



Specification

Nominal size

DN80

Tank connection

Flanged: 4 slots equi-spaced on a 145.0/152.4 min/max PCD. 1/4" BSP gauge connection.

Refer to Flange Drilling & Accessory Parts

Set pressure

From 0.15 Bar to 5.15 Bar

Materials

Contact parts: 316 stainless steel

Pressure O ring: Fortyt

Alternatives are available, refer to the Design Options page

Design Conditions

Weight:	5.8 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 O ring can change the design temperature limits. 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 ≥ 1.7 Bar.

WARNING: If you install an approved relief valve accessory item, e.g. 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 will give sufficient protection to your vessel/system. Please refer to Fort Vale for more information.

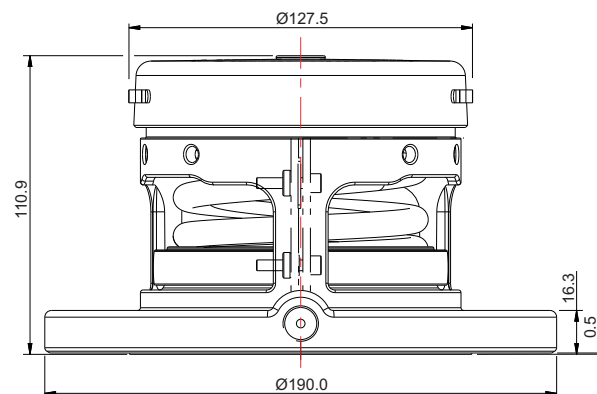
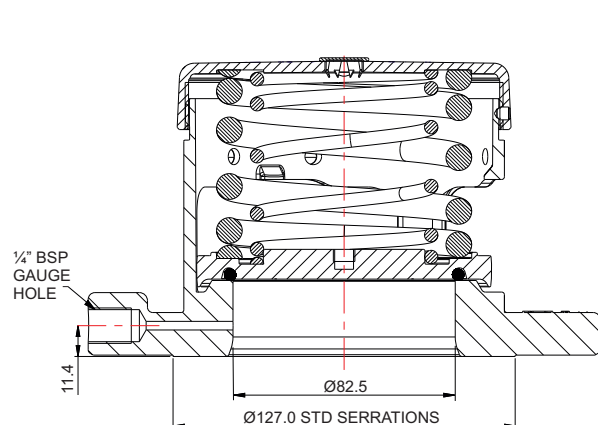
Flange Drilling & Accessory Parts

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
Slotted	145.0-152.4	N/A	5005-930

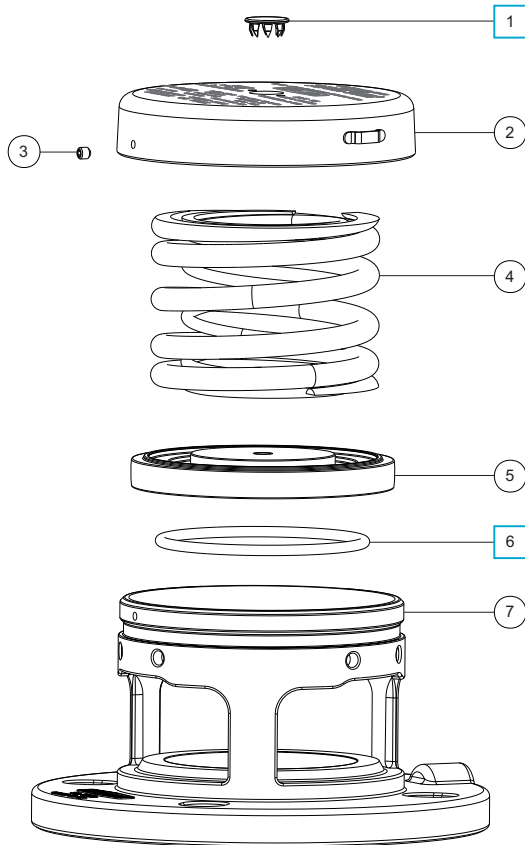
Related Parts

Description	Part No.
0-7 Bar pressure gauge, brass internal parts	921/07BBSP
0-7 Bar 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



