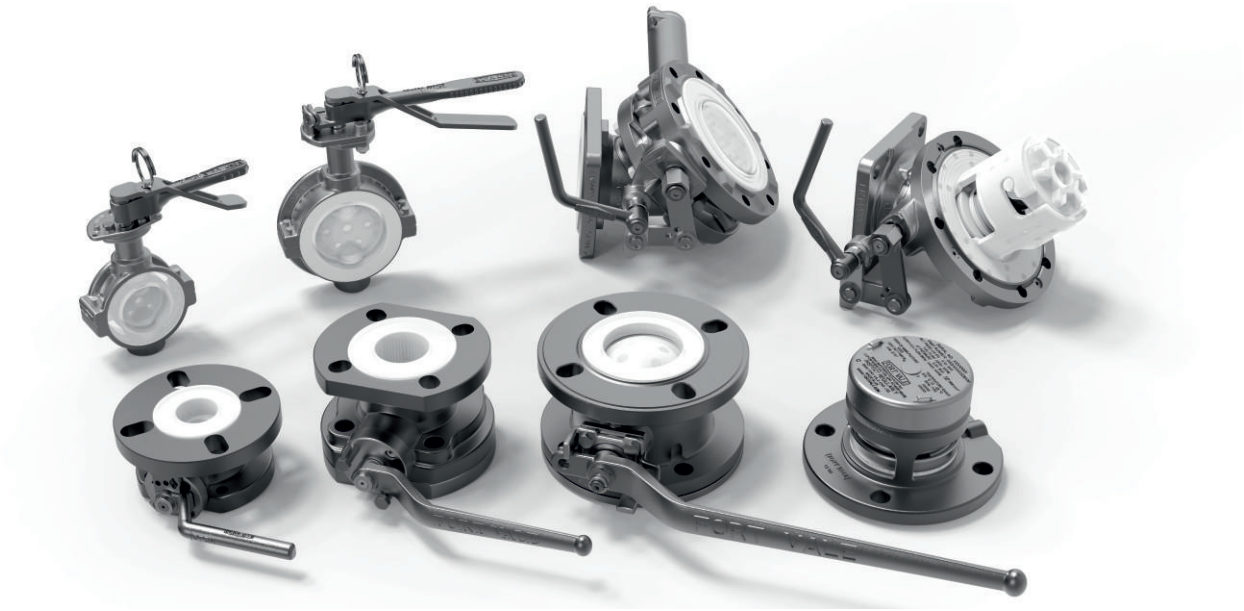
FORT VALE®



Catalogue

Lined Equipment for Special Service Conditions

REV04-20.12.22

FORT VALE

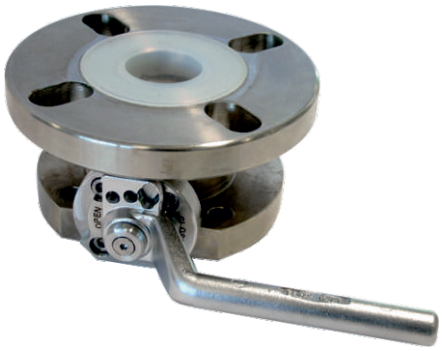
CONTENTS

Lined Equipment for Special Service Conditions

Catalogue

25mm Reduced Bore Airline Ball Valve - PFA Lined

Part No: 530/P100



Specification

Nominal size
25mm

Tank connection
Flanged: 4 x 11mm holes on a 103.5mm PCD

Outlet/process connection
Flanged: 4 x 18mm slots on a 100mm to 125mm PCD

Options
Finish: Corrosion-resistant paint on external surfaces to prevent damage from corrosive cargo vapour/splash

Materials
Contact parts: PFA lined
Main seal: PTFE

Refer to Range for other PFA Lined Ball Valves
Alternatives are available, refer to the Design Options page

Design Conditions

Weight:	5.0 Kg
Design Pressure (MAWP):	6.9 Bar
Test Pressure:	12.8 Bar
Design Temperature Min:	-40°C
Design Temperature Max:	200°C

NOTE: The Design Conditions and Section View dimensions are for the specified part number only.

