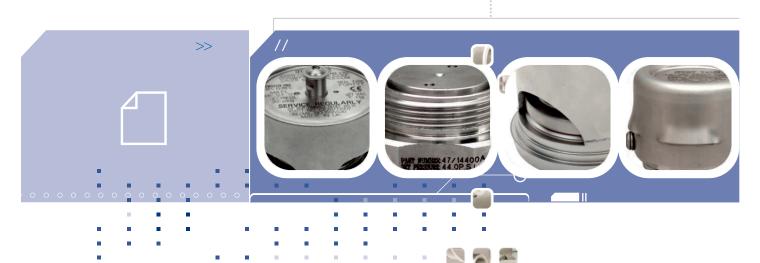
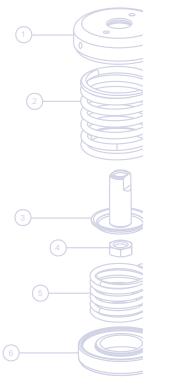


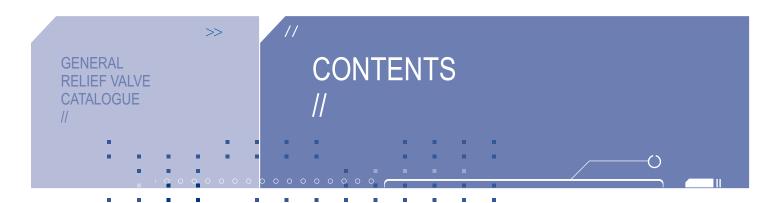


REVISION_02.05.17





The Fort Vale
Range of
Steam, Minnow,
Twinact & Uniact
Relief Valves





| 3/4" STEAM RELIEF VALVES // | PAGE |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 3/4" BSPT Steam Tell-Tale Valve 3/4" BSPT Steam Relief Valve | |
| 1" BSP MINNOW RELIEF VALVES // » Pressure Only » Pressure/Vacuum » Pressure/Vacuum with Ventlock Device | 3/4 5/6 7/8 |
| UNIACT RELIEF VALVES // » 1½" BSP Pressure Only » 1½" BSP Vacuum Only » 1½" Vacuum Only - 50mm DIN11851 connection » 2" BSP Vacuum Only » 2" Vacuum Only - 65mm DIN11851 connection | 9 10 11 12 13 |
| 1½" BSP TWINACT RELIEF VALVES // » Pressure Only » Pressure/Vacuum » 1½" Pressure/Vacuum - 50mm DIN11851 connection | 15/16 17/18 19/20 |
| 2½" BSP TWINACT RELIEF VALVES // » Pressure Only » Pressure/Vacuum » 2½" Pressure/Vacuum - 80mm DIN11851 connection | 21/22 23/24 25/26 |
| RELIEF VALVE ANCILLARIES // » Burst Disc Adaptor » Clamped Gauze » DIN11851 Socket & Nut » Maintenance Tools » Pressure Gauge » Weld-in Socket & Nipple | 27 27 27 28 28 28 |



3/4" BSPT Steam Tell-Tale Valve



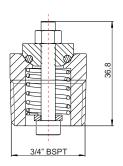
3/4" BSPT Steam Tell-Tale Valve - 3/4" BSPT (taper) male connection. Suitable for a pressure range of between 3 to 150 PSI (0.21 - 10.34 bar). Contact parts manufactured in 316 stainless steel fitted with Viton seal as standard.

Options - extended body version. 3/4" NPT threaded connection available.

Fitting Details



Example shown: 56/0XXX0





Specification



Weight 0.1 Kg
Design Pressure (MAWP) 10.3 Bar (150 PSI)
Design Temperature 200°C (392°F)

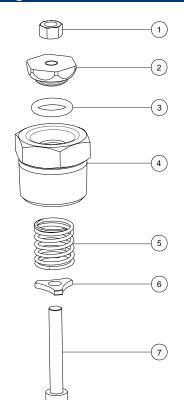
Range



| Part No. | Description |
|----------|---------------------------------|
| 56/0XXX0 | 3/4" BSPT Steam Tell-Tale Valve |
| 52/0XXX0 | 3/4" NPTM Steam Tell-Tale Valve |

Parts Drawing





| Item | Description | Part No. |
|------|------------------|-----------|
| 1 | M5 nut | 5112-010 |
| 2 | Poppet head | 54/00003 |
| 3 | Viton O ring | 5005-650 |
| 4 | Body | 54/00001 |
| 5 | Spring *See Note | 5104-XXXA |
| 6 | Spring locator | 54/00002 |
| 7 | M5 cap screw | 5111-128 |

Note: Part number varies according to specification.

Visual inspection and service (where necessary) is recommended on a regular basis.

In-house test certificates confirming valve settings and serial numbers are supplied as standard.

3/4" BSPT Steam Relief Valve



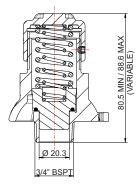
3/4" BSPT Steam Relief Valve - 3/4" BSPT (taper) male connection. Suitable for a pressure range of between 5 to 225 PSI (0.34 to 15.52 Bar). Contact parts manufactured in stainless steel fitted with Viton GFLT seal as standard.

Options - 3/4" NPT threaded connection available. Available with CE marking to PED.

Fitting Details



Example shown: 58/0XXX00



Specification



Weight 0.6 Kg **Design Temperature** -40°C to 200°C (-40°F to 392°F) Min. Re-seal Temperature -25°C (-13°F)

i Operating Instructions available - OPIN10



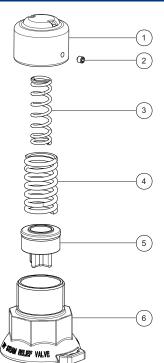
Range



| Part No. | Description |
|--------------|-----------------------------------------|
| 58/0XXX00 | 3/4" BSPT steam relief valve |
| CE58/0XXX00 | 3/4" BSPT steam relief vlv with CE mark |
| 58/0XXX00NPT | 3/4" NPT steam relief valve |

Parts Drawing





| Item | Description | Part No. |
|------|------------------------------------------------|-----------|
| пеш | Description | Fait NO. |
| 1 | Сар | 58/03650 |
| 2 | Setscrew | 5121-001 |
| 3 | Inner spring *See Note | 5104-90XX |
| 4 | Outer spring *See Note | 5104-9XXX |
| 5 | Poppet assembly with Viton GFLT seal *See Note | 58/0362X |
| 6 | Body | 58/03640 |

NOTE: Inner/outer spring part numbers and poppet assembly part number varies depending upon valve set pressure.

Visual inspection and service (where necessary) is recommended on a regular basis.

In-house test certificates confirming valve settings and serial numbers are supplied as standard.



1" BSP Pressure Only Minnow IBC Relief Valve



1"BSP Minnow IBC Relief Valve - 1"BSP male connection. Suitable for a pressure range of between 1 - 45 PSI (0.07 - 3.10 Bar). Contact parts manufactured in 316 stainless steel fitted with Viton seals as standard. Complete with PTFE tank seal.

Options - combined pressure/vacuum version. Alternative seal materials available. Manual vent button option. Ventlock option. 1" BSP female connection available. 1"NPT version.

Specification



| Weight | 0.18 Kg |
|---------|---------|
| vveigni | 0.101 |

Seal Temperature Range:

 Viton
 -20°C to +200°C

 Perfluoroelastomer
 -15°C to +240°C

 EPDM
 -20°C to +150°C

 Silicone
 -20°C to +200°C

Operating Instructions available - OPIN05

Test certificates supplied as standard.

Visual inspection and service (where necessary) is recommended on a regular basis.

Range



| Part No. | Description |
|-------------|-----------------------------------------------------------|
| 65/XXX00 | 1" BSPM standard valve |
| 65/XXX00NPT | 1" NPT standard valve |
| 65B/XXX00 | 1" BSPM valve with manual vent button |
| 65BT/XXX00 | 1" BSPM valve with manual vent button & TIR facility |
| 68/XXX00 | 1" BSPM valve with manual vent button & ventlock facility |
| 66/XXX00 | 1" BSPF standard valve |
| 69/XXX00 | 1" BSPF valve with manual vent button & ventlock facility |

Associated Parts

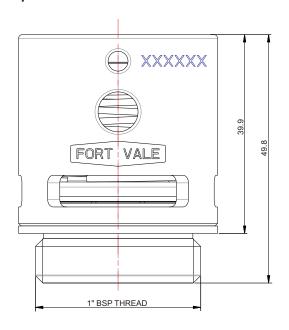


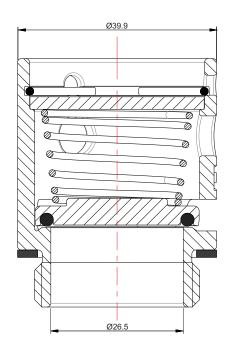
| Part No. | Description |
|----------|----------------------------|
| 600/1025 | 1" tank weld-in socket |
| 600/1026 | 1" tank weld-in nipple |
| 179/0300 | 1" clamped type gauze ring |

Fitting Details



Example shown 65/XXX00

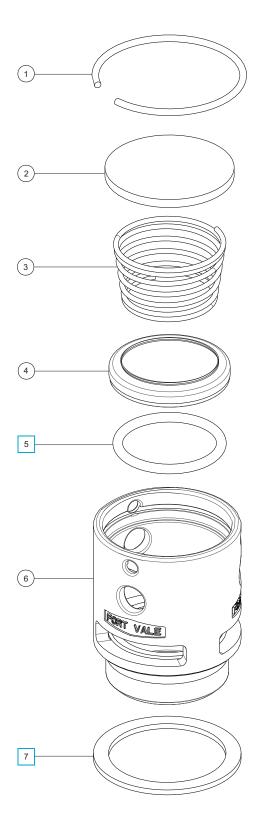




1" BSP Pressure Only Minnow IBC Relief Valve

Parts drawing





| Item | Description | Part No. |
|------|----------------------------------------|------------|
| 1 | Retaining clip (below 10 PSI/0.69 Bar) | 5120-015 |
| | Retaining clip (above 10 PSI/0.69 Bar) | 5120-021 |
| 2 | Top cap | 179/0010 |
| 3 | Pressure spring See Table 1 | 5104-XXX |
| 4 | Pressure plate See NOTE | 179/0050XX |
| 5 | Pressure o ring See Table 2 & NOTE | 5005-XXX |
| 6 | Body | 179/0100 |
| 7 | PTFE gasket | 5005-553 |

SEAL KIT

Part number **65/XPSK** contains all parts marked \square (Part number varies according to seal material).

