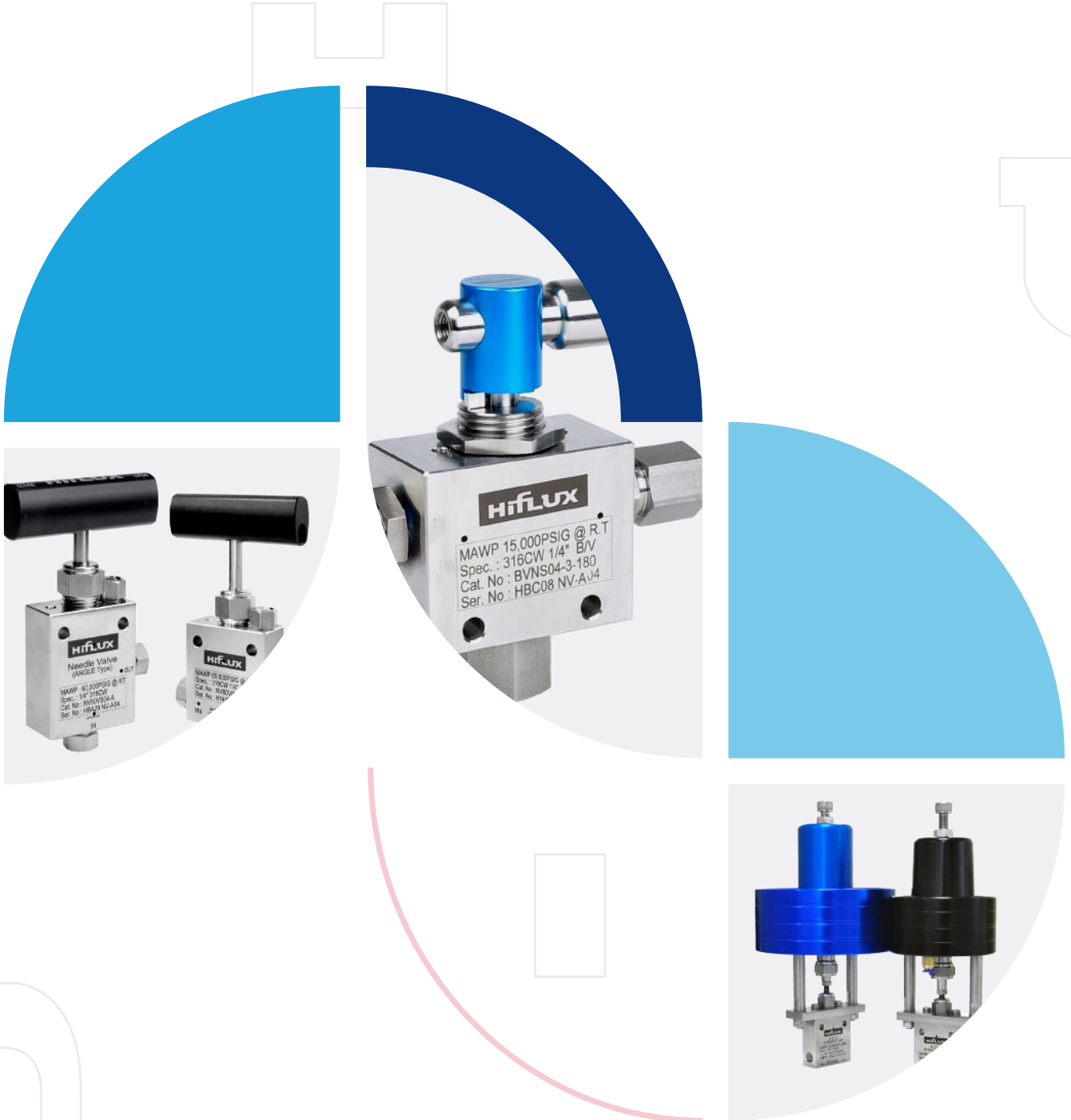


HIFLUX

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



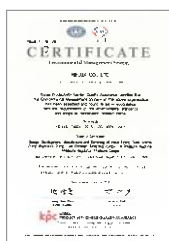
Certificate of patent
10-2225407



Certificate of patent
10-1151733



ISO 9000



ISO 14001



European Integrated
Standard Certification (CE)



