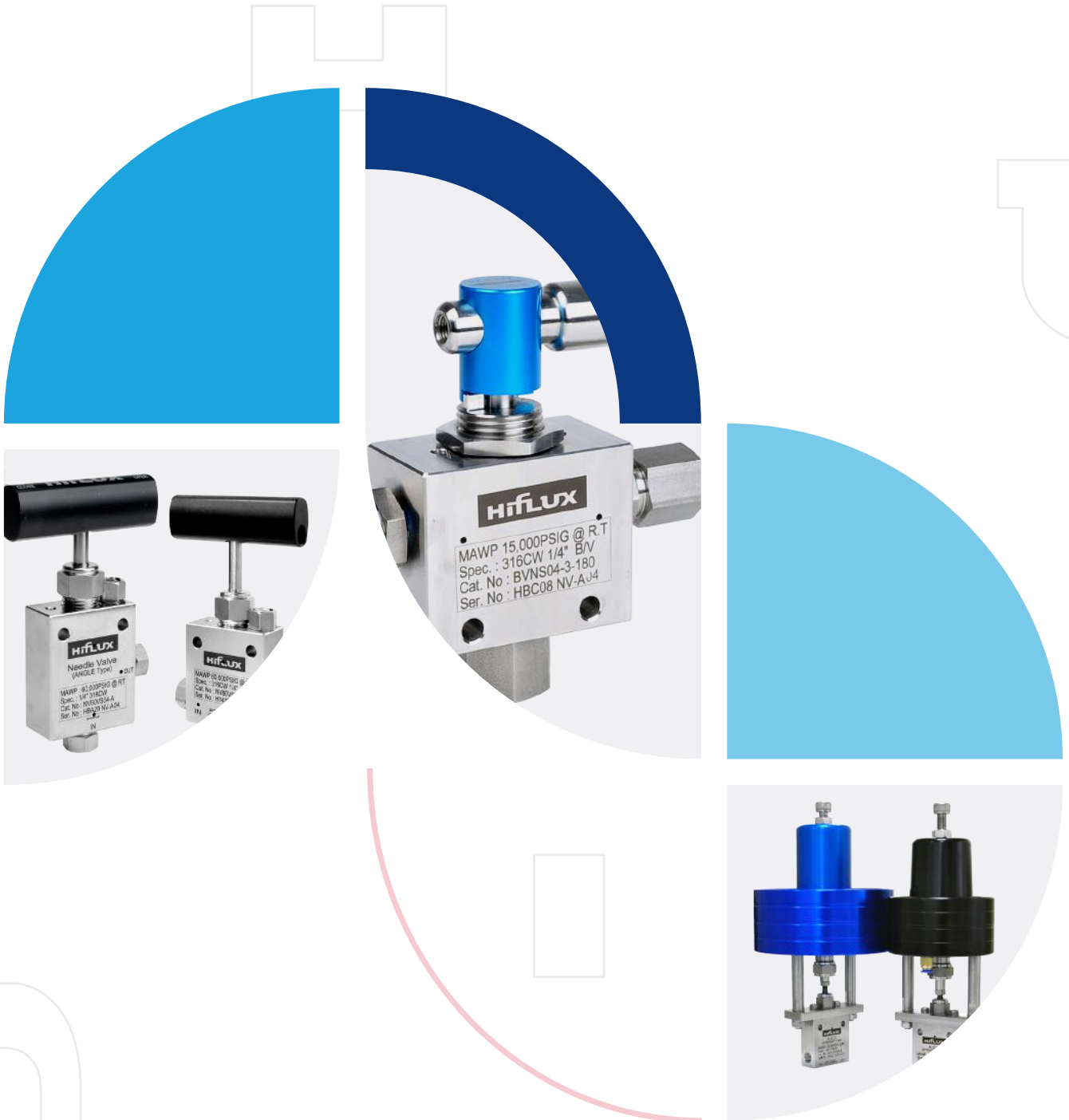


HIFLUX

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.



