizontal lines in the table)
- ③ Confirm the Catalog No. and product dimensions of the product and then place an order

[Example Image]



➤ [Male → Female]

(Unit : mm)

Pressure Rating	15,000 psi (Female)						20,000 psi (Female)						30,000 psi (Female)			60,000 psi (Female)			NPT (Female)																						
	Catalog No / Dimensions																																								
Tube Size (Port Type)	1/8" (H1502)		1/4" (H1504)		3/8" (H1506)		1/2" (H1008)		1/4" (H2004)		3/8" (H2006)		9/16" (H2009)		3/4" (H2012)		1" (H2016)		1/8" (H3002)		1" (H3016)		1/4" (H6004)		3/8" (H6006)		9/16" (H6009)		1/8"		1/4"		3/8"		1/2"		3/4"		1"		
	Dimensions	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
15,000 psi (Male)	1/8" (H1502)			A015M2/015F4	A015M2/015F6	A015M2/010F8	A015M2/020F4	A015M2/020F6	A015M2/020F9							A015M2/030F2			A015M2/060F4	A015M2/060F6	A015M2/060F9	A015M2/NPTF2	A015M2/NPTF4	A015M2/NPTF6	A015M2/NPTF8																
	1/4" (H1504)	A015M4/015F2			A015M4/015F6	A015M4/010F8	A015M4/020F4	A015M4/020F6	A015M4/020F9	A015M4/020F12			A015M4/030F2			A015M4/060F4	A015M4/060F6	A015M4/060F9	A015M4/NPTF2	A015M4/NPTF4	A015M4/NPTF6	A015M4/NPTF8	A015M4/NPTF12																		
	3/8" (H1506)	A015M6/015F2	A015M6/015F4			A015M6/010F8	A015M6/020F4	A015M6/020F6	A015M6/020F9	A015M6/020F12	A015M6/020F16	A015M6/030F2	A015M6/030F16	A015M6/060F4	A015M6/060F6	A015M6/060F9	A015M6/NPTF2	A015M6/NPTF4	A015M6/NPTF6	A015M6/NPTF8	A015M6/NPTF12	A015M6/NPTF16	A015M6/NPTF18	A015M6/NPTF20	A015M6/NPTF24	A015M6/NPTF28	A015M6/NPTF32	A015M6/NPTF36	A015M6/NPTF40	A015M6/NPTF44	A015M6/NPTF48	A015M6/NPTF52	A015M6/NPTF56	A015M6/NPTF60	A015M6/NPTF64	A015M6/NPTF68	A015M6/NPTF72	A015M6/NPTF76	A015M6/NPTF80		
	1/2" (H1008)	A010M8/015F2	A010M8/015F4	A010M8/015F6			A010M8/020F4	A010M8/020F6	A010M8/020F9	A010M8/020F12	A010M8/020F16	A010M8/030F2	A010M8/030F16	A010M8/060F4	A010M8/060F6	A010M8/060F9	A010M8/NPTF2	A010M8/NPTF4	A010M8/NPTF6	A010M8/NPTF8	A010M8/NPTF12	A010M8/NPTF16	A010M8/NPTF18	A010M8/NPTF20	A010M8/NPTF24	A010M8/NPTF28	A010M8/NPTF32	A010M8/NPTF36	A010M8/NPTF40	A010M8/NPTF44	A010M8/NPTF48	A010M8/NPTF52	A010M8/NPTF56	A010M8/NPTF60	A010M8/NPTF64	A010M8/NPTF68	A010M8/NPTF72	A010M8/NPTF76	A010M8/NPTF80		
20,000 psi (Male)	1/4" (H2004)	A020M4/015F2	A020M4/015F4	A020M4/015F6	A020M4/010F8			A020M4/020F4	A020M4/020F6	A020M4/020F9	A020M4/020F12	A020M4/020F16	A020M4/030F2	A020M4/030F16	A020M4/060F4	A020M4/060F6	A020M4/060F9	A020M4/NPTF2	A020M4/NPTF4	A020M4/NPTF6	A020M4/NPTF8	A020M4/NPTF12	A020M4/NPTF16																		