NOTE - Special tooling is necessary to peen a pressure O ring into a pressure plate. If you need a spare pressure O ring or pressure plate, we recommend that you order a pressure plate with a factory-fit O ring (See Table 2).

TABLE 1

| Common Pressure Settings | Pressure Spring Part No. |
|--------------------------|--------------------------|
| 3 PSI (0.21 Bar) | 5104-653 |
| 6 PSI (0.41 Bar) | 5104-656 |
| 9 PSI (0.62 Bar) | 5104-659 |
| 30 PSI (2 Bar) | 5104-695 |

Pressure springs are available from 1 PSI (0.07 Bar) to 45 PSI (3.10 Bar)

TABLE 2 - See NOTE

| Seal Material | Pressure o ring | Pressure plate with o ring |
|--------------------|-----------------|----------------------------|
| Viton | 5005-552 | 179/0050VS |
| EPDM | 5005-651 | 179/0050ES |
| Perfluoroelastomer | 5005-585 | 179/0050PERS |
| Silicone | 5005-615 | 179/0050SS |



1" BSP Pressure/Vacuum Minnow IBC Relief Valve



Photo shows 65B/XXXXX with manual vent button

Specification

Weight 0.2 Kg

Seal Temperature Range:

Viton -20°C to +200°C
Perfluoroelastomer -15°C to +240°C
EPDM -20°C to +150°C
Silicone -20°C to +200°C

Operating Instructions available - OPIN05

Test certificates supplied as standard.

Visual inspection and service (where necessary) is recommended on a regular basis.

1"BSP Minnow IBC Relief Valve - 1"BSP male connection. Suitable for a pressure range of between 1 - 45 PSI (0.07 - 3.10 Bar) and a vacuum range of between 0.5" - 7" Hg (0.02 - 0.24 Bar). Contact parts manufactured in 316 stainless steel fitted with Viton seals as standard. Complete with PTFE tank seal.

Options - pressure only version. Alternative seal materials available. Manual vacuum vent button option. Ventlock option. 1" BSP female connection available. 1"NPT version.

Range



| Part No. | Description |
|-------------|-----------------------------------------|
| 65/XXXXX | 1" BSPM standard valve |
| 65/XXXXXNPT | 1" NPT standard valve |
| 65B/XXXXX | 1" BSPM valve with manual vent button |
| 65BT/XXXXX | 1" BSPM valve with manual vent button |
| | & TIR facility |
| 68/XXXXX | 1" BSPM valve with manual vent button |
| | & ventlock facility |
| 66/XXXXX | 1" BSPF standard valve |
| 69/XXXXX | 1" BSPF valve with manual vent button & |
| | ventlock facility |

Associated Parts

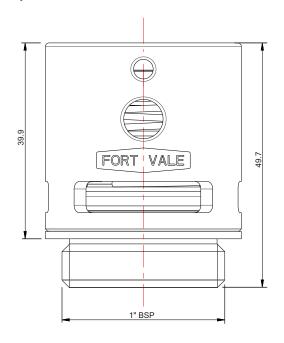


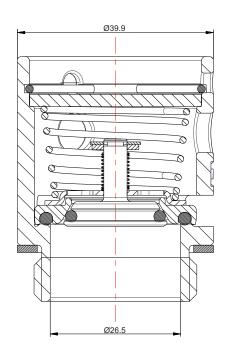
| Part No. | Description | |
|----------|----------------------------|--|
| 600/1025 | 1" tank weld-in socket | |
| 600/1026 | 1" tank weld-in nipple | |
| 179/0300 | 1" clamped type gauze ring | |

Fitting Details



Example shown 65/XXXXX

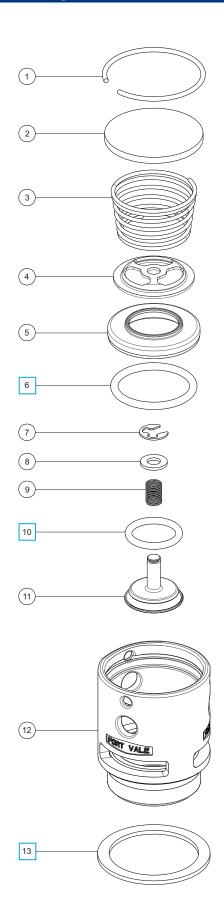




1" BSP Pressure/Vacuum Minnow IBC Relief Valve

Parts drawing





| Item | Description | Part No. |
|------|----------------------------------------|------------|
| 1 | Retaining clip (below 10 PSI/0.69 Bar) | 5120-015 |
| | Retaining clip (above 10 PSI/0.69 Bar) | 5120-021 |
| 2 | Top cap | 179/0010 |
| 3 | Pressure spring See Table 1 | 5104-XXX |
| 4 | Poppet guide | 179/0055 |
| 5 | Pressure plate See NOTE | 179/0040XX |
| 6 | Pressure o ring See Table 3 & NOTE | 5005-XXX 🔲 |
| 7 | Circlip | 5120-002 |
| 8 | Plain washer | 5113-017 |
| 9 | Vacuum spring See Table 2 | 5104-XXX |
| 10 | Vacuum o ring See Table 3 | 5005-XXX 🔲 |
| 11 | Vacuum poppet | 179/0020 |
| 12 | Body | 179/0100 |
| 13 | PTFE gasket | 5005-553 |

SEAL KIT

Part number **65/XPVSK** contains all parts marked (Part number varies according to seal material).

NOTE - Special tooling is necessary to peen a pressure O ring into a pressure plate. If you need a spare pressure O ring or pressure plate, we recommend that you order a pressure plate with a factory-fit O ring (See Table 4).

TABLE 1

| Common Pressure Settings | Pressure Spring Part No. |
|--------------------------|--------------------------|
| 3 PSI (0.21 Bar) | 5104-653 |
| 6 PSI (0.41 Bar) | 5104-656 |
| 9 PSI (0.62 Bar) | 5104-659 |

Pressure springs are available from 1 PSI (0.07 Bar) to 45 PSI (3.10 Bar)

TABLE 2

| Common Vacuum Setting | Vacuum Spring Part No. | |
|-----------------------|------------------------|--|
| 1" Hg (0.03 Bar) | 5104-671 | |

Vacuum springs are available from 0.5"Hg (0.02 Bar) to 7"Hg (0.24 Bar)

TABLE 3 - See NOTE

| Seal Material | Pressure Seal | Vacuum Seal |
|--------------------|---------------|-------------|
| Viton | 5005-552 | 20361 |
| EPDM | 5005-651 | 5005-652 |
| Perfluoroelastomer | 5005-585 | 5005-586 |
| Silicone | 5005-615 | 5005-614 |

TABLE 4

| Seal Material | Pressure plate with o ring |
|--------------------|----------------------------|
| Viton | 179/0040VS |
| EPDM | 179/0040ES |
| Perfluoroelastomer | 179/0040PERS |
| Silicone | 179/0040SS |



1" BSP Minnow Ventlock IBC Relief Valve - 1" BSP male connection. Suitable for a pressure range of between 1-9 PSI (0.07 - 0.62 Bar) and a vacuum range of between 0.5" - 7" Hg (0.02 - 0.24 Bar). Contact parts manufactured in 316 stainless steel fitted with Viton seals as standard. Complete with manual vent button, ventlock facility and PTFE tank seal.

The locking bracket can only be used at pressures of 9 PSI and below. For greater pressures, a valve without the locking bracket is required (See REL019 & REL020)

Options - Alternative seal materials available. 1"BSP Female thread connection available. 1"NPT version.

Specification



Weight 0.2 Kg

Seal Temperature Range:

Viton -20°C to +200°C
Perfluoroelastomer -15°C to +240°C
EPDM -20°C to +150°C
Silicone -20°C to +200°C

Test certificates supplied as standard.

Visual inspection and service (where necessary) is recommended on a 6 monthly basis.

