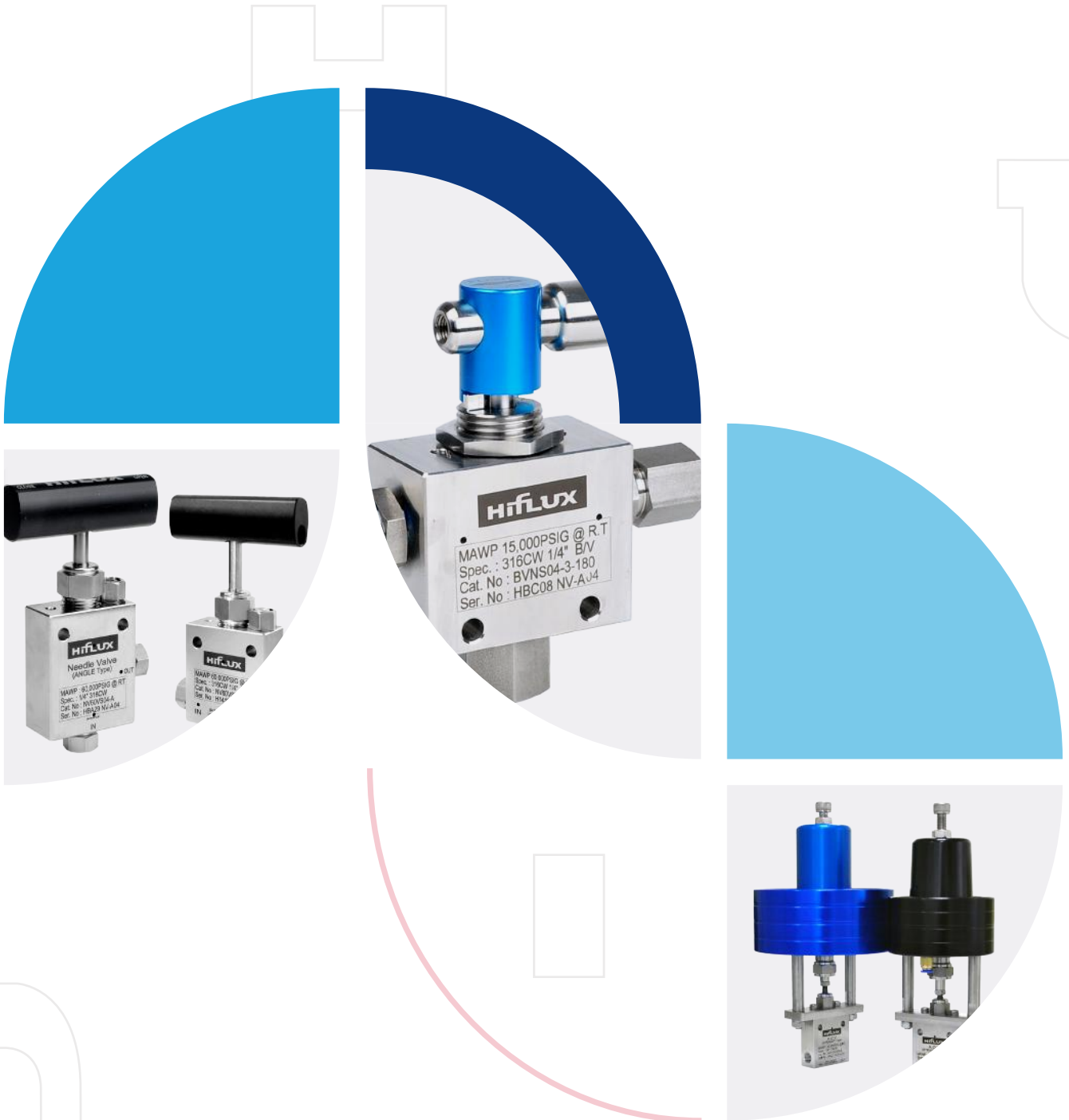


# HIFLUX

High Pressure Valves & Fittings



HIFLUX is based on the accumulated precision engineering & technological know-hows, high pressure equipment, required for plant valve, fitting, pressure regulator etc., manufacturing and sells.



**HIGH SERVICE  
HIGH QUALITY  
HIGH PERFORMANCE!**

**High Pressure equipment**



## CEO'S Message



Based on years of sophisticated engineering technology, Hiflux has been working hard to localize high-temperature, high-pressure industries and open new markets and developed a range of high-pressure products to meet the needs of our customers through constant research and facility investment.

Our products are applied to general pressure to special industry applications which require up to 150,000psig ultra high pressure.

In order to become a global leader in ultra-high pressure, We will do our best to become 'HIFLUX' a company that listens carefully to customers and consistently improves products and service and contributes to enhancing quality and productivity in order to develop and grow together with our customers. Thank you.