Design Code
BS EN14432

Range

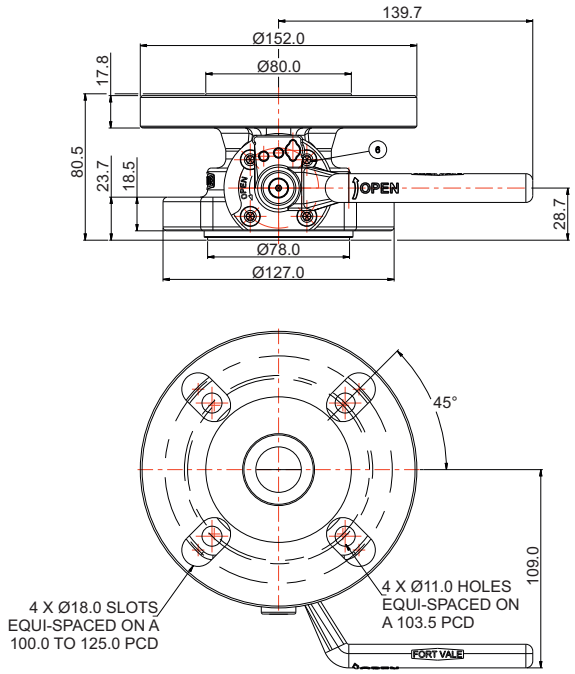
Description	Part No.
25mm reduced bore ball valve PFA lined	530/P100
50mm full bore ball valve PFA lined	370/P200
80mm full bore ball valve PFA lined	360/P030X *

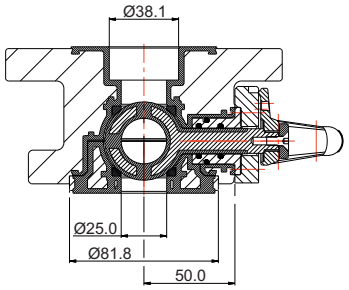
*The part number changes for left or right hand operated

Related Parts

Description	Part No.
Weld-in flange	350/0024
Stud kit	355/1250
Blind flange	530/8053CM
Solid PTFE outlet gasket	5005-348
Bolting kit	311/3510

