

DESCRIPTION

The HP-60 is an ultra high pressure control valve utilizing a 17-4 PH body along with a solid Stellite innervale assembly. The HP-60 can be used for both flow control as well as a Class IV shutoff valve. The versatility of the HP-60 creates a singular solution for your high pressure applications.

APPLICATION

The HP-60 valve is used in industrial applications, research and process pilot plants on liquids and gases. The main use is in high-pressure, chemical injection utilized in the production of high-pressure low density polyethylene (HPLDPE).

MATERIALS OF CONSTRUCTION

- Body: 17-4 PH
- Innervale: Stellite® 6B (plug and seat)
- Packing: Standard – Torlon®/PFA CV rings
- Actuator: Painted carbon steel, nickel plated carbon steel, and stainless steel

ACTUATOR

- 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 converter, handwheel, limit switches, solenoids

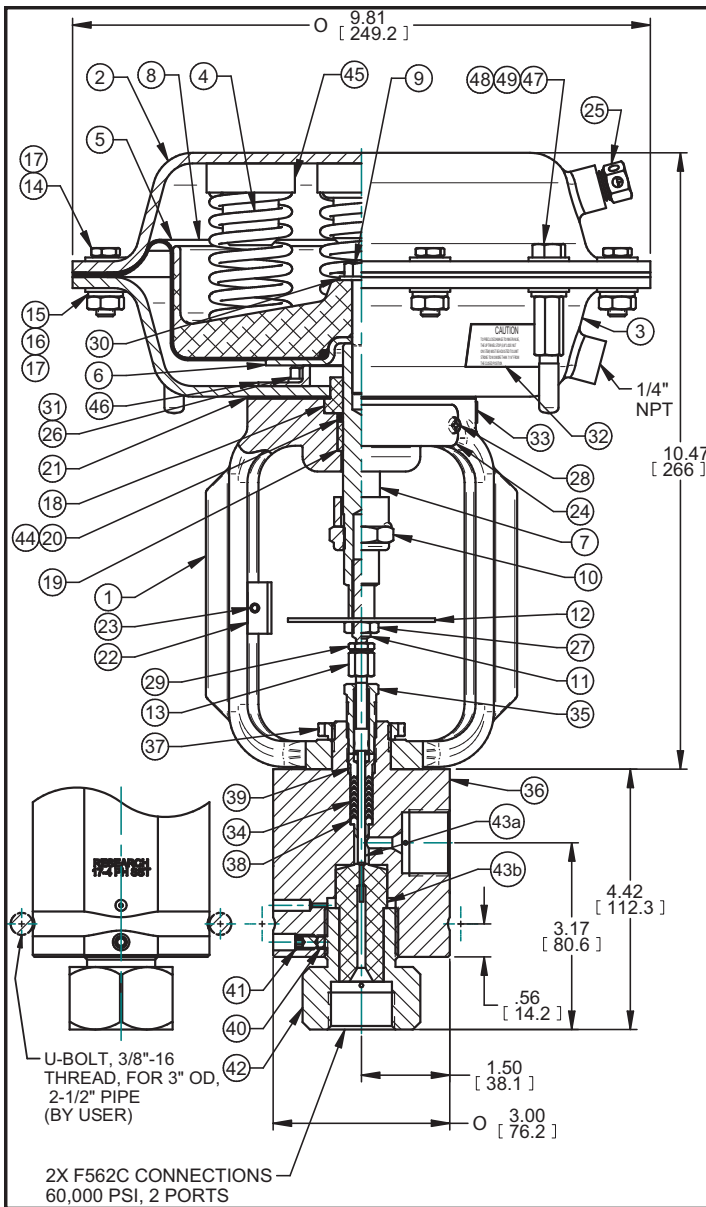
*Positioner Required



Image with optional stainless steel actuator

STANDARD FEATURES

- Wide range of interchangeable trims
- Choice of linear or quick opening trims
- ANSI Class III shutoff (size "P-1" thru "P-9")
- ANSI Class IV shutoff (size "K" thru "O")
- Solid Stellite® innervale
- Optional: Titanium Nitride coated Stellite®
- 9/16" high-pressure cone and collar fittings (F562C)
- Pressure rating: 60,000 psi (4135 Bar) @ 100 °F
- Maximum upstream pressure: 60,000 psi
- Maximum downstream pressure: 47,150 psi (higher downstream pressure, consult the factory)



