HiFLUX

High Pressure Valves & Fittings

HIGH SERVICE
HIGH QUALITY
HIGH PERFORMANCE
High Pressure equipment

HiFLUX

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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

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

HRS	–	NV	20	V	S	04	–	S
①		①	②	③	④	⑤		⑥

① Products	② Pressure	③ Type of Components	④ Material	⑤ Tube Size	⑥ Options
HRS-NV : Hydrogen Refueling System Needle Valve NV : Needle Valve CV : Check Valve BV : Ball Valve ABV : Actuater Ball Valve AOV : Air Operated Valve RV : Relief Valve KGC-RV : Gsa Relief Valve SH : Safety Head CON : Control Valve 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	03 : 3,000 psi 07 : 7,500 psi 15 : 15,000 psi 20 : 20,000 psi 30 : 30,000 psi 60 : 60,000 psi 100 : 100,000 psi 150 : 150,000 psi N : NPT P : PT	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 - S : Sleeve - 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 inch 04 : 1/4 inch 06 : 3/8 inch 08 : 1/2 inch 09 : 9/16 inch 12 : 3/4 inch 16 : 1 inch 15 : 15A 25 : 25A	Needle Valve Control Valve Air Operated Valve High Temperature Valve - S : Straight Type - A : Angle Type - O : 3way/1on Type - T : 3way/2on Type - D : 3way 2stem Type Ball Valve - 20-90 : 2way - 3-180 : 3way Switching - 3-90 : 3way Diverting Relief Valve Field Adjustable - 1 : 1 Inlet - 2 : 2 Inlet Proportional Type - N : NPT Inlet port Fitting Accessory - AV : Anti-Vibration Type GPR - N : Normal Type - P : Panel Type

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.

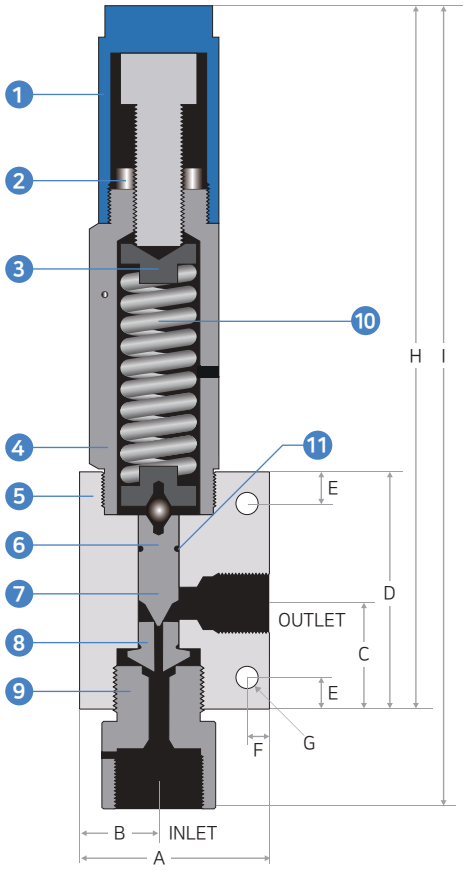
Relief Valve - Factory Set

Sefety valve that protects the system by venting the pressure when over pressure occurs

Relief Valve Factory Set products are valves that protect the system and other devices by releasing pressure when the internal pressure of the system rises above the set pressure due to system malfunction, etc. The set pressure (customer-specified) is set to the requested pressure before shipment and is sealed with a pressure tag.

Features

- Pressure Range : 3,000 psi ~ 60,000 psi
- Setting Pressure Range : ±8%
- Inlet Port : H6009(Orifice size : Ø6.4)
- Outlet Port : 1/2" NPT
- Standard Material : Stainless Steel
- O-ring Material on Piston : Viton
- Max Operating Temperature : 160℃



No	Description
1	Cap
2	Lock Nut
3	Spring Cap
4	Housing
5	Body
6	Spindle
7	Plug
8	Seat
9	Adapter
10	Spring
11	Viton O-ring

(Unit : mm)

Catalog No	Port Type		Orfice inches (mm)	Pressure Range(PSI)		Dimensions (mm)									Block Thickness
	Inlet	Outlet		Minimum	Maximum	A	B	C	D	E	F	G	H	I	
RV11FSS09	H6009 (9/16")	1/2" NPT	6.2	3,000	11,000	60	25	33.5	75	10	7	7	292.5	323.87	44
RV21FSS09			4.5	11,000	21,000										
RV30FSS09			3.9	21,000	30,000										
RV45FSS09			3.2	30,000	45,000										
RV60FSS09			2.6	45,000	60,000										

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

Relief Valve - Field Adjustable

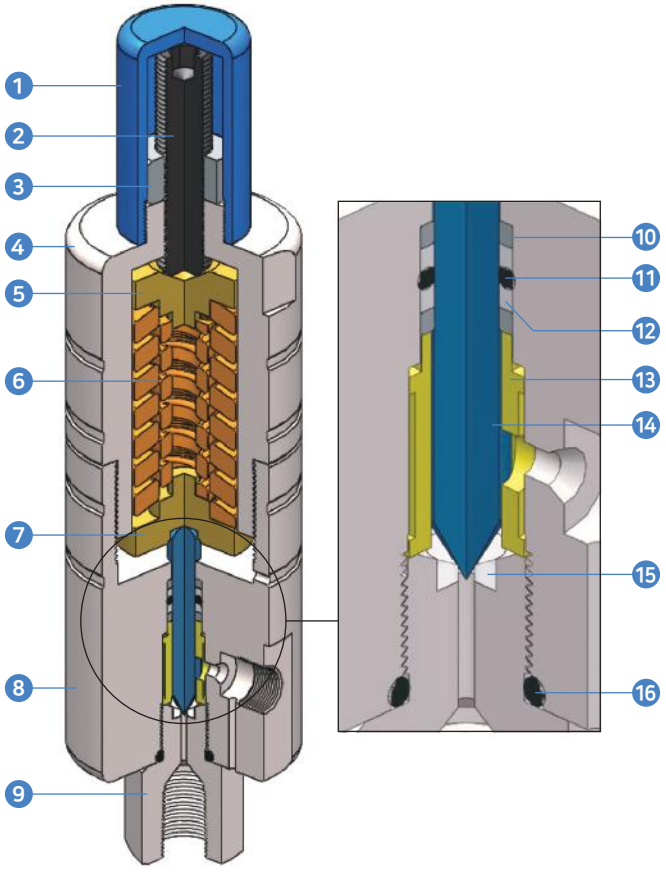
Sefety valve that protects the system by venting the pressure when over pressure occurs