Range



| Part No. | Description |
|-------------|-----------------------------------------------------------|
| 65/XXXXX | 1" BSPM standard valve |
| 65/XXXXXNPT | 1" NPT standard valve |
| 65B/XXXXX | 1" BSPM valve with manual vent button |
| 65BT/XXXXX | 1" BSPM valve with manual vent button & TIR facility |
| 68/XXXXX | 1" BSPM valve with manual vent button & ventlock facility |
| 66/XXXXX | 1" BSPF standard valve |
| 69/XXXXX | 1" BSPF valve with manual vent button & ventlock facility |

Associated Parts

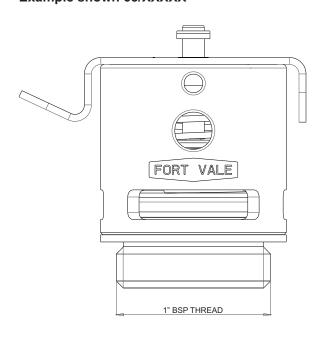


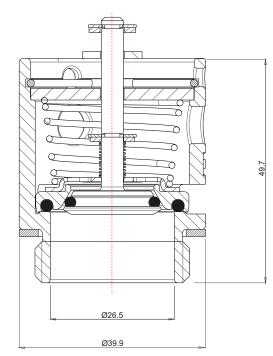
| Part No. | Description | |
|----------|----------------------------|--|
| 600/1025 | 1" Tank weld-in socket | |
| 600/1026 | 1" Tank weld-in nipple | |
| 179/0300 | 1" Clamped type gauze ring | |

Fitting Details

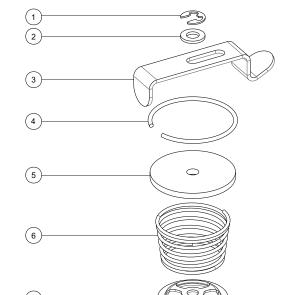


Example shown 68/XXXXX





Parts drawing











15

| Item | Description | Part No. |
|------|----------------------------------------|------------|
| 1 | Circlip (2) | 5120-002 |
| 2 | Plain washer | 5113-015 |
| 3 | Locking bracket | 179/0150 |
| 4 | Retaining clip (below 20 PSI/1.38 Bar) | 5120-015 |
| 5 | Top cap | 179/0060 |
| 6 | Pressure spring See Table 1 | 5104-XXX |
| 7 | Poppet guide | 179/0055 |
| 8 | Pressure plate See NOTE | 179/0040XX |
| 9 | Pressure o ring See Table 3 & NOTE | 5005-XXX 🔲 |
| 10 | Plain washer | 5113-017 |
| 11 | Vacuum spring See Table 2 | 5104-XXX |
| 12 | Vacuum o ring See Table 3 | 5005-XXX 🔲 |
| 13 | Vacuum poppet | 179/0090 |
| 14 | Body | 179/0100 |
| 15 | PTFE gasket | 5005-553 |

SEAL KIT

Part number **65/XPVSK** contains all parts marked (Part number varies according to seal material).

NOTE - Special tooling is necessary to peen a pressure O ring into a pressure plate. If you need a spare pressure O ring or pressure plate, we recommend that you order a pressure plate with a factory-fit O ring (See Table 4).

TABLE 1

| Common Pressure Settings | Pressure Spring Part No. |
|--------------------------|--------------------------|
| 3 PSI (0.21 Bar) | 5104-653 |
| 6 PSI (0.41 Bar) | 5104-656 |
| 9 PSI (0.62 Bar) | 5104-659 |

Pressure springs are available from 1 PSI (0.07 Bar) to 9 PSI (0.62 Bar)

PLEASE NOTE!

The locking bracket can only be used at pressures of 9 PSI and below. For greater pressures, a valve without the locking bracket is required. (See REL019 & REL020)

TABLE 2

| Common Vacuum Setting | Vacuum Spring Part No. | |
|-----------------------|------------------------|--|
| 1" Hg (0.03 Bar) | 5104-671 | |

Vacuum springs are available from 0.5"Hg (0.02 Bar) to 7"Hg (0.24 Bar)

TABLE 3 - See NOTE

| Seal Material | Pressure O ring | Vacuum O Ring |
|--------------------|-----------------|---------------|
| Viton | 5005-552 | 20361 |
| EPDM | 5005-651 | 5005-652 |
| Perfluoroelastomer | 5005-585 | 5005-586 |
| Silicone | 5005-615 | 5005-614 |

TABLE 4

| Seal Material | Pressure plate with o ring | |
|--------------------|----------------------------|--|
| Viton | 179/0040VS | |
| EPDM | 179/0040ES | |
| Perfluoroelastomer | 179/0040PERS | |
| Silicone | 179/0040SS | |



1½" BSP Pressure Only Uniact Relief Valve



Part Number Illustrated: 47/XXX00A

Specification

0.6 Kg

Weight _

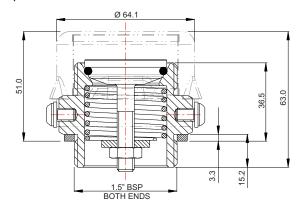
i Operating Instructions available - OPIN08

Fitting Details

FORT VALE

ORT VALE

Example shown 47/XXX00AX



1½" BSP Uniact Relief Valve - 1½" BSP male connection. Suitable for a pressure range of between 1 - 72 PSI (0.07 - 4.97 bar). Single acting valve - pressure only. Contact parts manufactured in 316 stainless steel fitted with Fortyt seal (FEP encapsulated silicone O ring) as standard. Complete with CNAF tank seal.

Options - optional cowl/gauze. Vacuum only version. Alternative connections: 1½"BSP, 2"BSP, 50mm DIN11851, flanged. Alloy C276 valve. Viton, EPDM, Perfluoroelastomer and High Temperature Fortyt O rings available. PTFE tank seal.

Range



| Part No. | Description | |
|-------------|-----------------------------|--|
| 47/XXX00A | 1½" BSP standard valve | |
| 47/XXX00AC | 1½" BSP with cowl | |
| 47/XXX00AGZ | 1½" BSP with cowl & gauze | |
| 47M/XXX00A | 50mm DIN11851 connection | |
| 47H/XXX00AX | 1½" BSP Alloy C276 valve | |
| 47V/XXX00A | X00A 1½" BSP PTFE tank seal | |

Associated Parts

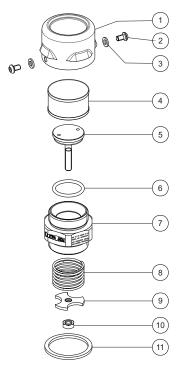


| Part No. | Associated Parts | |
|-----------|----------------------------------------|--|
| 600/1010 | 1½" tank weld-in socket | |
| 176/2660 | 50mm DIN 11851 weld-in socket | |
| 176/2670 | 50mm DIN 11851 fitting nut | |
| 10217/1 | Pressed stainless steel cap | |
| 10217/1GZ | Pressed stainless steel cap with gauze | |

Parts Drawing



Part Number Illustrated: 47/XXX00AGZ



Test certificate supplied as standard. Visual inspection and service (where necessary) is recommended on a regular basis.

| Item | Description | Part No. |
|------|-----------------------|----------|
| 1 | Сар | 10217/1 |
| 2 | M6 button screw (2) | 5111-611 |
| 3 | M6 spring washer (2) | 5113-008 |
| 4 | Gauze ring | 10204 |
| 5 | Poppet | 10983V |
| 6 | O ring (see Table 2) | 5005-XXX |
| 7 | Body | 10213 |
| 8 | Spring (see Table 1) | 5104-XXX |
| 9 | Spring pad | 10215 |
| 10 | M8 half nut | 5112-004 |
| 11 | CNAF gasket tank seal | 5005-011 |

 Pressure Setting
 Pressure Spring

 30 PSI
 5104-630

O ring Material **Pressure Seal** Temp. Range Viton -20°C to +200°C 5005-107 Fortyt -55°C to +200°C 5005-108H Perfluoroelastomer -15°C to +260°C 5005-764 -20°C to +150°C **EPDM** 5005-255 High Temp. Fortyt -55°C to +260°C 5005-108HPFA



C SPANNER - 400/3000 For relief valve fitting and removal. Size range 11/4" to 3"

Table 2



1½" BSP Vacuum Only Uniact Relief Valve



Part Number Illustrated: 47/X00XXAGZ

Specification

0.8 Kg

Weight 0.8 Kg

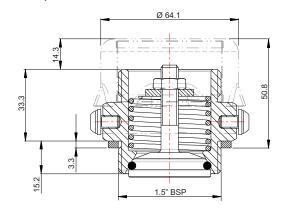
Operating Instructions available - OPIN08

Fitting Details

FORT VALE

FORT VALE

Example shown 47/X00XXAX



1½" BSP Uniact Relief Valve - 1½" BSP male connection. Suitable for a vacuum range of between 0.5" - 26" Hg (-0.02 to -0.9 Bar). Single acting valve - vacuum only. Contact parts manufactured in 316 stainless steel fitted with Fortyt seal (FEP encapsulated silicone O ring) as standard. Complete with CNAF tank seal.

Options - optional cowl/gauze. Pressure only version. Alternative connections: 1½"BSP, 2"BSP, 50mm DIN11851, flanged. Alloy C276 valve. Viton, EPDM, Perfluoroelastomer and High Temperature Fortyt O rings available. PTFE tank seal.