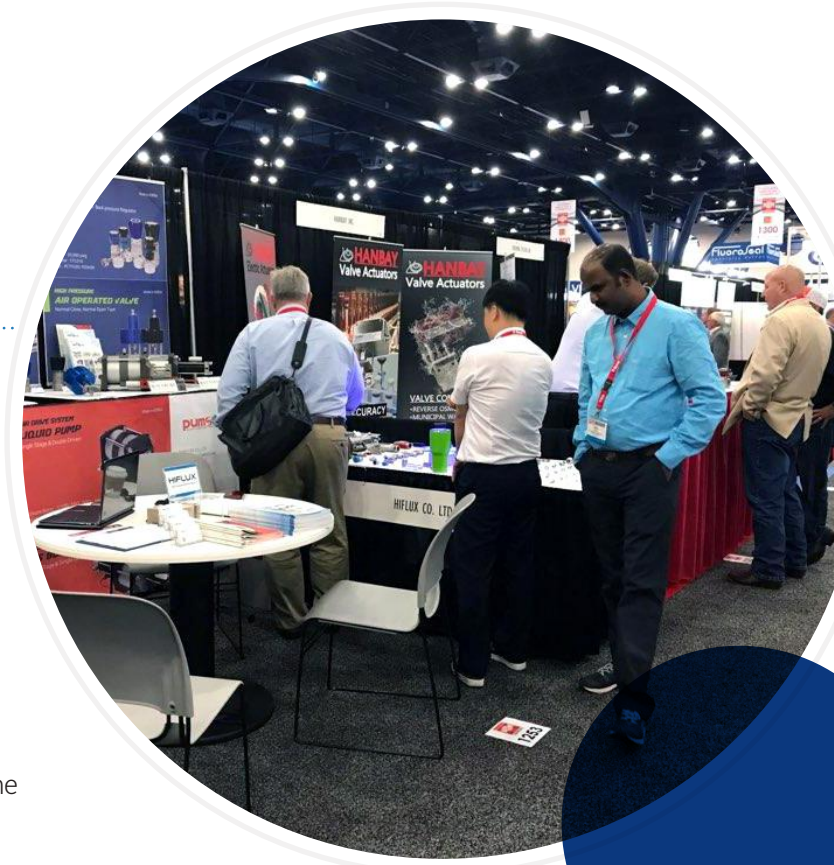
DEVELOP VARIOUS HIGH PRESSURE VALVES EXPAND OVERSEAS MARKET

- 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	03 : 3,000psi	Needle Valve V : Vee Stem R : Regulating Stem	S : Stainless steel 316	02 : 1/8"	Needle Valve Control Valve Air Operated Valve
CV : Check Valve	07 : 7,500psi	Check Valve O : O-Ring Type B : Ball Type	H : Hastelloy	04 : 1/4"	S : Straight Type A : Angle Type O : 3way/1on pressure Type T : 3way/2on pressure Type
BV : Ball Valve	15 : Sleeve Type Refer to Valve Select	Ball Valve 03 : Orifice 4.8mm 05 : Orifice 8mm	HC : Hastelloy C276 wetted part	06 : 3/8"	
AOV : Air Operated Valve	20 : 20,000psi	Control Valve Air Operated Valve O : Normal-Open Type C : Normal-Closed Type	IN : Inconel 600	08 : 1/2"	Ball Valve 2-90 : 2WAY 3-180 : 3WAY Switching Type 3-90 : 3WAY Diverting Type
CON : Control Valve	30 : 30,000psi	Relief Valve FS : Factory Set FA : Field Adjustable PP : Proportional Type	IN625 : Inconel 625	09 : 9/16"	Fitting Accessory AV : Anti-Vibration Type
GV : Wellhead Gauge Valve	60 : 60,000psi	Fitting E : Elbow Type T : Tee Type C : Cross Type	IN825 : Inconel 825	12 : 3/4"	
BLV : Bleed Valve	100 : 100,000psi		NI : Nickel 200	16 : 1"	GPR N : Normal Type P : Panel Type
DBBV : Double Block & Bleed Valve	150 : 150,000psi		TI : Titanium	15 : 15A 25 : 25A	
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					

※ 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.