Relief Valve Field Adjustable products protect the system from overpressure by releasing pressure when the internal pressure of the system rises above the set pressure, and the pressure setting can be easily adjusted at the field by the customer directly adjusting socket set screw on the top of the valve.

Features

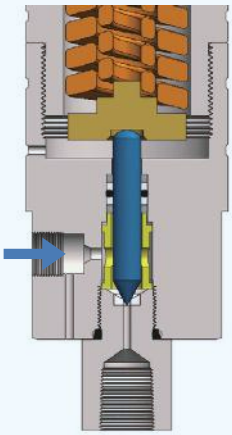
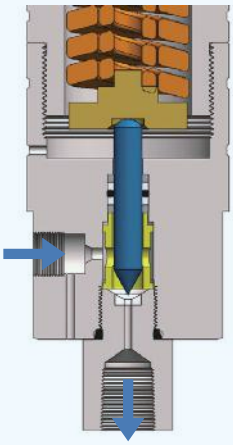
- Pressure Range : 1,000 psi ~ 10,000 psi, 10,000 psi ~ 20,000 psi
- Setting Pressure Range : ±8%
- Max Working Temperature : -20℃ ~ 65℃(NYLON) / -20℃ ~ 160℃
- Inlet Port : 1/4" NPT, H2004
- Outlet Port : 1/4" NPT
- Orifice Size : Ø1.8
- Adapters allow connection of pipes of various pressures and sizes

Table Of Material



No	DESCRIPTION	MATERIAL
1	CAP	AL6061
2	Socket Set Screw	SCM435
3	NUT	STS304
4	HOUSING 1	STS304
5	SPRING GUIDE 1	STS304
6	SPRING	Carbon Steel
7	SPRING GUIDE 2	STS304
8	HOUSING 2	STS316CW
9	SEAT GLAND	STS316CW
10	STS SEAL	STS316CW
11	O-RING	Vlton
12	SEAL	TEFLON
13	STEM GUIDE	STS316CW
14	STEM	STS630-660
15	SEAT	PEEK
16	O-RING	Viton

HOW & WHERE

Close	Open
	
Force of pressure that the spring can be stand > Force of pressure applied to the stem	The force of the pressure that the spring can be stand < the force of the pressure applied to the stem (which pushes up the stem and opens the valve)

How it works

The relief valve opens when the pressure applied to the stem exceeds the set pressure, and closes when it falls below the set pressure.

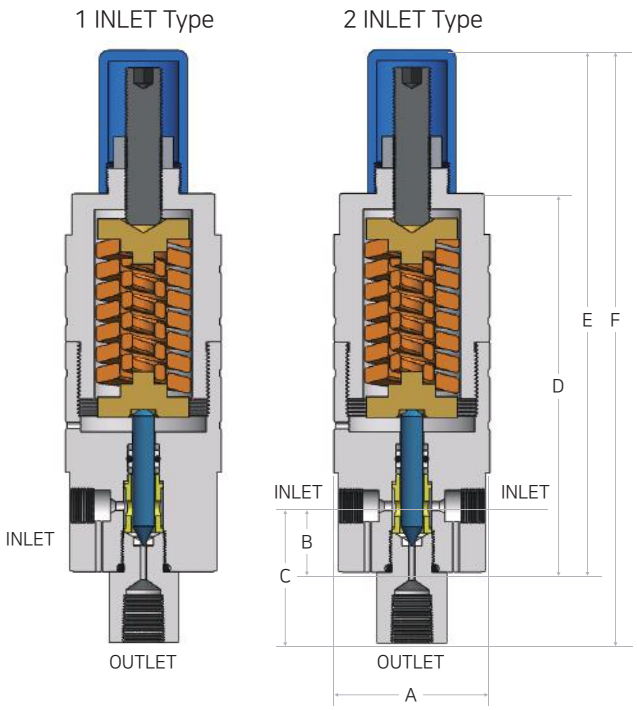
WHERE

- Where you want to protect the system from over pressure caused by system malfunction.
- Where you want to control over pressure caused by thermal expansion.
- Where low discharge is not a problem in a system where high pressure is applied.
- Where perfect flow blocking without leakage is required.

WHERE NOT

- Pressure ~ 1,000 psi or less.
- Systems where discharge capacity must also increase as pressure increases.
- If the back pressure occurs at the drain port.
- Corrosive liquids or gases that can damage the valve, cryogenic fluids or gases such as liquid nitrogen.