Range



| Part No. | Description | |
|-------------|---------------------------------|--|
| 47/X00XXA | 1½" BSP standard valve | |
| 47/X00XXAC | 1½" BSP with cowl | |
| 47/X00XXAGZ | 1½" BSP with cowl & gauze | |
| 47/X00XXVBA | 1½" BSP with manual vent button | |
| 47M/X00XXA | 50mm DIN11851 connection | |
| 47H/X00XXAX | 1½" BSP Alloy C276 valve | |
| 47V/X00XXAX | 1½" BSP PTFE tank seal | |

Associated Parts

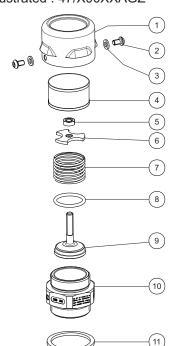


DRT VALE

| Part No. | Associated Parts | |
|-----------|----------------------------------------|--|
| 600/1010 | 1½" tank weld-in socket | |
| 176/2660 | 50mm DIN 11851 weld-in socket | |
| 176/2670 | 50mm DIN 11851 fitting nut | |
| 10217/1 | Pressed stainless steel cap | |
| 10217/1GZ | Pressed stainless steel cap with gauze | |

Parts Drawing

Part Number Illustrated : 47/X00XXAGZ



Test certificate supplied as standard. Visual inspection and service (where necessary) is recommended on a regular basis.

| Item | Description | Part No. |
|------|----------------------|----------|
| 1 | Cap | 10217/1 |
| 2 | M6 button screw (2) | 5111-611 |
| 3 | M6 spring washer (2) | 5113-008 |
| 4 | Gauze ring | 10204 |
| 5 | M8 half nut | 5112-004 |
| 6 | Spring pad | 10215 |
| 7 | Spring (see Table 1) | 5104-XXX |
| 8 | O ring (see Table 2) | 5005-XXX |
| 9 | Poppet | 10983V |
| 10 | Body | 10213VO |
| 11 | CNAF gasket | 5005-011 |

 Vacuum Setting
 Vacuum Spring

 1" Hg
 5104-601

Table 2

| O ring Material | Temp. Range | Vacuum Seal |
|--------------------|-----------------|--------------|
| Viton | -20°C to +200°C | 5005-107 |
| Fortyt | -55°C to +200°C | 5005-108H |
| Perfluoroelastomer | -15°C to +260°C | 5005-764 |
| EPDM | -20°C to +150°C | 5005-255 |
| High Temp. Fortyt | -55°C to +260°C | 5005-108HPFA |



C SPANNER - 400/3000 For relief valve fitting and removal. Size range 11/4" to 3"



1½" Vacuum Only Uniact Relief Valve-50mm DIN11851



Valve depicted without cap for clarity.

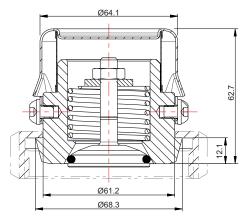
1½" Vacuum Only Uniact Relief Valve with 50mm DIN11851 connection - Suitable for a vacuum range of between 0.5"Hg and 22"Hg (0.02 Bar and 0.75 Bar). Single-acting valve - vacuum relief only. Contact parts manufactured in 316 stainless steel fitted with Fortyt seal (FEP encapsulated silicone O ring) as standard. Supplied with stainless steel gauzed cap. 50mm DIN 11851 nut and seal supplied separately.

Options - pressure only version. Different tank connections available. Alternative seal materials. Alternative style cap. 65mm range of Uniact valves.

Fitting Details



Part Number: 47M/X00XXAX



| Range | FORT VALE |
|-------|-----------|
| | |

| Part No. | Description |
|-------------|----------------------------------|
| 47M/X00XXAX | 50mm DIN11851 vacuum only |
| 47M/XXX00AX | 50mm DIN11851 pressure only |
| 46RJT/XXXXX | 2" RJT fitting to inlet & outlet |

Specification



Weight 1.16 Kg
Design Pressure (MAWP) 4.5 Bar (65 PSI)
Test Pressure 7 Bar (101.5 PSI)
Fortyt Seal Temperature Range -55°C to 200°C

Operating Instructions available - OPIN08

In-house test certificates confirming valve setting and serial number supplied as standard.

Visual inspection and service (where necessary) is recommended on a regular basis.

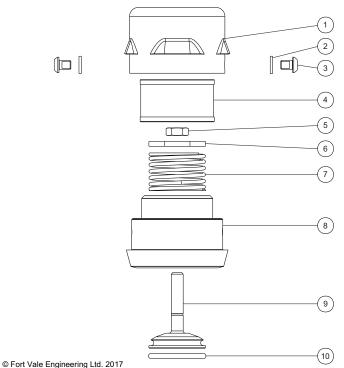
Associated Parts



| Part No. | Associated Parts | |
|-----------|-------------------------------------------|--|
| 176/2660 | 50mm DIN11851 weld-in socket | |
| 176/2670 | 50mm DIN11851 fitting nut | |
| 176/2675S | Silicone seal to suit 50mm DIN fittings | |
| 10217/1GZ | Pressed stainless steel cap with gauze | |
| 10217GZ | Fabricated stainless steel cap with gauze | |

Parts drawing





| Item | Description | Part No. | | |
|------|----------------------|-----------|--|--|
| 1 | Cap | 10217/1 | | |
| 2 | M6 spring washer (2) | 5113-008 | | |
| 3 | M6 button screw (2) | 5111-611 | | |
| 4 | Gauze ring | 10204 | | |
| 5 | M8 half nut | 5112-004 | | |
| 6 | Spring pad | 10215 | | |
| 7 | Spring (See Note) | 5104-XXX | | |
| 8 | 50mm DIN 11851 body | 40M/1005 | | |
| 9 | Vacuum poppet | 10983V | | |
| 10 | Fortyt O ring | 5005-108H | | |

NOTE: Part number varies according to setting.

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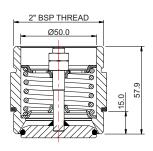
2" BSP Uniact Relief Valve



Fitting Details



Example shown: 85/X00XXA





2" BSP Uniact Relief Valve - 2" BSP male connection. Suitable for a vacuum setting of between 0.5" - 29" Hg (0.02 - 0.98 bar) or a pressure setting of between 1 - 60 PSI (0.07 - 4.14 bar). Single acting valve. Contact parts manufactured in 316 stainless steel fitted with Fortyt seal as standard. Complete with PTFE tank seal.

Options - pressure only or vacuum only. Alternative connections: 1½" BSP, 65mm DIN11851. Stainless steel cap with/without gauze. A range of alternative seals is available.

Specification



Weight (standard valve) 0.73 Kg
Fortyt seal temperature range -55°C to +2

Fortyt seal temperature range -55°C to +200°C Viton seal temperature range -20°C to +200°C

i Operating Instructions available - OPIN14

Range



| Description |
|-----------------------------------------------|
| Standard 2" BSP Uniact Relief Valve |
| 2" Uniact with 65mm DIN 11851 tank connection |
| |

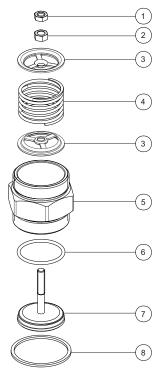
Associated Parts



| Part No. | Description |
|----------|--------------------------------|
| 600/1017 | 2" Tank weld-in socket |
| 176/2645 | 65mm DIN 11851 socket |
| 176/2630 | 65mm DIN 11851 nut |
| 10218GZ | Stainless steel gauzed cap |
| 10218 | Stainless steel cap – no gauze |

Parts drawing





| Item | Description | Part No. |
|------|--------------------------|----------|
| 1 | M8 half nut | 5112-004 |
| 2 | M8 full nut | 5112-001 |
| 3 | Spring pad (2) *See Note | 85/100X |
| 4 | Vacuum spring *See Note | 5104-XXX |
| 5 | Body | 85/1000 |
| 6 | Fortyt main O ring | 5005-118 |
| 7 | Poppet | 85/1015 |
| 8 | PTFE tank seal | 5005-575 |

Note: Part number varies according to specification.



C SPANNER - PART NUMBER 400/3000

For relief valve fitting and removal. Size range 11/4" to 3".

Visual inspection and service (where necessary) is recommended on a regular basis.

In-house test certificates confirming valve settings and serial numbers are supplied as standard.



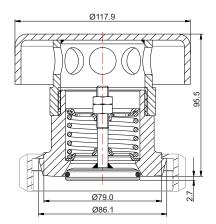
2" Vacuum Only Uniact Relief Valve - 65mm DIN11851



Fitting Details

FORT VALE

Part Number: 85M/X00XXA



2" Vacuum Only Uniact Relief Valve with 65mm DIN11851 connection - Suitable for a vacuum range of between 0.5"Hg and 24"Hg (0.02 Bar and 0.81 Bar). Single-acting valve - vacuum relief only. Contact parts manufactured in 316 stainless steel fitted with Fortyt seal (FEP encapsulated silicone O ring) as standard. Supplied with stainless steel gauzed cap. 65mm DIN 11851 nut supplied separately.

Options - pressure only version. Different tank connections available. Alternative seal materials. Alternative style cap. 50mm range of Uniact valves.

Specification



Weight 2.71 Kg Fortyt Seal Temperature Range -55°C to 200°C

Operating Instructions available - OPIN14

In-house test certificates confirming valve setting and serial number supplied as standard.

Visual inspection and service (where necessary) is recommended on a regular basis.