	3/8" (H2006)	A020M6/015F2	A020M6/015F4	A020M6/015F6	A020M6/010F8	A020M6/020F4			A020M6/020F6	A020M6/020F9	A020M6/020F12	A020M6/020F16	A020M6/030F2	A020M6/030F16	A020M6/060F4	A020M6/060F6	A020M6/060F9	A020M6/NPTF2	A020M6/NPTF4	A020M6/NPTF6	A020M6/NPTF8	A020M6/NPTF12	A020M6/NPTF16	A020M6/NPTF18	A020M6/NPTF20	A020M6/NPTF24	A020M6/NPTF28	A020M6/NPTF32	A020M6/NPTF36	A020M6/NPTF40	A020M6/NPTF44	A020M6/NPTF48	A020M6/NPTF52	A020M6/NPTF56	A020M6/NPTF60	A020M6/NPTF64	A020M6/NPTF68	A020M6/NPTF72	A020M6/NPTF76	A020M6/NPTF80	
	9/16" (H2009)	A020M9/015F2	A020M9/015F4	A020M9/015F6	A020M9/010F8	A020M9/020F4	A020M9/020F6			A020M9/020F9	A020M9/020F12	A020M9/020F16	A020M9/030F2	A020M9/030F16	A020M9/060F4	A020M9/060F6	A020M9/060F9	A020M9/NPTF2	A020M9/NPTF4	A020M9/NPTF6	A020M9/NPTF8	A020M9/NPTF12	A020M9/NPTF16	A020M9/NPTF18	A020M9/NPTF20	A020M9/NPTF24	A020M9/NPTF28	A020M9/NPTF32	A020M9/NPTF36	A020M9/NPTF40	A020M9/NPTF44	A020M9/NPTF48	A020M9/NPTF52	A020M9/NPTF56	A020M9/NPTF60	A020M9/NPTF64	A020M9/NPTF68	A020M9/NPTF72	A020M9/NPTF76	A020M9/NPTF80	
	3/4" (H2012)			A020M12/015F4	A020M12/015F6	A020M12/010F8	A020M12/020F4	A020M12/020F6	A020M12/020F9			A020M12/020F12	A020M12/020F16	A020M12/030F2	A020M12/030F16	A020M12/060F4	A020M12/060F6	A020M12/060F9	A020M12/NPTF2	A020M12/NPTF4	A020M12/NPTF6	A020M12/NPTF8	A020M12/NPTF12	A020M12/NPTF16	A020M12/NPTF18	A020M12/NPTF20	A020M12/NPTF24	A020M12/NPTF28	A020M12/NPTF32	A020M12/NPTF36	A020M12/NPTF40	A020M12/NPTF44	A020M12/NPTF48	A020M12/NPTF52	A020M12/NPTF56	A020M12/NPTF60	A020M12/NPTF64	A020M12/NPTF68	A020M12/NPTF72	A020M12/NPTF76	A020M12/NPTF80
	1" (H2016)			A020M16/015F4	A020M16/015F6	A020M16/010F8	A020M16/020F4	A020M16/020F6	A020M16/020F9	A020M16/020F12			A020M16/020F16	A020M16/030F2	A020M16/030F16	A020M16/060F4	A020M16/060F6	A020M16/060F9	A020M16/NPTF2	A020M16/NPTF4	A020M16/NPTF6	A020M16/NPTF8	A020M16/NPTF12	A020M16/NPTF16	A020M16/NPTF18	A020M16/NPTF20	A020M16/NPTF24	A020M16/NPTF28	A020M16/NPTF32	A020M16/NPTF36	A020M16/NPTF40	A020M16/NPTF44	A020M16/NPTF48	A020M16/NPTF52	A020M16/NPTF56	A020M16/NPTF60	A020M16/NPTF64	A020M16/NPTF68	A020M16/NPTF72	A020M16/NPTF76	A020M16/NPTF80
30,000 psi (Male)	1/8" (H3002)	A030M2/015F2	A030M2/015F4	A030M2/015F6	A030M2/010F8	A030M2/020F4	A030M2/020F6	A030M2/020F9							A030M2/060F4	A030M2/060F6	A030M2/060F9	A030M2/NPTF2	A030M2/NPTF4	A030M2/NPTF6	A030M2/NPTF8																				
	1" (H3016)			A030M16/015F4	A030M16/015F6	A030M16/010F8	A030M16/020F4	A030M16/020F6	A030M16/020F9	A030M16/020F12	A030M16/020F16			A030M16/030F2	A030M16/030F16	A030M16/060F4	A030M16/060F6	A030M16/060F9	A030M16/NPTF2	A030M16/NPTF4	A030M16/NPTF6	A030M16/NPTF8	A030M16/NPTF12	A030M16/NPTF16	A030M16/NPTF18	A030M16/NPTF20	A030M16/NPTF24	A030M16/NPTF28	A030M16/NPTF32	A030M16/NPTF36	A030M16/NPTF40	A030M16/NPTF44	A030M16/NPTF48	A030M16/NPTF52	A030M16/NPTF56	A030M16/NPTF60	A030M16/NPTF64	A030M16/NPTF68	A030M16/NPTF72	A030M16/NPTF76	A030M16/NPTF80