Parts Drawing



Parts List

Item	Description	Part No.
1	Stainless steel plug	10978
2	Cap *Note	1860/1008XX
3	Anti-tamper screw	5121-001
4	Pressure spring	Refer to Table 1
5	Pressure plate *Note	1860/1070XX
6	Fortyt pressure O ring	ORB337F0
7	Body	1860/19SL

NOTE: The valve specification changes the Part No.

Table 1

Std. Pressure Settings	Pressure Spring Part No.
2.65 Bar	6104-0112 & 6104-0310
3.00 Bar	6104-0155 & 6104-0310
4.40 Bar	6104-0665 (Pair)

Pressure springs are available from 0.15 Bar to 5.15 Bar

Seal Kit

Description	Part No.
All parts marked in the Parts List	043/1PSK



Specification

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Flanged: 4 slots equi-spaced on a 145.0/152.4 min/max PCD. 1/4" BSP gauge connection.

Refer to Flange Drilling & Accessory Parts

Set pressure

From 0.15 Bar to 5.15 Bar

Set vacuum

From 1 kPa to 88 kPa

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:	5.85 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 change the design temperature limits. 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 ≥ 1.7 Bar

WARNING: If you install an approved relief valve accessory item, e.g. 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 will give sufficient protection to your vessel/system. Please refer to Fort Vale for more information.

Flange Drilling & Accessory Parts

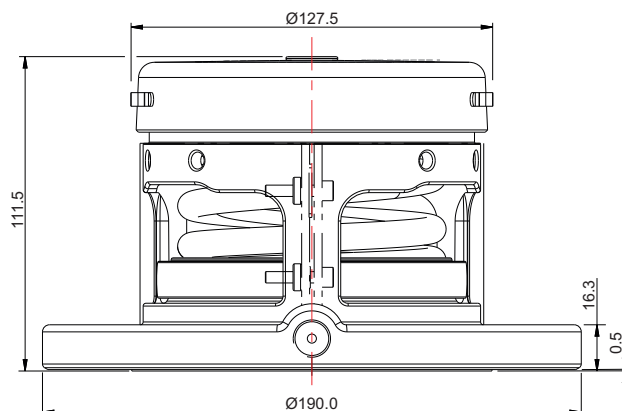
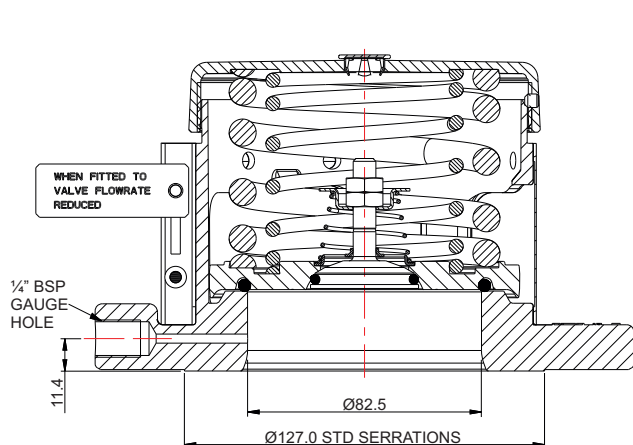
Drilling Spec.	PCD mm	Weld-in flange	Gasket
DIN65 PN10	145.0	176/3250	5005-332
3" Table D	146.1	176/3140	5005-013
DIN80 PN6	150.0	176/3158	5005-334
3" ASA 150	152.4	176/3125	5005-204
Slotted	145.0-152.4	N/A	5005-930