06. High Pressure Ball Valve



Manual valve which is used to open or close the flow of fluids by the turning 1/4"(90°) or 1/2"(180°) with valve handle

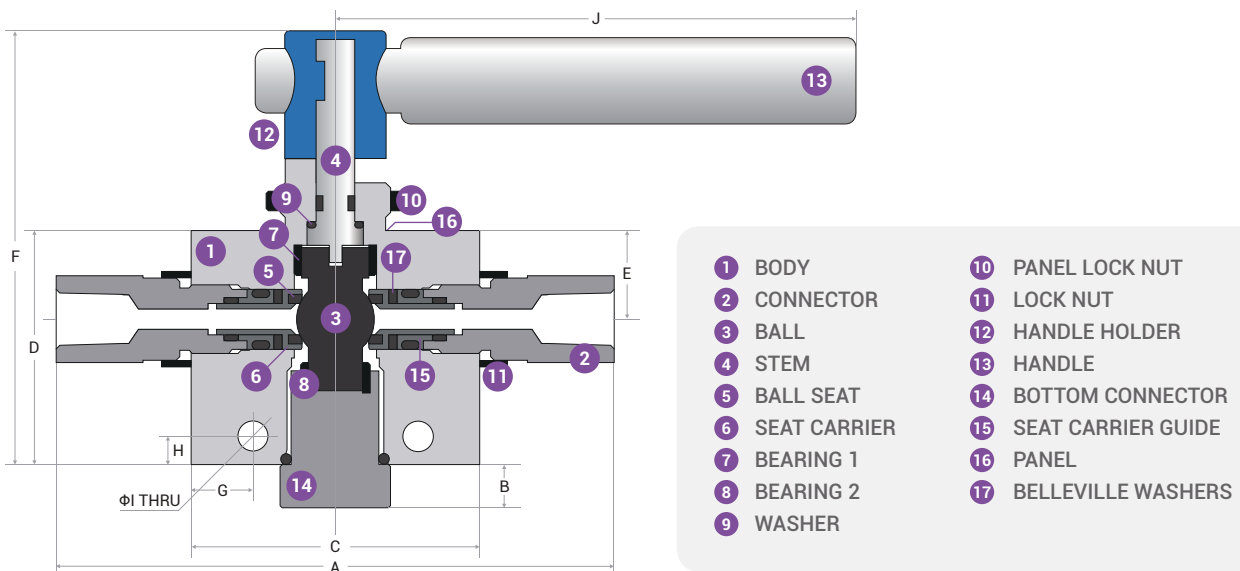


Ball valve is a manual valve which is used to open or close the flow of fluids by the turning 1/4" (90°) or 1/2" (180°) with valve handle. HIFLUX Ball valve is using trunnion-type ball with seat and possible to use in the low pressure and high pressure environment without leakage. Peek which is good for abrasion resistance, rub resistance and chemical resistance is used for seat.

I Features

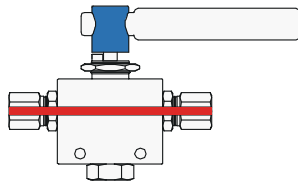
- Trunnion Style BALL.
- Turn 1/4"(90°) or 1/2"(180°).
- Max Working Pressure : 20,000psi
- O-ring Material : Viton
- Standard Material : SUS316
- Advance of abrasion resistance, rub resistance and chemical resistance with PEEK for seat.

I Exploded View & Dimensions

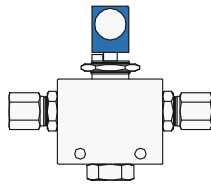


[2way Type]

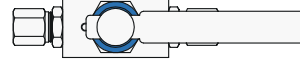
90° 2-Way Trunnion



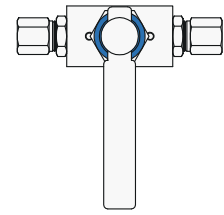
Open



Closed



Open



Closed

(Unit : mm)

