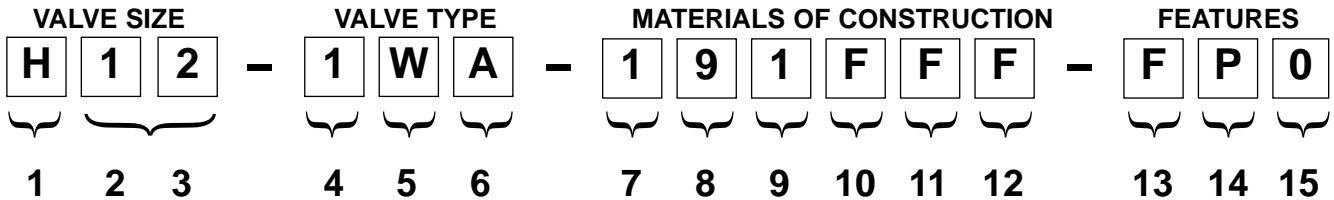


FLOWSEAL-Butterfly Valves Series HP

Model Fire-Flow

Model Numbers



1.*1 Type H = Flowseal HP

2, 3. Size Code	
02 = 2" (DN 50)	14 = 14" (DN 350)
25 = 2 1/2" (DN 65)	16 = 16" (DN 400)
03 = 3" (DN 80)	18 = 18" (DN 450)
04 = 4" (DN 100)	20 = 20" (DN 500)
05 = 5" (DN 125)	24 = 24" (DN 600)
06 = 6" (DN 150)	30 = 30" (DN 750)
08 = 8" (DN 200)	36 = 36" (DN 900)
10 = 10" (DN 250)	42 = 42" (DN 1000)
12 = 12" (DN 300)	48 = 48" (DN 1200)

4. Body Class Code	
0 = 150 PSI Max. Diff. Pressure	
1 = ANSI 150	
3 = ANSI 300	
6 = ANSI 600	

5. Body Type Code	
W = Wafer	
L = Lugged	

6. Shaft Design Code	
A = Straight	
2" - 24" ANSI 150	
2" - 12" ANSI 300	
2" - 8" ANSI 600	
C = Balanced	
30" - 48" ANSI 150	
14" - 30" ANSI 300	
10" - 16" ANSI 600	

7. Body Material Code	
1 = Carbon Steel	
2 = 316 SS	
3 = Monel	
4 = Alloy 20	
5 = Alum Bronze MIL-B-24480	
8 = Alum Bronze B148 ASTM C958	
H = Hastelloy C	
X = Special	

8. Disc Material Code	
0 = Alum Bronze/ENP B148 C958	
2 = 316 SS	
3 = Monel	
4 = Alloy 20	
5 = Alum Bronze MIL-B-24480	
7 = 316 SS Nitrided	
8 = Alum Bronze B148 ASTM C958	
9 = 316 SS/ENP	
H = Hastelloy C	
J = Hastelloy C/ENP	
X = Special	

9. Shaft Material Code	
1 = 17-4PH SS	
2 = 316 SS (Note 2)	
3 = Monel	
4 = Alloy 20	
6 = Inconel 718/750	
7 = Ferralium A479	
0 = Nitronic 50	
H = Hastelloy C	
X = Special	

10. Seat Material Code	
T = TFE	
R = RTFE	
L = Polyethylene (UHMWPE)	
F = Fire-Flow (TFE & Metal)	
B = Fire-Flow (RTFE & Metal)	
M = Inconel	
S = 300 SS	
C = Fire Flow (TFE & Monel)	
J = Fire-Flow (RTFE & Monel)	
H = Fire-Flow (TFE & Hastelloy C)	
K = Fire-Flow (RTFE & Hastelloy C)	
X = Special	

11. Packing Material Code	
T = TFE	
G = Graphite	
F = Fire-Flow	
X = Special	

Note *1: „H“ means only for identification Flowseal HP Description on the nameplate without „H“

Note 2: Use of 316 SS shaft will lower shutoff differentials. Data sheet Pressure / Temperature Ratings

FS-HP/DB-0003-GB/02.02/GP



12. Bearing Material Code	
G	= Glass Backed TFE
H	= 316 SS Backed TFE
F	= Fire-Flow (Garfil & 316 SS)
S	= Stainless Steel Nitrided
B	= Bronze
K	= Monel
J	= Hastelloy C Backed TFE
X	= Special

13. Actuator Type Code	
F	= Bare Shaft (Order to Crane "B")
H	= Ratchet Handle
G	= Worm Gear (Order to Crane "3")
L	= Ratchet Handle w/Lock
T	= Throttle
X	= Other

14, 15. Special Feature Code	
P0	= Standard unidirectional Dead-End Service (PED)
A0	= Oxygen Service
B0	= Bi-Directional
C0	= Chlorine Service
E0	= Bi-directional Dead-End Service (PED)
F0	= Flat Face
M0	= Mil-V-24624
N0	= NACE-Construction
S0	= 60-125 AARH Facing
V0	= Vacuum Service
X0	= Special Feature Further Description Required

Note: Please use the code „P0“ or „E0“ when ordering CE Marked Products according PED

Bold = Standard materials

Example: H121WA191FFFF00

TYPICAL SPECIFICATION

1.0 Scope

This specification covers the design and testing of high pressure offset seat butterfly valves.

2.0 Applicable Standards

The following standards shall apply

ANSI B16.5: Pipe Flanges and Flanged Fittings (24" size and smaller).

ANSI B16.34: Valves-Flanged and Buttwelding End.

MSS SP-25: Standard Marking System for Valves, Fittings, Flanges and Unions.

MSS SP-61: Pressure Testing of Steel Valves.

MSS SP-68: High Pressure-Offset Seat Butterfly Valves.

API 609: Butterfly Valves, Lug-Type and Wafer-Type.

API 607: Fire Test for Soft-Seated Quarter Turn Valves.

3.0 Design Requirement

3.1 Valves shall be High Performance Butterfly with offset seat and eccentric shaft. They shall be capable of sealing against full differential pressure in either flow direction.

3.2 Valve seat shall be both self and pressure energized with an elastomeric core. The self energizing member shall be isolated from the line media.

3.3 Valves shall have retained top and bottom low friction bearings.

3.4 Shaft design shall be single or dual piece.

3.5 Retainer rings must be recessed in the body so that the line gasket prevents any potential external leakage.

3.6 Valves shall have internal stop to prevent disc over-travel.

3.7 Valves shall be Flowseal or approved equal.

4.0 Materials

4.1 Valves shall be constructed of new material.

4.2 Carbon steel valves shall be constructed from materials below:

4.2.1 Body-ASTM A105 or A216 Gr. WCB.

4.2.2 Disc-ASTM A182 F316 or A351 Gr. CF8M.

4.3 Stainless steel valves shall be constructed from materials below:

4.3.1 Body-ASTM A182 Gr. F316 or A351 Gr. CF8M.

4.3.2 Disc-ASTM A182 Gr. F316 or A351 Gr. CF8M.

5.0 Inspection and Test

5.1 Valves shall be hydrostatically shell tested per ANSI B16.34 and MSS SP-61.

5.2 Valves shall be seat tested per MSS SP-61. No leakage is permitted for resilient seated valves.

5.3 API 598 testing available upon request.

5.4 Flowseal Fire-Flow™ valves qualified to API 607 fire test standard.

CRANE®