60,000 psi (Male)	1/4" (H6004)	A060M4/015F2	A060M4/015F4	A060M4/015F6	A060M4/010F8	A060M4/020F4	A060M4/020F6	A060M4/020F9	A060M4/020F12			A060M4/030F2			A060M4/060F4	A060M4/060F6	A060M4/060F9	A060M4/NPTF2	A060M4/NPTF4	A060M4/NPTF6	A060M4/NPTF8	A060M4/NPTF12																			
	3/8" (H6006)	A060M6/015F2	A060M6/015F4	A060M6/015F6	A060M6/010F8	A060M6/020F4	A060M6/020F6	A060M6/020F9	A060M6/020F12	A060M6/020F16	A060M6/030F2	A060M6/030F16	A060M6/060F4			A060M6/060F6	A060M6/060F9	A060M6/NPTF2	A060M6/NPTF4	A060M6/NPTF6	A060M6/NPTF8	A060M6/NPTF12	A060M6/NPTF16	A060M6/NPTF18	A060M6/NPTF20	A060M6/NPTF24	A060M6/NPTF28	A060M6/NPTF32	A060M6/NPTF36	A060M6/NPTF40	A060M6/NPTF44	A060M6/NPTF48	A060M6/NPTF52	A060M6/NPTF56	A060M6/NPTF60	A060M6/NPTF64	A060M6/NPTF68	A060M6/NPTF72	A060M6/NPTF76	A060M6/NPTF80	
	9/16" (H6009)	A060M9/015F2	A060M9/015F4	A060M9/015F6	A060M9/010F8	A060M9/020F4	A060M9/020F6	A060M9/020F9	A060M9/020F12	A060M9/020F16	A060M9/030F2	A060M9/030F16	A060M9/060F4	A060M9/060F6			A060M9/060F9	A060M9/NPTF2	A060M9/NPTF4	A060M9/NPTF6	A060M9/NPTF8	A060M9/NPTF12	A060M9/NPTF16	A060M9/NPTF18	A060M9/NPTF20	A060M9/NPTF24	A060M9/NPTF28	A060M9/NPTF32	A060M9/NPTF36	A060M9/NPTF40	A060M9/NPTF44	A060M9/NPTF48	A060M9/NPTF52	A060M9/NPTF56	A060M9/NPTF60	A060M9/NPTF64	A060M9/NPTF68	A060M9/NPTF72	A060M9/NPTF76	A060M9/NPTF80	
NPT (Male)	1/8"	ANPTM2/015F2	ANPTM2/015F4	ANPTM2/015F6	ANPTM2/010F8	ANPTM2/020F4	ANPTM2/020F6	ANPTM2/020F9			ANPTM2/020F12			ANPTM2/030F2			ANPTM2/060F4	ANPTM2/060F6	ANPTM2/060F9																						
	1/4"	ANPTM4/015F2	ANPTM4/015F4	ANPTM4/015F6	ANPTM4/010F8	ANPTM4/020F4	ANPTM4/020F6	ANPTM4/020F9	ANPTM4/020F12	ANPTM4/020F16	ANPTM4/030F2	ANPTM4/030F16	ANPTM4/060F4	ANPTM4/060F6	ANPTM4/060F9			ANPTM4/NPTF2	ANPTM4/NPTF4	ANPTM4/NPTF6																					
	3/8"	ANPTM6/015F2	ANPTM6/015F4	ANPTM6/015F6	ANPTM6/010F8	ANPTM6/020F4	ANPTM6/020F6	ANPTM6/020F9	ANPTM6/020F12	ANPTM6/020F16	ANPTM6/030F2	ANPTM6/030F16	ANPTM6/060F4	ANPTM6/060F6	ANPTM6/060F9			ANPTM6/NPTF2	ANPTM6/NPTF4	ANPTM6/NPTF6	ANPTM6/NPTF8																				
	1/2"	ANPTM8/015F2	ANPTM8/015F4	ANPTM8/015F6	ANPTM8/010F8	ANPTM8/020F4	ANPTM8/020F6	ANPTM8/020F9	ANPTM8/020F12	ANPTM8/020F16	ANPTM8/030F2	ANPTM8/030F16	ANPTM8/060F4	ANPTM8/060F6	ANPTM8/060F9			ANPTM8/NPTF2	ANPTM8/NPTF4	ANPTM8/NPTF6	ANPTM8/NPTF8																				
	3/4"			ANPTM12/015F4	ANPTM12/015F6	ANPTM12/010F8	ANPTM12/020F4	ANPTM12/020F6	ANPTM12/020F9	ANPTM12/020F12	ANPTM12/020F16	ANPTM12/030F2	ANPTM12/030F16	ANPTM12/060F4	ANPTM12/060F6	ANPTM12/060F9	ANPTM12/NPTF2																								
	1"			ANPTM16/015F4	ANPTM16/015F6	ANPTM16/010F8	ANPTM16/020F4	ANPTM16/020F6	ANPTM16/020F9	ANPTM16/020F12	ANPTM16/020F16	ANPTM16/030F2	ANPTM16/030F16	ANPTM16/060F4	ANPTM16/060F6	ANPTM16/060F9			ANPTM16/NPTF2	ANPTM16/NPTF4	ANPTM16/NPTF6	ANPTM16/NPTF8																			