Research laboratory
certification



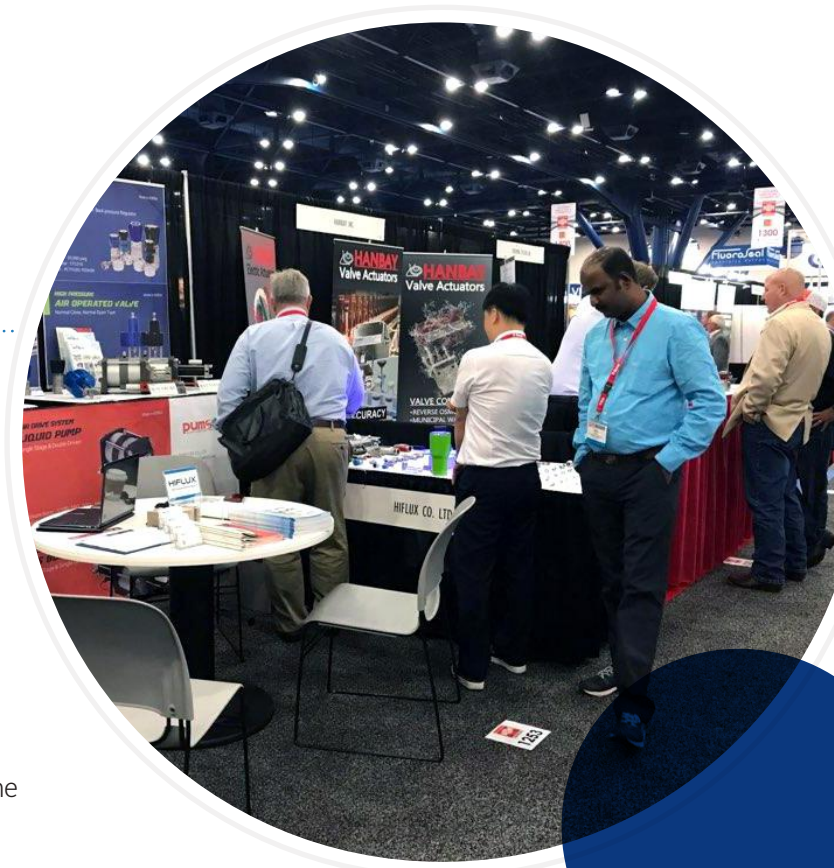
Venture company
confirmation



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	Needle Valve V : Vee Stem R : Regulating Stem Check Valve O : O-Ring Type B : Ball Type Ball Valve 03 : Orifice 4.8mm 05 : Orifice 8mm Control Valve Air Operated Valve O : Normal-Open Type C : Normal-Closed Type Relief Valve FS : Factory Set FA : Field Adjustable PP : Proportional Type Fitting E : Elbow Type T : Tee Type C : Cross Type Fitting Accessory 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	Needle Valve Control Valve Air Operated Valve S : Straight Type A : Angle Type O : 3way/1on pressure Type T : 3way/2on pressure Type Ball Valve 2-90 : 2WAY 3-180 : 3WAY Switching Type 3-90 : 3WAY Diverting Type Fitting Accessory AV : Anti-Vibration Type GPR 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.

18. High Pressure Tube



Using stainless steel 316 cold material for excellent corrosion resistant



Features

- Tube is sold in a 6000mm (6M) unit.
- Using stainless steel 316 cold material for excellent corrosion resistant.
- The operation temperature ranges from -423°F(-252°C) to 1200°F(649°C).
- If you want a water pressure test conducted, we can conduct the test based on a rule under pressure to be used.
- Suitable for chemical, oil refining, research, oil and gas companies, this product is used for various pressures.
- Our products generally are produced with Stainless steel materials, but they can be manufactured with other materials on demand so that various and gases can be used.