Dimension Table

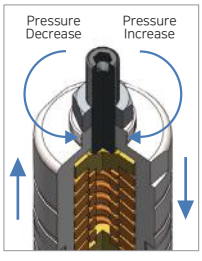


Technical Features

Feature	RV10FAS Type	RV20FAS Type
Pressure Range (PSIG)	1,000 ~ 10,000	10,000 ~ 20,000
Inlet Port	1/4" NPT	H2004
Outlet Port	1/4" NPT	
Orifice Size	1.8mm	
CV	0.12	
Packing Material	PEEK	
O-ring Material	Viton	
Max Working Temperature	-20℃ ~65℃ (NYLON) / -20℃~160℃	
Hexagon Wrench Tool Size	5mm Use a ranch with six angles	6mm Use a ranch with six angles
Adjust Dimension Tolerance ±%	±8%	
Useable area	Water	

Set Pressure

Catalog No	SET PRESSURE (psi)	Spring Compression Length(mm)
1,000 ~ 10,000 psi RV10FAS04	4,000	1.92
	8,000	3.84
10,000 ~ 20,000 psi RV20FAS04	12,000	5.76
	16,000	7.68
	20,000	9.06



(Unit : mm)

Catalog No	Port Type			Orfice inches (mm)	Pressure Range(PSI)		Dimensions (mm)						
	1 Inlet	2 Inlet	Outlet		Minimum	Maximum	A	B	C	D	E	F	G
RV10FAS04-1	1/4" NPT		1/4" NPT	1.8	1,000	10,000	38	21	43.1	112.5	158	180.1	28
RV10FAS04-2		1/4" NPT											
RV20FAS04-1	H2004 (1/4")		1/4" NPT	1.8	10,000	20,000	49.5	21	43.1	120	165.5	187.6	28
RV20FAS04-2		H2004 (1/4")											

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

Relief Valve - Proportional Type

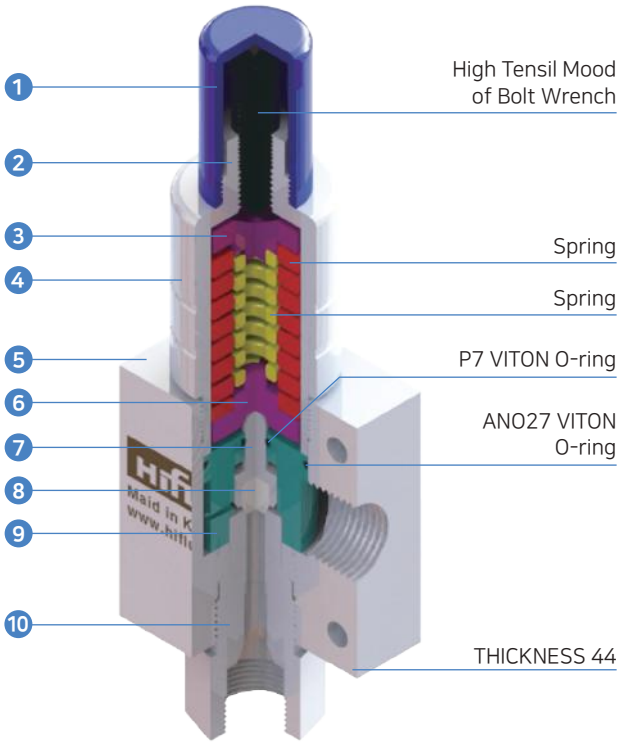
Sefety valve that protects the system by venting the pressure when over pressure occurs

Relief Valve Proportional Type products are valves that open gradually as the internal pressure of the system increases. Since the flow rate increases as the differential pressure increases, they can be used in systems where the flow rate is high or the pressure suddenly increases rapidly.

Features

- Pressure Range : 1,000 psi ~ 15,000 psi, 1,000 psi ~ 20,000 psi
- Setting Pressure Error Range : ±8%
- Inlet Port : 1/2" NPT, H2009 (9/16")
- Outlet Port : 1/2" NPT
- Orifice Size : Ø6.3
- Standard Material : STS316
- O-ring Material on Piston : Viton
- Max Operating Temperature : 160℃
- Adapters allow connection to pipes of various pressures and sizes
- Stable sealing is possible by using PEEK stem
- Pressure setting can be adjusted by the customer by adjusting socket set screw on the top of the valve

Table Of Material



No	DESCRIPTION	MATERIAL
1	CAP	AL6061
2	STS NUT	STS304
3	SPRING GUIDE 1	STS304
4	HOUSING	STS304
5	BODY	STS316CW
6	SPRING GUIDE 2	STS304
7	STEM	STS630
8	SEAT	PEEK
9	STEM GUIDE	STS316CW
10	BOTTOM CONNECTOR	STS316CW

Technical Features

Feature	RV15PPS08N	RV20PPS09
Pressure Range (PSIG)	1,000 ~ 15,000	1,000 ~ 20,000
Inlet Port	1/2" NPT	H2009 (9/16")
Outlet Port	1/2" NPT	
Orifice Size	Ø 6.3	
Packing Material	PEEK	
O-ring Material	Viton	
Max working temperature	-20℃ ~ 160℃	
Hexagon Wrench Tool Size	6mm Use a ranch with six angles	
Adjust Dimension Tolerance ±%	±8%	
Useable area	Water, Gas	

HOW & WHERE

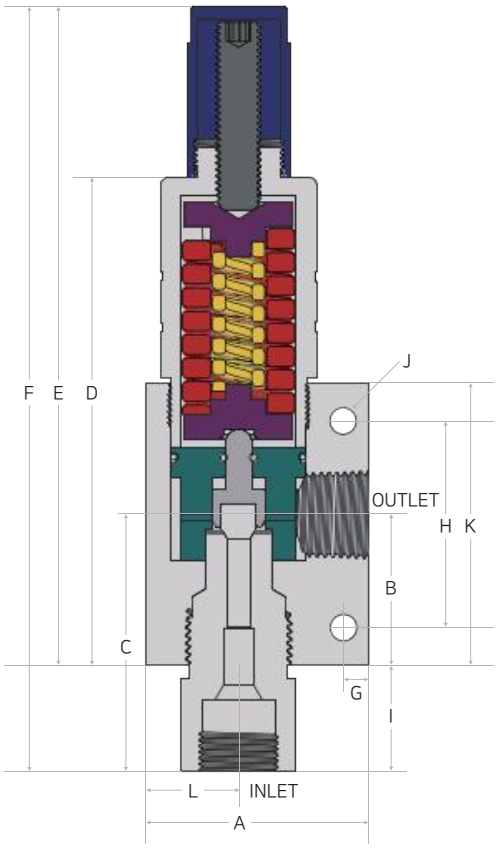
WHERE

- Where you want to protect the system from over pressure caused by system malfunction.
- Where you want to control over pressure caused by thermal
- expansion.
- Where low discharge is not a problem in a system where high pressure is applied.
  Where perfect flow blocking without leakage is required.