CEO ***Kim Hyeon-hyo***

# HIGH PRESSURE HISTORY

## PASSION FOR THE FUTURE, CONSTANT CHALLENGE AND INNOVATION

Our company has been recognized for its technology by succeeding in various localization of high-pressure instruments which are difficult to manufacture in Korea through continuous research and development and facility investment for new market exploration in ultra-high pressure instruments material field. Based on technology and price competitiveness differentiated from overseas manufacturers such as Europe and USA, we are growing into a global brand by supplying domestic OEM and supplying OEM with overseas Global Waterjet manufacturer.



## DEVELOP VARIOUS HIGH PRESSURE VALVES EXPAND OVERSEAS MARKET

- Signed supply contract with Denmark and France.
- Development of High Pressure Bleed Valve, Wellhead Gauge Valve, Double Block & Bleed Valve.
- Development of high pressure ball valve 2Way / 3Way Trunnion Ball Valve.
- Development of high pressure relief valve (factory set, field adjustable, proportional type).
- Development of high pressure needle valve 3way 2stem valve.
- Signed OEM supply contract with Global Waterjet Pump manufacturer in China and Austria.
- Russia and Singapore signed contract for supply of goods.



Certificate of patent  
10-2136732



Certificate of patent  
10-2103737



Certificate of patent  
10-2080599



Certificate of patent  
10-2080603



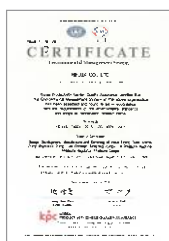
Certificate of patent  
10-2225407



Certificate of patent  
10-1151733



ISO 9000



ISO 14001



European Integrated  
Standard Certification (CE)



Research laboratory  
certification



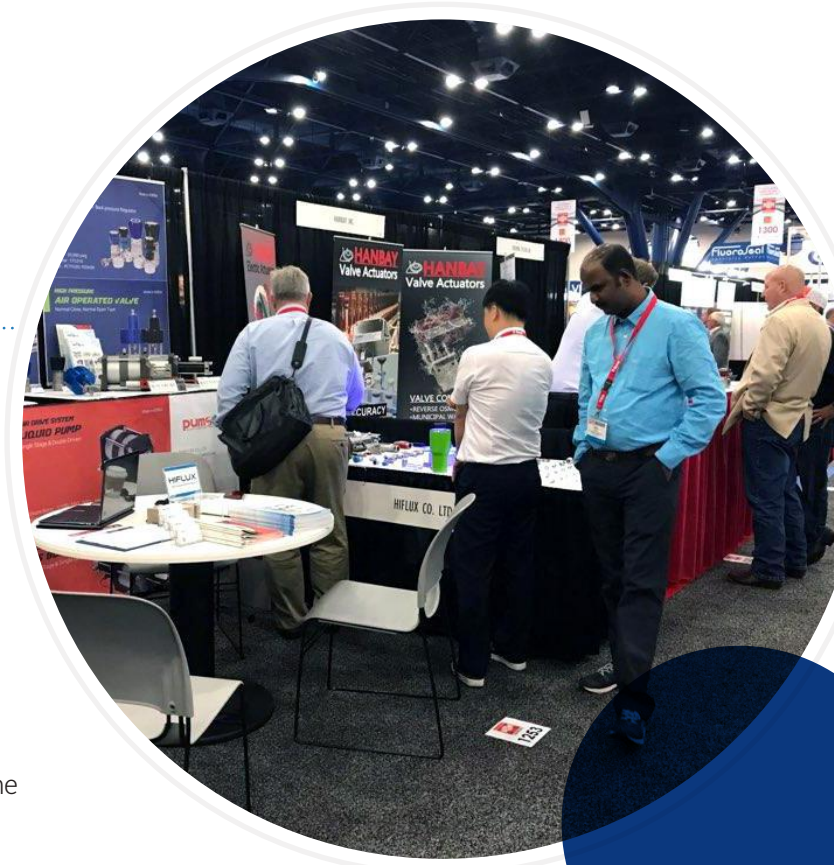
Venture company  
confirmation



Trademark  
(HIFLUX)

## OPENING THE ONLINE MARKET PARTICIPATING IN THE DOMESTIC AND OVERSEAS FAIR

- Participated in Valve World EXPO & CONFERENCE exhibition in USA and China.
- Participated in China International Petrochemical Technology Exhibition (Cippe).
- Participated in international parts and materials industry exhibition / International nanotechnology exhibition / International marine plant exhibition every year.
- Join Open Market(Auction, Gmarket, 11st, Naver Shopping, ebay).
- Opened 'HIFLUX Shopping Mall' for the first time in the high pressure piping materials industry.



## ESTABLISHED R & D CENTER HIGH PRESSURE TECHNOLOGY LOCALIZATION

- Transfer of head office and factory to Daedeok Techno Valley.
- Acquiring 'Venture Company Certification'.
- Acquired European Integrated Standard Certification (CE).
- Acquired ISO 9001, ISO 14001 certification.
- Trademark Registration 'HIFLUX, FLUXLOK'.
- Patent Registration (7 types of high pressure valves).
- Establishment and certification of affiliated research institute.

