

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.





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



ISO 9000



Certificate of patent 10-2103737



ISO 14001



Certificate of patent 10-2080599



Standard Certification (CE)



Certificate of patent 10-2080603



Research laboratory



Certificate of patent 10-2225407



confirmation



Certificate of patent 10-1151733



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	А
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	Needle Valve V: Vee Stem R: Regulating Stem Check Valve O: O-Ring Type B: Ball Type Ball Valve O3: Orifice 4.8mm O5: 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 IN825: Inconel 825 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

Example

- NV60VS06-A: Needle Valve, 60,000psi, Vee Stem, 3/8", Angle Type.
- NV15VS04-0 : 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.

03. High Pressure Check Valve & Line Filter

Gas or liquid prevents flowing backward



Check valve, a valve to prevent the reverse flow of liquid (gas), is designed to block the flow in one direction and to promote the flow in the opposite direction. A ball or o-ring is used for the sealing purposes to prevent the reverse flow for certain. Both gas and liquid can be used.

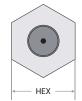
I Features

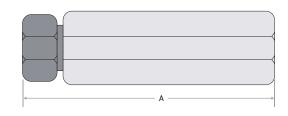
- 2 patterns sealing types. (O-Ring Type, Ball Type)
- 2~90µm's 2 patterns sealing types filter element. (Cup Type)
- O-Ring for easy replacement and ball replacement type check valve.
- Excellent corrosion resistant.
- A valve using stainless steel 316 cold material for preventing reverse flow.
- A valve that facilitates one-directional movement by blocking the reverse flow of gas or liquid.
- Cone and thread connection to prevent gas or liquid leaking.

		Check	: Valve	Line Filter	
_	Tube	Sealing Type		Element Type	
Pressure	Size	O-Ring	Ball	Сир	
	1/8"	CV150S02	CV15BS02	FL15CS02	
15,000 psi	1/4"	CV150S04	CV15BS04	FL15CS04	
	3/8"	CV150S06	CV15BS06	FL15CS06	
10,000 psi	1/2"	CV100S08	CV10BS08	FL10CS08	
	1/4"	CV200S04	CV20BS04	FL20CS04	
20,000 psi	3/8"	CV200S06	CV20BS06	FL20CS06	
	9/16"	CV200S09	CV20BS09	FL20CS09	
	3/4"	CV200S12	CV20BS12	FL20CS12	
	1"	CV200S16	CV20BS16	FL20CS16	
30,000 psi	1/8"	CV300S02	CV30BS02	FL30CS02	
	1"	CV300S16	CV30BS16	FL30CS16	
60,000 psi	1/4"	CV600S04	CV60BS04	FL60CS04	
	3/8"	CV600S06	CV60BS06	FL60CS06	
	9/16"	CV600S09	CV60BS09	FL60CS09	

[O-Ring Type]









(Unit:mm)

Catalog No.	Pressure	Tube	Orifice	Dimer	nsions
Catalog No.	Rating	Size	Size	HEX	Α
CV150S02		1/8"	1.4	22	68
CV15BS02		1,0	1.7		
CV150S04	15,000 psi	1/4"	3.2	25.4	81
CV15BS04	, 0,000 pc.	.,,	0.2		
CV150S06		3/8"	5	36	93
CV15BS06					
CV100S08	10,000 psi	1/2"	5	41	108
CV10BS08	· '				
CV200S04		1/4"	2.8	25.4	77
CV20BS04					
CV200S06 CV20BS06		3/8"	5.2	25.4	91
CV20BS06 CV20OS09					
CV200S09	20,000 psi	9/16"	7.9	35	107
CV20DS09					
CV20BS12		3/4"	11.1	36	131
CV200S16					
CV20BS16		1"	7	55	167
CV300S02					
CV30BS02		1/8"	1.2	20.6	69
CV300S16	30,000 psi	1"			
CV30BS16					
CV600S04		1/4"	2.4	32	85
CV60BS04		1/4	2.4	32	00
CV600S06	60,000 psi	3/8"	3.2	36	102.6
CV60BS06	30,000 poi	3,0	0.2	00	102.0
CV600S09		9/16"	4.8	38	118
CV60BS09		2, 10			
CV1000S04	100,000 psi	1/4"	2	ø36	103
CV100BS04		., .	_		.30

[Ball Type]





[Filter Element (Cup Type)]