Section View

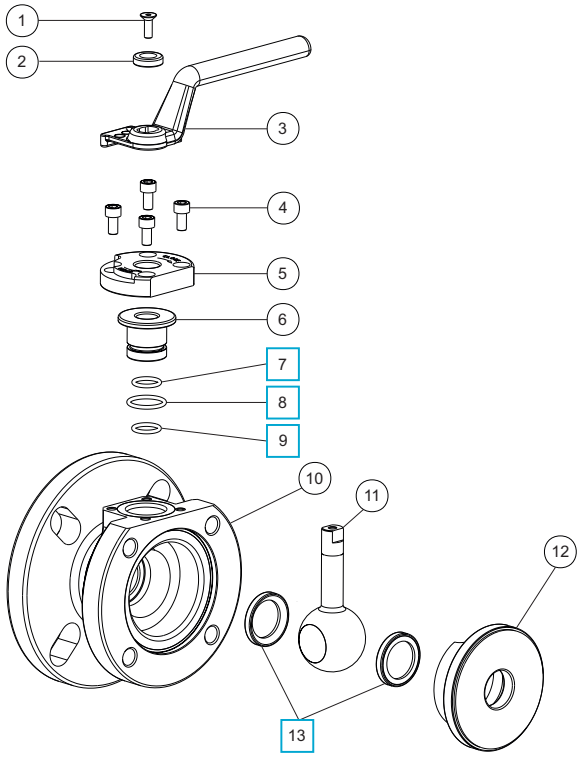




25mm Reduced Bore Airline Ball Valve - PFA Lined

Part No: 530/P100

Parts Drawing



Parts List

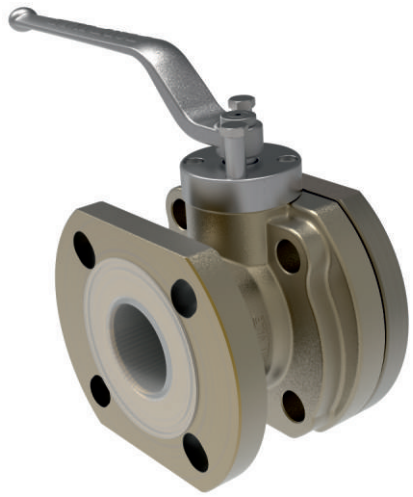
Item	Description	Part No.	
1	M5 socket screw	5111-111	
2	Retaining washer	20370/5	
3	Handle	530/0020/1	
4	M6 button screw (4)	5121-013	
5	Stuffing clamp	530/1014	
6	Seal carrier	530/1013	
7	Perfluoroelastomer O ring	5005-586	☐
8	Perfluoroelastomer O ring	5005-384	☐
9	Fortyt O ring	5005-601	☐
10	PFA lined body	530/P110/2	
11	PFA lined obturator	530/1010L	
12	PFA lined clamp plate	530/1011P	
13	PTFE front/rear seal (2)	530/0024	☐

Seal Kit

Description	Part No.
All parts marked ☐ in the Parts List	530/P1SK

50mm Full Bore Ball Valve - PFA Lined

Part No: 370/P200



Specification

Nominal size
50mm

Tank connection
Flanged: 4 x 18mm holes on a 126mm PCD

Outlet/Process connection
Flanged: 4 x 18mm slots on a 120 - 127mm PCD

Options
Finish: Corrosion-resistant paint on external surfaces to prevent damage from corrosive cargo vapour/splash

Materials
Contact parts: PFA lined
Main seal: PTFE

Refer to Range for other PFA Lined Ball Valves

Alternatives are available, refer to the Design Options page

Design Conditions

Weight:	9.76 Kg
Design Pressure (MAWP):	6.9 Bar
Test Pressure:	12.6 Bar
Design Temperature Min:	-40°C
Design Temperature Max:	200°C

NOTE: The Design Conditions and Section View dimensions are for the specified part number only.

Design Codes
BS EN14432
RID

Range

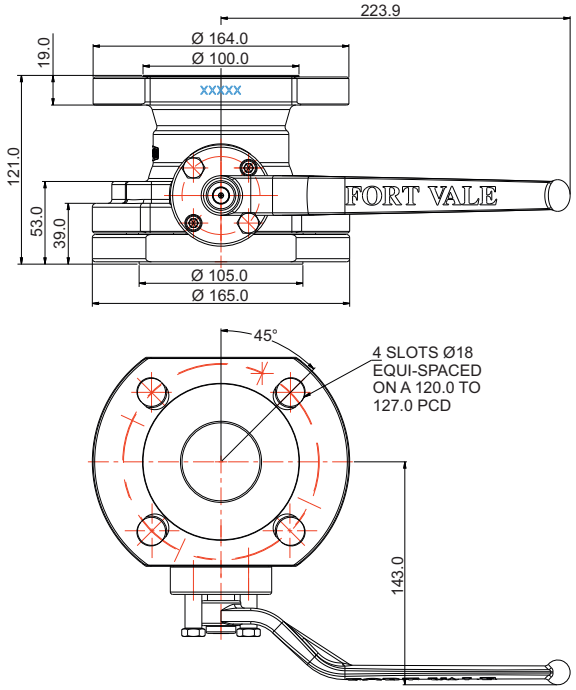
Description	Part No.
25mm reduced bore ball valve PFA lined	530/P100
50mm full bore ball valve PFA lined	370/P200
50mm ball valve PFA lined, painted body	370/P200PA
80mm full bore ball valve PFA lined	360/P030X *

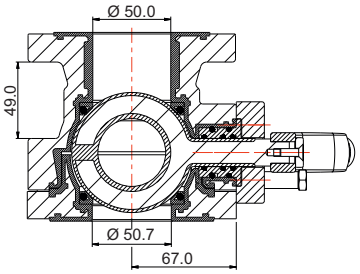
*The part number changes for left or right hand operated