All dimensions are for reference only and may differ from actual size.

➤ [male → male]

(Unit : mm)

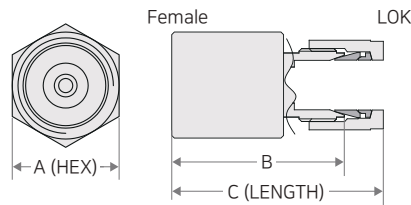
Pressure Rating	15,000 psi (Male 2)				20,000 psi (Male 2)				30,000 psi (Male 2)		60,000 psi (Male 2)		NPT (Male 2)																																				
Catalog No / Dimensions																																																	
Tube Size (Port Type)	1/8" (H1502)		1/4" (H1504)		3/8" (H1506)		1/2" (H1008)		1/4" (H2004)		3/8" (H2006)		9/16" (H2009)		3/4" (H2012)		1" (H2016)		1/8" (H3002)		1" (H3016)		1/4" (H6004)		3/8" (H6006)		9/16" (H6009)		1/8"		1/4"		3/8"		1/2"		3/4"		1"										
	Dimensions	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B								
15,000 psi (Male 1)	1/8" (H1502)	A015M2 /015M2	A015M2 /015M4	A015M2 /015M6	A015M2 /010M8	A015M2 /020M4	A015M2 /020M6	A015M2 /020M9													A015M2 /030M2			A015M2 /060M4	A015M2 /060M6	A015M2 /060M9	A015M2 /NPTM2	A015M2 /NPTM4	A015M2 /NPTM6	A015M2 /NPTM8																			
	1/4" (H1504)		A015M4 /015M4	A015M4 /015M6	A015M4 /010M8	A015M4 /020M4	A015M4 /020M6	A015M4 /020M9	A015M4 /020M12													A015M4 /030M2			A015M4 /060M4	A015M4 /060M6	A015M4 /060M9	A015M4 /NPTM2	A015M4 /NPTM4	A015M4 /NPTM6	A015M4 /NPTM8	A015M4 /NPTM12																	
	3/8" (H1506)			A015M6 /015M6	A015M6 /010M8	A015M6 /020M4	A015M6 /020M6	A015M6 /020M9	A015M6 /020M12	A015M6 /020M16	A015M6 /030M2	A015M6 /030M16	A015M6 /060M4	A015M6 /060M6	A015M6 /060M9	A015M6 /NPTM2	A015M6 /NPTM4	A015M6 /NPTM6	A015M6 /NPTM8	A015M6 /NPTM12	A015M6 /NPTM16																												
	1/2" (H1008)				A010M8 /010M8	A010M8 /020M4	A010M8 /020M6	A010M8 /020M9	A010M8 /020M12	A010M8 /020M16	A010M8 /030M2	A010M8 /030M16	A010M8 /060M4	A010M8 /060M6	A010M8 /060M9	A010M8 /NPTM2	A010M8 /NPTM4	A010M8 /NPTM6	A010M8 /NPTM8	A010M8 /NPTM12	A010M8 /NPTM16																												
20,000 psi (Male 1)	1/4" (H2004)					A020M4 /020M4	A020M4 /020M6	A020M4 /020M9	A020M4 /020M12	A020M4 /020M16	A020M4 /030M2												A020M4 /060M4	A020M4 /060M6	A020M4 /060M9	A020M4 /NPTM2	A020M4 /NPTM4	A020M4 /NPTM6	A020M4 /NPTM8	A020M4 /NPTM12	A020M4 /NPTM16																		
	3/8" (H2006)						A020M6 /020M6	A020M6 /020M9	A020M6 /020M12	A020M6 /020M16	A020M6 /030M2	A020M6 /030M16	A020M6 /060M4	A020M6 /060M6	A020M6 /060M9	A020M6 /NPTM2	A020M6 /NPTM4	A020M6 /NPTM6	A020M6 /NPTM8	A020M6 /NPTM12	A020M6 /NPTM16																												
	9/16" (H2009)							A020M9 /020M9	A020M9 /020M12	A020M9 /020M16	A020M9 /030M2	A020M9 /030M16	A020M9 /060M4	A020M9 /060M6	A020M9 /060M9	A020M9 /NPTM2	A020M9 /NPTM4	A020M9 /NPTM6	A020M9 /NPTM8	A020M9 /NPTM12	A020M9 /NPTM16																												
	3/4" (H2012)								A020M12 /020M12	A020M12 /020M16	A020M12 /030M2	A020M12 /030M16	A020M12 /060M4	A020M12 /060M6	A020M12 /060M9																																		
	1" (H2016)									A020M16 /020M16		A020M16 /030M16	A020M16 /060M4	A020M16 /060M6	A020M16 /060M9																																		
30,000 psi (Male 1)	1/8" (H3002)																																																
	1" (H3016)																																																
60,000 psi (Male 1)	1/4" (H6004)																																																
	3/8" (H6006)																																																
	9/16" (H6009)																																																
NPT (Male 1)	1/8"																																																
	1/4"																																																
	3/8"																																																
	1/2"																																																
	3/4"																																																
	1"																																																

All dimensions are for reference only and may differ from actual size.