(Unit : mm)

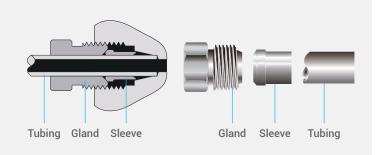
Catalog No.	Pressure Rating	Tube Size	Orifice Size	HEX	A
FL15CS02		1/8"	1.4	22	68
FL15CS04	15,000 psi	1/4"	3.2	25.4	81
FL15CS06		3/8"	5	36	93
FL10CS08	10,000 psi	1/2"	5	41	108
FL20CS04		1/4"	2.8	25.4	77
FL20CS06		3/8"	5.2	25.4	91
FL20CS09	20,000 psi	9/16"	7.9	35	107
FL20CS12		3/4"	11.1	36	131
FL20CS16		1"	7	55	167
FL30CS02	30,000 psi	1/8"	1.2	20.6	69
FL30CS16	30,000 psi	1"			
FL60CS04		1/4"	2.4	32	85
FL60CS06	60,000 psi	3/8"	3.2	36	102.6
FL60CS09		9/16"	4.8	38	118

- As all sizes are for reference, they can be changed without any notification.
- We recommend you to use HIFLUX Fitting accessory Tube, Nipple for the most effective fitting.
- NPT connections are available on request. Please consult the authorized sales representative.

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.

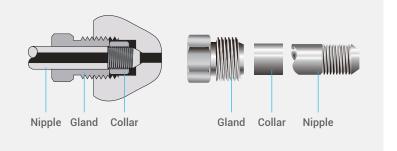


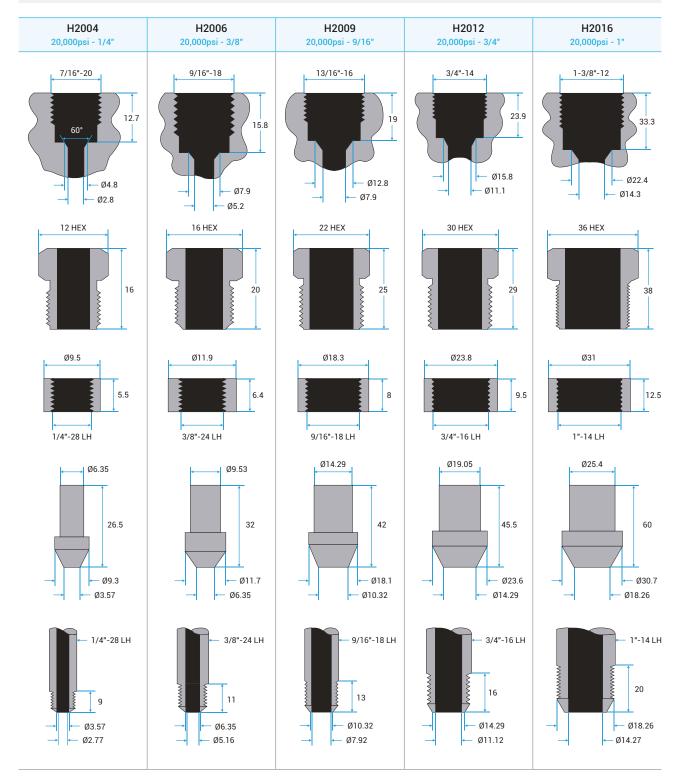
H1008 10,000psi - 1/2"	H1506 15,000psi - 3/8"	H1504 15,000psi - 1/4"	H1502 15,000psi - 1/8"
13/16"-16N 20.6 — Ø9.5 — Ø13	5/8"-18 Ø9.8 Ø5.5	1/2"-20 17.5 06.5 04	3/8"-24 → Ø3.3 → Ø1.4
25.4 HEX	17 HEX	16 HEX	12 HEX
Ø13 24	19	06.6	Ø3.3
Ø15.8 9.7	9.6	Ø9.45 8.5	7.7

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.

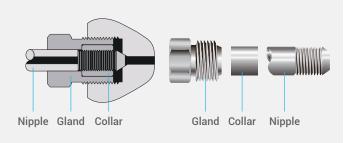




Port Type High Pressure Port Type

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.