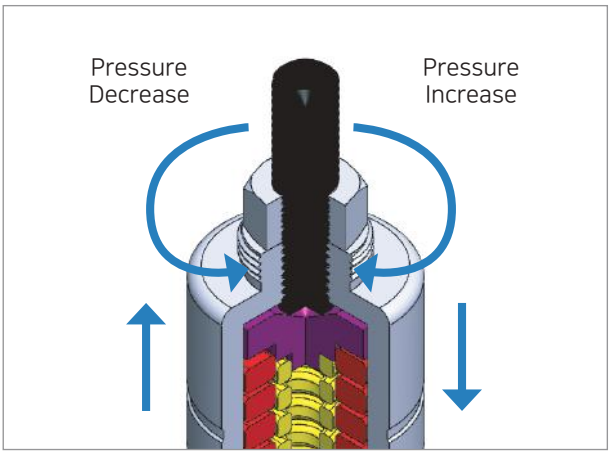
WHERE NOT

- Pressure ~ 1,000 psi or less.
- Systems where discharge capacity must also increase as pressure increases.
- If the back pressure occurs at the drain port.
- Corrosive liquids or gases that can damage the valve, cryogenic fluids or gases such as liquid nitrogen.

Specification



Set Pressure



The pressure on the Inlet side where the fluid flow starts determines the Set Pressure.
Turning to the right increases the Set Pressure.
Turning to the left decreases the Set Pressure

(Unit : mm)

Catalog No	Port Type		Orfice inches (mm)	Pressure Range(PSI)		Dimensions (mm)											
	1 Inlet	Outlet		Minimum	Maximum	A	B	C	D	E	F	G	H	I	J	K	L
RV15PPS08N	1/2" NPT	1/2" NPT	6.3	1,000	15,000	60	40	68.2	130	175.5	203.7	7	55	28	7	75	25
RV20PPS09	H2009 (9/16")	1/2" NPT	6.3	1,000	20,000	60	40	68.2	130	175.5	203.7	7	55	28.2	7	75	25

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

Relief Valve - Proportional Gas Relief Valve

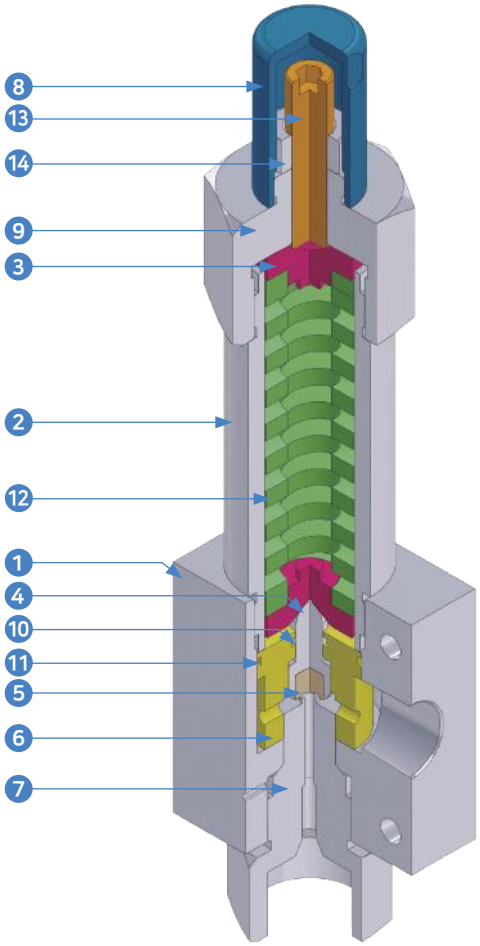
Sefety valve that protects the system by venting the pressure when over pressure occurs

Relief valve Proportional Type products are valves that open gradually as the internal pressure of the system increases. Since the flow rate increases as the differential pressure increases, it can be used in systems with high flow rates or where pressure rises suddenly and rapidly.

Features

- Atmosphere discharge type safety valve.
- Connection to piping of various pressure specifications and sizes is possible using an Adapter.
- Stable sealing is possible by using PEEK stem.
- STEM part material: For general gas - STS630, For hydrogen gas - STR660
- Set to customer's operating pressure before shipment.
- Product testing follows Korea Gas Safety Corporation (KGS) AA319.

Table Of Material



No	DESCRIPTION	MATERIAL
1	Body	STS316
2	Housing	STS304
3	Spring guide	STS304
4	Stem	Hydrogen Gas: STR660 General Gas: STS630
5	Seat	PEEK
6	Stem guide	STS316
7	Bottom Connector	STS316
8	Cap	AL6061
9	Cover	STS304
10	O-ring1	Viton
11	O-ring2	Viton
12	Spring	SAE9254
13	Mood of Bolt Wrench	STS304
14	Nut	STS304

Technical Features

Feature	KCG-RV18PPS09 KCH-RV18PPS09	KCG-RV29PPS09 KCH-RV29PPS09
Pressure Range (PSIG)	1,000 ~ 18,000	1,000 ~ 29,000
Inlet Port	H6009 (9/16")	
Outlet Port	1/2" NPT	
Orifice Size	Ø3	
Packing Material	PEEK	
O-ring Material	Viton	
Max working temperature	-20℃ ~ 160℃	
Adjust Dimension Tolerance ±%	±3%	
Useable area	General Gas: STS630 / Hydrogen Gas: STR660	