# Catalog Numbering System



Simply indicate catalog number and specify option or special requirement

NV	60	V	S	06	A
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Product Value	Pressure	Type of Components	Material	Tube Size	Options
NV : Needle Valve CV : Check Valve BV : Ball Valve AOV : Air Operated Valve CON : Control Valve GV : Wellhead Gauge Valve BLV : Bleed Valve DBBV : Double Block & Bleed Valve RV : Relief Valve FT : Fitting FA : Fitting Accessory MF : Manifold Block T : Tube N : Nipple GPR : General Pressure Regulator HPR : High Pressure Regulator BPR : Back Pressure Regulator AD : Adapter TS : Tube Support	03 : 3,000psi  07 : 7,500psi  15 : Sleeve Type Refer to Valve Select  20 : 20,000psi  30 : 30,000psi  60 : 60,000psi  100 : 100,000psi  150 : 150,000psi	<b>Needle Valve</b> V : Vee Stem R : Regulating Stem  <b>Check Valve</b> O : O-Ring Type B : Ball Type  <b>Ball Valve</b> 03 : Orifice 4.8mm 05 : Orifice 8mm  <b>Control Valve</b> <b>Air Operated Valve</b> O : Normal-Open Type C : Normal-Closed Type  <b>Relief Valve</b> FS : Factory Set FA : Field Adjustable PP : Proportional Type  <b>Fitting</b> E : Elbow Type T : Tee Type C : Cross Type  <b>Fitting Accessory</b> A : Adapter (20,000psi용) S : Sleeve (저압용) G : Gland R : Collar T : Collet	S : Stainless steel 316  H : Hastelloy  HC : Hastelloy C276 wetted part  IN : Inconel 600  IN625 : Inconel 625  NI : Nickel 200  TI : Titanium	02 : 1/8"  04 : 1/4"  06 : 3/8"  08 : 1/2"  09 : 9/16"  12 : 3/4"  16 : 1"  15 : 15A  25 : 25A	<b>Needle Valve</b> <b>Control Valve</b> <b>Air Operated Valve</b> S : Straight Type A : Angle Type O : 3way/1on pressure Type T : 3way/2on pressure Type  <b>Ball Valve</b> 2-90 : 2WAY 3-180 : 3WAY Switching Type 3-90 : 3WAY Diverting Type  <b>Fitting Accessory</b> AV : Anti-Vibration Type  <b>GPR</b> N : Normal Type P : Panel Type

※ Catalog number can be changed without any notification

## Example

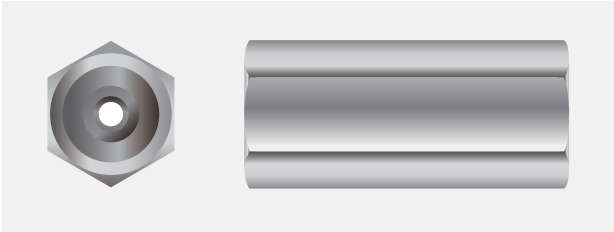
- NV60VS06-A : Needle Valve, 60,000psi, Vee Stem, 3/8", Angle Type.
- NV15VS04-O : Needle Valve, 15,000psi, Vee Stem, 1/4", 3Way/1on Pressure Type.
- CON07CS15-S : Control Valve, 7,500psi, Normal-Closed, 15A, Straight Type.
- AOV60CS04-A : Air Operated Valve, 60,000psi, Normal-Closed, 1/4", Angle Type.
- FT60ES06 : Fitting, 60,000psi, Elbow Type, 3/8".
- FA60GS04-AV : Fitting Accessory, 60,000psi, Gland, 1/4", Anti-Vibration Type.

# 22. High Pressure Union & Adapter

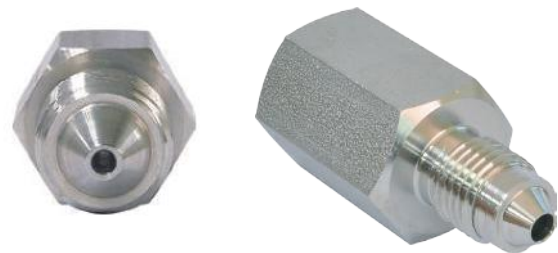
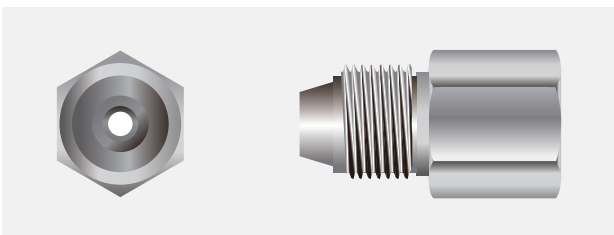