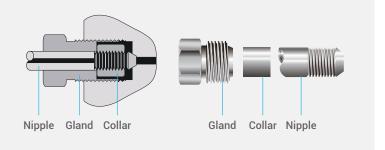


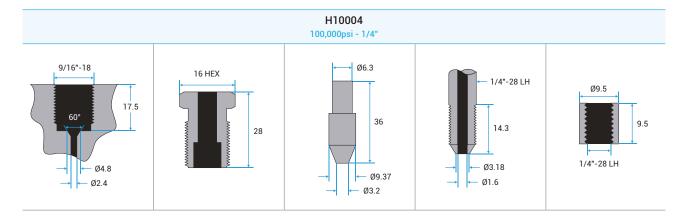
H3002 30,000psi - 1/8"	H3016 30,000psi - 1"	H6004 60,000psi - 1/4" (M : Metric)	H6006 60,000psi - 3/8" (M : Metric)	H6009 60,000psi - 9/16" (M : Metric)
1/2"-20 60° 111.37 02.4	1-3/8"-12 33.3 022.4 011.1	9/16"-18 (M16x1.5P) 11(11.5) 04.3(Ø5) 02.4(Ø2.4)	3/4"-16 (M20x1.5P) 16(15) 06.6 03.2(Ø3.2)	1-1/8"-12 (M26x1.5P) 19(15) 194.8
13 HEX 18	36 HEX 38	16 HEX(17HEX) 20(22) Ø6.3	20 HEX(22HEX) 30(30)	30 HEX(27HEX) 38(38) Ø14.4
Ø3.18 24 — Ø6.35 — Ø1.78	Ø25.4 62 ← Ø31.45 ← Ø15.4	27.5 → Ø9.37 → Ø3.18	37 → Ø12.56 → Ø5.56	47 → Ø20.7 → Ø7.14
11.12 → Ø1.59	23 Ø14.3	1/4"-28 LH 14.3	→ 3/8"-24 LH 18.5 → Ø5.56 → Ø3.18	9/16"-18 LH 24 — Ø7.14 — Ø4.76
→ Ø1.02 Ø6.3 8 1/8"-40 LH	Ø31 12.5 1"-14 LH	9.5 1/4"-28 LH 8 — Ø9.6 — Ø6.49	13.5 3/8"-24 LH 11.5 — Ø12.9 — Ø9.65	9/16"-18 LH 14.5 ← Ø20.9 ← Ø14.4

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.

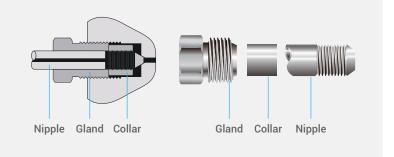


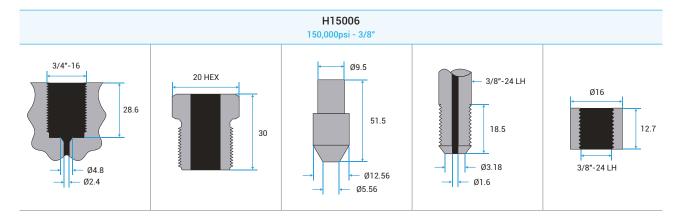


Port Type Ultra High Pressure Port Type

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.

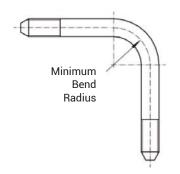




Technical Information Recommended Torque

[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)



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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)
	H1502	1/8 Inch (15,000)	13	170
10,000 PSI	H1504	1/4 Inch (15,000)	17	550
15,000 PSI	H1506	3/8 Inch (15,000)	17	550
	H1008	1/2 Inch (10,000)	24	800
	H2004	1/4 Inch (20,000)	17	550
	H2006	3/8 Inch (20,000)	17	550
20,000 PSI	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
	H3002	1/8 Inch (30,000)	13	500
00 000 PO	H6004	1/4 Inch (30,000)	20	550
30,000 PSI	H6006	3/8 Inch (30,000)	20	550
	H6009	9/16 Inch (30,000)	20	550
	H6004	1/4 Inch (60,000)	20	670
60,000 PSI	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
	HFN02	1/8 Inch (15,000)	13	500
	HFN04	1/4 Inch (15,000)	17	550
10,000 & 15,000 PSI	HFN06	3/8 Inch (15,000)	17	550
NPT TYPE	HFN08	1/2 Inch (15,000)	22	1100
	HFN10	3/4 Inch (10,000)	41	-
	HFN12	1 Inch (10,000)	41	-