➤ [Adapter - Female → LOK (Female)]



[Female to LOK]

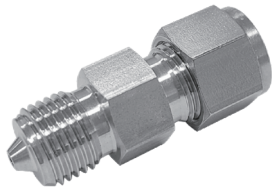


(Unit : mm)

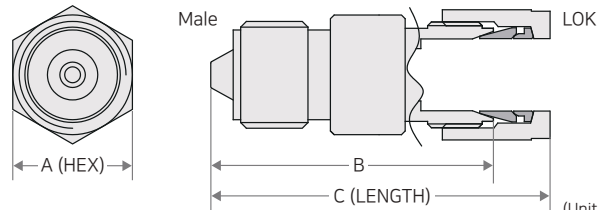
Pressure Rating	LOK(Female)												
	Tube Size (Port Type)	Catalog No / Dimensions											
		A	B	C	A	B	C	A	B	C	A	B	C
20,000 psi (Female)	1/8" (H2004)	1/8" (H2004)			1/4" (H2006)			3/8" (H2009)			1/2" (H2012)		
	1/4" (H2004)	A020F4/LOKF02			A020F4/LOKF04			A020F4/LOKF06			A020F4/LOKF08		
	3/8" (H2006)	16	30.9	37.9	16	33.3	40.67	16	34.8	42.17	20.6	37.2	47.46
	9/16" (H2009)	20.6	35.6	42.6	20.6	37	44.37	20.6	38.5	45.87	20.6	39.4	49.66
	3/4" (H2012)	25.4	42.7	49.7	25.4	44.1	51.47	25.4	45.6	52.97	25.4	46.5	56.76
	1" (H2016)	36	48.4	55.4	36	49.8	57.17	36	51.3	58.67	36	52.2	62.46
	1" (H2016)	46	59.4	66.4	46	60.8	68.17	46	62.3	69.67	46	63.2	73.46
60,000 psi (Female)	1/8" (H6004)	1/8" (H6004)			1/4" (H6004)			3/8" (H6009)			1/2" (H2012)		
	1/4" (H6004)	A060F4/LOKF02			A060F4/LOKF04			A060F4/LOKF06			A060F4/LOKF08		
	3/8" (H6006)	20.6	29.1	36.1	20.6	33	40.37	20.6	34.5	41.87	20.6	35.4	45.66
	9/16" (H6009)	25.4	37.9	44.9	25.4	39.3	46.67	25.4	40.8	48.17	25.4	41.7	51.96
	3/4" (H2012)	36	42.2	49.2	36	43.6	50.97	36	45.1	52.47	36	46	56.26
	1" (H2016)	46	59.4	66.4	46	60.8	68.17	46	62.3	69.67	46	63.2	73.46
	1" (H2016)	36	42.2	49.2	36	43.6	50.97	36	45.1	52.47	36	46	56.26

All dimensions are for reference only and may differ from actual size.

➤ [Adapter - Male to LOK (Female)]



[Male to LOK]



(Unit : mm)

Pressure Rating	LOK(Female)												
	Tube Size (Port Type)	Catalog No / Dimensions											
		A	B	C	A	B	C	A	B	C	A	B	C
20,000 psi (Male)	1/8" (H2004)	1/8" (H2004)			1/4" (H2006)			3/8" (H2009)			1/2" (H2012)		
	1/4" (H2004)	A020M4/LOKF02			A020M4/LOKF04			A020M4/LOKF06			A020M4/LOKF08		
	3/8" (H2006)	12.7	38	44.5	12.7	39.3	46.67	16	40.8	48.17	20.6	40.8	51.06
	9/16" (H2009)	16	41.6	48.6	16	43.3	50.67	16	44.8	52.17	20.6	44.8	55.06
	3/4" (H2012)	24	45.1	52.1	24	46.8	54.17	24	48.3	55.67	24	48.3	58.56
	1" (H2016)	30	56.1	63.1	30	57.8	65.17	30	59.3	66.67	30	59.3	69.56
	1" (H2016)	36	66.6	73.6	36	68.3	75.67	36	69.8	77.17	36	69.8	80.06
60,000 psi (Male)	1/8" (H6004)	1/8" (H6004)			1/4" (H6004)			3/8" (H6009)			1/2" (H2012)		
	1/4" (H6004)	A060M4/LOKF02			A060M4/LOKF04			A060M4/LOKF06			A060M4/LOKF08		
	3/8" (H6006)	16	35.6	42.6	16	37.3	44.67	16	38.8	46.17	20.6	38.3	48.56
	9/16" (H6009)	20.6	43.1	50.1	20.6	44.8	52.17	20.6	46.3	53.67	20.6	45.8	56.06
	3/4" (H2012)	30	52.6	59.6	30	54.3	61.67	30	55.8	63.17	30	55.8	66.06
	1" (H2016)	46	66.6	73.6	46	68.3	75.67	46	69.8	77.17	46	69.8	80.06
	1" (H2016)	30	52.6	59.6	30	54.3	61.67	30	55.8	63.17	30	55.8	66.06

