

SV1 SERIES

NON RELIEVING



VACUUM SEAL-OFF VALVES AND VALVE OPERATORS

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

Maximum Working Pressure.....25 PSIG

Materials of Construction

Body300 Series S/S
or 6061 Aluminum

PlugBrass (1" valve plug
300 Series S/S)

Disc300 Series S/S

O-RingViton®

CapPlastic - 1/4" & 3/8"
300 Series S/S - 1/2",
3/4" & 1"

Tests

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

Connection

ValveButt Weld

OperatorISO Flange or Tube

Valve Size

1/4" to 1"

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How To Order

SV1 - 088 - 1 W2

VACUUM SEAL-OFF VALVE
SV1 Series Non Relieving

VALVE SIZE
082 - 1/4"
083 - 3/8"
084 - 1/2"
086 - 3/4"
088 - 1"

CONFIGURATION

W2 - Welded
S3 - Socket Connection

CONSTRUCTION

1 - 6061 Aluminum
5 - 304 Stainless Steel

Valve Operators used in conjunction with valves during pumping operation:

VO3 - 088 T

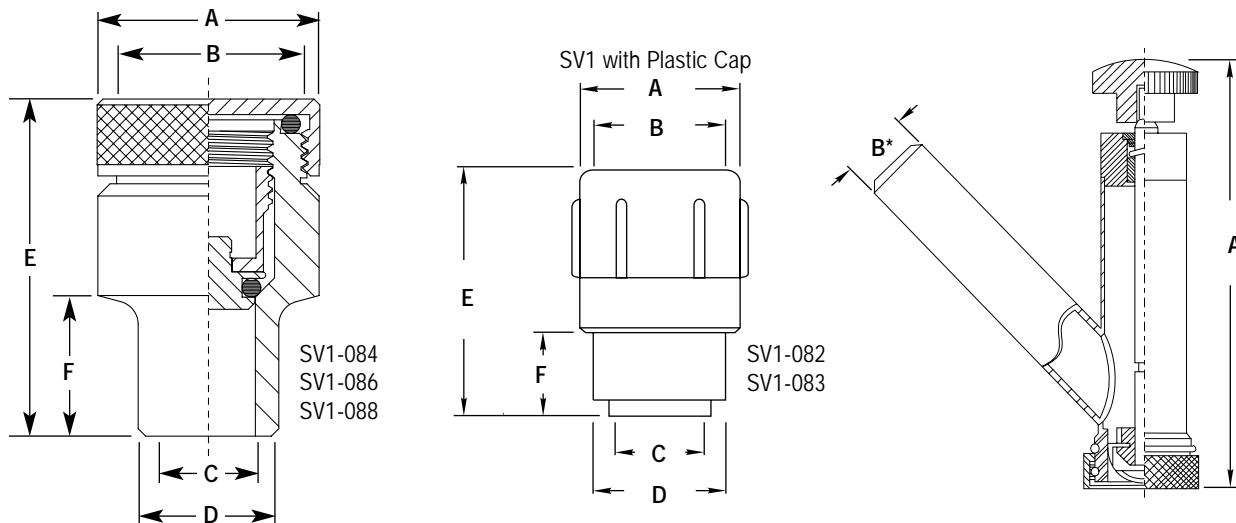
VALVE OPERATOR
VO3 Series

OPERATOR SIZE
082 - 1/4"
083 - 3/8"
084 - 1/2"
086 - 3/4"
088 - 1"

*VACUUM PUMP CONNECTION

T - OD Tube
F - ISO Flange
1/4" 3/8", & 1/2" - DN16,
3/4" & 1" - DN25

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