

Model 5800 Piston Check Valve

The Model 5800 Piston Check Valve (Figure 1) is Made for the prevention of gas or liquid backflow. Some common applications for this valve are gas and liquid pipelines, air or gas compressors, Production leases, or safety systems. The variety of end Connection styles makes the piston check valve adaptable to almost any application.

Features:

- **Non - slamming Piston** :- A "check assembly" working in conjunction with an "orifice plug" Installed into the piston helps to prevent "slamming" of the piston into the valve seat.
- **Simple Maintenance** :- The Model 5800 valve Internals simply lift out once the bonnet has been removed. The seat design makes it simple to remove or install without the hassle of screw threads or having the seat machined integral to the body.
- **Smooth Opening** :- A self-lubricating piston seat and quality workmanship combine for smooth, Consistent operation.
- **NACE MR-01-75** :- Optional materials of Construction are available that comply with NACE MR-01-75 specifications for sour gas applications.



Figure 1. Model 5800 Piston Check Valve

SPECIFICATIONS:**Available Body Sizes**

- 2.00" (50mm)
- 3.00" (80mm)
- 4.00" (100mm)

End Connections / Pressure Ratings

- FNPT 3750 Psig (259 bar)
- 150# RF 290 Psig (20 bar)
- 300# RF 750 Psig (52 bar)
- 600# RF 1500 psig (103 bar)
- 600# RTJ 1500 psig (103 bar)
- 900# RF 2250 psig (155 bar)
- 900# RTJ 2250 psig (155 bar)
- 1500# RF 3750 psig (259 bar)
- 1500# RTJ 3750 psig (259 bar)

Temperature Limits

- Standard Valve Configuration:
20° to 400° F (-29° to 204° C)
- Modified Valve Configurations available
for the Following temperature limits.
Consult Factory. -50° to 600° F (-46° to
316° C)

(1)

Maximum pressure ratings @ 100° F (38°C)

Maximum Flow Coefficients

- 2" Body: 70 Cv
- 3" Body: 128 Cv
- 4" Body: 198 Cv

Materials of Constructions (Std Configuration *)

- Body ASTM A216.WCC C.S.
- Bonnet ASTM A516. Gr. 70 C.S.
- Body Studs ASTM A193. Gr. B7
- Stud Nuts ASTM A194. Gr. 2H
- Pipe Plug ASTM A105 C.S.

Internals:

- Plug 316 SST
- Plug Insert (Optional) TFE or Carbide
- Seat 316 SST
- Cage 17-4Ph SST H1150M
- Guide 316 SST
- Spring 316 SST
- Ball check Assembly 316 SST
- Orifice Plug 316 SST
- Piston Seal PTFE / Elgiloy
- Gaskets 304 SST / Grf
- Lifting Screw SST

Approximate Shipping Weights, Pounds

End Connections						
Valve Size	NPT	150# Flg	300# Flg	600# Flg	900# Flg	1500# Flg
2.00	80	86	102	115	126	137
3.00	N/A	125	135	138	162	252
4.00	N/A	205	215	226	257	409

Approximate Shipping Weights, Kg

End Connections						
Valve Size	NPT	150# Flg	300# Flg	600# Flg	900# Flg	1500# Flg
2.00	36	39	46	52	57	62
3.00	N/A	57	61	63	73	114
4.00	N/A	93	98	103	117	186

Model Number Information

Sample Model Number: 5800- 2 F 6 - G S - 3 S G

BODY SIZE		CODE
2.00"		2
3.00"		3
4.00"		4
END CONNECTIONS		CODE
Female NPT		S
Raised Face (RF) Flange		F
Ring Type Joint (RTJ) Flange		J
Other		X
ANSI CLASS (PRESSURE RATING)		CODE
150 (275 psig)		1
300 (740 psig)		3
600 (1480 psig)		6
900 (2220 psig)		9
1500 (3750 psig)		5
Other		X
MATERIALS OF CONSTRUCTION		CODE
Carbon Steel – Standard Service		-
Carbon Steel – NACE MR-01-75		N
BODY STYLE		CODE
Globe		G
Globe with Drain		D
LOAD SPRING / GASKETS		CODE
316 SST – Spring / 304/Grt Gaskets		S
Inconel – Spring / Inc/Grt Gaskets		N
SPECIAL BODY CONFIGURATION		CODE
Mallard F – F (ANSI Control Valve) ISA S75.03, S75.16		-
Other – Non - Standard F- F, to be specified on order		X
TRIM MATERIAL		CODE
Tungsten Carbide		2
316 Stainless Steel		3
316 Stainless Steel with Alloy 6 Overlay		6
316 Stainless Steel with TFEG Plug Insert		8
Other		X
PISTON SEAL		CODE
TFE/Elgiloy Spring Energized		S
Other		X
SERVICE APPLICATION		CODE
Gas		G
Liquid		L

While this information is presented in good faith and believed to be accurate, Mallard Control Company does not guarantee results based upon such information. Mallard Control Company reserves the right to change the design or specifications of these products without notice.

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