Adapter facilitates pressure and size compatibility without coupling

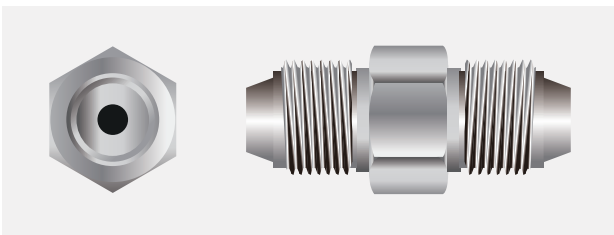
### [Female → Female (Union)]



### [male → Female]



### [male → male]



## Features

- Using stainless steel 316 cold material for excellent corrosion resistant.
- Various formations from overall pressure to national pipe thread (NPT).
- Cone and thread connection to prevent gas or liquid leaking.
- Glands, Collars or Sleeves are provided for the high pressure part of the female port and you should inquire with us about anti-vibration prevention.
- The cone and thread connection type adapter ensures that products are connected safely and can be used for both fluid and gas in high pressure conditions without causing water leaks.



[Female → Female (Union)]

		FEMALE END																									
		15,000psi				20,000psi				30,000psi		60,000psi			NPT (National Pipe Thread)												
		1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	9/16"	3/4"	1"	1/8"	1"	1/4"	3/8"	9/16"	1/8"	1/4"	3/8"	1/2"	3/4"	1"						
FEMALE END	15,000 psi	1/8"	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								
		1/4"		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						
		3/8"			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					
		1/2"				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					
	20,000 psi	1/4"					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					
		3/8"						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					
		9/16"							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					
		3/4"								A020F12/020F12	A020F12/020F16	A020F12/030F2	A020F12/030F16	A020F12/060F4	A020F12/060F6	A020F12/060F9		A020F12/NPTF4	A020F12/NPTF6	A020F12/NPTF8	A020F12/NPTF12	A020F12/NPTF16					
	30,000 psi	1"									A020F16/020F16		A020F16/030F16	A020F16/060F4	A020F16/060F6	A020F16/060F9		A020F16/NPTF4	A020F16/NPTF6	A020F16/NPTF8	A020F16/NPTF12	A020F16/NPTF16					
		1/8"										A030F2/030F2		A030F2/060F4	A030F2/060F6	A030F2/060F9	A030F2/NPTF2	A030F2/NPTF4	A030F2/NPTF6	A030F2/NPTF8							
	60,000 psi	1"											A030F16/030F16	A030F16/060F4	A030F16/060F6	A030F16/060F9		A030F16/NPTF4	A030F16/NPTF6	A030F16/NPTF8	A030F16/NPTF12	A030F16/NPTF16					
		1/4"												A060F4/060F4	A060F4/060F6	A060F4/060F9	A060F4/NPTF2	A060F4/NPTF4	A060F4/NPTF6	A060F4/NPTF8	A060F4/NPTF12	A060F4/NPTF16					
3/8"														A060F6/060F6	A060F6/060F9	A060F6/NPTF2	A060F6/NPTF4	A060F6/NPTF6	A060F6/NPTF8	A060F6/NPTF12	A060F6/NPTF16						
																					A060F9/060F9	A060F9/NPTF2	A060F9/NPTF4	A060F9/NPTF6	A060F9/NPTF8	A060F9/NPTF12	A060F9/NPTF16

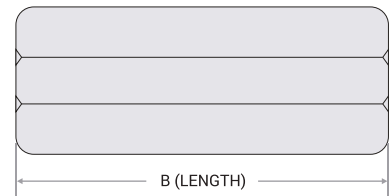
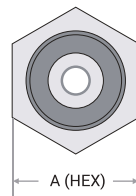
(Unit : mm)

		Dimensions																																							
		15,000psi								20,000psi								30,000psi				60,000psi				NPT (National Pipe Thread)															
		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	1/8"	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"			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		
	3/8"					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"							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	25.4	47.5	36	52	25.4	38	25.4	50.5	25.4	50.5	30	57	36	63.5	46	72
20,000 psi	1/4"							16	41.5	20.6	44.5	25.4	50.5	36	57	46	70	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"									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"											25.4	54	36	63.5	46	76	25.4	48	46	76	25.4	50.5	25.4	50.5	36	57	25.4	41.5	25.4	50.5	25.4	50.5	30	57	36	57	46	66.5		
	3/4"													36	63.5	46	76	36	53.5	46	76	36	53.5	36	60	36	70			36	54.5	36	60	36	66.5	36	66.5	46	73		
30,000 psi	1"													46	89			46	91			46	70	46	73	46	82.5			46	67	46	67	46	73	46	76	46	83		
	1/8"															20.6	31			20.6	31	25.4	38	36	44.5	20.6	31	20.6	36	25.4	41	30	45.5								
60,000 psi	1"													46	91			46	68	46	73	46	73	46	78			46	71	46	71	46	76	46	80	46	87				
	1/4"																			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						
	3/8"																					25.4	44.5	36	57	25.4	41.5	25.4	47.5	25.4	47.5	30	54	36	58.5	46	65.5				
	9/16"																							36	57	36	46	36	50.5	36	50.5	36	56.5	36	60	46	68				

As all sizes are for reference, they can be changed without any notification. NPT, PT connections are available on request. Please consult the authorized sales representative.