Related Parts

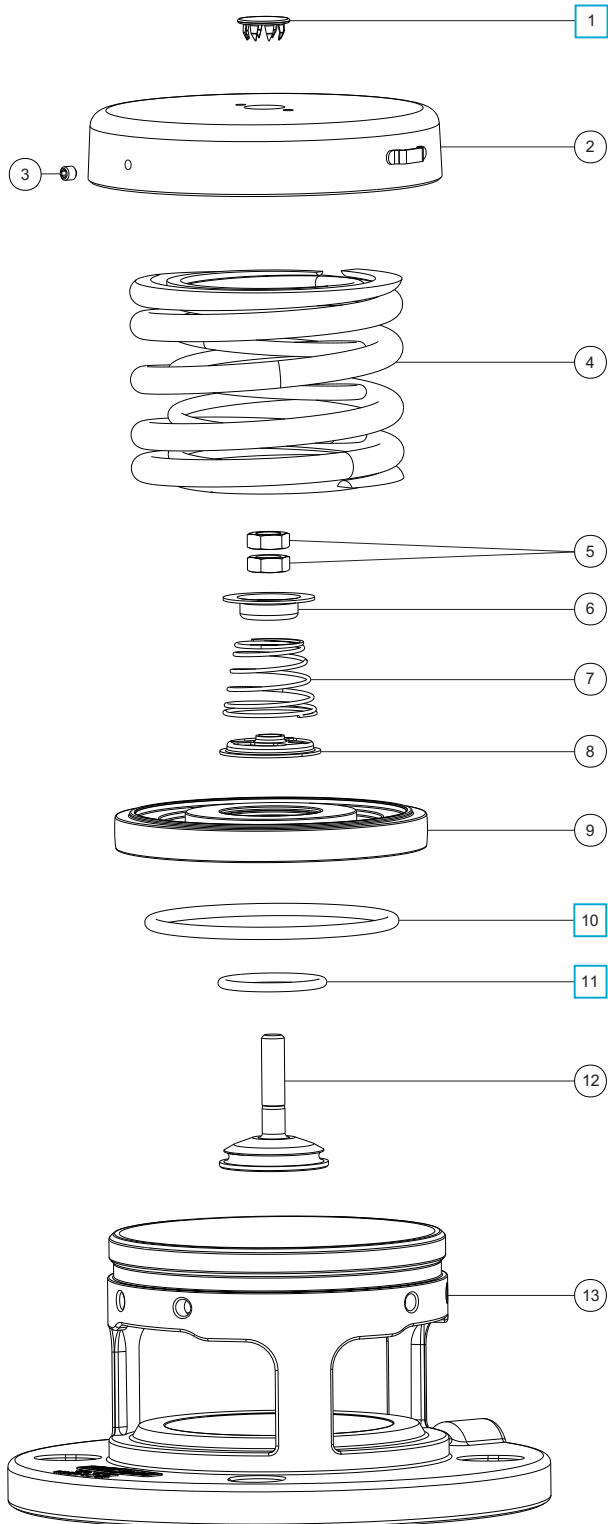
Description	Part No.
0-7 Bar pressure gauge, brass internal parts	921/07BBSP
0-7 Bar pressure gauge, stainless steel internal parts	920/07BBSP
Flame arrester *Warning	176/2920
M16 stud kit: 150 & 152.4 PCD	311/3700
M16 cap screw bolt kit: 145 & 146 PCD	311/3785

Section View

Shown with a flame arrester installed



Parts Drawing



Parts List

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

NOTE: The valve specification changes the Part No.

Table 1

Std. Pressure Settings	Pressure Spring Part No.
2.20 Bar	6104-0048 & 6104-0310
2.65 Bar	6104-0085 & 6104-0310
3.30 Bar	6104-0195 & 6104-0310
4.40 Bar	6104-0665 (Pair)

Pressure springs are available from 0.15 Bar to 5.15 Bar

Table 2

Std. Vacuum Setting	Vacuum Spring Part No.
21 kPa	7104-012

Vacuum springs are available from 1 kPa to 88 kPa

Seal Kit

Description	Part No.
All parts marked in the Parts List	043/1PVSK