



## Specification

### Nominal size

DN40

### Tank connection

1½” BSP

### Set pressure

From 0.05 Bar to 4.5 Bar

### 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: 0.84 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 <b>*Warning</b>	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)

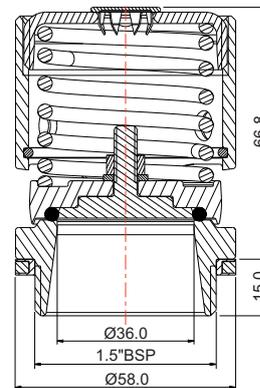
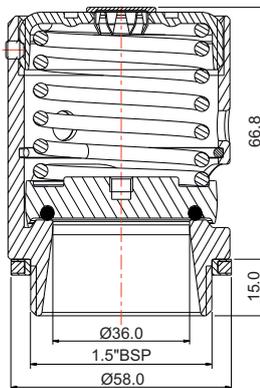
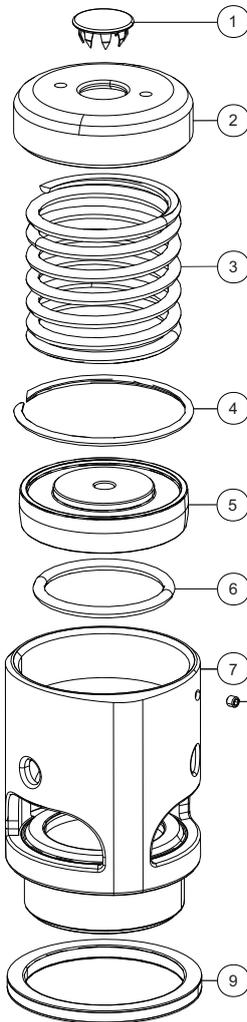


Figure 1. Valve with a Fortyt pressure O ring

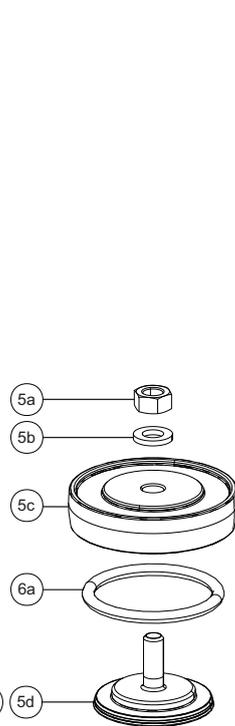
Figure 2. Valve with a Viton pressure O ring

## Parts Drawing

**Figure 1:** Fortyt pressure plate/O ring



**Figure 2:** Viton pressure plate/O ring



## Parts List

Item	Description	Part No.
1	Stainless steel plug	10978
2	Top cap	11004
3	Pressure spring	Refer to Table 1
4	Retaining ring clip	5120-070
5	Pressure plate for a Fortyt O ring *Note	175/X124 Refer to Table 2
5a-d	Composite pressure plate for a Viton O ring	110/0100X Refer to Table 3
6/6a	Pressure O ring *Note	Refer to Table 4
7	Body	11300
8	Anti-tamper screw	5121-001
9	Rubber/PTFE gasket	5006-006

**NOTE:** You will need special tools to install a Fortyt O ring into a pressure plate. We recommend that you order a pressure plate/O ring assembly. Refer to Table 2.

### 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 - Refer to Note

O Ring Material	Pressure Plate Part No.	Pressure Plate/O Ring Assembly Part No.
Fortyt	175/0124	175/F124

### Table 3

Item	Description	Part No.
5a	M6 full nut	5112-012
5b	M6 spring washer	5113-008
5c	Outer pressure plate	110/0100/1
5d	Inner pressure plate	110/0100/2

### Table 4 - Refer to Note

Item	O Ring Material	Part No.
6	Fortyt	ORM0340400F0
6a	Viton	ORB220VR



## 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 <b>*Warning</b>	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)

