

High Pressure Valve Assembly

Type HP-30 (30,000 psi / 2000 bar)

DESCRIPTION

The HP-30 is a high pressure control valve using a tri-axially forged stainless steel body along with a solid Stellite® innervalue assembly. The HP-30 can be used for both flow control as well as a Class IV shutoff valve. The versatility of the HP-30 creates a singular solution for your high pressure applications.

APPLICATION

The HP-30 valve is used in industrial applications, research and process pilot plants on liquids and gases. The main use is in high-pressure chemical injection.

MATERIALS

Body	Barstock 316 stainless steel
Innervalue	Stellite® 6b (plug and seat)
Packing	Standard is HP-PTFE®/PFA CV rings
Actuator	Painted carbon steel, nickel plated carbon steel and stainless steel

ACTUATOR CHOICES

Standard	Air-to-open, fail close Air-to-close, fail open
Effective Area	35 square inches
Standard Signals	3-15#, 3-27#, 6-30#, 22-45#*
Optional Signals	With positioner, 3-9#, 9-15#
Accessories	Filter regulator, gauges, I/P, limit switches, hand-wheel on standard unit, solenoids

*Positioner Required

OPTIONAL FEATURES

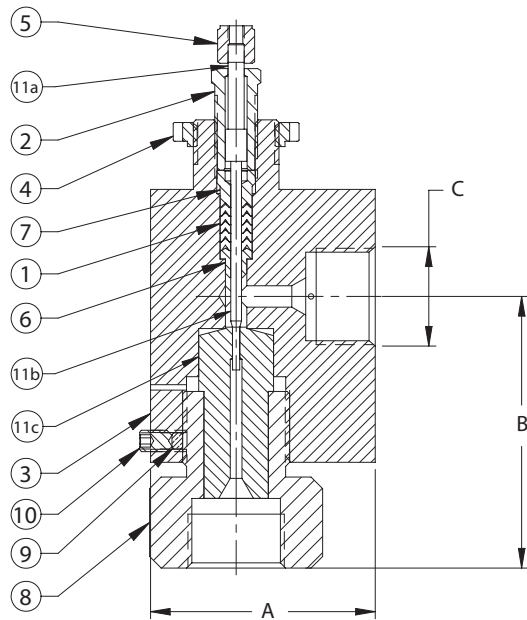
- Stainless steel actuator and hardware for explosion-proof requirements.



STANDARD FEATURES

- Wide range of interchangeable trims
- Choice of linear or quick opening trims
- ANSI Class III shutoff for sizes P-1 through P-6
- ANSI Class IV shutoff for sizes K through O
- Solid Stellite innervalue
- 9/16 in. high-pressure cone and collar fittings (F562C)
- Pressure rating of 30,000 psi (2069 bar) @ 100° F (38° C)

DIMENSIONS



Items in Drawing

Item	Description	Material
1	CVH Packing	TFE
2	Packing Gland	303 SST
3	Body/Bonnet	316/316L SST
4	Locknut	300 SER SST
5	Connector	316/316L SST
6	Adaptor	416 SST
7	Follower	416 SST
8	Adaptor, Lower	316/316L SST
9	Adaptor Lock	Brass
10	Set Screw	SST
11a	Stem	—
11b	Innervalue	—
11c	Seat	—

Dimensions in Inches (mm)

PS	A	B	C
1/4 inch	2.62 (67.5)	3.17 (80.6)	2X F562C Connections 30,000 psi, 2 Ports

TRIM CHART

Trim Size	Max. Cv	Orifice Dia. in. (mm)	Orifice Area (sq. in.)
I*	0.08	0.1000 (2.54)	0.0079
J*	0.05	0.1000 (2.54)	0.0079
K	0.03	0.0860 (2.18)	0.0058
L	0.02	0.0860 (2.18)	0.0058
M	0.01	0.0860 (2.18)	0.0058
N	0.006	0.0860 (2.18)	0.0058
O	0.003	0.0860 (2.18)	0.0058
P-1	0.002	0.0625 (1.59)	0.0031
P-2	0.0013	0.0625 (1.59)	0.0031
P-3	0.001	0.0625 (1.59)	0.0031
P-4	0.0006	0.0625 (1.59)	0.0031
P-5	0.0004	0.0625 (1.59)	0.0031
P-6	0.00027	0.0625 (1.59)	0.0031

* Special order

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