Related Parts

Description	Part No.
Stud kit	311/3790
Bolting kit	311/3590
PFA lined blind flange	370/4239PFA

Section View

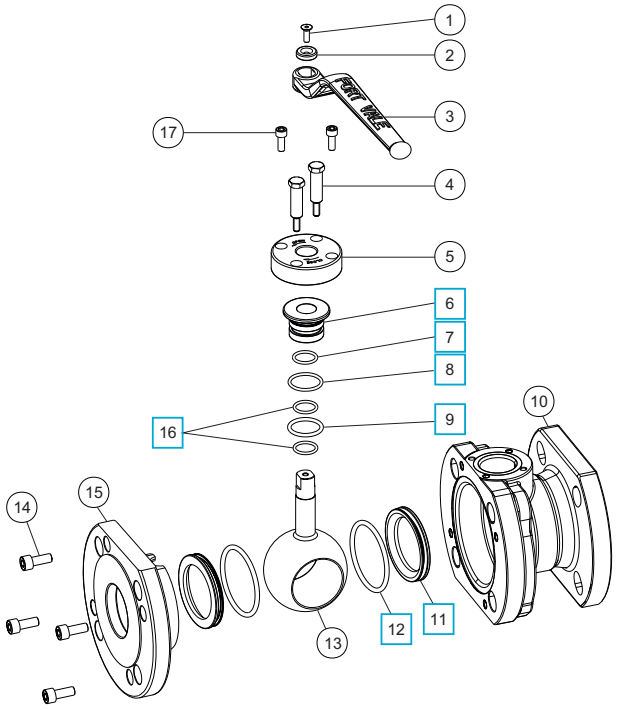




50mm Full Bore Ball Valve - PFA Lined

Part No: 370/P200

Parts Drawing



Parts List

Item	Description	Part No.	
1	M5 screw	5111-113	
2	Retaining washer	20370/5	
3	Handle	370/3306/1	
4	Stop pin (2)	370/P107	
5	Stuffing plate	370/P114	
6	Seal carrier	370/P113	☐
7	Viton O ring	ORB115VL	☐
8	Viton O ring	ORB121VL	☐
9	Perfluoroelastomer O ring	5005-214PER	☐
10	PFA lined body	370/P110/2	
11	PTFE ball seal (2)	370/P115	☐
12	Fortyt O ring (2)	ORM0580400F0	☐
13	PFA lined spindle/ball	370/P101	
14	M8 cap screw (4)	5111-010	
15	PFA lined clamp plate	370/P111	
16	Perfluoroelastomer O ring (2)	5005-370P	☐
17	M6 cap screw (2)	5111-015	

Seal Kit

Description	Part No.
All parts marked ☐ in the Parts List	370/P100SK

80mm Full Bore Ball Valve - PFA Lined

Part No: 360/P030X

Specification

Nominal size
80mm

Tank connection
Flanged: 4 x 18mm holes on a 160mm PCD

Outlet/Process connection
Flanged: 4 x 18mm slots on a 146-160mm PCD

Options
Left hand operated, right hand operated
Finish: Corrosion-resistant paint on external surfaces to prevent damage from corrosive cargo vapour/splash

Materials
Contact parts: PFA lined
Main seal: PTFE

Refer to Range for other PFA Lined Ball Valves
Alternatives are available, refer to the Design Options page

Design Conditions

Weight:	12.6 Kg
Design Pressure (MAWP):	6.9 Bar
Test Pressure:	10.34 Bar
Design Temperature Min:	-40°C
Design Temperature Max:	130°C

NOTE: The Design Conditions and Section View dimensions are for the specified part number only.