(Unit : mm)

Catalog No.	Pressure Rating	Port Type	Tube Size	Dimensions		Thickness	Flow Area(mm ²)	Working pressure psi (bar)				
				Outside Diameter	Inside Diameter			-17.8~37.8°C 0~100°F	93°C 200°F	204°C 400°F	316°C 600°F	343°C 650°F
T15S02	15,000 psi	H1502	1/8"	3.18	1.32	0.91	1.29	1034.20	1034.20	992.83	937.67	868.73
T11S02	11,000 psi	H1502			1.57	0.81	1.94	803.23	751.85	692.91	682.57	679.12
T15S04	15,000 psi	H1504	1/4"	6.35	2.13	2.11	18.71	1034.16	1034.16	992.83	937.67	868.73
T11S04	11,500 psi	H1504			3.18	1.57	7.74	803.23	761.86	775.65	730.83	679.12
T15S06	15,000 psi	H1506	3/8"	9.53	3.53	3.00	47.10	1034.16	1034.16	992.83	937.67	868.73
T07S06	7,500 psi	H1506			6.35	1.57	31.61	517.10	489.52	444.70	437.81	417.13
T10S08	10,000 psi	H1008	1/2"	12.7	6.86	3.00	35.48	689.46	689.46	665.33	620.52	579.15
T05S08	5,500 psi	H1008			9.53	1.57	70.97	379.21	379.21	361.97	341.29	317.15
								-198~37.8°C -325~100°F	93°C 200°F	204°C 400°F	316°C 600°F	427°C 800°F
T20S04	20,000 psi	H2004	1/4"	6.35	2.77	1.78	5.81	1378.93	1378.93	1327.22	1244.48	1158.30
T20S06		H2006	3/8"	9.53	5.16	2.18	20.65	1378.93	1378.93	1327.22	1244.48	1158.30
T20S09		H2009	9/16"	14.29	7.92	3.18	49.03	1378.93	1378.93	1327.22	1244.48	1158.30
T20S12		H2012	3/4"	19.05	11.13	3.96	97.42	1378.93	1378.93	1327.22	1244.48	1158.30
T20S16		H2016	1"	25.4	14.27	5.56	160.0	1378.93	1378.93	1327.22	1244.48	1158.30
T30S02	30,000 psi	H3002	1/8"	3.18	1.02	1.08						
T30S16		H3016	1"	25.4	11.1	7.15						
T60S04	60,000 psi	H6004	1/4"	6.35	2.11	2.11	3.23	4136.79	4136.79	3981.66	3740.35	3495.59
T60S06		H6006	3/8"	9.53	3.18	3.18	7.74	4136.79	4136.79	3981.66	3740.35	3495.59
T60S09		H6009	9/16"	14.29	4.78	4.75	18.06	4136.79	4136.79	3981.66	3740.35	3495.59
T100S04	100,000 psi	H10004	1/4"	6.35	1.59	2.38	3.23	6894.64	6864.64	6633.24	6230.55	5820.46
T150S06	150,000 psi	H15006	3/8"	9.53	1.59	3.97	7.74	10341.97	10341.97	9955.87	9400.85	8738.97

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

19. High Pressure Nipple



For easy system setup, Cone and thread nipple

Features

- For easy system setup, cone and thread nipple of assorted tube size.
- Using stainless steel 316 cold material for excellent corrosion resistant.
- The operation temperature ranges from -423°F(-252°C) to 1200°F(649°C).
- Can be ordered one side and both sides types & Please let us know the length you need.
- Our products generally are produced with Stainless steel materials, but they can be manufactured with other materials on demand so that various and gases can be used.