Range



| Part No. | Description |
|------------|-----------------------------|
| 85M/X00XXA | 65mm DIN11851 vacuum only |
| 85M/XXX00A | 65mm DIN11851 pressure only |

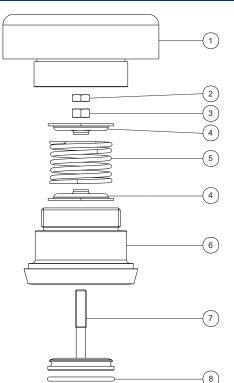
Associated Parts



| Part No. | Associated Parts |
|----------|------------------------------|
| 176/2645 | 65mm DIN11851 fitting socket |
| 176/2630 | 65mm DIN11851 fitting nut |

Parts drawing





| Item | Description | Part No. |
|------|--------------------------|----------|
| 1 | Cap | 10218 |
| 2 | Half nut | 5112-004 |
| 3 | Full nut | 5112-001 |
| 4 | Spring pad (2) | 85/1003 |
| 5 | Spring (See Note) | 5104-XXX |
| 6 | 65mm DIN11851 valve body | 85M/1000 |
| 7 | Poppet | 85/1015 |
| 8 | Fortyt O ring | 5005-118 |

NOTE: Part number varies according to valve specification.



1½"BSP Pressure Only Twinact Relief Valve



1½" BSP Twinact Relief Valve - 1½" BSP male connection. Suitable for a pressure range of between 1 to 64 PSI (0.07 to 4.41 Bar). Contact parts manufactured in 316 stainless steel fitted with Fortyt (FEP encapsulated silicone O ring) seal as standard. Complete with CNAF tank seal.

Options - combined pressure/vacuum version. 50mm DIN11851 connection for hygienic applications. Viton seal available. Other seal materials available.

Specification



Weight 0.7 Kg

Fortyt Seal Temperature Range -55°C to +200°C Viton Seal Temperature Range -20°C to +200°C

Operating Instructions available - OPIN03

In-house test certificates confirming valve settings and serial numbers are supplied as standard.

Visual inspection and service (where necessary) is recommended on a regular basis.

Range



| | Part No. | Description |
|---|----------|--------------------------------------|
| Ī | 30/XXX00 | Standard pressure only valve |
| Ī | 30/XXXXX | Standard pressure/vacuum valve |
| Ī | 3M/XXXXX | 1½" Twinact 50mm DIN11851 connection |

Associated Parts

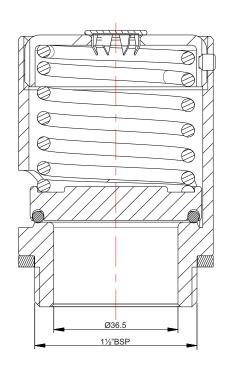


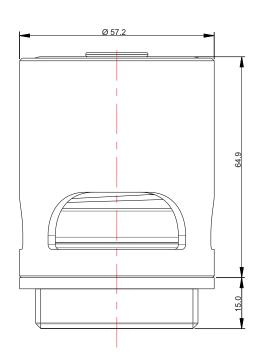
| Part No. | Description |
|----------|-------------------------|
| 600/1010 | 1½" tank weld-in socket |
| 200/5000 | 1½" clamped gauze ring |
| 5005-012 | PTFE tank seal |

Fitting Details



Example shown: 30/XXX00

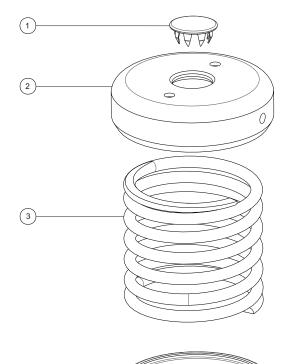






Fitting Details





| Item | Description | Part No. |
|------|------------------------------------|------------|
| 1 | Stainless steel plug | 10978 |
| 2 | Top cap | 11004 |
| 3 | Pressure spring See Table 1 | 5104-XXX |
| 4 | Pressure plate See NOTE | 11002/2X |
| 5 | Pressure o ring See Table 2 & NOTE | 5005-XXX 🔲 |
| 6 | Body assembly | 11001 |
| 7 | Grubscrew | 5121-001 |
| 8 | CNAF tank seal | 5005-011 |

SEAL KIT - contains parts marked ☐
Part number 30/1PSK contains Fortyt O ring
Part number 30/0PSK contains Viton O ring

NOTE - Special tooling is necessary to peen a pressure O ring into a pressure plate. If you need a spare pressure O ring or pressure plate, we recommend that you order a pressure plate with a factory-fit O ring (See Table 2).

TABLE 1

| Common Pressure Settings | Pressure Spring Part No |
|--------------------------------|-------------------------|
| 3 PSI (0.21 Bar) | 5104-703 |
| 29 to 32 PSI (2.0 to 2.21 Bar) | 5104-730 |

Pressure springs are available from 1 PSI (0.07 Bar) to 64 PSI (4.41 Bar)

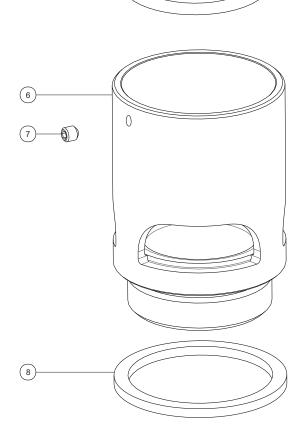
TABLE 2 - See NOTE

| Seal Material | Pressure o ring | Pressure plate with o ring |
|---------------|-----------------|----------------------------|
| Fortyt | 5005-118 | 11002/2F |
| Viton | 5005-110 | 11002/2V |



C SPANNER - PART NUMBER 400/3000

For relief valve fitting and removal. Size range 1¼" to 3".





1½" BSP Pressure/Vacuum Twinact Relief Valve



 $1\frac{1}{2}$ " BSP Twinact Relief Valve - $1\frac{1}{2}$ " BSP male connection. Suitable for a pressure range of between 1 to 64 PSI (0.07 to 4.41 Bar) and a vacuum range of between 0.5" to 28" Hg (0.02 to 0.94 Bar). Contact parts manufactured in 316 stainless steel fitted with Fortyt (FEP encapsulated silicone O ring) seals as standard. Complete with manual vent button and CNAF tank seal.

Options - pressure only version. 50mm DIN11851 connection for hygienic applications. Viton seal available. Other seal materials available. Clamped gauze ring available.

Specification



Weight 0.76 Kg

Fortyt seal Temperature Range -55°C to +200°C Viton seal Temperature Range -20°C to +200°C

i Operating Instructions available - OPIN03

In-house test certificates confirming valve settings and serial numbers are supplied as standard.

Visual inspection and service (where necessary) is recommended on a regular basis.

Range



| Part No. | Description |
|-----------|------------------------------------------|
| 30/XXXXX | Standard pressure/vacuum valve |
| 30/XXX00 | Standard pressure only valve |
| 3M/XXXXX | 11/2" Twinact 50mm DIN11851 connection |
| 30/XXXXXH | 1½" Twinact with Alloy C276 wetted parts |

Associated Parts

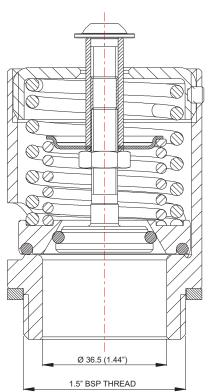


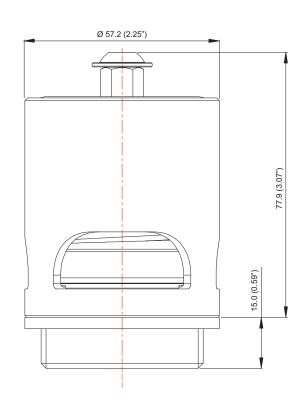
| Part No. | Description | |
|----------|-------------------------|--|
| 600/1010 | 1½" tank weld-in socket | |
| 200/5000 | 1½" clamped gauze ring | |
| 5005-012 | PTFE tank seal | |

Fitting Details



Example shown: 30/XXXXX

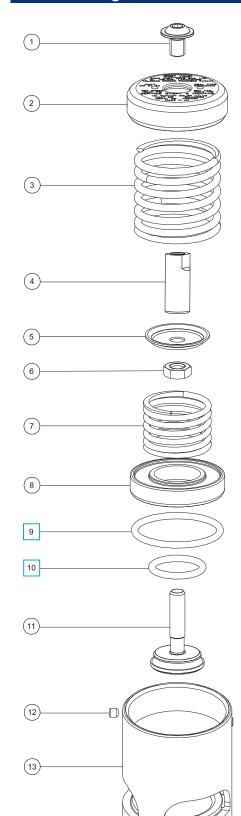




1½" BSP Pressure/Vacuum Twinact Relief Valve

Parts drawing





| Item | Description | Part No. |
|------|------------------------------------|-----------|
| пеш | | |
| 1 | Flanged button screw | 5111-9812 |
| 2 | Top cap | 11004 |
| 3 | Pressure spring See Table 1 | 5104-XXX |
| 4 | Spring stem | 10984 |
| 5 | Spring pad | 11006XX |
| 6 | M8 half nut | 5112-004 |
| 7 | Vacuum spring See Table 2 | 5104-XXX |
| 8 | Pressure plate See NOTE | 11002X |
| 9 | Pressure O ring See Table 3 & NOTE | 5005-XXX |
| 10 | Vacuum O ring See Table 3 | 5005-XXX |
| 11 | Vacuum poppet | 11003 |
| 12 | Grubscrew | 5121-001 |
| 13 | Body assembly | 11001 |
| 14 | CNAF tank seal | 5005-011 |

SEAL KIT - contains all parts marked □
Part number **30/1PVSK** contains Fortyt O rings
Part number **30/0PVSK** contains Viton O rings

NOTE - Special tooling is necessary to peen a pressure O ring into a pressure plate. If you need a spare pressure O ring or pressure plate, we recommend that you order a pressure plate with a factory-fit O ring (See Table 4).