All dimensions are for reference only and may differ from actual size.

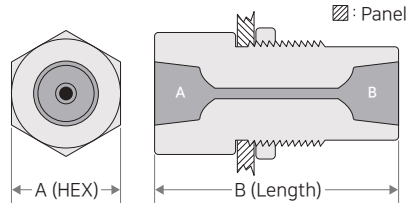
➤ How to use the table and select products

- ① Select Female according to the pressure and Tube Size you will be using (vertical lines in the table)
- ② Check the pressure and Tube Size to be connected, then select LOK (Female) (horizontal lines in the table)
- ③ Check the Catalog No. and dimensions of the product

▶ [Adapter - Bulkhead Union]



[Female to Female]



(Unit : mm)

Catalog No		Pressure Rating	Port Type	Tube Size	Dimensions	
Female1	Female2				A	HEX
A015F2 / 015F2-B		15,000 psi	H1502	1/8"	25.4	53.9
A015F4 / 015F4-B			H1504	1/4"	25.4	53.9
A015F6 / 015F6-B			H1506	3/8"	34.9	60.3
A010F8 / 010F8-B			H1008	1/2"	38.1	60.3
A020F4 / 020F4-B		20,000 psi	H2004	1/4"	25.4	47.6
A020F6 / 020F6-B			H2006	3/8"	25.4	50.8
A020F9 / 020F9-B			H2009	9/16"	36	61
A020F12 / 020F12-B			H2012	3/4"	48	67
A020F16 / 020F16-B			H2016	1"	55	88.9
A060F4 / 060F4-B		60,000 psi	H6004	1/4"	25.4	50.8
A060F6 / 060F6-B			H6006	3/8"	36	60
A060F9 / 060F9-B			H6009	9/16"	47.6	69.8
ANPTF2 / NPTF2-B		15,000 psi NPT		1/8"	25.4	53.9
ANPTF4 / NPTF4-B				1/4"	25.4	53.9
ANPTF6 / NPTF6-B				3/8"	34.9	60.3
ANPTF8 / NPTF8-B				1/2"	38.1	60.3
ANPTF12 / NPTF12-B		10,000 psi NPT		3/4"	47.6	66.6
ANPTF16 / NPTF16-B				1"	53.9	88.9

All dimensions are for reference only and may differ from actual size.

▶ How to use the table and select products

- ① Select Female 1 according to the pressure and tube size you will use
- ② Check the pressure tube size to be connected and select Female 2
- ③ Check the catalog number and dimensions of the product

▶ Example

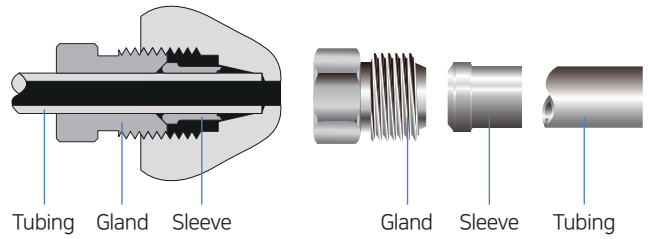
- A010F8 / 010F8-B : 15,000 psi, H1008, 1/2"
- ANPTF4 / NPTF4-B : 15,000 psi (NPT), 1/4"