How to use the table and order

- Choose the male which is suitable for the pressure and tube size. (Vertical lines of the table)
- Choose the male after confirming the pressure to be connected and the tube size. (Horizontal lines of the table)
- Confirm the relevant catalog numbers and sizes.





		FEMALE END																				
		15,000psi				20,000psi				30,000psi		60,000psi			NPT (National Pipe Thread)							
		1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	9/16"	3/4"	1"	1/8"	1"	1/4"	3/8"	9/16"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	
M A L E E N D	15,000 psi	1/8"	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"	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"	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	
		1/2"	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
	20,000 psi	1/4"	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
		3/8"	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
		9/16"	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
		3/4"		A020M12/015F4	A020M12/015F6	A020M12/010F8	A020M12/020F4		A020M12/020F6	A020M12/020F9	A020M12/020F12	A020M12/020F16		A020M12/030F16	A020M12/060F4	A020M12/060F6	A020M12/060F9		A020M12/NPTF4	A020M12/NPTF6	A020M12/NPTF8	A020M12/NPTF12
	1"		A020M16/015F4	A020M16/015F6	A020M16/010F8	A020M16/020F4		A020M16/020F6	A020M16/020F9	A020M16/020F12		A020M16/030F16	A020M16/060F4	A020M16/060F6	A020M16/060F9		A020M16/NPTF4	A020M16/NPTF6	A020M16/NPTF8	A020M16/NPTF12	A020M16/NPTF16	
	30,000 psi	1/8"	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"		A030M16/015F4	A030M16/015F6	A030M16/010F8	A030M16/020F4		A030M16/020F6	A030M16/020F9	A030M16/020F12	A030M16/020F16		A030M16/060F4	A030M16/060F6	A030M16/060F9		A030M16/NPTF4	A030M16/NPTF6	A030M16/NPTF8	A030M16/NPTF12	A030M16/NPTF16
		1/4"	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
3/8"		A060M6/015F2	A060M6/015F4	A060M6/015F6	A060M6/010F8	A060M6/020F4		A060M6/020F6	A060M6/020F9	A060M6/020F12	A060M6/020F16	A060M6/030F2	A060M6/030F16	A060M6/060F4		A060M6/060F9	A060M6/NPTF2	A060M6/NPTF4	A060M6/NPTF6	A060M6/NPTF8	A060M6/NPTF12	
60,000 psi	9/16"	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/NPTF2	A060M9/NPTF4	A060M9/NPTF6	A060M9/NPTF8	A060M9/NPTF12	
	1/8"	ANPTM2/015F2	ANPTM2/015F4	ANPTM2/015F6	ANPTM2/010F8	ANPTM2/020F4		ANPTM2/020F6	ANPTM2/020F9			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/NPTF8		
	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/NPTF8		
NPT	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/NPTF12	
	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"			ANPTM16/015F6	ANPTM16/010F8			ANPTM16/020F6	ANPTM16/020F9	ANPTM16/020F12	ANPTM16/020F16		ANPTM16/030F16		ANPTM16/060F6	ANPTM16/060F9				ANPTM16/NPTF8		

(Unit : mm)

