



Specification

Nominal size
82.5mm

Tank connection

Flanged: 4 slots equi-spaced on a 145.0/152.4 min/max PCD. See Flange Drilling & Ancillary Parts

Set pressure

From 2 PSI to 75 PSI (0.14 Bar to 5.17 Bar)

Set vacuum

From 0.5"Hg to 26"Hg (0.02 Bar to 0.88 Bar)

Materials

Contact parts: 316 stainless steel

Pressure O ring: Fortyt

Vacuum O ring: Fortyt

Alternatives are available, refer to the Design Options page

Design Conditions

Weight:	6.96 Kg
Design Pressure (MAWP):	5.2 Bar
Test Pressure:	10.2 Bar
Design Temperature min:	-55°C
Design Temperature max:	200°C

NOTE: The working temperature of the pressure and vacuum O rings can decrease the design temperature. The Design Conditions and Section View dimensions are for the specified part number only.

Approval

Design Approval by Lloyds Register of Shipping for valves with a setting of ≥ 25 PSI (1.7 Bar)

WARNING: If you install an approved relief valve ancillary item, such as a flame arrester, cowl, burst disc or baffle, it will decrease the air flow capacity of the relief valve. Thus, you must calculate again to make sure that the decreased air flow capacity of the relief valve and flame arrester/cowl/burst disc/baffle will give sufficient protection to your vessel/system. Refer to Fort Vale for more information.

Flange Drilling & Ancillary Parts

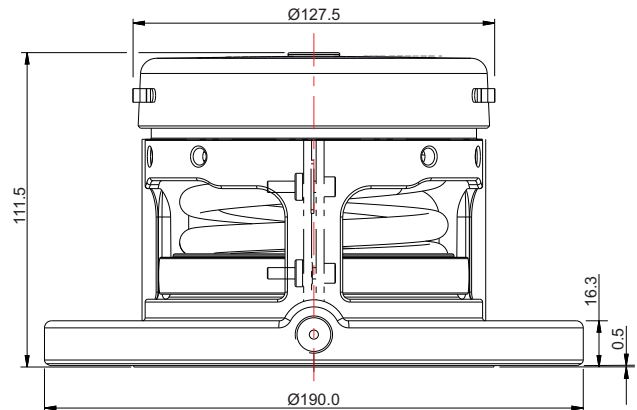
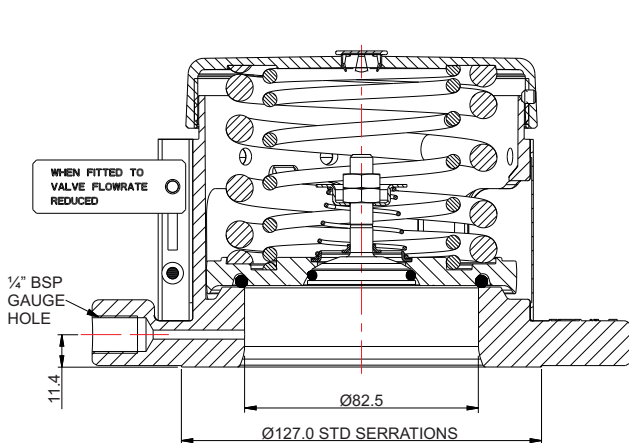
Drilling Spec.	PCD mm	Weld-in flange	Gasket
DIN65 PN10	145.0	176/3250	5005-332
3" Table D	146.1	176/3140	5005-013
DIN80 PN6	150.0	176/3158	5005-334
3" ASA 150	152.4	176/3125	5005-204