HOW & WHERE

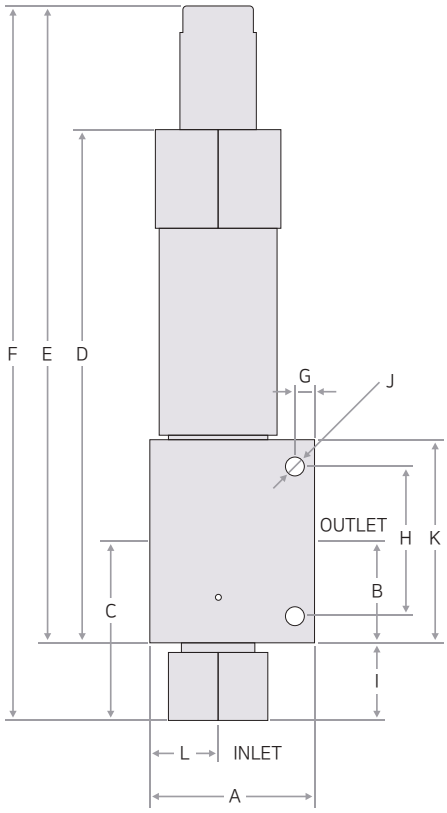
WHERE

- Where protection of the system from overpressure due to system malfunction is required.
- Where control of overpressure caused by thermal expansion is required.
- Systems where high pressure is applied and pressure fluctuations are severe.
- Where a perfect, leak-free flow path shut-off is required.

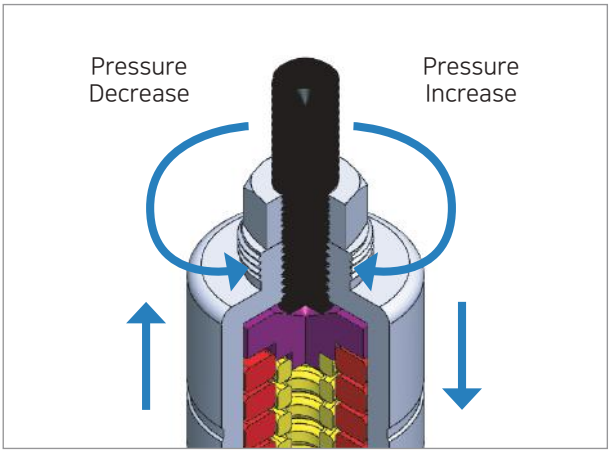
WHERE NOT

- Pressure ~ 1,000 psi or less.
- Systems where back pressure is generated on the discharge side.
- Corrosive liquids or gases that can damage the valve, cryogenic fluids or gases like liquid nitrogen.
- High-temperature fluids that can damage the valve.

Specification



Set Pressure



The pressure on the Inlet side where the fluid flow starts determines the Set Pressure.
Turning to the right increases the Set Pressure.
Turning to the left decreases the Set Pressure

(Unit : mm)

Catalog No	Port Type		Orfice inches (mm)	Pressure Range(PSI)		Dimensions (mm)												
	Inlet	Outlet		Minimum	Maximum	A	B	C	D	E	F	G	H	I	J	K	L	Block Thickness
KCG-RV18PPS09	H6009	1/2" NPT	3	1,000	18,000	60	40	68.2	189	234.5	262.9	7	55	28.2	7	75	25	44
KCH-RV18PPS09																		
KCG-RV29PPS09				1,000	29,000													
KCH-RV29PPS09																		

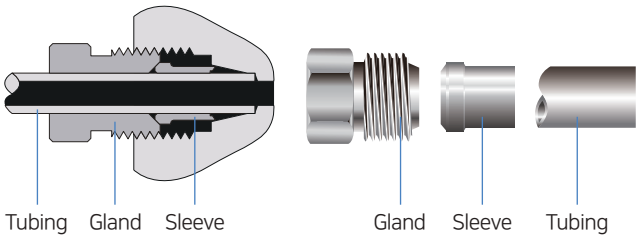
All dimensions are for reference only and may differ from actual size.

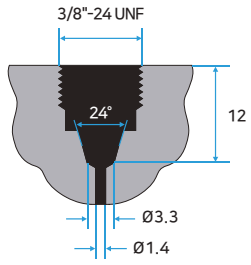
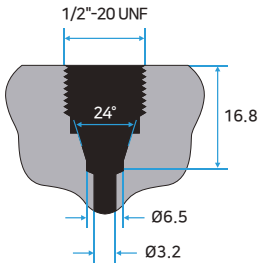
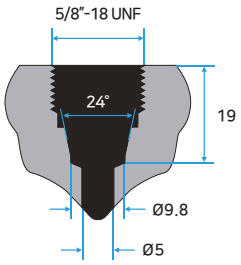
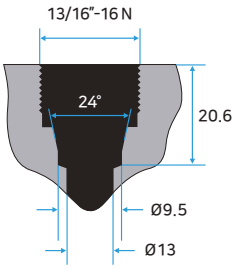
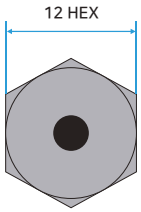
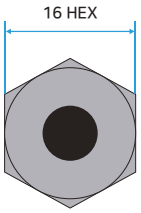
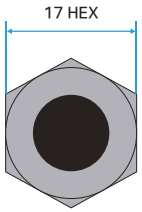
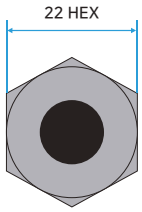
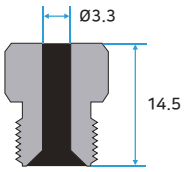
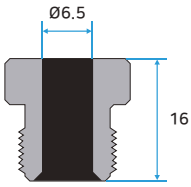
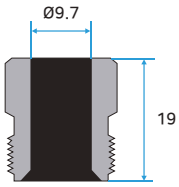
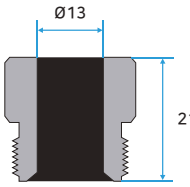
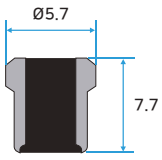
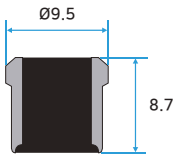
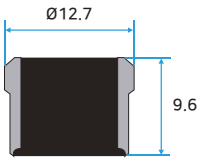
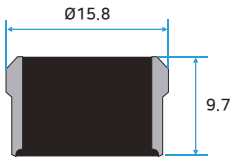
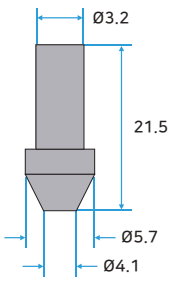
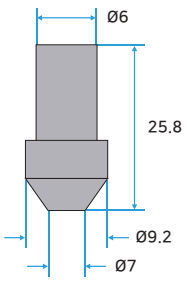
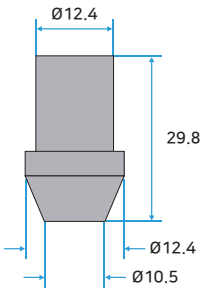
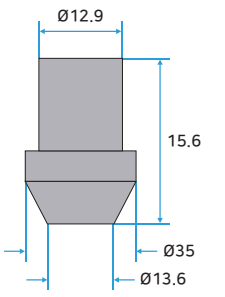
Port Type

