

VACUUM SEAL-OFF VALVES AND VALVE OPERATORS

SV1 SERIES

NON RELIEVING



FEATURES

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



APPLICATIONS

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



TECHNICAL DATA

Operating Ranges:

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

Max. Operating Pressure 25 PSIG

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 1x10⁻⁹
scc GHe/sec (Exclusive of
O-Ring Permeability) at
Ambient Temp.

Connection:

Valve Butt Weld
Operator ISO Flange or Tube

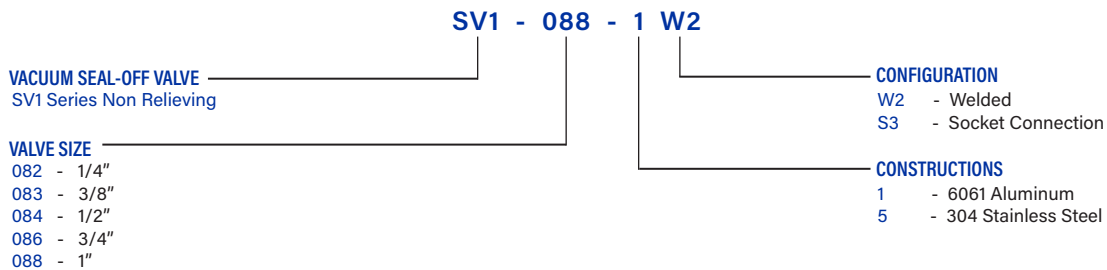
Valve Size:

1/4" to 1"

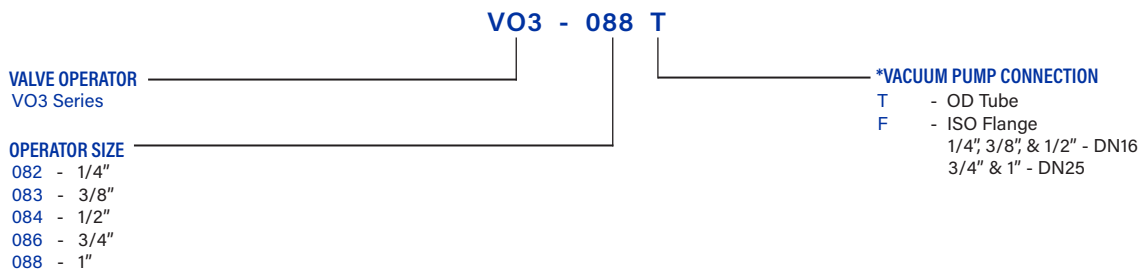


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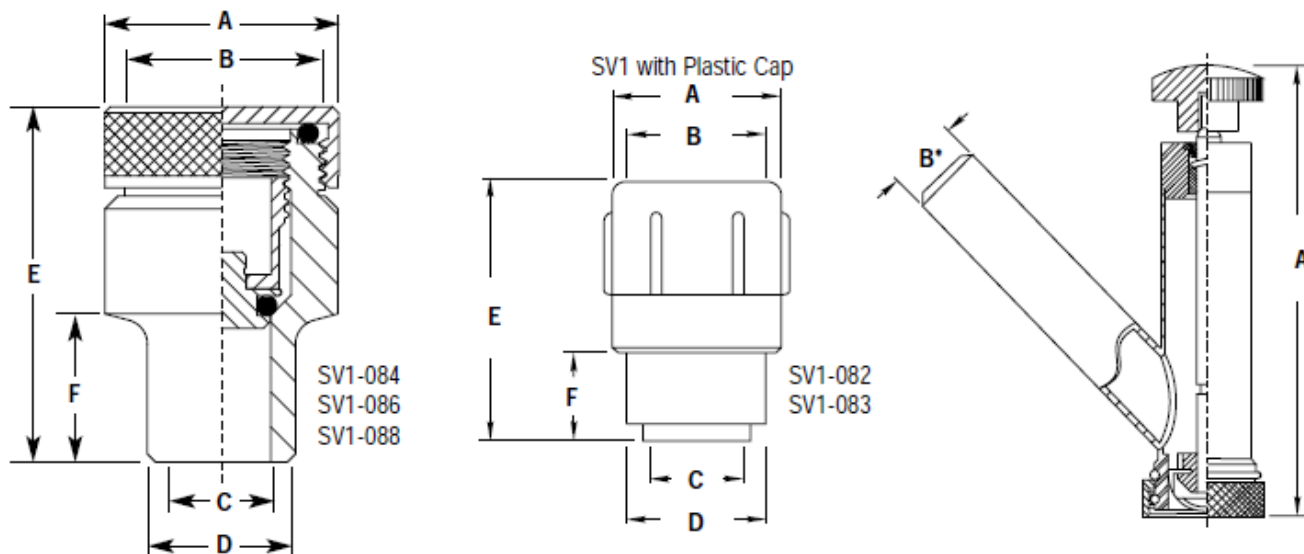
ORDERING GUIDE



Valve Operators used in conjunction with valves during pumping operation:



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