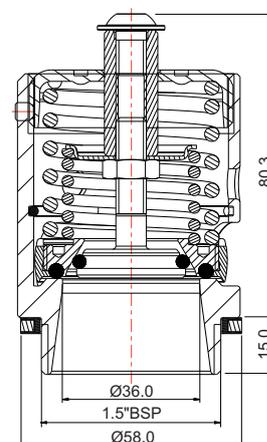
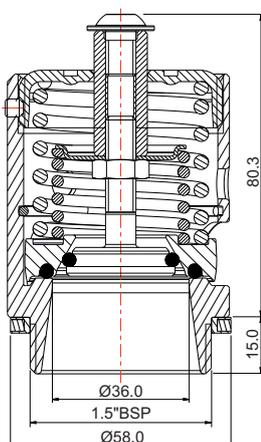


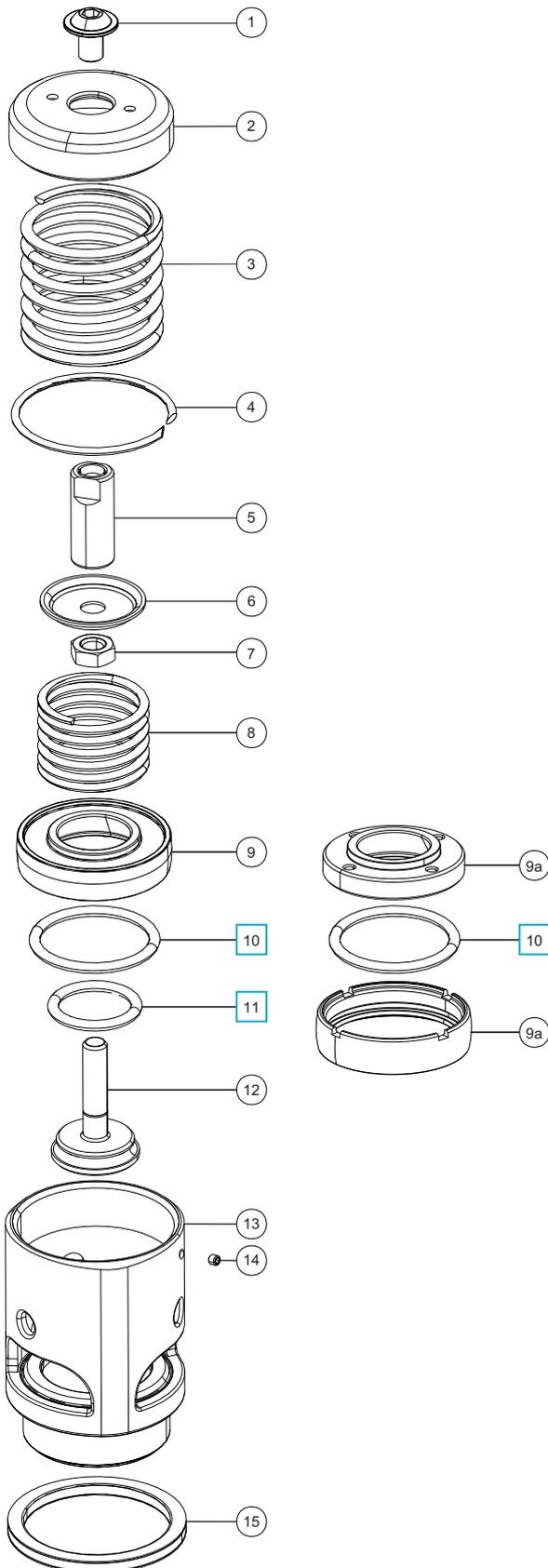
Figure 1. Valve with Fortyt pressure/vacuum O rings

Figure 2. Valve with Viton pressure/vacuum O rings

### 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 <input type="checkbox"/>
11	Vacuum O ring	Refer to Table 4 <input type="checkbox"/>
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	<input type="checkbox"/> 9 175/0125	175/F125
Viton	<input type="checkbox"/> 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