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.



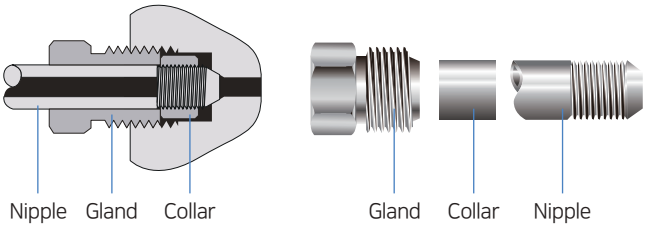
H1502 15,000psi - 1/8"	H1504 15,000psi - 1/4"	H1506 15,000psi - 3/8"	H1008 10,000psi - 1/2"
			
			
			
			
			

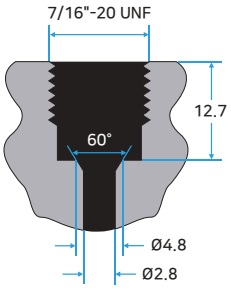
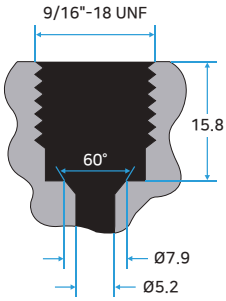
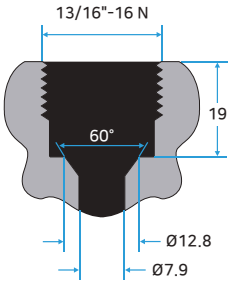
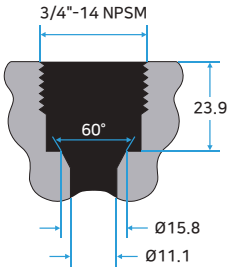
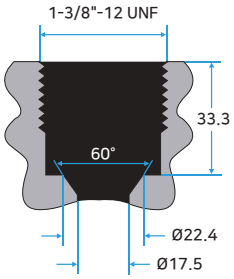
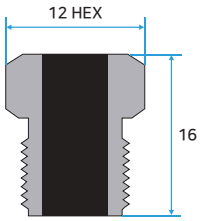
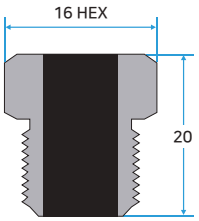
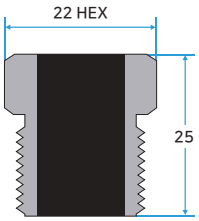
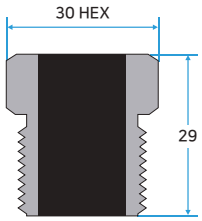
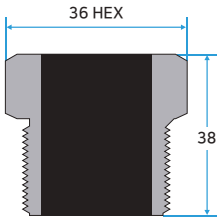
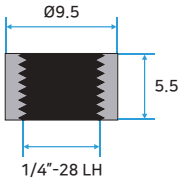
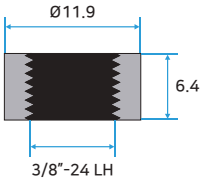
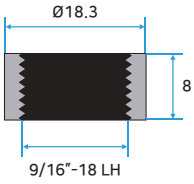
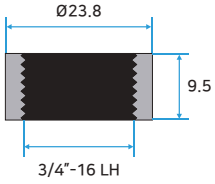
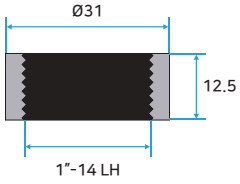
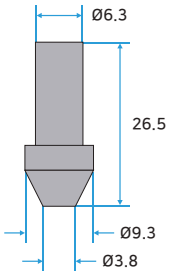
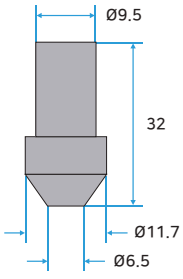
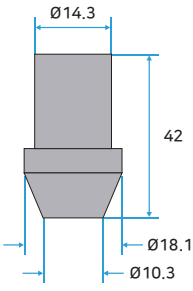
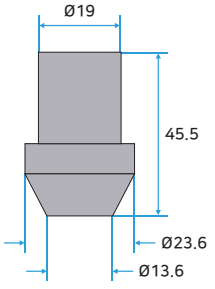
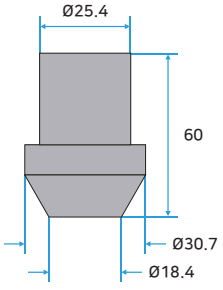
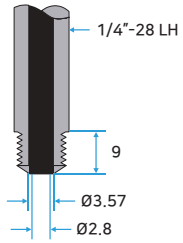
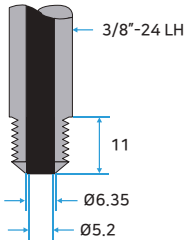
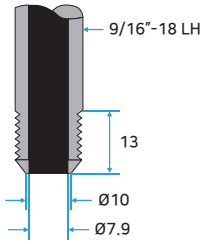
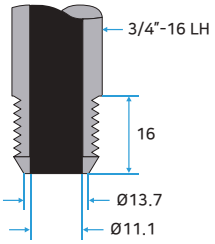
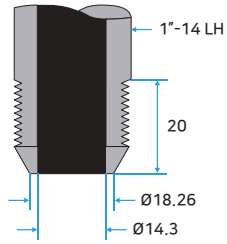
Port Type

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.