TABLE 1

| Common Pressure Settings | Pressure Spring Part No |
|-------------------------------|-------------------------|
| 3 PSI (0.21 Bar) | 5104-703 |
| 29 to 32 PSI (2.0 – 2.21 Bar) | 5104-730 |

Pressure springs are available from 1 PSI (0.07 Bar) to 64 PSI (4.41 Bar)

TABLE 2

| Common Vacuum Settings | Vacuum Spring Part No |
|------------------------|-----------------------|
| 0.5" Hg (0.02 Bar) | 5104-760 |
| 1" Hg (0.03 Bar) | 5104-761 |
| 3" Hg (0.10 Bar) | 5104-765 |

Vacuum springs are available from 0.5"Hg (0.02 Bar) to 28"Hg (0.94 Bar)

TABLE 3 - See NOTE

| Seal Material | Pressure O ring | Vacuum O ring |
|---------------|-----------------|---------------|
| Fortyt | 5005-118 | 5005-114 |
| Viton | 5005-110 | 5005-112 |

TABLE 4

| Seal Material | Pressure plate with O ring |
|---------------|----------------------------|
| Fortyt | 11002F |
| Viton | 11002V |



C SPANNER - PART NUMBER 400/3000

For relief valve fitting and removal. Size range 1¼" to 3".



DRT WIE

1½" Pressure/Vacuum Twinact Relief Valve - 50mm DIN11851



1½" Twinact Relief Valve with 50mm DIN11851 connection - Suitable for a pressure range of between 1 - 64 PSI (0.07 - 4.41 Bar) and a vacuum range of between 0.5" - 28" Hg (0.02 - 0.94 bar). Contact parts manufactured in 316 stainless steel fitted with Fortyt (FEP encapsulated silicone O ring) seals as standard. Complete with manual vent button.

Options - Pressure only version. Valve also available with Viton seals. Other seal materials available, including high temperature option. Flameproof gauze available. Full range of BSP valves.

Specification

Weight 0.96 Kg

Fortyt Seal Temperature Range -55°C to +200°C Viton Seal Temperature Range -20°C to +200°C

In-house test certificates confirming valve settings and serial numbers are supplied as standard.

Visual inspection and service (where necessary) is recommended on a 6 monthly basis.

Range

| ange | FORT VALE |
|------|-----------|
| | |

| Part No. | Description | |
|----------|--------------------------------------------|--|
| 3M/XXXXX | 50mm DIN11851 1½" Twinact, pressure/vacuum | |
| 3M/XXX00 | 50mm DIN11851 1½" Twinact, pressure only | |

Associated Parts

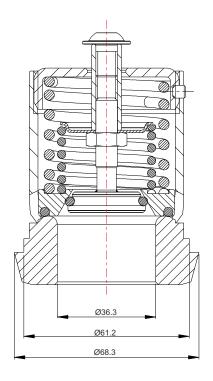


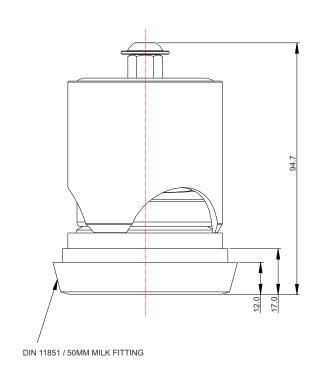
FORT VALE

| Part No. | Associated Parts | |
|-----------|-----------------------------------|--|
| 176/2660 | 50mm DIN11851 milk fitting socket | |
| 176/2670 | 50mm DIN11851 milk fitting nut | |
| 176/2675S | 50mm DIN11851 silicone seal | |
| 200/5000 | 1½" clamped gauze ring | |

Fitting Details

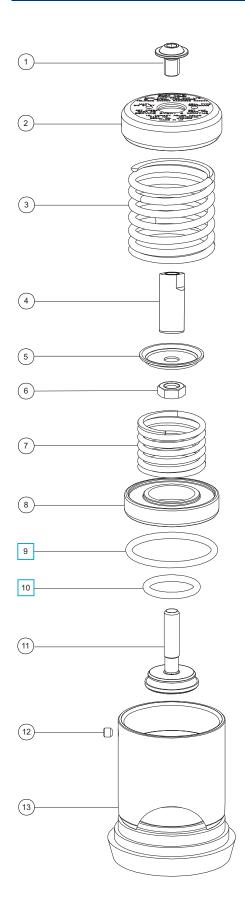
Example shown: 3M/XXXXX





Parts drawing





| Item | Description | Part No. |
|------|------------------------------------|-----------|
| 1 | Flanged button screw | 5111-9812 |
| 2 | Top cap | 11004 |
| 3 | Pressure spring See Table 1 | 5104-XXX |
| 4 | Spring stem | 10984 |
| 5 | Spring pad | 11006XX |
| 6 | M8 half nut | 5112-004 |
| 7 | Vacuum spring See Table 2 | 5104-XXX |
| 8 | Pressure plate See NOTE | 11002XX |
| 9 | Pressure o ring See Table 3 & NOTE | 5005-XXX |
| 10 | Vacuum o ring See Table 3 | 5005-XXX |
| 11 | Vacuum poppet | 11003 |
| 12 | Grubscrew | 5121-001 |
| 13 | Body | 10990 |

SEAL KIT - contains all parts marked □
Part number **30/1PVSK** contains Fortyt O rings
Part number **30/0PVSK** contains Viton O rings

NOTE - Special tooling is necessary to peen a pressure O ring into a pressure plate. If you need a spare pressure O ring or pressure plate, we recommend that you order a pressure plate with a factory-fit O ring (See Table 3).

TABLE 1

| Common Pressure Settings | Pressure Spring Part No |
|-------------------------------|-------------------------|
| 3 PSI (0.21 Bar) | 5104-703 |
| 29 to 32 PSI (2.0 – 2.21 Bar) | 5104-730 |

Pressure springs are available from 1 PSI (0.07 Bar) to 64 PSI (4.41 Bar)

TABLE 2

| Common Vacuum Settings | Vacuum Spring Part No |
|------------------------|-----------------------|
| 0.5" Hg (0.02 Bar) | 5104-760 |
| 1" Hg (0.03 Bar) | 5104-761 |
| 3" Hg (0.10 Bar) | 5104-765 |

Vacuum springs are available from 0.5"Hg (0.02 Bar) to 28"Hg (0.94 Bar)

TABLE 3 - See NOTE

| Seal Material | Pressure O ring | Vacuum O ring |
|---------------|-----------------|---------------|
| Fortyt | 5005-118 | 5005-114 |
| Viton | 5005-110 | 5005-112 |

TABLE 4

| Seal Material | Pressure plate with O ring |
|---------------|----------------------------|
| Fortyt | 11002F |
| Viton | 11002V |



C SPANNER - PART NUMBER 400/3000

For relief valve fitting and removal. Size range 11/4" to 3".



2½" BSP Pressure Only Twinact Relief Valve



2½" BSP Twinact Relief Valve - 2½" BSP male connection. Suitable for a pressure range of between 1 to 63 PSI (0.07 to 4.34 Bar). Contact parts manufactured in 316 stainless steel fitted with Fortyt (FEP encapsulated silicone O ring) seal as standard. Complete with rubber/PTFE tank seal.

Options - combined pressure/vacuum version. 80mm DIN11581 connection for hygienic applications. Nickel plated version. Viton seal available. Other seal materials available.

Specification



Weight 1.44 Kg

Fortyt Seal Temperature Range -55°C to +200°C Viton Seal Temperature Range -20°C to +200°C

Operating Instructions available - OPIN02

In-house test certificates confirming valve settings and serial numbers are supplied as standard.

Visual inspection and service (where necessary) is recommended on a regular basis.

Range



| Part No. | Description |
|----------|---------------------------------------|
| 20/XXX00 | Standard pressure only valve |
| 20/XXXXX | Standard pressure/vacuum valve |
| 2N/XXX00 | 2½ Nickel plated valve, pressure only |
| 2M/XXX00 | 2½ Twinact 80mm DIN11851 connection |

Associated Parts

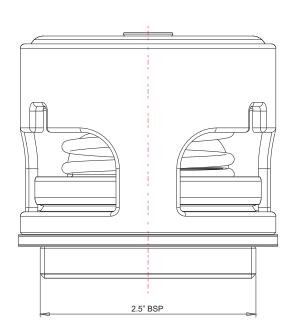


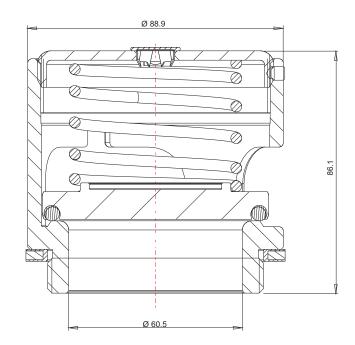
FORT VALE

| Part No. | Description |
|----------|-------------------------|
| 600/1000 | 2½" tank weld in socket |
| 176/3150 | 2½" tank weld in flange |
| 130/5000 | 2½" clamped gauze ring |
| 5005-027 | PTFE tank seal |
| 5005-026 | CNAF tank seal |

Fitting Details



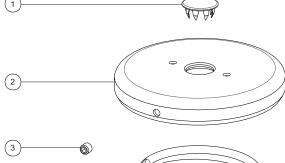


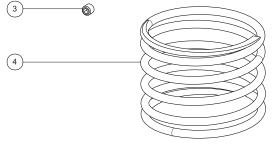


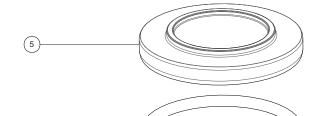
2½" BSP Pressure Only Twinact Relief Valve

