1½” BSP MK2 Twinact Relief Valve - Pressure/Vacuum

Part No: 3A/XXXXXX - Metric Settings



Specification

Nominal size
DN40

Tank connection
1½” BSP

Set pressure
From 0.05 Bar to 4.5 Bar

Set vacuum
From 1 kPa to 98 kPa

Properties
With manual vent button

Materials
Contact parts: 316 stainless steel
Pressure O ring: Fortyt (Fig.1) or Viton (Fig.2)
Vacuum O ring: Fortyt (Fig.1) or Viton (Fig.2)
Tank seal: Rubber/PTFE envelope

Alternatives are available, refer to the Design Options page

Design Conditions

Weight: 0.86 Kg

For more Design Conditions, please contact Fort Vale and refer to the parts drawing.

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.

Range

Description	Part No.
Standard valve - pressure/vacuum	3A/XXXXXX
Standard valve - pressure only	3A/XXXX00

NOTE: The valve specification changes the Part No.

Related Parts

Description	Part No.
1½” BSP weld-in socket	600/1010
1½” flame arrester ***Warning**	200/5000
PTFE tank seal	5005-012
Installation C spanner	400/3000

Section View

NOTE: The pressure plate is different for a Fortyt pressure O ring (Figure 1) and a Viton pressure O ring (Figure 2)

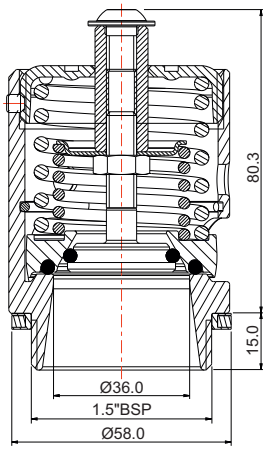


Figure 1. Valve with Fortyt pressure/vacuum O rings

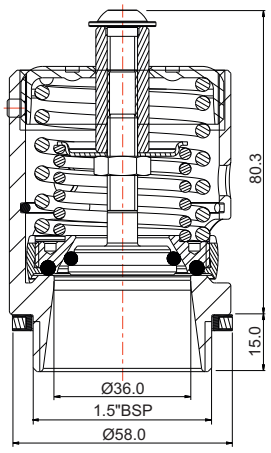


Figure 2. Valve with Viton pressure/vacuum O rings

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Parts Drawing

Figure 1: Fortyt pressure plate/O ring

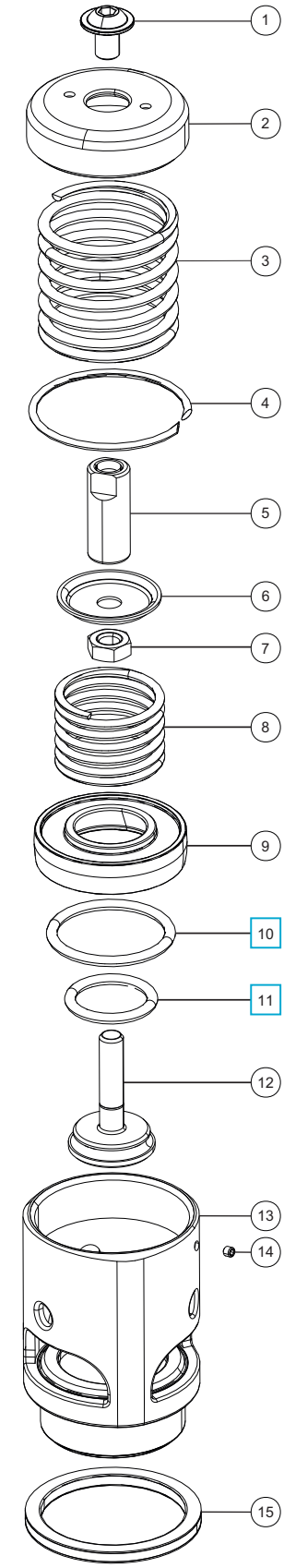
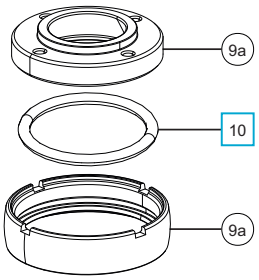


Figure 2: Viton pressure plate/O ring



Parts List

Item	Description	Part No.
1	Flanged button screw	5111-9812
2	Top cap	11004
3	Pressure spring	Refer to Table 1
4	Retaining ring clip	5120-070
5	Spring stem	10984
6	Spring pad	11006
7	M8 half nut	5112-004
8	Vacuum spring	Refer to Table 2
9/9a	Pressure plate *Note	Refer to Table 3
10	Pressure O ring *Note	Refer to Table 4 ☐
11	Vacuum O ring	Refer to Table 4 ☐
12	Vacuum poppet	11003
13	Body	11300
14	Anti-tamper screw	5121-001
15	Rubber/PTFE gasket	5006-006

NOTE: You will need special tools to install an O ring into a pressure plate. We recommend that you order a pressure plate/O ring assembly. Refer to Table 3.

Table 1

Std. Pressure Setting	Pressure Spring Part No.
0.2 Bar	5104-0026
2 Bar	5104-0041

Available settings: 0.05 to 4.5 Bar

Table 2

Std. Vacuum Setting	Vacuum Spring Part No.
2 kPa	5104-760
3 kPa	5104-761
10 kPa	5104-765

Available settings: 1 to 98 kPa

Table 3 - Refer to Note

O Ring Material	Pressure Plate Part No.	Pressure Plate/O Ring Assembly Part No.
Fortyt	(9) 175/0125	175/F125
Viton	(9a) 110/X150	110/0150

Table 4 - Refer to Note

O Ring Material	Pressure O Ring Part No.	Vacuum O Ring Part No.
Fortyt	ORM0340400F0	5005-114
Viton	ORM0340400VR	5005-112

Seal Kit - All parts marked ☐ in the Parts List

Seal Material	Part No.
Fortyt	3A/1PVSK
Viton	3A/0PVSK

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