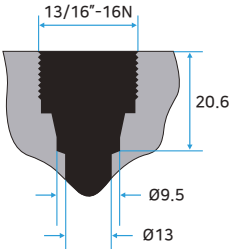
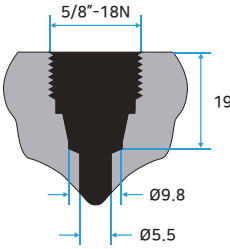
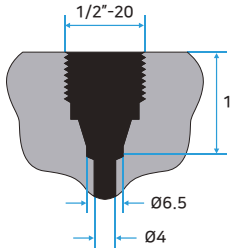
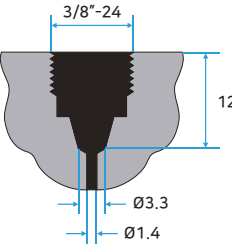
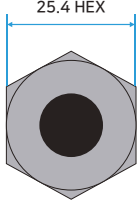
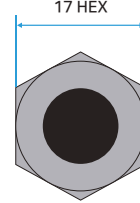
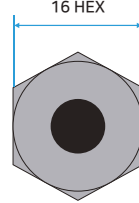
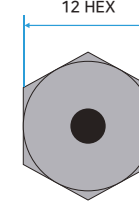
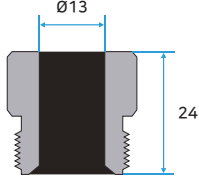
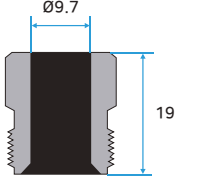
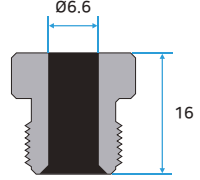
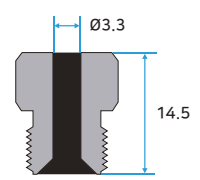
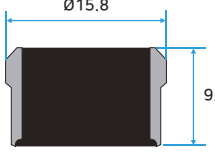
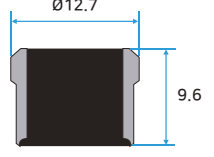
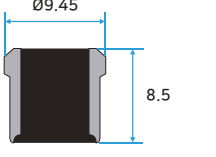
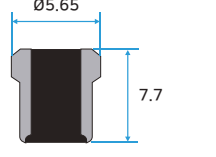
Port Type

Low Pressure Port Type

▶ Sleeve Type Connections - 10,000 psi / 15,000 psi

Sleeve Type is a method of attaching a sleeve inside a gland and can be used on 1/8", 1/4", 3/8", and 1/2" pipes. The tubes used for connecting products can be ordered from HIFLUX Mall and are made of stainless steel to ensure optimal performance in high-pressure environments.



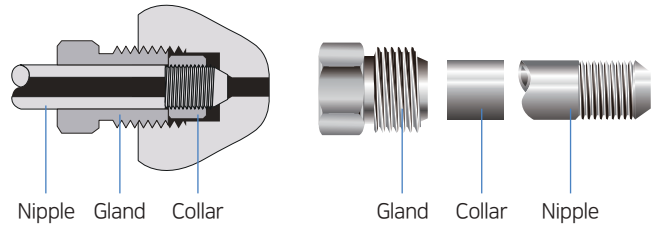
H1008 10,000psi - 1/2"	H1506 15,000psi - 3/8"	H1504 15,000psi - 1/4"	H1502 15,000psi - 1/8"
			
			
			
			

Port Type

Medium Pressure Port Type

Medium Pressure Connections - 20,000 psi

Products are connected using Collar and Nipple within the Gland, and the Nipple required for connecting products can be ordered in the desired length by the user, and can also be processed directly using our tooling set.



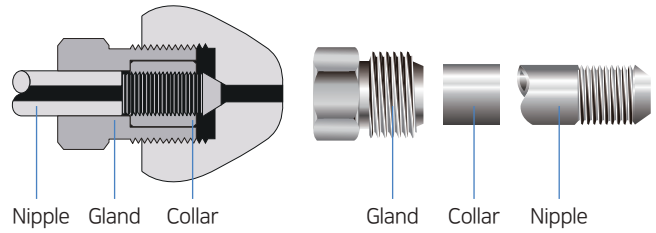
H2004 20,000psi - 1/4"	H2006 20,000psi - 3/8"	H2009 20,000psi - 9/16"	H2012 20,000psi - 3/4"	H2016 20,000psi - 1"

Port Type

High Pressure Port Type

High Pressure Connections - 30,000 psi / 60,000 psi

The Nipple required for connection between the products by using collar and Nipple in the Gland can be ordered by user's desired length. you can also process directly using our Tooling Set tool. this cone and threaded connection is the standard for easy and fast high-pressure equipment configuration with optimum sealing and reliable performance for both liquid and gas at high pressure and temperature.



