

The Model 5600R is a spring loaded, self-operated Pressure Relief Valve, available in 1" and 2" sizes and is built to withstand the most difficult processes and environments. It is offered in both low-pressure and high-pressure constructions, and is designed for inlet pressures up to 1500 psig and outlet pressures from 3 to 250 psig.

Features:

- Easy Maintenance
- Variety of Pressure Range Settings
- Rugged Construction
- Excellent Controllability
- NACE MR-01-75 Compliance Option

Specifications:

End Connections

1" NPT Female
2" NPT Female

Relief Pressure Settings:

Low-Pressure¹

- 3 to 8 psig (0.2 to 0.5 bar)
- 6 to 17 psig (0.4 to 1.1 bar)
- 15 to 22 psig (1.0 to 1.5 bar)
- 20 to 35 psig (1.4 to 2.4 bar)
- 27 to 50 psig (1.9 to 3.5 bar)

High-Pressure²

- 30 to 70 psig (2.0 to 4.8 bar)
- 50 to 95 psig (3.5 to 6.5 bar)
- 75 to 175 psig (5.2 to 12.1 bar)
- 150 to 250 psig (10.4 to 17.3 bar)

Operating Temperature Limits:

-20 to +150°F (-29 to +65°C)

Port Diameters:

1/8"
1/4"
3/8"
1/2"



Materials of Construction:

Body:	Ductile Iron or WCC Steel
Outlet Adapter:	A105 Steel
Diaphragm Adapter:	Ductile Iron or WCC Steel
Spring Case:	Ductile Iron or WCC Steel
Orifice:	Brass or 316 SST
O-ring Holder:	Brass or 302SST
O-ring:	Viton
Valve Carrier:	Brass or 316 SST
Diaphragm:	Buna or Viton (embedded nylon fabric)
Level:	Steel
Diaphragm Connector Head:	Brass or 302 SST

CAUTION - Overpressuring of the 5600R Relief Valve may result in valve damage or personal injury due to failure of pressure containing parts. Avoid overpressuring by providing overpressuring devices to prevent exceeding the operating pressure limits stated in the specifications of this product.

1. The maximum allowable inlet pressure is the relief pressure setting plus 25 psig (1.7 bar).
2. The maximum allowable inlet pressure is the relief pressure setting plus 250 psig (17.0 bar). Example: Setting = 50 psig + 250 psig = 300 psig.

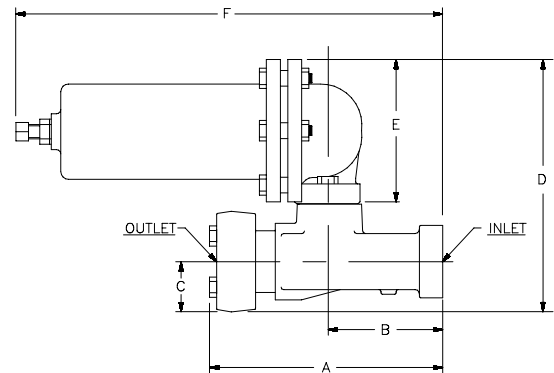
Model Number Information

Sample Model Number: 5600R - 1 H D R - B 3 S

BODY SIZE		CODE
1"		1
2"		2
STYLE		CODE
Low Pressure		L
High Pressure		H
BODY MATERIAL		CODE
Ductile Iron		D
WCC Steel		W
RELIEF PRESSURE RANGE		CODE
Low Pressure:		
3 to 8 psig (0.2 to 0.5 bar)		L
6 to 17 psig (0.4 to 1.1 bar)		M
15 to 22 psig (1.0 to 2.4 bar)		N
20 to 35 psig (1.4 to 2.4 bar)		P
27 to 50 psig (1.9 to 3.5 bar)		Q
High Pressure:		
30 to 70 psig (2.0 to 4.8 bar)		R
50 to 95 psig (3.5 to 6.5 bar)		S
75 to 175 psig (5.2 to 12.1 bar)		T
150 to 250 psig (10.4 to 17.3 bar)		W
TRIM MATERIAL		CODE
Brass		B
Stainless Steel		S
PORT DIAMETER		CODE
1/8"		1
1/4"		2
3/8"		3
1/2"		4
OPTIONS		CODE
None		S
NACE MR-01-75		N

DIMENSIONS:

5600R High Pressure						
Body Size	A	B	C	D	E	F
1"	7.38"	3.69"	1.19"	7.62"	4.69"	15.88"
2"	7.88"	3.94"	2.00"	8.19"	4.69"	16.38"
5600R Low Pressure						
Body Size	A	B	C	D	E	F
1"	7.38"	3.69"	1.19"	10.31"	7.19"	15.38"
2"	7.88"	3.94"	2.00"	11.00"	7.19"	16.38"



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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