Design Codes
BS EN14432
RID

Range

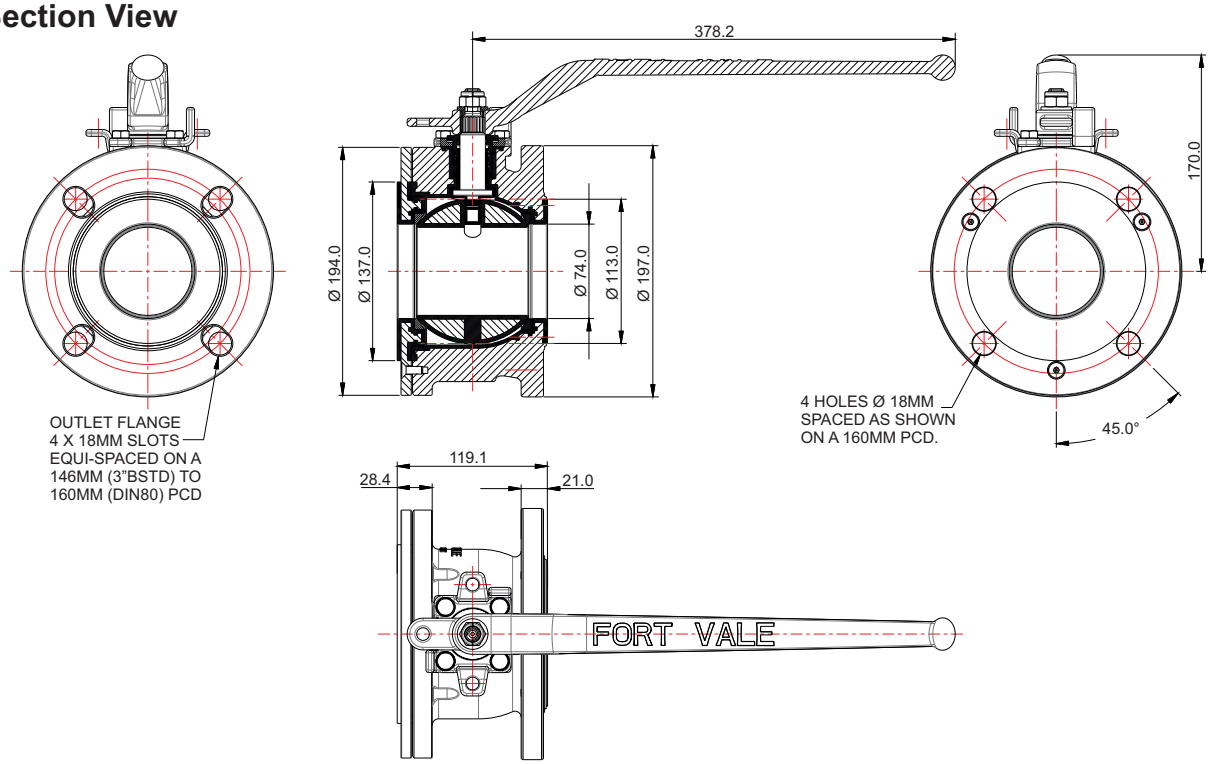
Description	Part No.
25mm reduced bore ball valve PFA lined	530/P100
50mm full bore ball valve PFA lined	370/P200
80mm full bore ball valve PFA lined	360/P030X *

*The part number changes for left or right hand operated

Related Parts

Description	Part No.
3" BSP Halar lined outlet flange	368/8047L
Solid PTFE outlet gasket	5005-417
PFA lined blind flange	360/8095P