Related Parts

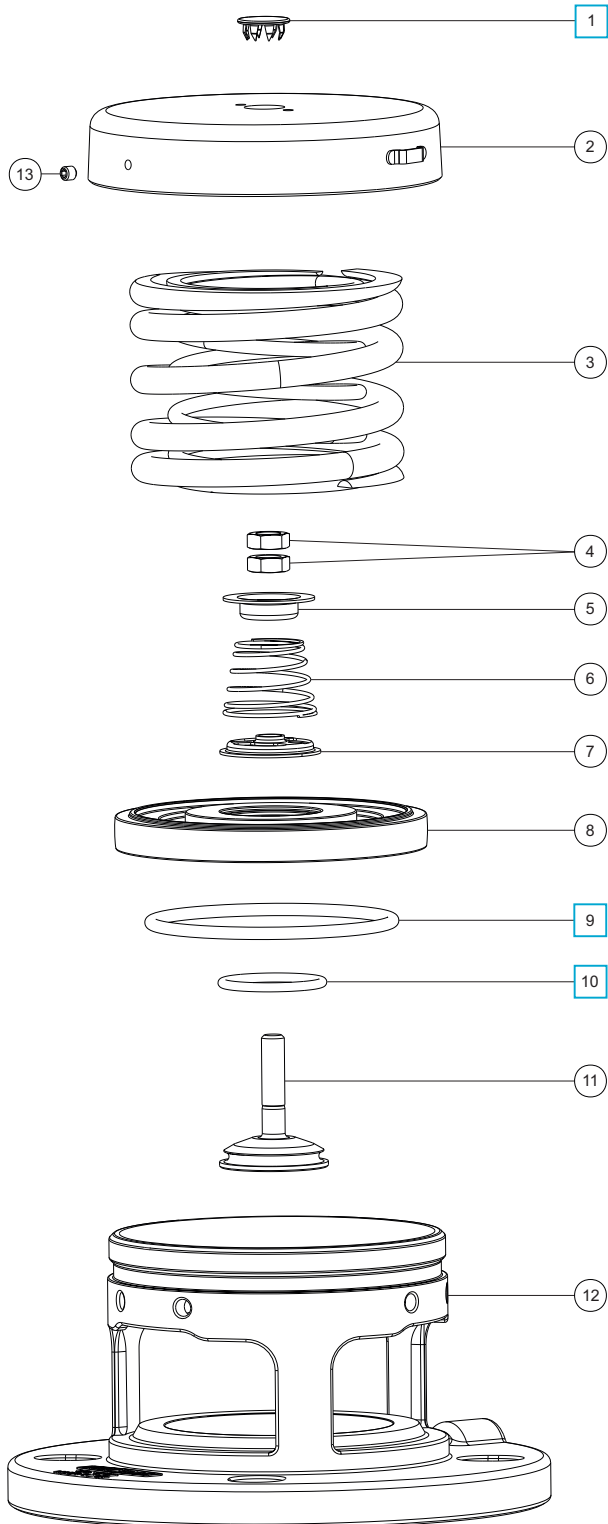
Description	Part No.
0-100 PSI pressure gauge, brass internal parts	921/07BBSP
0-100 PSI pressure gauge, stainless steel internal parts	920/07BBSP
Flame arrester *Warning	176/2920
M16 stud kit: 150 & 152.4 PCD	311/3700
M16 cap screw bolt kit: 145 & 146 PCD	311/3785

Section View

Shown with a flame arrester installed



Parts Drawing



Parts List

Item	Description	Part No.
1	Stainless steel plug	10978 <input type="checkbox"/>
2	Cap *Note	1860/1008XX
3	Pressure spring	Refer to Table 1
4	M8 half nut (2)	5112-004
5	Vacuum spring pad	1860/0005
6	Vacuum spring	Refer to Table 2
7	Spring pad	10986/3
8	Pressure plate *Note	1860/1071XX
9	Fortyt pressure O ring	ORB337F0 <input type="checkbox"/>
10	Fortyt vacuum O ring	5005-108H <input type="checkbox"/>
11	Vacuum poppet	10983V/3
12	Body	1860/19SL
13	Anti-tamper screw	5121-001

NOTE: The valve specification changes the Part No.

Table 1

Std. Pressure Settings	Pressure Spring Part No.
15.0 PSI (1.03 Bar)	6109-0674
31.8 PSI (2.19 Bar)	6104-0048 & 6104-0310
48.0 PSI (3.31 Bar)	6104-0485 (Pair)
53.8 PSI (3.71 Bar)	6104-0570 (Pair)
63.8 PSI (4.40 Bar)	6104-0665 (Pair)

Pressure springs are available from 2 PSI (0.14 Bar) to 75 PSI (5.17 Bar)

Table 2

Std. Vacuum Setting	Vacuum Spring Part No.
6.2"Hg (0.21 Bar)	7104-012

Vacuum springs are available from 0.5"Hg (0.02 Bar) to 26"Hg (0.88 Bar)

Seal Kit

Description	Part No.
All parts marked <input type="checkbox"/> in the Parts List	043/1PVSK