

FIGURE 50 SERIES SAFETY VALVE

APPLICATION DATA

- Bulk Hauling Truck Tank Trailers
- Bulk Hauling Railroad Tank Cars
- Storage Vessels for Powdered Solids (flour, cement, etc.)

VALVE RATINGS

Madal	Pressure	Temperature °F (°C)
Model	PSIG (bar)	<u> </u>
All	10 to 30	-20 to 225
	(.7 to 2.1)	(-29 to 107)

APPLICABLE CODES

Canadian Registration #0G0591.9C

FIGURE 50 SERIES

SIZES 2" PRESSURES to 30 PSIG at 225°F

- Air, Gas, Vapors and Powdered Solids
- High Capacity
- Tamper Proof Spring Setting
- Weatherproof
- Spring Chamber Isolated from Process Fluid
- Soft Seat Seal
- Bronze or Aluminum Body

Models

- 0050 Bronze Body, Viton Soft Seat
- 0051 Pull Ring on 0050
- 0052 Aluminum Body, Viton Soft Seat
- 0053 Pull Ring on 0052

CODE SELECTION CHART



Model -

Position 1, 2, 3 & 4

0050 = Bronze Body, Viton Soft Seat

0051 = Pull Ring on 0050

0052 = Aluminum Body, Viton Soft Seat

0053 = Pull Ring on 0052

Orifice -

Position 5

Inlet Size -

Position 6 H = 2

Connections -

Position 7

Set Pressure -

Position 8, 9 & 10

_ = Actual Setting LAS - Loosely Assembled[†]

†Spence Certified Assemblers Only



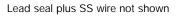
FIGURE 50 SERIES

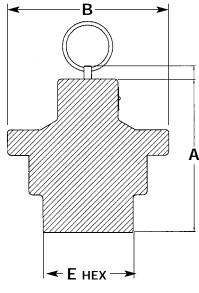
SPECIFICATION

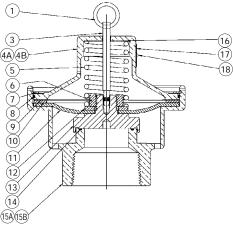
The valve shall meet the ASME Section VIII Code for air services. It shall be "UV" National Board Certified. The valve setting shall be tamper resistant. The valve shall be weatherproof and the diaphragm shall completely seal the spring chamber from the process fluid. The valve shall have an O-ring seat seal for tight shutoff

MATERIALS OF CONSTRUCTION

Ref	Part Name	Material
1	Pull Ring	SST
3	Spindle (0051/0053)	Steel ASTM A108. 12L14
4A	Cover	Bronze ASTM B62
4B	Cover	Aluminum ASTM B 26, A03560, T6
5	Spring	Steel ASTM A228, Plated
6	Disc Nut	Steel, Plated
7	Retaining Ring	Steel, Plated
8	Weather Seal	Viton
9	Wave Spring	Steel, Plated
10	Washer	Steel, Plated
11	Diaphragm	Nylon Reinforced
12	Disc Washer	Plated Steel
13	Disc	ASTM B16, C36000, H02
14	Seat Seal	Viton
15A	Body	Bronze ASME SB62
15B	Body	Aluminum ASTM B26, A03560, T6
16	Fender Washer	Steel, Plated
17	Nameplate	SST
18	Drive Screw	SST







DIMENSIONS* inches (mm) **AND WEIGHTS** pounds (kg)

Model	Inlet	Orifice	Outlet	Α	В	E	Weight
0050ZHZ	2	Z	Atmosphere	53/32	5%	3	7
	(50)			(129)	(136)	(76)	(3.2)
0051ZHZ	2	Z	Atmosphere	6	5%	3	7
	(50)			(152)	(136)	(76)	(3.2)
0052ZHZ	2	Z	Atmosphere	53/32	5%	3	3
	(50)			(129)	(136)	(76)	(1.4)
0053ZHZ	2	Z	Atmosphere	6	5%	3	3
	(50)		.	(152)	(136)	(76)	(1.4)

AIR CAPACITY CHART - MODELS 0050, 0051, 0052, 0053

ASME Section VIII "UV" 90% rated at 10% Slope SCFM (NM3/HR)

SCFM

Set	Orifice Area, in ²
Pressure PSIG	2.011
10*	637
15	752
20	867
25	982
30	1097
1.0	25.3

NM³/HR

Set	Orifice Area cm ²
Pressure Barg	12.97
0.6*	1082
0.8*	1278
1.0*	1473
1.2	1669
0.1	43.0



^{*} Pressure settings below 15 PSIG (1.034 barg) are non code.