		Dimensions																																									
		15,000psi				20,000psi				30,000psi		60,000psi			NPT (National Pipe Thread)																												
		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	1/8"		16	32	19	38	25.4	38	16	32	20.6	35	25.4	42			20.6	27			20.6	29	25.4	34	36	40	16	28	20.6	34	25.4	38	30	43									
	1/4"	16	29.5			19	41.5	25.4	44.5	16	35	20.6	42.5	25.4	48	36	57.5	20.6	35			20.6	32.5	25.4	39.5	36	45.5	16	33	20.6	37	25.4	43	30	47.5	36	55.5						
	3/8"	19	30	19	35			25.4	45	19	35	20.6	40	25.4	48	36	57.5	46	70	20.6	35	46	70	20.6	35	25.4	42	36	45.5	19	35	20.6	37	25.4	43	30	50	36	57.5	46	70		
	1/2"	25.4	33	25.4	33	25.4	37			25.4	37	25.4	40	25.4	48	36	57.5	46	70	25.4	37	46	70	25.4	35	25.4	42	36	45.5	25.4	35	25.4	37	25.4	43	30	50	36	57.5	46	70		
20,000 psi	1/4"	12.7	34	16	40	19	40	25.4	43			20.6	40	25.4	50	36	57.5	46	70	20.6	37	46	70	20.6	32	25.4	42	36	45.5	16	33	20.6	37	25.4	43	30	50	36	57.5				
	3/8"	16	34	16	40	19	44	25.4	48	16	36		25.4	52	36	57.5	46	72	20.6	37	46	72	20.6	36.5	25.4	42	36	47	16	34	20.6	39.5	25.4	45	30	50	36	57.5	46	70			
	9/16"	24	40	24	44	24	45	25.4	49	22	40	24	46		36	62.5	46	75	24	40	46	75	24	40	25.4	47	36	52	24	40	24	43	25.4	47	30	54	36	62	46	73			
	3/4"		30	46	30	50	30	56	30	48	30	52	30	57		46	80		46	80	30	48	30	52	36	58			30	48	30	52	30	56	36	68	46	78					
1"		36	54	36	54	36	54	36	56	36	59	36	63	36	70		46	81	36	54	36	60	36	64			36	60	36	60	36	60	36	68	46	78							
30,000 psi	1/8"	16	29	16	34	19	37	25.4	40	16	31	20.6	37	25.4	44											20.6	30	25.4	36	36	46	16	29	20.6	36	25.4	39	30	43				
	1"		36	55	36	55	36	55	36	57	36	60	36	64	36	70	46	82								36	55	36	61	36	65		36	61	36	61	36	69	46	79			
60,000 psi	1/4"	16	30	16	35	19	38	25.4	42	16	32	20.6	40	25.4	46	36	55									20.6	32			25.4	48.5	36	49.5	16	30	20.6	36	25.4	42	30	46	36	53
	3/8"	20.6	35.5	20.6	41.5	20.6	42.5	25.4	44.5	20.6	42.5	20.6	43.5	25.4	50.5	36	57.5	46	74.5	20.6	35.5	46	74.5	20.6	44.5			36	50.5	20.6	35.5	20.6	40.5	25.4	45.5	30	52.5	36	58.5	46	65.5		
	9/16"	30	38	30	42.5	30	42.5	30	44.5	30	42.5	30	46	30	51	36	61	46	78	30	38	46	78	30	44	30	50			30	38	30	41	30	49	30	54	36	59	46	70		
NPT	1/8"	12.7	25	16	31	19	36	25.4	38	16	28	20.6	36	25.4	42			20.6	25							20.6	28	25.4	36	36	41												
	1/4"	16	28	16	35	19	38	25.4	41	16	33	20.6	36	25.4	44	36	52	46	68	20.6	30	46	68	20.6	33	25.4	38	36	43							30	47						
	3/8"	19	30	19	35	19	38	25.4	42	19	35	20.6	38	25.4	42	36	5																										

[male → male]

		MALE END																							
		15,000psi				20,000psi				30,000psi		60,000psi			NPT (National Pipe Thread)										
		1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	9/16"	3/4"	1"	1/8"	1"	1/4"	3/8"	9/16"	1/8"	1/4"	3/8"	1/2"	3/4"	1"				
M A L E  E N D	15,000 psi	1/8"	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"		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"			A015M6/015M6	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"			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	1/4"				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"					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"						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"							A020M12/020M12	A020M12/020M16	A020M12/030M2	A020M12/030M16	A020M12/060M4	A020M12/060M6	A020M12/060M9		A020M12/NPTM4	A020M12/NPTM6	A020M12/NPTM8	A020M12/NPTM12	A020M12/NPTM16				
		1"								A020M16/020M16		A020M16/030M16	A020M16/060M4	A020M16/060M6	A020M16/060M9		A020M16/NPTM4	A020M16/NPTM6	A020M16/NPTM8	A020M16/NPTM12	A020M16/NPTM16				
	30,000 psi	1/8"											A030M2/030M2		A030M2/060M4	A030M2/060M6	A030M2/060M9		A030M2/NPTM2	A030M2/NPTM4	A030M2/NPTM6	A030M2/NPTM8			
		1"											A030M16/030M16	A030M16/060M4	A030M16/060M6	A030M16/060M9		A030M16/NPTM4	A030M16/NPTM6	A030M16/NPTM8	A030M16/NPTM12	A030M16/NPTM16			
		1/4"												A060M4/060M4	A060M4/060M6	A060M4/060M9		A060M4/NPTM2	A060M4/NPTM4	A060M4/NPTM6	A060M4/NPTM8	A060M4/NPTM12			
	60,000 psi	3/8"													A060M6/060M6	A060M6/060M9		A060M6/NPTM2	A060M6/NPTM4	A060M6/NPTM6	A060M6/NPTM8	A060M6/NPTM12	A060M6/NPTM16		
		9/16"														A060M9/060M9		A060M9/NPTM2	A060M9/NPTM4	A060M9/NPTM6	A060M9/NPTM8	A060M9/NPTM12	A060M9/NPTM16		
		1/8"																	ANPTM2/NPTM2	ANPTM2/NPTM4	ANPTM2/NPTM6	ANPTM2/NPTM8			
	NPT	1/4"																		ANPTM4/NPTM4	ANPTM4/NPTM6	ANPTM4/NPTM8	ANPTM4/NPTM12		
		3/8"																		ANPTM6/NPTM6	ANPTM6/NPTM8	ANPTM6/NPTM12	ANPTM6/NPTM16		
		1/2"																		ANPTM8/NPTM8	ANPTM8/NPTM12	ANPTM8/NPTM16	ANPTM8/NPTM16		
		3/4"																			ANPTM12/NPTM12	ANPTM12/NPTM16	ANPTM12/NPTM16		
		1"																				ANPTM16/NPTM16	ANPTM16/NPTM16		