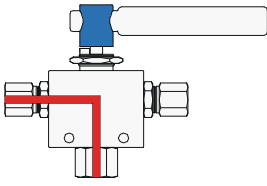
Catalog No.	Pressure Rating (psi)	Orifice Size	Port Type	Tube Size	Minimum Orifice	Dimensions											Panel			
						A	B	C	D	E	F	G	H	I	J	Block Thickness	Diameter	Max Thickness		
BV1503S02-2-90	15,000	4.8	H1502	1/8"	1.4	128														
BV1503S04-2-90			H1504	1/4"	3.2	128														
BV1503S06-2-90			H1506	3/8"	4.8	128														
BV2003S04-2-90	20,000		H2004	1/4"	2.8	128														
BV2003S06-2-90			H2006	3/8"	4.8	128														
BV2003S09-2-90			H2009	9/16"	4.8	138														
BV6003S04-2-90			H6004	1/4"	2.4	128	10	66.5	54	20.5	100	14.2	6.5	7	120	38	25.4	6.4		
BV6003S06-2-90			H6006	3/8"	3.2	128														
BV6003S09-2-90			H6009	9/16"	4.8	138														
BVN03S02-2-90	15,000		1/8" NPT	1/8"	2.4	128														
BVN03S04-2-90			1/4" NPT	1/4"	4.8	128														
BVN03S06-2-90			3/8" NPT	3/8"	4.8	128														
BVP03S02-2-90			1/8" PT	1/8"	2.4	128														
BVP03S04-2-90			1/4" PT	1/4"	4.8	128														
BVP03S06-2-90			3/8" PT	3/8"	4.8	128														
BV1505S02-2-90	15,000	8	H1502	1/8"	1.4	147														
BV1505S04-2-90			H1504	1/4"	3.2	147														
BV1505S06-2-90			H1506	3/8"	5	147														
BV1005S08-2-90	10,000		H1008	1/2"	7.9	147														
BV2005S04-2-90	20,000		H2004	1/4"	2.8	147														
BV2005S06-2-90			H2006	3/8"	5.2	147														
BV2005S09-2-90			H2009	9/16"	7.9	147														
BV2005S12-2-90			H2012	3/4"	7.9	163														
BV6005S04-2-90			H6004	1/4"	2.4	147	15	85	65	30	110	17.1	10.3	7	120	35	32	6.4		
BV6005S06-2-90			H6006	3/8"	3.2	147														
BV6005S09-2-90	H6009		9/16"	4.8	154															
BVN05S02-2-90	15,000		1/8" NPT	1/8"	2.4	147														
BVN05S04-2-90			1/4" NPT	1/4"	4.8	147														
BVN05S06-2-90			3/8" NPT	3/8"	7.1	147														
BVN05S08-2-90			1/2" NPT	1/2"	7.9	147														
BVP05S02-2-90		1/8" PT	1/8"	2.4	147															
BVP05S04-2-90		1/4" PT	1/4"	4.8	147															
BVP05S06-2-90		3/8" PT	3/8"	7.1	147															
BVP05S08-2-90		1/2" PT	1/2"	7.9	147															

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

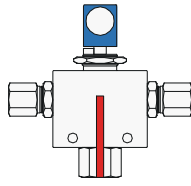
[3way Type]

180° 3-Way Switching

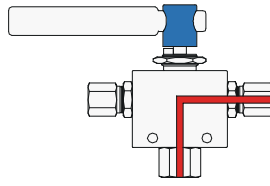
90° 3-Way Diverter



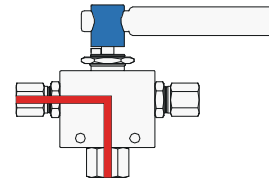
Open



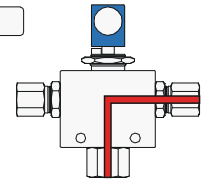
Closed



Open



Open



Closed

(Unit : mm)