(Unit : mm)

Catalog No.	Pressure Rating	Port Type	Tube Size	Dimensions		Thickness	Minimum Length	Flow Area(mm ²)	Working pressure psi (bar)				
				Outside Diameter	Inside Diameter				-198~37.8°C -325~100°F	93°C 200°F	204°C 400°F	316°C 600°F	427°C 800°F
N20S04	20,000 psi	H2004	1/4"	6.35	2.77	1.78	70	5.81	1378.93	1378.93	1327.22	1244.48	1158.30
N20S06		H2006	3/8"	9.53	5.16	2.18	88	20.65	1378.93	1378.93	1327.22	1244.48	1158.30
N20S09		H2009	9/16"	14.29	7.92	3.18	110	49.03	1378.93	1378.93	1327.22	1244.48	1158.30
N20S12		H2012	3/4"	19.05	11.13	3.96	118	97.42	1378.93	1378.93	1327.22	1244.48	1158.30
N20S16		H2016	1"	25.4	14.27	5.56	168	160.0	1378.93	1378.93	1327.22	1244.48	1158.30
N30S02	30,000 psi	H3002	1/8"	3.18	1.02	1.08	43						
N30S16		H3016	1"	25.4	11.1	7.15	168						
N60S04	60,000 psi	H6004	1/4"	6.35	2.11	2.11	74	3.23	4136.79	4136.79	3981.66	3740.35	3495.59
N60S06		H6006	3/8"	9.53	3.18	3.18	104	7.74	4136.79	4136.79	3981.66	3740.35	3495.59
N60S09		H6009	9/16"	14.29	4.78	4.75	135	18.06	4136.79	4136.79	3981.66	3740.35	3495.59
N100S04	100,000 psi	H10004	1/4"	6.35	1.59	2.38	103	3.23	6894.64	6864.64	6633.24	6230.55	5820.46
N150S06	150,000 psi	H15006	3/8"	9.53	1.59	3.97	135	7.74	10341.97	10341.97	9955.87	9400.85	8738.97

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

One Side Type



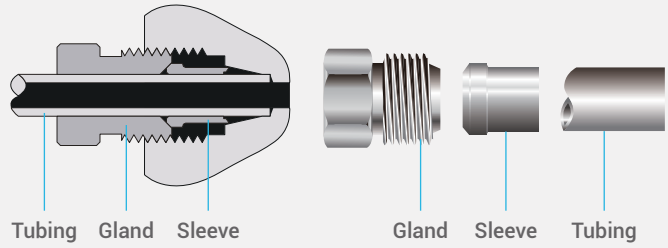
Both Side Type



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.

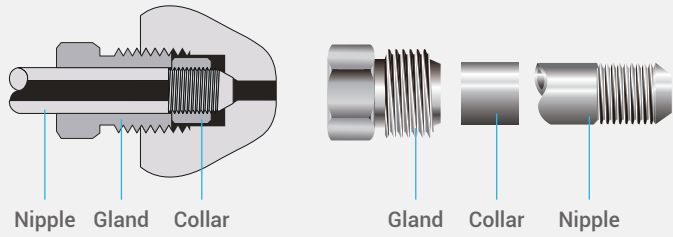


H1008 10,000psi - 1/2"	H1506 15,000psi - 3/8"	H1504 15,000psi - 1/4"	H1502 15,000psi - 1/8"

Port Type Medium Pressure Port Type

Medium Pressure Connections - 20,000 psi

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.

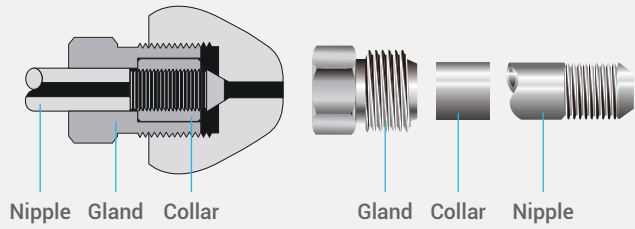


H2004 20,000psi - 1/4"	H2006 20,000psi - 3/8"	H2009 20,000psi - 9/16"	H2012 20,000psi - 3/4"	H2016 20,000psi - 1"

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.