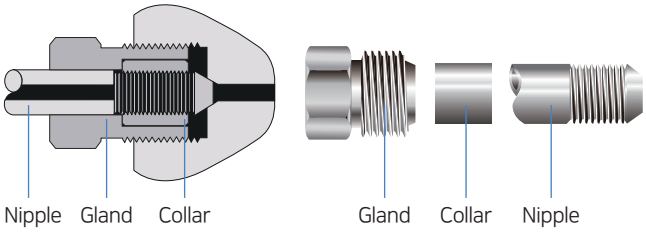
H2004 20,000psi - 1/4"	H2006 20,000psi - 3/8"	H2009 20,000psi - 9/16"	H2012 20,000psi - 3/4"	H2016 20,000psi - 1"
				
				
				
				
				

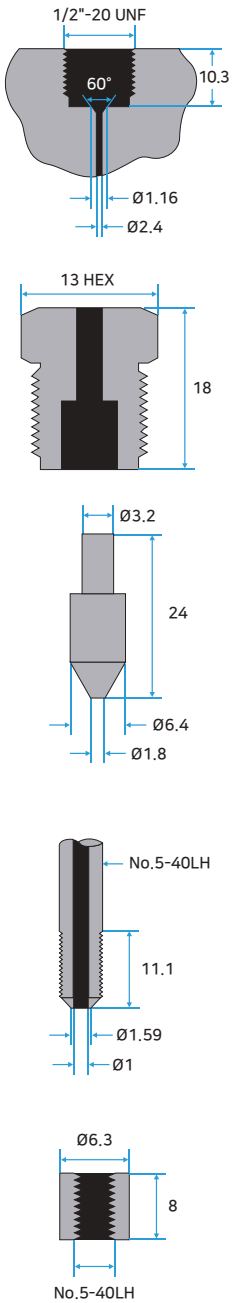
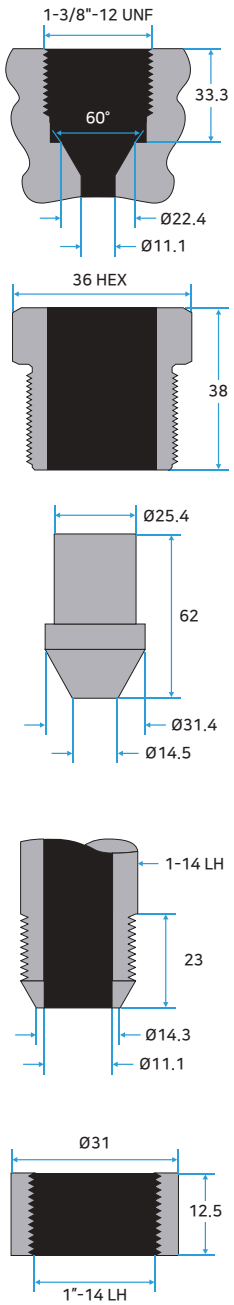
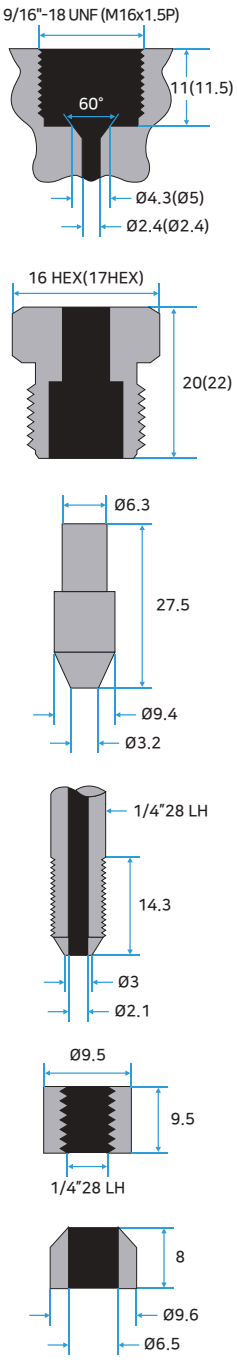
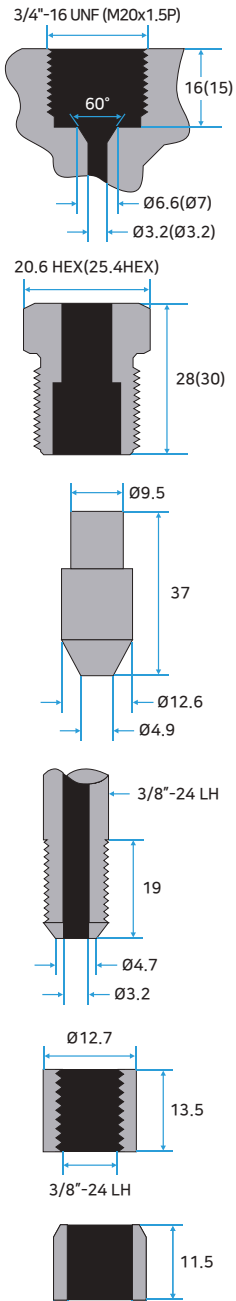
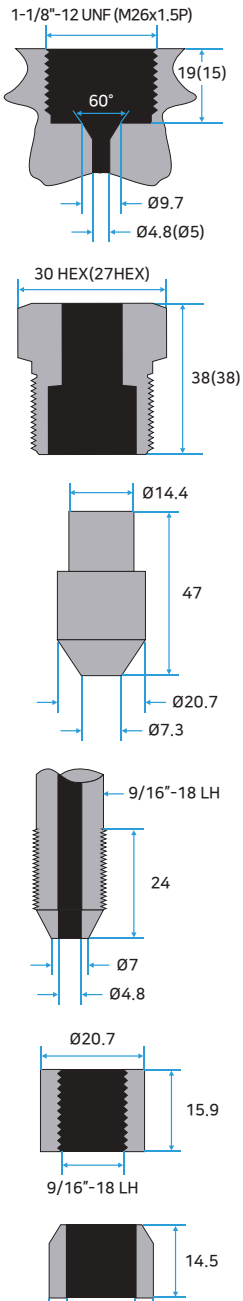
Port Type