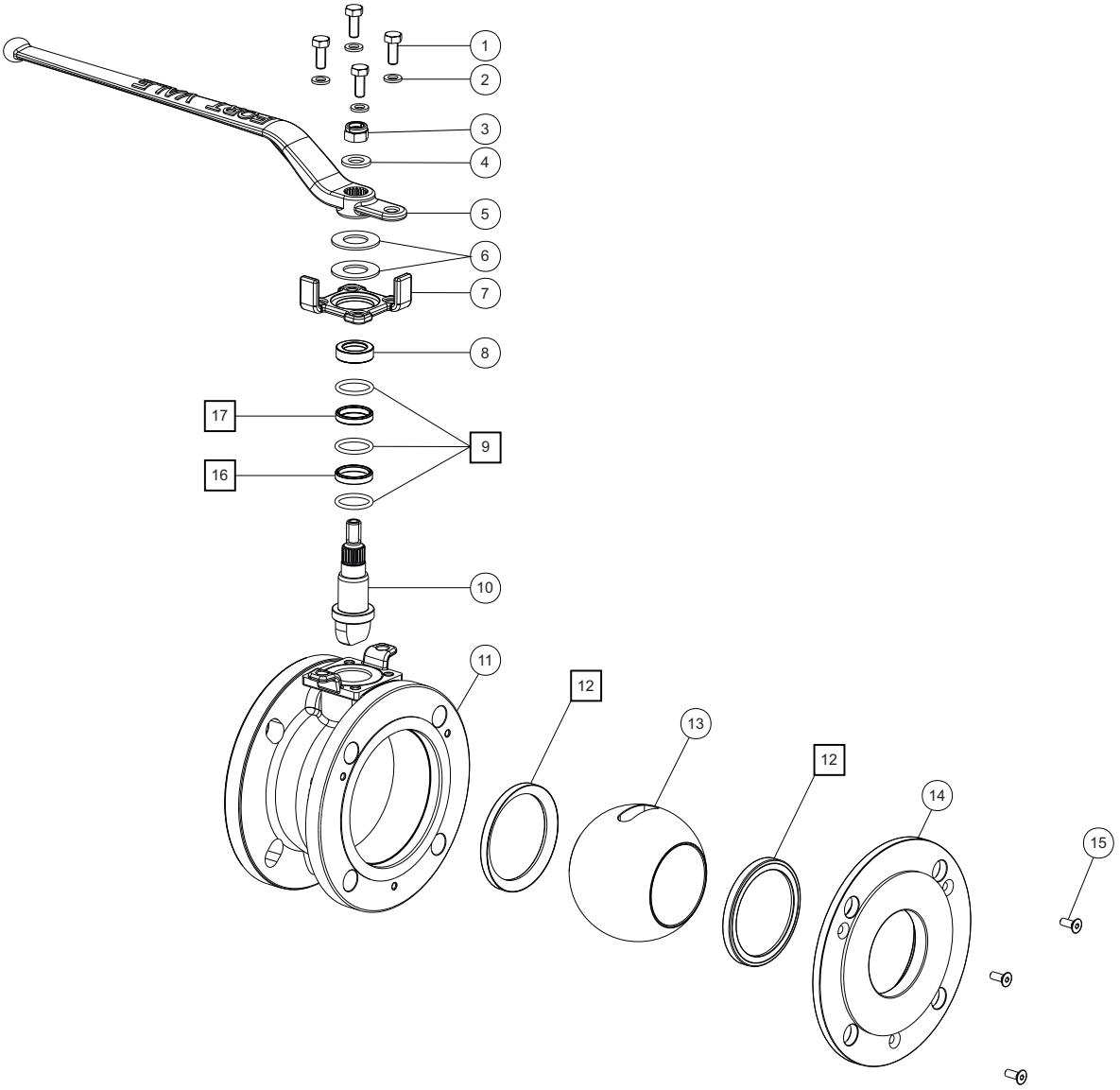
Section View



80mm Full Bore Ball Valve - PFA Lined

Part No: 360/P030X

Parts Drawing



Parts List

Item	Description	Part No.	
1	M8 hex bolt (4)	5111-046	
2	M8 spring washer (4)	5113-003	
3	M12 locking nut	5112-007	
4	M12 washer	5123-003	
5	Handle	360/3416	
6	20mm washer (2)	5113-041	
7	Clamp plate	360/3406/1	
8	Stainless steel stuffing collar	360/3464	
9	PTFE O ring (3)	5005-654	☐
10	PFA lined spindle	360/3422PL	
11	PFA lined body	360/P020	
12	PTFE front & rear seal (2)	360/3402/5	☐
13	PFA coated ball	360/3401PL	
14	PFA lined clamp plate	360/3462PL	

Parts List

Item	Description	Part No.	
15	M6 countersunk bolt (3)	5111-030	
16	Bottom stuffing collar	360/3413/1	☐
17	Top stuffing collar	360/3412/1	☐