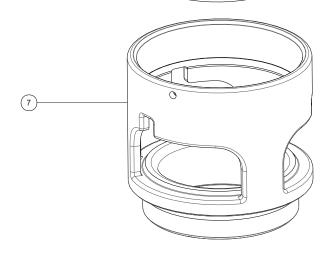
Fitting Details

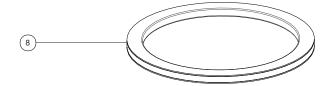












| Item | Description | Part No. |
|------|------------------------------------|------------|
| 1 | Stainless steel plug | 10978 |
| 2 | Top cap | 10967/1 |
| 3 | Grub screw | 5121-001 |
| 4 | Pressure spring See Table 1 | 5104-XXX |
| 5 | Pressure plate See NOTE | 175/XXXX |
| 6 | Pressure o ring See Table 2 & NOTE | 5005-XXX 🔲 |
| 7 | Body assembly | 10951 |
| 8 | Rubber/PTFE envelope gasket | 5005-046 |

SEAL KIT - contains all parts marked □ Part number **20/1PSK** contains Fortyt O ring Part number **20/0PSK** contains Viton O ring

NOTE - Special tooling is necessary to peen a pressure O ring into a pressure plate. If you need a spare pressure O ring or pressure plate, we recommend that you order a pressure plate with a factory-fit O ring (See Table 3).

TABLE 1

| Common Pressure Settings | Pressure Springs |
|-------------------------------------|------------------|
| 28 to 30 PSI (1.93 Bar to 2.07 Bar) | 5104-529 |

Pressure springs are available from 1 PSI (0.07 Bar) to 63 PSI (4.34 Bar)

TABLE 2 - See NOTE

| Seal Material | Pressure o ring |
|---------------|-----------------|
| Fortyt | 5005-101 |
| Viton | 5005-102 |

TABLE 3

| Seal Material | Pressure Plate | Pressure plate with o ring |
|---------------|----------------|----------------------------|
| Fortyt | 175/0111 | 175/0111F |
| Viton | 175/0121 | 175/0121V |



C SPANNER - PART NUMBER 400/3000

For relief valve fitting and removal. Size range 11/4" to 3".



2½" BSP Pressure/Vacuum Twinact Relief Valve



 $2 \norm{1}{2}$ BSP Twinact Relief Valve - $2 \norm{1}{2}$ BSP male connection. Suitable for a pressure range of between 1 to 63 PSI (0.07 to 4.34 Bar) and a vacuum range of between 0.5" to 28"Hg (0.02 to 0.94 Bar). Contact parts manufactured in 316 stainless steel fitted with Fortyt (FEP encapsulated silicone O ring) seals as standard. Complete with manual vent button and rubber/PTFE tank seal.

Options - pressure only version. 80mm DIN11581 connection for hygienic applications. Nickel plated version. Viton seal available. Other seal materials available.

Specification



Weight 1.48 Kg

Fortyt Seal Temperature Range -55°C to +200°C Viton Seal Temperature Range -20°C to +200°C

i Operating Instructions available - OPIN02

In-house test certificates confirming valve settings and serial numbers are supplied as standard.

Visual inspection and service (where necessary) is recommended on a regular basis.

Range



| Part No. | Description |
|----------|------------------------------------------|
| 20/XXX00 | Standard pressure only valve |
| 20/XXXXX | Standard pressure/vacuum valve |
| 2N/XXXXX | 2½" Nickel plated valve, pressure/vacuum |
| 2M/XXXXX | 2½" Twinact 80mm DIN11851 connection |

Associated Parts

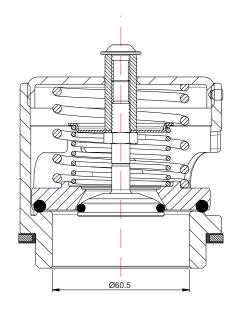


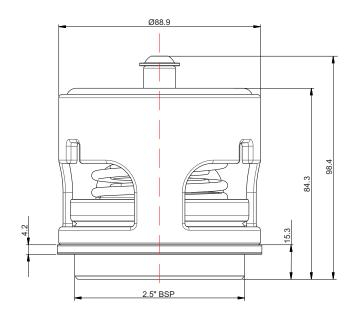
| Part No. | Description |
|----------|---------------------------|
| 600/1000 | 21/2" tank weld-in socket |
| 176/3150 | 2½ tank weld-in flange |
| 130/5000 | 2½" clamped gauze ring |
| 5005-027 | PTFE tank seal |
| 5005-026 | CNAF tank seal |

Fitting Details



Example shown: 20/XXXXX

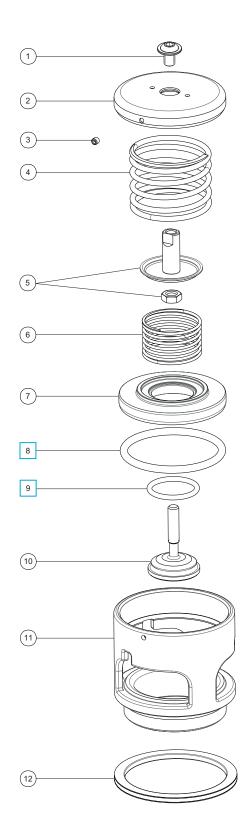




2½" BSP Pressure/Vacuum Twinact Relief Valve

Parts drawing





| Item | Description | Part No. |
|------|------------------------------------|-----------|
| 1 | Flanged button screw | 5111-9812 |
| 2 | Top cap | 10967/1 |
| 3 | Grub screw | 5121-001 |
| 4 | Pressure spring See Table 1 | 5104-XXX |
| 5 | Spring pad assembly | 130/0010 |
| 6 | Vacuum spring See Table 2 | 5104-XXX |
| 7 | Pressure plate See NOTE | 175/00XXX |
| 8 | Pressure o ring see Table 3 & NOTE | 5005-XXX |
| 9 | Vacuum o ring see Table 3 | 5005-XXX |
| 10 | Vacuum poppet | 10983V |
| 11 | Body | 10951 |
| 12 | Rubber/PTFE envelope gasket | 5005-046 |

SEAL KIT - contains all parts marked □ Part no. **20/1PVSK** contains Fortyt O rings Part no. **20/0PVSK** contains Viton O rings

NOTE - Special tooling is necessary to peen a pressure O ring into a pressure plate. If you need a spare pressure O ring or pressure plate, we recommend that you order a pressure plate with a factory-fit O ring (See Table 4).

TABLE 1

| Common Pressure Settings | Pressure Springs |
|-------------------------------------|------------------|
| 28 to 30 PSI (1.93 Bar to 2.07 Bar) | 5104-529 |

Pressure springs are available from 1 PSI (0.07 Bar) to 63 PSI (4.34 Bar)

TABLE 2

| Common Vacuum Settings | Vacuum Springs |
|------------------------|----------------|
| 0.5" Hg (0.02 Bar) | 5104-560 |
| 1" Hg (0.03 Bar) | 5104-561 |
| 3" Hg (0.10 Bar) | 5104-563 |

Vacuum springs are available from 0.5"Hg (0.02 Bar) to 28"Hg (0.94 Bar)

TABLE 3 - See NOTE

| Seal Material | Pressure o ring | Vacuum o ring | |
|---------------|-------------------|---------------|--|
| Fortyt | 5005-101 5005-108 | | |
| Viton | 5005-102 | 5005-107 | |

TABLE 4

| Seal Material | Pressure plate | Pressure plate with o ring |
|---------------|----------------|----------------------------|
| Fortyt | 175/0061 | 175/0061F |
| Viton | 175/0031 | 175/0031V |



C SPANNER - PART NUMBER 400/3000

For relief valve fitting and removal. Size range 11/4" to 3".



2½" Pressure/Vacuum Twinact Relief Valve - 80mm DIN11851



Specification

Weight 1.91 Kg

Fortyt Seal Temperature Range -55°C to +200°C Viton Seal Temperature Range -20°C to +200°C

In-house test certificates confirming valve settings and serial numbers are supplied as standard.

Visual inspection and service (where necessary) is recommended on a 6 monthly basis.

2½" Twinact Relief Valve with 80mm DIN11851 connection - Suitable for a pressure range of between 1 - 63 PSI (0.07 - 4.34 bar) and a vacuum range of between 0.5" - 28" Hg (0.02 - 0.94 bar). Contact parts manufactured in 316 stainless steel fitted with Fortyt (FEP encapsulated silicone O ring) seals as standard. Complete with manual vent button.

Options - pressure only version. Other seal materials are available. Full range of BSP valves.