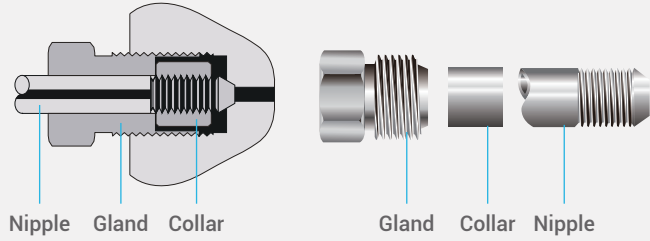


H3002 30,000psi - 1/8"	H3016 30,000psi - 1"	H6004 60,000psi - 1/4" (M : Metric)	H6006 60,000psi - 3/8" (M : Metric)	H6009 60,000psi - 9/16" (M : Metric)

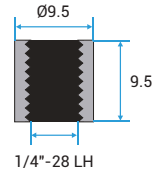
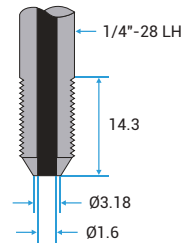
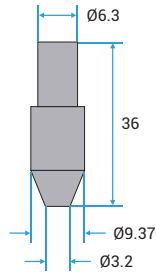
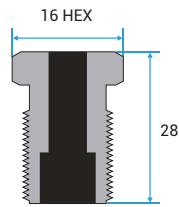
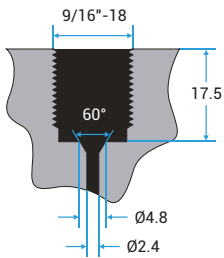
Port Type Ultra High Pressure Port Type

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.



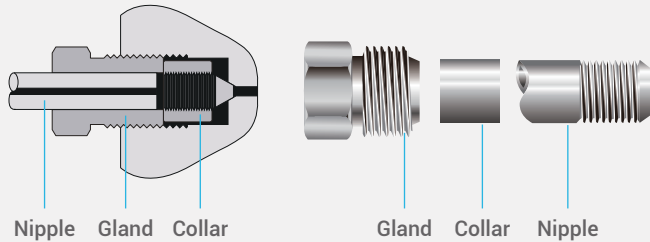
H10004 100,000psi - 1/4"



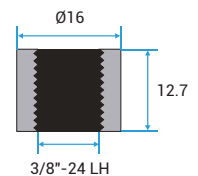
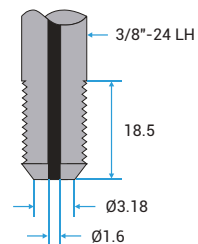
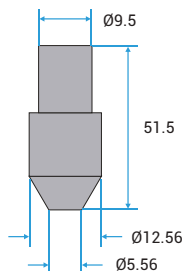
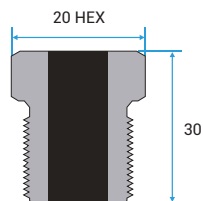
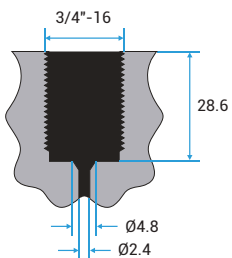
Port Type Ultra High Pressure Port Type

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.



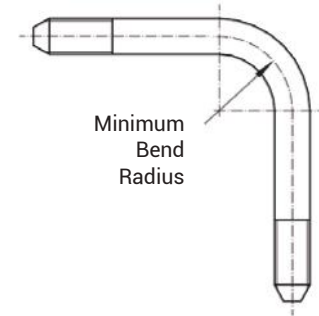
H15006 150,000psi - 3/8"



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[®]

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