(Unit : mm)

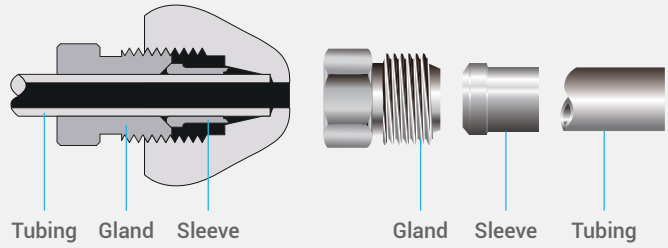
		Dimensions																																									
		15,000psi								20,000psi								30,000psi				60,000psi				NPT (National Pipe Thread)																	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B										
15,000 psi	1/8"	12.7	35	16	41	19	46.5	25.4	49.5	12.7	39.5	16	43.5	24	49.5					16	36.5			16	41	20.6	50	30	54.5	12.7	34.5	16	41.5	19	44.5	25.4	49.5						
	1/4"			16	47	19	51.5	25.4	54.5	16	44.5	16	48.5	24	56.5	30	65			16	41.5			16	46	20.6	55	30	59.5	16	39.5	16	44.5	19	47.5	25.4	54.5	30	57.5				
	3/8"					19	54	25.4	57	19	47	19	51	24	59	30	67.5	36	77.5	19	44	36	78.5	19	48.5	20.6	57.5	30	62	19	42	19	47	19	50	25.4	57	30	60	36	60		
	1/2"							25.4	57.5	25.4	54	25.4	58	25.4	62	30	70	36	80	25.4	51	36	81	25.4	51.5	25.4	60	30	64.5	25.4	44.5	25.4	47.5	25.4	50.5	25.4	57.5	30	60.5	36	66.5		
20,000 psi	1/4"									12.7	44	16	48	24	56	30	64.5	36	78.5	16	41			16	45.5	20.6	54.5	30	61	12.7	41	16	44	19	46	25.4	54	30	59				
	3/8"											16	54	24	60	30	70	36	84.5	16	45	36	85.5	16	49.5	20.6	58.5	30	65	16	45	16	49	19	50	25.4	58	30	63	36	69		
	9/16"													24	64	30	76	36	91	24	53	36	92	24	56	24	62.5	30	69	24	50.5	24	55	24	54	25.4	62	30	67	36	73		
	3/4"															30	82	36	97	30	65	36	98	30	62	30	70.5	30	75			30	63	30	64	30	68	30	73	36	79		
	1"																36	107					36	108	36	76.5	36	82.5	36	88			36	80	36	81	36	84	36	85	36	89	
30,000 psi	1/8"																			16	38			16	42.5	20.6	51.5	30	58	16	36	16	41	19	46	25.4	51						
	1"																						36	109	36	81.5	36	87.5	36	91			36	79	36	80	36	83	36	84	36	88	
60,000 psi	1/4"																							16	43	20.6	52	30	58.5	16	41.5	16	44.5	19	46.5	25.4	51.5	30	56.5				
	3/8"																									20.6	58	30	64.5	20.6	47.5	20.6	50.5	20.6	52.5	25.4	57.5	30	62.5	36	68.5		
	9/16"																										30	68	30	53	30	56	30	57	30	61	30	66	36	72			
NPT	1/8"																																										
	1/4"																																										
	3/8"																																										
	1/2"																																										
	3/4"																																										
1"																																											

As all sizes are for reference, they can be changed without any notification.

# Port Type Low Pressure Port Type

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

Sleeve Type can be used in 1/8", 1/4", 3/8", 1/2" piping by fastening sleeve in gland. Tube required for connection between products can be ordered from Hiflux. Stainless steel material ensures optimum performance in high pressure environment.

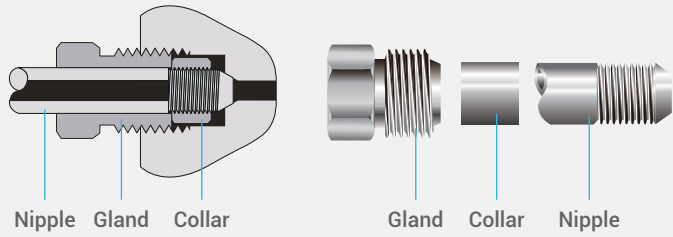


<b>H1008</b> 10,000psi - 1/2"	<b>H1506</b> 15,000psi - 3/8"	<b>H1504</b> 15,000psi - 1/4"	<b>H1502</b> 15,000psi - 1/8"