Seal Kit

Description	Part No.
All parts marked ☐ in the Parts List	360/P0SK

2" Clamped Butterfly Valve - PFA Lined

Part No: 258/P700

Specification

Nominal size
50mm

Body type
Clamped

Properties
In-line spindle and closure plate
Left hand operated, handle with TIR and padlock slots

Materials
Contact parts: PFA lined

Alternatives are available, refer to the Design Options page

Design Conditions

Weight:	2.2 Kg
Design Pressure (MAWP):	4 Bar
Test Pressure:	6.4 Bar
Design Temperature Min:	-40°C
Design Temperature Max:	150°C

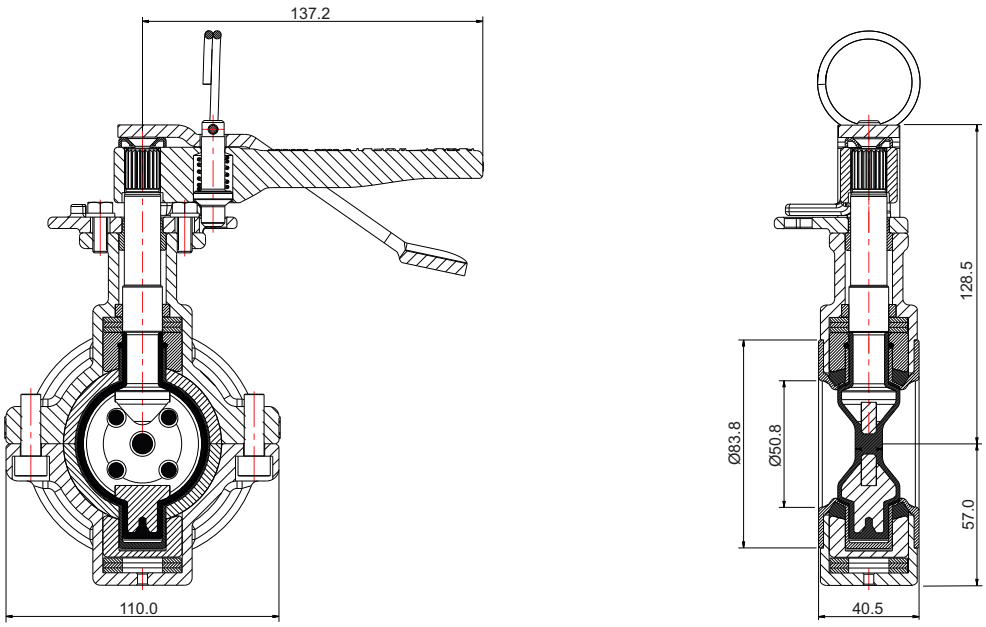
NOTE: The Design Conditions and Section View dimensions are for the specified part number only.

Design Code
BS EN 14432

Range

Description	Part No.
2" clamped PFA lined butterfly valve	258/P700
3" clamped PFA lined butterfly valve	358/P700