Range

| Part No. | Description |
|----------|--------------------------------------------|
| 2M/XXXXX | 80mm DIN11851 2½" Twinact, pressure/vacuum |
| 2M/XXX00 | 80mm DIN11851 2½" Twinact, |
| | pressure only |

Associated Parts

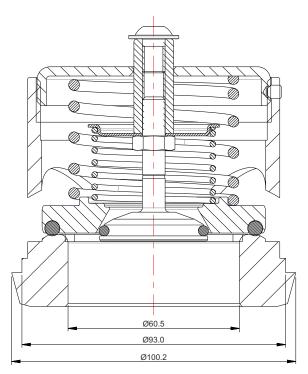


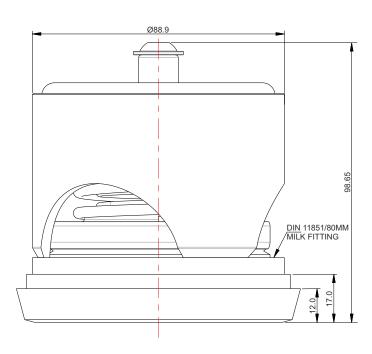
FORT VALE

| Part No. | Associated Parts |
|-----------|-----------------------------------|
| 176/2550 | 80mm DIN11851 milk fitting socket |
| 176/2650 | 80mm DIN11851 milk fitting nut |
| 176/2685S | 80mm DIN11851 silicone seal |
| 130/5000 | 2½" clamped gauze ring |

Fitting Details

Example shown: 2M/XXXXX

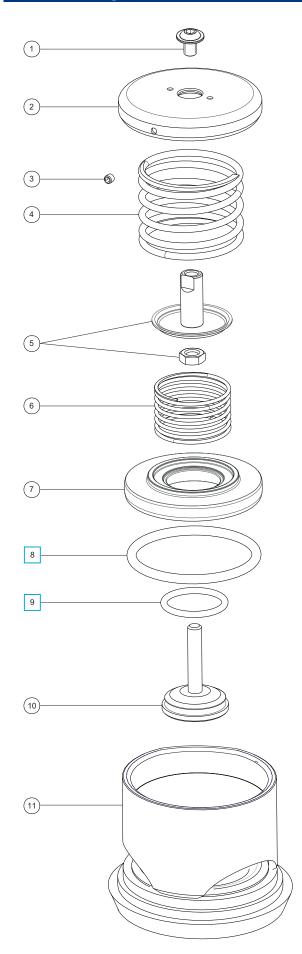




2½" Pressure/Vacuum Twinact Relief Valve - 80mm DIN11851

Parts drawing





| Item | Description | Part No. |
|------|------------------------------------|------------|
| 1 | Flanged button screw | 5111-9812 |
| 2 | Top cap | 10967/1 |
| 3 | Grubscrew | 5121-001 |
| 4 | Pressure spring See Table 1 | 5104-XXX |
| 5 | Spring pad assembly | 130/0010 |
| 6 | Vacuum spring See Table 2 | 5104-XXX |
| 7 | Pressure plate See NOTE | 175/00XX |
| 8 | Pressure o ring See Table 3 & NOTE | 5005-XXX 🔲 |
| 9 | Vacuum o ring See Table 3 | 5005-XXX 🔲 |
| 10 | Vacuum poppet | 10983V |
| 11 | Body | 11021 |

SEAL KIT - contains all parts marked □ Part no. **20/1PVSK** contains Fortyt O rings Part no. **20/0PVSK** contains Viton O rings

NOTE - Special tooling is necessary to peen a pressure O ring into a pressure plate. If you need a spare pressure O ring or pressure plate, we recommend that you order a pressure plate with a factory-fit O ring (See Table 4).

TABLE 1

| Common Pressure Settings | Pressure Spring | |
|---------------------------------|-----------------|--|
| 28 to 30 PSI (1.93 to 2.07 Bar) | 5104-529 | |

Pressure springs are available from 1 PSI (0.07 Bar) to 63 PSI (4.34 Bar)

TABLE 2

| Common Vacuum Settings | Vacuum Spring |
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| 0.5" Hg (0.02 Bar) | 5104-560 |
| 1" Hg (0.03 Bar) | 5104-561 |
| 3" Hg (0.10 Bar) | 5104-563 |

Vacuum springs are available from 0.5"Hg (0.02 Bar) to 28"Hg (0.94 Bar)

TABLE 3 - See NOTE

| Seal Material | Pressure o ring | Vacuum o ring |
|---------------|-----------------|---------------|
| Fortyt | 5005-101 | 5005-108H |
| Viton | 5005-102 | 5005-107 |

TABLE 4

| Seal Ma | iterial | Pressure plate | Pressure plate with o ring |
|---------|---------|----------------|----------------------------|
| Fortyt | | 175/0061 | 175/0061F |
| Viton | | 175/0031 | 175/0031V |



C SPANNER - PART NUMBER 400/3000

For relief valve fitting and removal. Size range 1½" to 3".



DIN11851 Socket & Nut





The DIN11851 fitting is suitable for hygienic applications and consists of a male socket and a female nut. A compatible silicone seal is also available.

It is available in three sizes - 50mm, 65mm and 80mm, designed for use with our $1\frac{1}{2}$ ", 2" and $2\frac{1}{2}$ " relief valves.

The socket and nut are manufactured in 316 stainless steel.

| Description | Part No. |
|-----------------------------------------|-----------|
| 50mm socket | 176/2660 |
| 50mm nut | 176/2670 |
| Silicone seal to suit 50mm DIN fittings | 176/2675S |
| 65mm socket | 176/2645 |
| 65mm nut | 176/2630 |
| Silicone seal to suit 65mm DIN fittings | 176/2635S |
| 80mm socket | 176/2550 |
| 80mm nut | 176/2650 |
| Silicone seal to suit 80mm DIN fittings | 176/2685S |

Clamped Gauzes





Clamped gauze rings are available for our 1", $1\frac{1}{2}$ ", $2\frac{1}{2}$ ", 65mm and 80mm relief valves. They clamp around the body ports and offer flame protection on valves with a vacuum setting of 0.21 Bar (6"Hg) and above. For valves with a vacuum setting of less then 0.21 Bar, a clamped gauze is often fitted to offer dust protection.

| Description | Part No. |
|----------------------------------------------------------------|----------|
| Clamped gauze – 1" Minnow valves | 179/0300 |
| Clamped gauze – 1½" Twinact valves | 200/5000 |
| Clamped gauze – 2½" Twinact valves | 130/5000 |
| Clamped gauze – 2½"/65mm Super Maxi valves * | 176/2900 |
| Clamped gauze – 80mm Hyper Maxi 043/series & 049/series only * | 176/2920 |

Fitting a clamped gauze to a Minnow or Twinact relief valve reduces the valve flow rate.

Fitting clamped gauze 176/2900 to a 65mm Super Maxi relief valve reduces the valve flow rate by 1%.

Fitting clamped gauze 176/2920 to an 043/series or 049/series 80mm Hyper Maxi relief valve reduces the valve flow rate by 5.4%.

* Please note that the 176/2900 and 176/2920 are NOT interchangeable. For further advice, please contact our Sales Department.

Burst Disc Adaptor





The burst disc adaptor assembly is designed to hold a 65mm/65mm XL burst disc between the tank and a 2½" BSP relief valve. It is designed for use in conjunction with the Fort Vale manometer to monitor the integrity of the disc. (Burst disc not included)

| Description | Part No. |
|----------------------------|-----------|
| Burst disc adaptor | 176/7020 |
| 65mm/65mm XL bursting disc | 862/XXXXX |



Weld-in Sockets & Weld-in Nipple





Tank Weld-in Sockets are available in four sizes - 1", 11/2", 2" and 21/2". The Tank Weld-in Nipple is available in one size only to accommodate a 1" Minnow relief valve with female thread. All are heavy duty and the sockets have oversized threads to alleviate the need for re-tapping after welding. Contact parts manufactured in 316 stainless steel.

| Description | Part No. |
|--------------------|----------|
| 1" weld-in nipple | 600/1026 |
| 1" weld-in socket | 600/1025 |
| 1½" weld-in socket | 600/1010 |
| 2" weld-in socket | 600/1017 |
| 2½" weld-in socket | 600/1000 |

Pressure Gauge





The pressure gauge is designed to be used for pressure readings of tanks. It may be fitted either above or below a burst disc. All models have a 63mm (2½") stainless steel casing, are oil damped and have dual markings in Bar and PSI from 0 - 7 Bar (0-100 PSI). The gauge has a 1/4" BSP male connection (1/4" NPT available). We offer a choice of rear entry or bottom entry and brass or stainless steel internal parts.

| Description | Part No. |
|----------------------------------------------|------------|
| 0-7 Bar / 0-100 PSI pressure gauge, | 921/07BBSP |
| bottom entry, brass internal parts | |
| 0-7 Bar / 0-100 PSI pressure gauge, rear | 921/07RBSP |
| entry, brass internal parts | |
| 0-7 Bar / 0-100 PSI pressure gauge, | 920/07BBSP |
| bottom entry, stainless steel internal parts | |

Relief Valve Maintenance





The special tools necessary for satisfactory maintenance and refurbishment of Fort Vale Twinact relief valves are available as a universal kit, part number 400/2000.

| Description | Part No. |
|-------------------------------------|----------|
| C spanner (1½" & 2½") | 400/3000 |
| O ring sleeve (2½") | 400/8135 |
| Vacuum assembly C clamp (1½" & 2½") | 400/8310 |
| Vacuum poppet tool (2½") | 400/8320 |
| Top cap assembly tool (1½" & 2½") | 400/8330 |
| Pressure plate lift spacer (2½") | 400/8335 |
| O ring sleeve (2½") | 400/8350 |
| Vacuum poppet O ring press (2½") | 400/8351 |
| Vacuum poppet tool (1½") | 400/8420 |
| Pressure plate lift spacer (1½") | 400/8435 |
| O ring sleeve (1½") | 400/8450 |
| Vacuum poppet O ring press (1½") | 400/8451 |

FORT VALE

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