# Port Type Medium Pressure Port Type

## Medium Pressure Connections - 20,000 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.

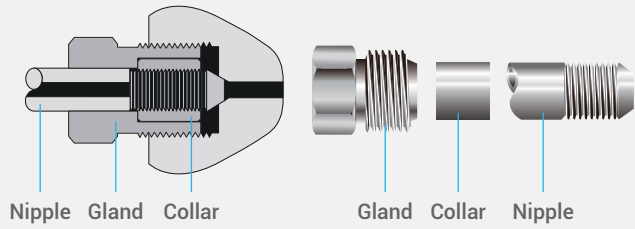


H2004 20,000psi - 1/4"	H2006 20,000psi - 3/8"	H2009 20,000psi - 9/16"	H2012 20,000psi - 3/4"	H2016 20,000psi - 1"

# 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.

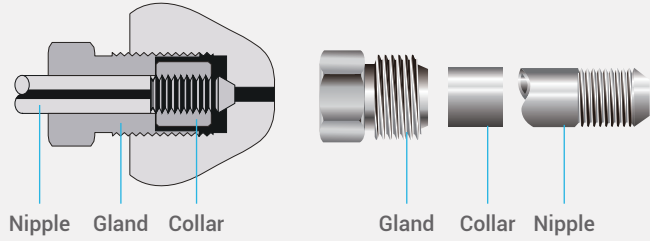


H3002 30,000psi - 1/8"	H3016 30,000psi - 1"	H6004 60,000psi - 1/4" (M : Metric)	H6006 60,000psi - 3/8" (M : Metric)	H6009 60,000psi - 9/16" (M : Metric)

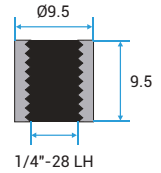
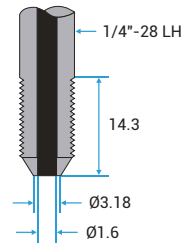
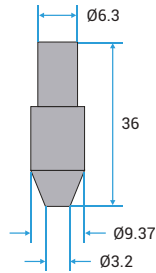
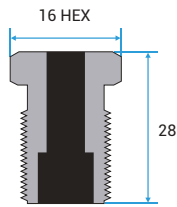
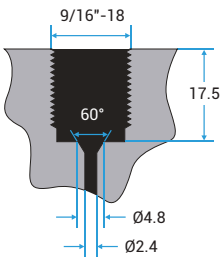
# Port Type Ultra High Pressure Port Type

## Ultra High Pressure Connections - 100,000 psi

The product is tightened with collar and nipple in Gland. The applicable pipe size is as follows. 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.



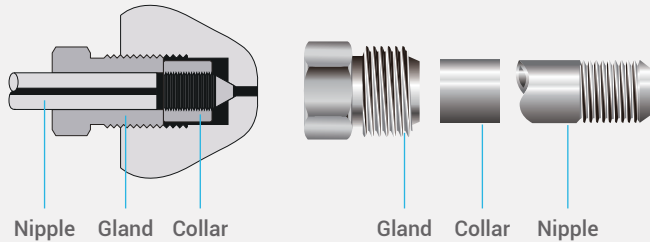
### H10004 100,000psi - 1/4"



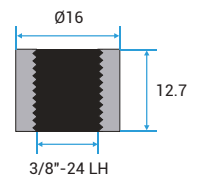
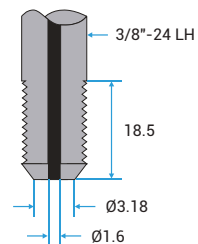
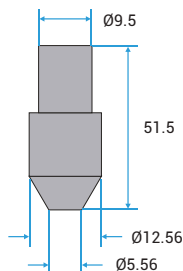
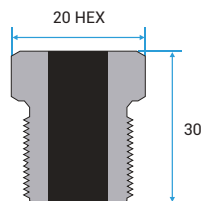
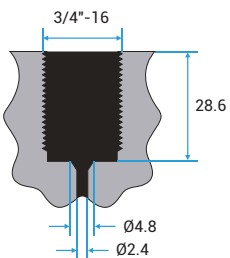
# Port Type Ultra High Pressure Port Type

## Ultra High Pressure Connections - 150,000 psi

The product is tightened with collar and nipple in Gland. The applicable pipe size is as follows. 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.



### H15006 150,000psi - 3/8"

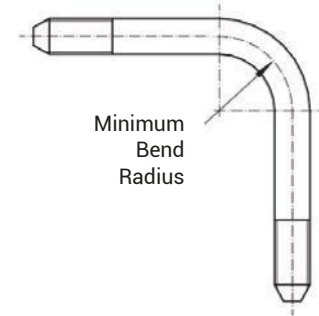


# Technical Information Recommended Torque

## [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)

As all sizes are for reference, they can be changed without any notification.



## HIFLUX - Recommended Torque (Valves Minimum Packing Stem Gland Torque)

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 (10,000)	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
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	-

All dimensions and values are for reference only and subject to change.

**HiFLUX<sup>®</sup>**

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