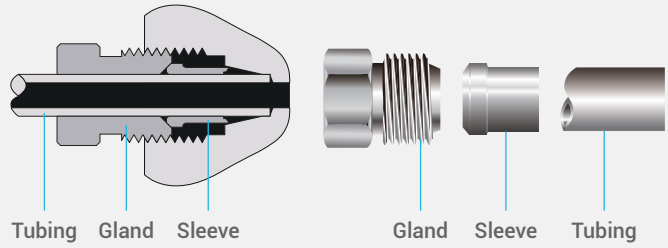
Catalog No.		Pressure Rating (psi)	Orifice Size	Port Type	Tube Size	Minimum Orifice	Dimensions											Panel		
3-way 180° Switching Type	3-way 90° Diverting						A	B	C	D	E	F	G	H	I	J	Block Thickness	Diameter	Max Thickness	
BV1503S02-3-180	BV1503S02-3-90	15,000	4.8	H1502	1/8"	1.4	128	13												
BV1503S04-3-180	BV1503S04-3-90			H1504	1/4"	3.2	128	17												
BV1503S06-3-180	BV1503S06-3-90			H1506	3/8"	4.8	128	21												
BV2003S04-3-180	BV2003S04-3-90	20,000	4.8	H2004	1/4"	2.8	128	17												
BV2003S06-3-180	BV2003S06-3-90			H2006	3/8"	4.8	128	21												
BV2003S09-3-180	BV2003S09-3-90			H2009	9/16"	4.8	138	25												
BV6003S04-3-180	BV6003S04-3-90			H6004	1/4"	2.4	128	17												
BV6003S06-3-180	BV6003S06-3-90			H6006	3/8"	3.2	128	21	66.5	54	20.5	100	14.2	6.5	7	120	38	25.4	6.4	
BV6003S09-3-180	BV6003S09-3-90			H6009	9/16"	4.8	138	25												
BVN03S02-3-180	BVN03S02-3-90	15,000	4.8	1/8" NPT	1/8"	2.4	128	13												
BVN03S04-3-180	BVN03S04-3-90			1/4" NPT	1/4"	4.8	128	21												
BVN03S06-3-180	BVN03S06-3-90			3/8" NPT	3/8"	4.8	128	21												
BVP03S02-3-180	BVP03S02-3-90			1/8" PT	1/8"	2.4	128	13												
BVP03S04-3-180	BVP03S04-3-90			1/4" PT	1/4"	4.8	128	21												
BVP03S06-3-180	BVP03S06-3-90			3/8" PT	3/8"	4.8	128	21												
BV1505S02-3-180	BV1505S02-3-90	15,000	8	H1502	1/8"	1.4	147	23												
BV1505S04-3-180	BV1505S04-3-90			H1504	1/4"	3.2	147	23												
BV1505S06-3-180	BV1505S06-3-90			H1506	3/8"	5	147	23												
BV1005S08-3-180	BV1005S08-3-90	10,000	8	H1008	1/2"	7.9	147	23												
BV2005S04-3-180	BV2005S04-3-90	20,000		H2004	1/4"	2.8	147	23												
BV2005S06-3-180	BV2005S06-3-90			H2006	3/8"	5.2	147	23												
BV2005S09-3-180	BV2005S09-3-90			H2009	9/16"	7.9	147	23												
BV2005S12-3-180	BV2005S12-3-90			H2012	3/4"	7.9	163	28												
BV6005S04-3-180	BV6005S04-3-90			H6004	1/4"	2.4	147	23												
BV6005S06-3-180	BV6005S06-3-90		H6006	3/8"	3.2	147	23	85	65	30	110	17.1	10.3	7	120	35	32	6.4		
BV6005S09-3-180	BV6005S09-3-90	H6009	9/16"	4.8	154	23.5														
BVN05S02-3-180	BVN05S02-3-90	15,000	8	1/8" NPT	1/8"	2.4	147	23												
BVN05S04-3-180	BVN05S04-3-90			1/4" NPT	1/4"	4.8	147	23												
BVN05S06-3-180	BVN05S06-3-90			3/8" NPT	3/8"	7.1	147	23												
BVN05S08-3-180	BVN05S08-3-90			1/2" NPT	1/2"	7.9	147	23												
BVP05S02-3-180	BVP05S02-3-90			1/8" PT	1/8"	2.4	147	23												
BVP05S04-3-180	BVP05S04-3-90			1/4" PT	1/4"	4.8	147	23												
BVP05S06-3-180	BVP05S06-3-90			3/8" PT	3/8"	7.1	147	23												
BVP05S08-3-180	BVP05S08-3-90			1/2" PT	1/2"	7.9	147	23												

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.

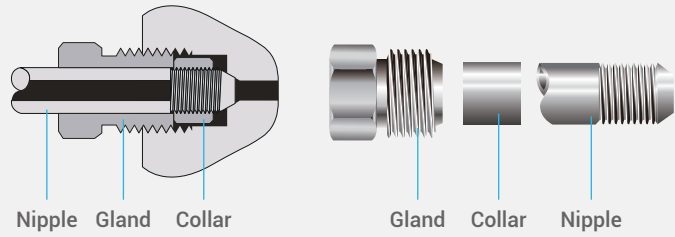


H1008 10,000psi - 1/2"	H1506 15,000psi - 3/8"	H1504 15,000psi - 1/4"	H1502 15,000psi - 1/8"

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.

