

VACUUM SEAL-OFF VALVES AND VALVE OPERATORS

SV2 & SV3 SERIES

2 to 6 PSIG RELIEF



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

Testing:

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

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)
Relief Pressure 2 to 6 PSIG



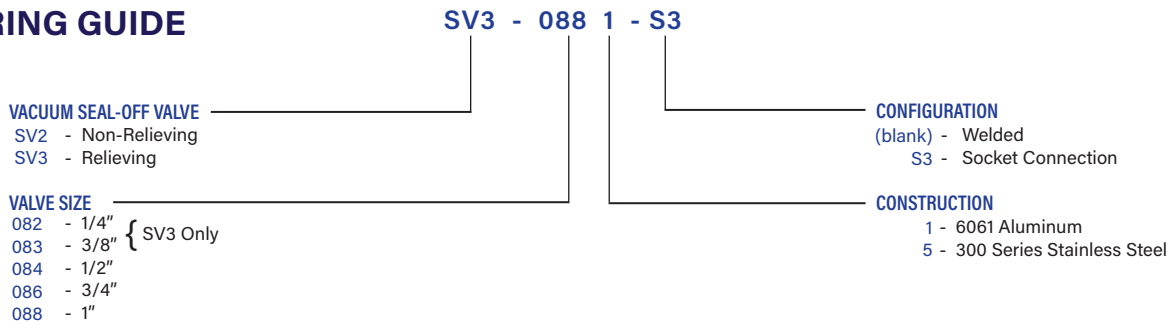
TECHNICAL DATA

Materials of Construction:

Body 300 Series S/S or
6061 Aluminium
Plug Brass (1" valve plug
300 Series S/S)
Disc 300 Series S/S
O-ring Viton®
Cap All SV2, Plastic SV3 -
1/4" & 3/8", Plastic
SV3 - 1/2", 3/4", & 1",
300 Series S/S
Poppet 300 Series S/S or
6061 Aluminium

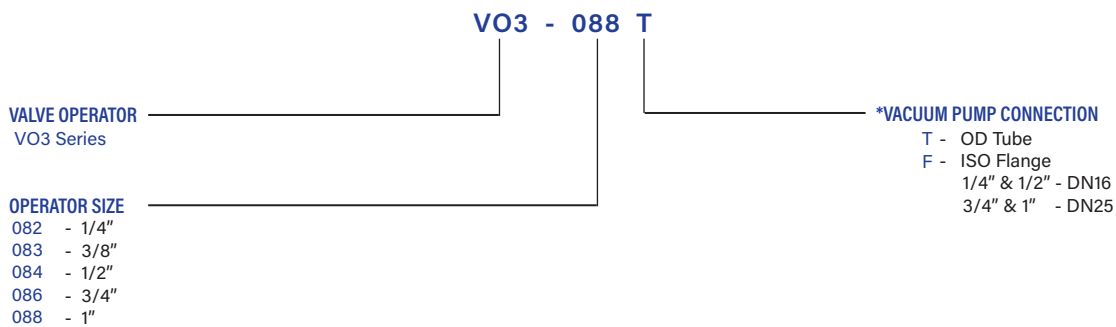
SV2 & SV3 SERIES

ORDERING GUIDE



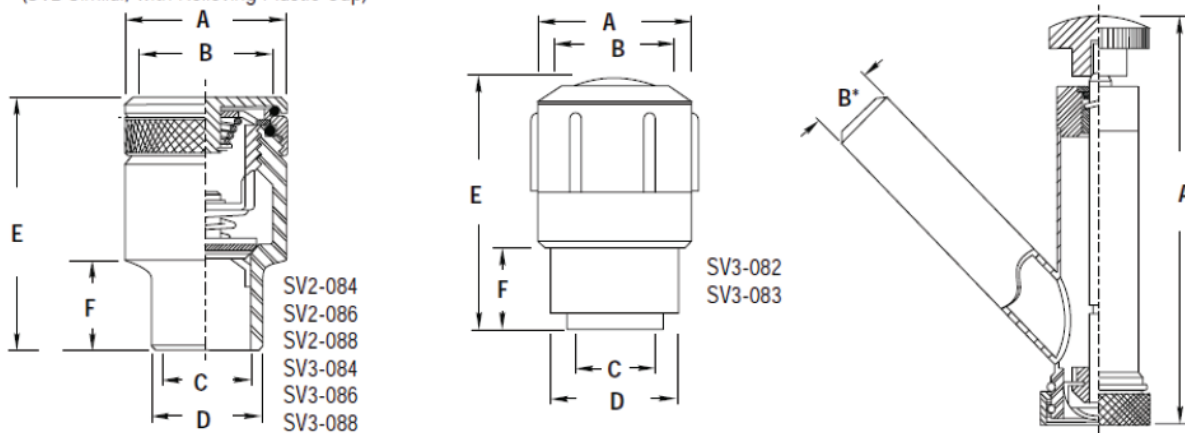
Example: SV3-088-1

Valve Operators used in conjunction with valves during pumping operation:



DIMENSIONS

SV3 Seal-Off Valve with Metal Relieving Cap
(SV2 Similar, with Relieving Plastic Cap)



SV1 & SV3 SERIES VALVE DIMENSIONS

Part No.	A	B	C	D	E	F
SV2-084-	1.25	1.06	0.50	0.75	2.10	0.75
SV2-086-	1.63	1.38	0.75	1.00	2.50	0.75
SV2-088-	1.88	1.63	1.00	1.25	2.84	0.94
SV3-082-	0.75	0.56	0.31	0.63	1.32	0.38
SV3-083-	1.00	0.75	0.50	0.88	1.63	0.63
SV3-084-	1.19	1.06	0.50	0.75	2.00	0.39
SV3-086-	1.54	1.38	0.75	1.00	2.13	0.75
SV3-088-	1.75	1.63	1.00	1.25	2.75	0.88

VO3 SERIES OPERATORS
STAINLESS STEEL DIMENSIONS

Operator 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