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.



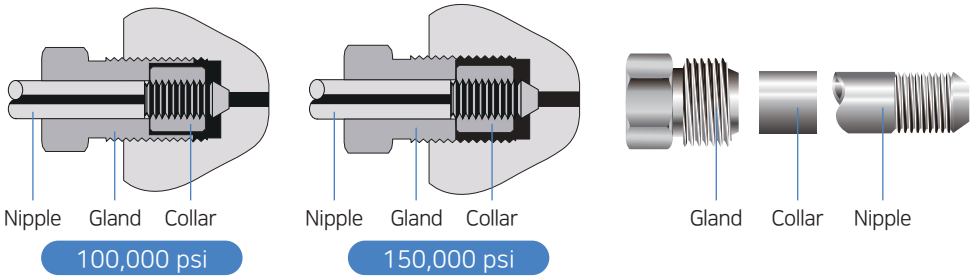
H3002 30,000psi - 1/8"	H3016 30,000psi - 1"	H6004 60,000psi - 1/4" (M : Metric)	H6006 60,000psi - 3/8" (M : Metric)	H6009 60,000psi - 9/16" (M : Metric)
				

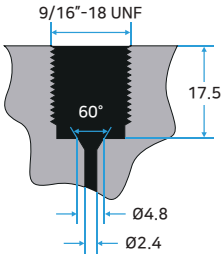
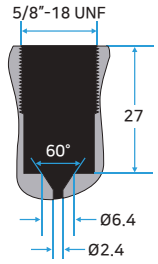
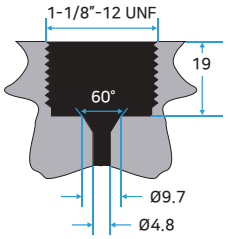
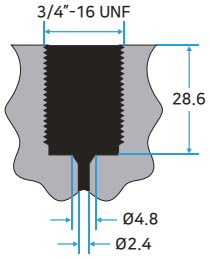
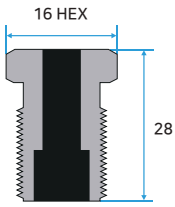
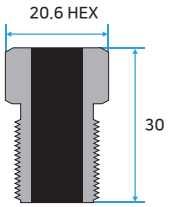
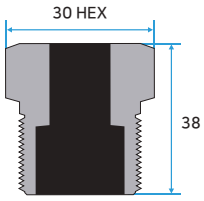
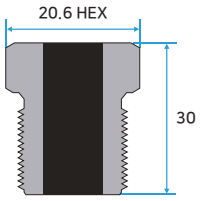
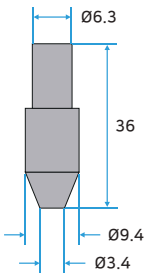
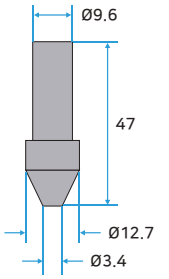
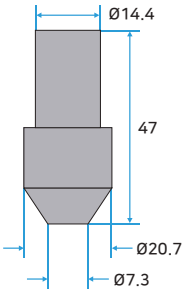
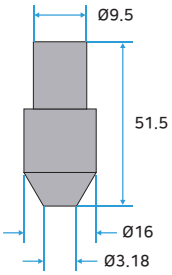
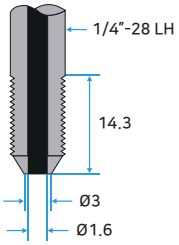
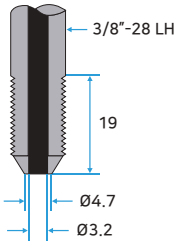
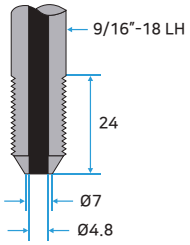
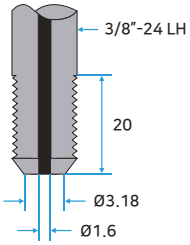
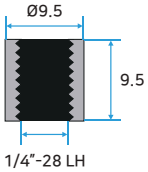
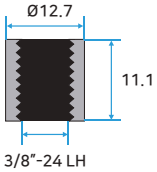
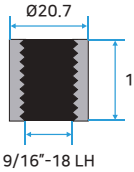
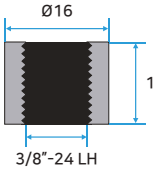
Port Type

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"
			
			
			
			
			

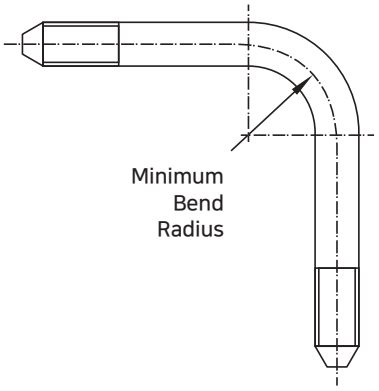
Technical Information

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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