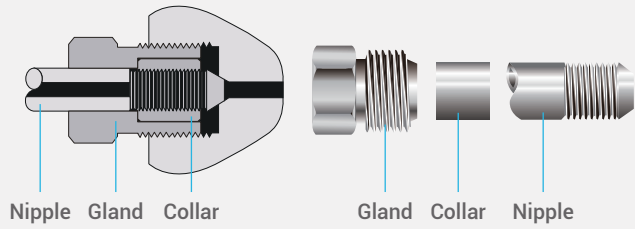


H2004 20,000psi - 1/4"	H2006 20,000psi - 3/8"	H2009 20,000psi - 9/16"	H2012 20,000psi - 3/4"	H2016 20,000psi - 1"

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.

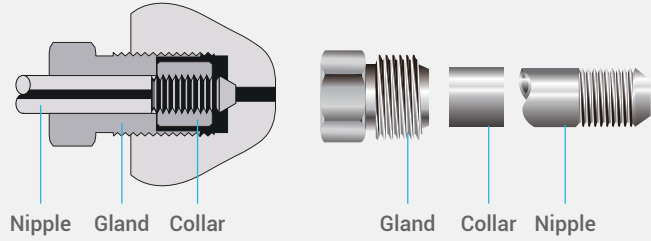


H3002 30,000psi - 1/8"	H3016 30,000psi - 1"	H6004 60,000psi - 1/4" (M : Metric)	H6006 60,000psi - 3/8" (M : Metric)	H6009 60,000psi - 9/16" (M : Metric)

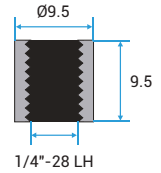
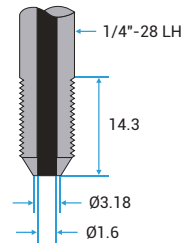
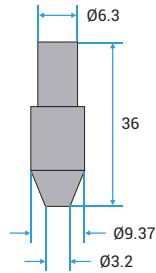
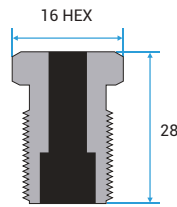
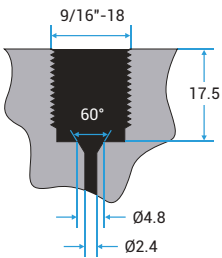
Port Type Ultra High Pressure Port Type

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.



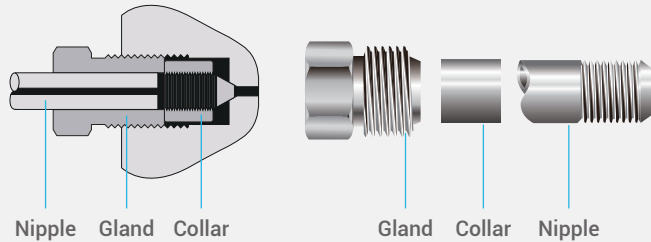
H10004 100,000psi - 1/4"



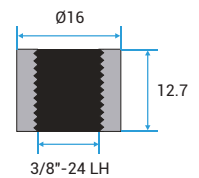
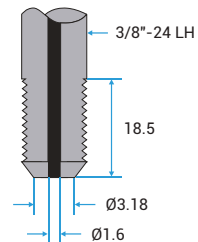
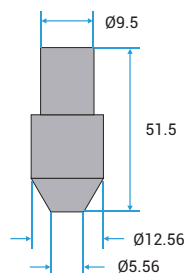
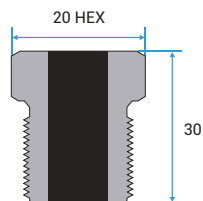
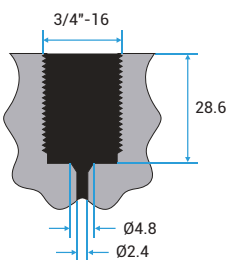
Port Type Ultra High Pressure Port Type

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.



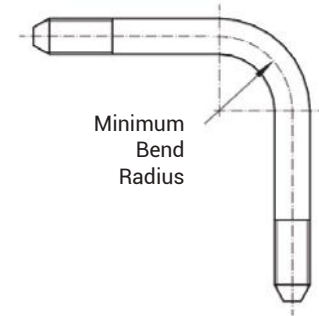
H15006 150,000psi - 3/8"



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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