

VACUUM SEAL-OFF VALVES AND VALVE OPERATORS

SV1 SERIES

NON RELIEVING



APPLICATIONS

- High Vacuum Tanks
- High Vacuum Dewars
- Low Pressure Gas Systems
- Vacuum Insulated Cryogenic Piping Systems
- Cold Box Vacuum Systems



FEATURES

- Vacuum Tight Seal
- Tamper Resistant
- Easy Access to Vacuum
- Functional & Reliable
- Full Flow Design
- Low Profile & Compact Design

Connection:

Valve Butt Weld
 Operator ISO Flange or Tube

Valve Size:

1/4" to 1"



OPERATING RANGES

Temperature..... -20° F to +150° F
 (-29° C to +66° C)

Max. Operating Pressure 25 PSIG



TECHNICAL DATA

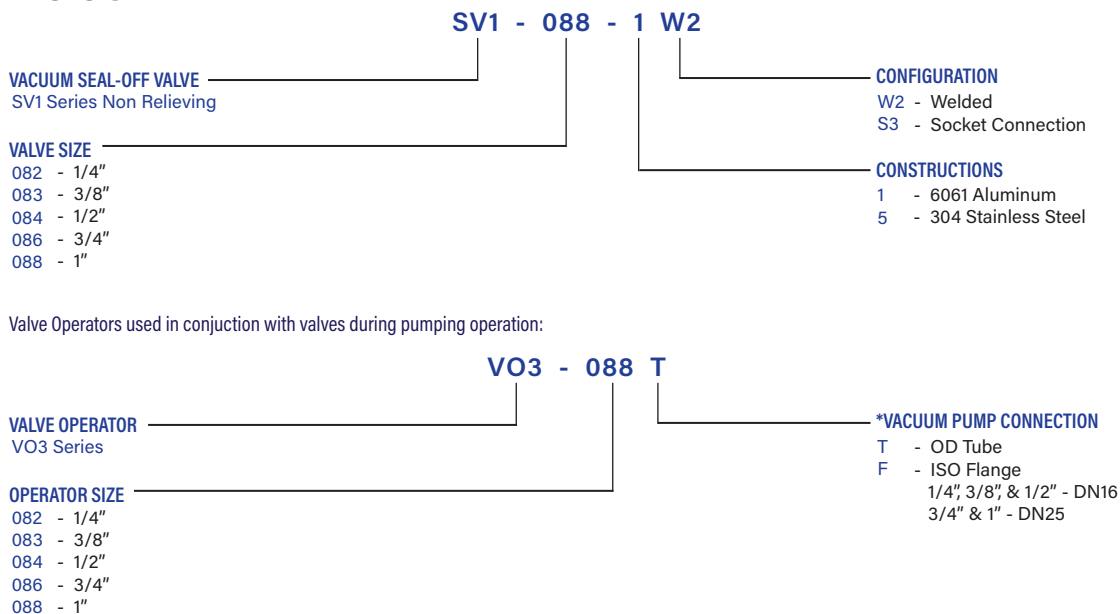
Materials of Construction:

Body	300 Series S/S or 6061 Aluminum
Plug	Brass (1" Valve Plug 300 Series S/S)
Disc	300 Series S/S
O-ring	Viton
Cap	Plastic - 1/4" & 3/8"
	300 Series S/S - 1/2", 3/4", & 1"

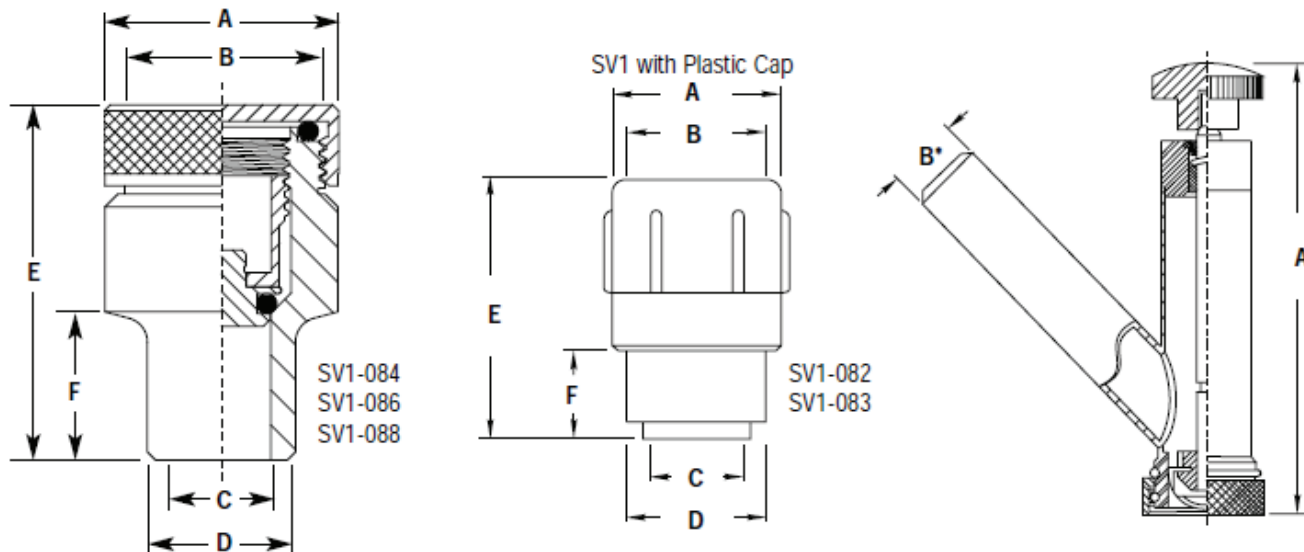
Testing:

Seat Leakage Mass spec. less than
 1x10⁻⁹scc GHe/sec
 (Exclusive of O-ring Permeability) at Ambient Temp.

ORDERING GUIDE



DIMENSIONS



SV1 SERIES VALVE DIMENSIONS

Part No.	A	B	C	D	E	F
SV1-082-	0.75	0.44	0.31	0.63	1.30	0.38
SV1-083-	1.00	0.75	0.50	0.88	1.50	0.63
SV1-084-	1.19	1.06	0.50	0.75	1.82	0.75
SV1-086-	1.19	1.38	0.75	1.00	2.00	0.75
SV1-088-	1.75	1.63	1.00	1.25	2.50	0.94

VO3 SERIES OPERATORS
STAINLESS STEEL DIMENSIONS

Part No.	A	B
VO3-082-	4.38	0.625
VO3-083-	4.38	0.625
VO3-084-	4.38	0.625
VO3-086-	4.63	0.875
VO3-088-	5.00	1.125

*Optional ISO Flange