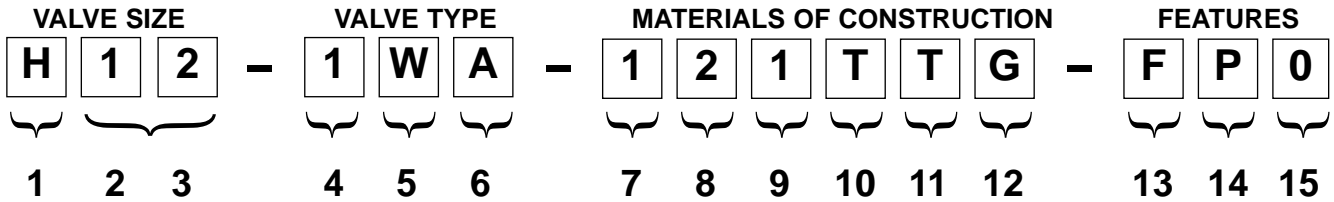


FLOWSEAL-Butterfly Valves Series HP

Model Soft Seat

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 =	Ferrallium 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)
O =	Steam Seat
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. Consult factory

FS-HP/DB-0002-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: H121WA121TTGF00

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.

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 A 182 Gr. F316 or A351 Gr. CF8M.
 - 4.3.2 Disc-ASTM A182 Gr. F316 or A351 Gr. CF8M.
- 4.4 Shafts shall be ASTM A564 type 630 H 1150 or 316 SS.

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.