TRIM CHART

TRIM	MAX CV	ORIFICE DIAMETER	ORIFICE AREA
I*	0.08	0.1000	0.0079
J*	0.05	0.1000	0.0079
K	0.03	0.0860	0.0058
L	0.02	0.0860	0.0058
M	0.01	0.0860	0.0058
N	0.006	0.0860	0.0058
O	0.003	0.0860	0.0058
P1	0.002	0.0625	0.0031
P2	0.0013	0.0625	0.0031
P3	0.001	0.0625	0.0031
P4	0.0006	0.0625	0.0031
P5	0.0004	0.0625	0.0031
P6	0.00027	0.0625	0.0031
P7	0.00018	0.0625	0.0031
P8	0.00012	0.0625	0.0031
P9	0.00008	0.0625	0.0031

*Special Order

PARTS & MATERIAL LIST

QUANTITIES ARE FOR ONE (1) UNIT ONLY

Item	Number	Qty	Description	Material
1	527588-0001	1	YOKE	STEEL
2	526041-0001	1	SPRING CASE	STEEL
3	526042-0001	1	PRESSURE CASE	STEEL
4	510031-0149	6	SPRING	17-7 SST
5	512698-0002	1	DIAPHRAGM	BUNA-N
6	512883-0001	1	RETAINER DIAPH.	STEEL
7	527448-0001	1	STEM	316/316L SST
8	512882-0001	1	PISTON	ALUMINUM
9	400013-0085	1	SCREW 5/16-24	STEEL
10	527628-0001	1	NUT, TRAVEL STOP	300 SERIES SST
11	527589-0001	1	STEM CONNECTOR	17-4 PH SST
12	512879-0003	1	TRAVEL INDICATOR	NYLON
13	520391	1	CONNECTOR 10-32	316/316L SST
14	400013-0002	10	SCREW 5/16-18	300 SERIES SST
15	430004-0021	12	LOCK WASHER	300 SERIES SST
16	410001-0060	10	NUT 5/16-18	300 SERIES SST
17	430002-0107	24	WASHER 5/16	300 SERIES SST
18	512880-0001	1	UPPER BUSHING	NYLATRON
19	460019-0001	1	LOWER BUSHING	POLYMER
20	490018-0003	1	O-RING	ELF NITRILE
21	512712-0001	1	GASKET	CARBON/NITRILE
22	527233-0004	1	TRAVEL SCALE	ALUMINUM
23	400006-0056	1	SET SCREW	300 SERIES SST
24	512923-0001	1	NAMEPLATE	300 SERIES SST
25	526037-0001	1	VENT PLUG	PLASTIC
26	526119-0002	6	SCREW 1/4-20	STL/FLURO
27	410001-0058	1	NUT 5/16-24	300 SERIES SST
28	400001-0013	2	SCREW 6-32	300 SERIES SST
29	410011	1	NUT 10-32	300 SERIES SST
30	527432-0001	1	WASHER THRUST	STEEL
31	430004-0014	6	LOCK WASHER 1/4	300 SERIES SST
32	512717-0001	1	CAUTION DECAL	MYLAR
33	512914-0002	1	DECAL	VINYL/MYLAR
34	544489-0001	1	PACKING SET	TORLON & PFA
35	522622-0003	1	PACKING GLAND	300 SERIES SST
36	529048-0001	1	BODY & BONNET	17-4 PH SST
37	526328-0001	1	YOKE LOCK NUT	316/316L SST
38	523185-0003	1	ADAPTOR	17-4 PH SST
39	522774-0003	1	FOLLOWER	17-4 PH SST
40	522569	1	ADAPTOR LOCK	BRASS
41	400006-0045	1	SET SCREW	300 SERIES SST
42	522694-0003	1	LOWER ADAPTOR	17-4 PH SST
43a	SEE NOTE 1	1	INNERVALVE	
43b	SEE NOTE 1	1	SEAT	
44	500458-0025	---	GREASE	-----
45	527624-0002	1	SPRING SPACER	PVC
46	528911-0001	1	SPACER	300 SERIES SST
47	400013-0088	2	SCREW	300 SERIES SST
48	410001-0072	2	NUT	18-8 SST
49	501658-0001	1	CAP	VINYL

Stainless Steel Actuator and hardware are available for explosion-proof requirements.

Stellite® is a registered trademark of the Deloro Stellite Group.
 Torlon® is a registered trademark of Amoco Performance Products, Inc.
 Copyright 2010, Badger Meter, Inc. All rights reserved.

Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding contractual obligation exists.

Badger Meter | P.O. Box 245036, Milwaukee, Wisconsin 53224-9536
800-876-3837 | infocentral@badgermeter.com | www.badgermeter.com