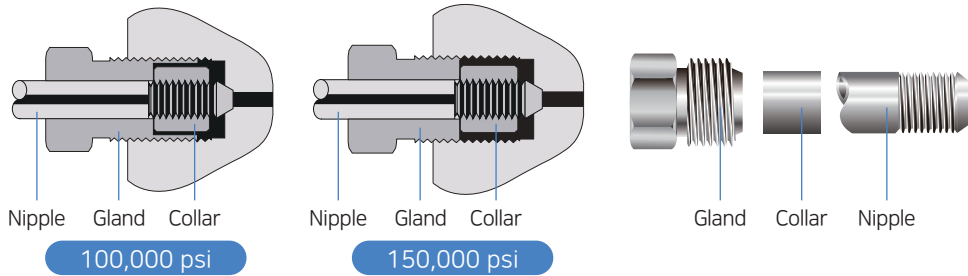
H3002 30,000psi - 1/8"	H3016 30,000psi - 1"	H6004 60,000psi - 1/4" (M : Metric)	H6006 60,000psi - 3/8" (M : Metric)	H6009 60,000psi - 9/16" (M : Metric)

Port Type

Ultra High Pressure Port Type

Ultra High Pressure Connections - 100,000 psi / 150,000 psi

The product is connected using a collar and nipple within the gland, and the corresponding pipe sizes are as follows. This Cone and Thread method connection is the optimal sealing method, and it provides reliable performance for both liquids and gases at high pressures and temperatures, and is the standard for easy and quick high-pressure equipment configuration.



H10004 100,000psi - 1/4"	H10006 100,000psi - 3/8"	H10009 100,000psi - 9/16"	H15006 150,000psi - 3/8"

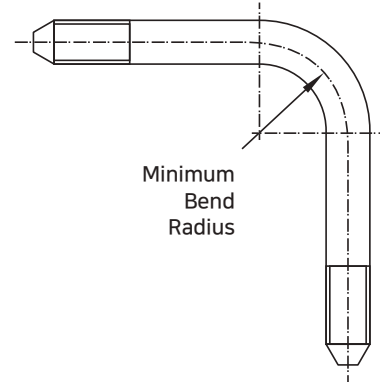
Technical Information

Recommended Torque

Recommended Minimum Bend Radius

Tubing Size O.D. x I.D. in. (mm)	Tubing Pressure psi (bar) @ R.T.	Recommended Minimum Bend Radius in. (mm)
1/4 inch (6.35 x 2.77)	20,000 (1,370)	1.25 (31.8)
3/8 inch (9.53 x 5.16)	20,000 (1,370)	1.75 (44.5)
9/16 inch (14.29 x 7.92)	20,000 (1,370)	2.63 (66.8)
3/4 inch (19.05 x 11.13)	20,000 (1,370)	3.50 (88.9)
1 inch (25.4 x 14.27)	20,000 (1,370)	4.63 (117.6)
1 inch (25.4 x 11.13)	30,000 (2,060)	4.63 (117.6)
1/4 inch (6.35 x 2.11)	60,000 (4,130)	1.25 (31.8)
3/8 inch (9.53 x 3.18)	60,000 (4,130)	1.75 (44.5)
9/16 inch (14.29 x 4.78)	60,000 (4,130)	2.63 (66.8)

All dimensions are for reference only and may differ from actual size.



HIFLUX Needle Valve Assembly Torque Chart

Valve Pressure Series	Port Type	Tube Size (PSI)	Stem Gland HEX (mm)	Minimum Torque (kg.f-cm)
10,000 PSI 15,000 PSI	H1502	1/8 Inch (15,000)	13	170
	H1504	1/4 Inch (15,000)	17	550
	H1506	3/8 Inch (15,000)	17	550
	H1008	1/2 Inch (15,000)	24	800
20,000 PSI	H2004	1/4 Inch (20,000)	17	550
	H2006	3/8 Inch (20,000)	17	550
	H2009	9/16 Inch (20,000)	22	1100
	H2010	3/4 Inch (20,000)	30	3,500
	H2012	1 Inch (20,000)	41	5,000
30,000 PSI	H3002	1/8 Inch (30,000)	13	500
	H6004	1/4 Inch (30,000)	20	550
	H6006	3/8 Inch (30,000)	20	550
	H6009	9/16 Inch (30,000)	20	550
60,000 PSI	H6004	1/4 Inch (60,000)	20	670
	H6006	3/8 Inch (60,000)	20	670
	H6009	9/16 Inch (60,000)	20	670
100,000 PSI	H10004	1/4 Inch (100,000)	24	1250
	H10006	3/8 Inch (100,000)	24	1250
	H10009	9/16 Inch (100,000)	24	1250
150,000 PSI	H15006	3/8 Inch (150,000)	24	1870
10,000 & 15,000 PSI NPT TYPE	HFN02	1/8 Inch (15,000)	13	500
	HFN04	1/4 Inch (15,000)	17	550
	HFN06	3/8 Inch (15,000)	17	550
	HFN08	1/2 Inch (15,000)	22	1100
	HFN10	3/4 Inch (10,000)	41	-
	HFN12	1 Inch (10,000)	41	-

Torque values apply to glass-impregnated Teflon packaging and may vary by ±10%



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