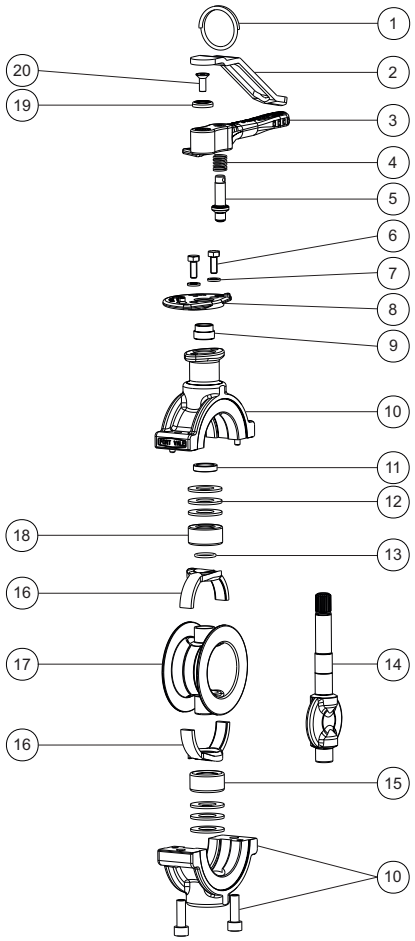
Section View



2" Clamped Butterfly Valve - PFA Lined

Part No: 258/P700

Parts Drawing



Parts List

Item	Description	Part No.
1	Split ring	368/0011
2	Handle lever	368/9838
3	Handle	368/0051
4	Handle spring	368/0012
5	Handle location pin	368/0010
6	M6 hex bolt (2)	5111-022
7	M6 spring washer (2)	5113-008
8	Stuffing clamp	535/0204
9	Stuffing clamp bush	368/0301
10	Body assembly	258/P253
11	Top guide bush	358/P236
12	Belleville washer (6)	5113-052
13	Perfluoroelastomer O ring	5005-216PER
14	PFA lined spindle/closure plate	258/P235
15	Bottom thrust bearing	358/P233/1
16	Backing rubber (2)	258/P257
17	PFA body seal	258/P250
18	Stem seal housing	358/P233
19	Retaining washer	20370
20	M6 countersunk bolt	5111-030

3" Clamped Butterfly Valve - PFA Lined

Part No: 358/P700

Specification

Nominal size
80mm

Body type
Clamped

Properties
In-line spindle and closure plate
Left hand operated, handle with TIR and padlock slots

Materials
Contact parts: PFA lined

Alternatives are available, refer to the Design Options page

Design Conditions

Weight:	3.7 Kg
Design Pressure (MAWP):	4 Bar
Test Pressure:	6 Bar
Design Temperature Min:	-40°C
Design Temperature Max:	200°C

NOTE: The Design Conditions and Section View dimensions are for the specified part number only.

Design Code
BS EN 14432

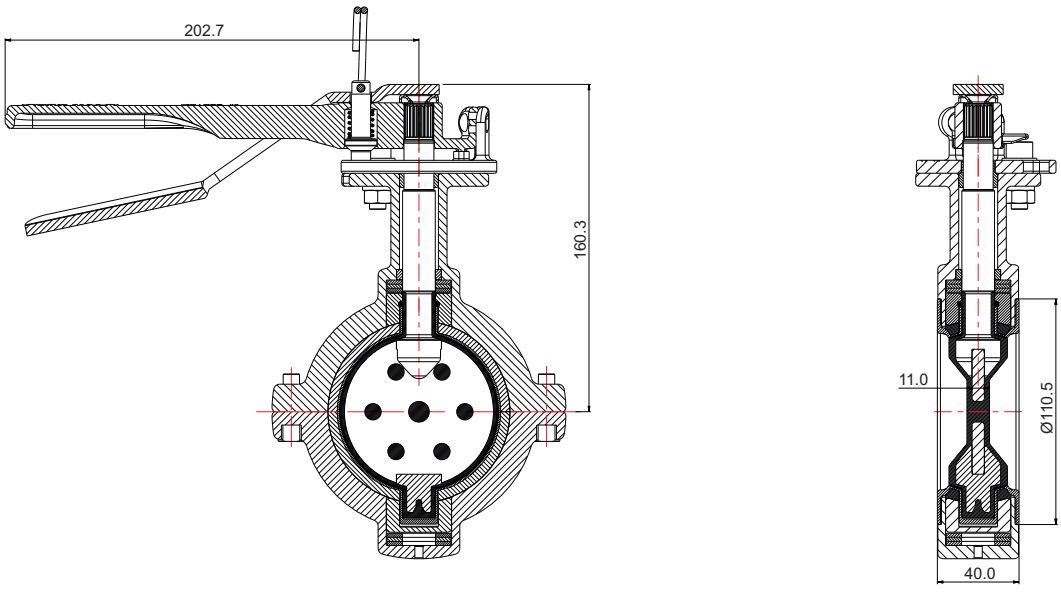
Range

Description	Part No.
2" clamped PFA lined butterfly valve	258/P700
3" clamped PFA lined butterfly valve	358/P700

Related Parts

Description	Part No.
3" BSP outlet flange - Halar lined	368/8047L
3" BSP cap with chain	10303SS
PTFE disc seal for 3" cap	10329P/1

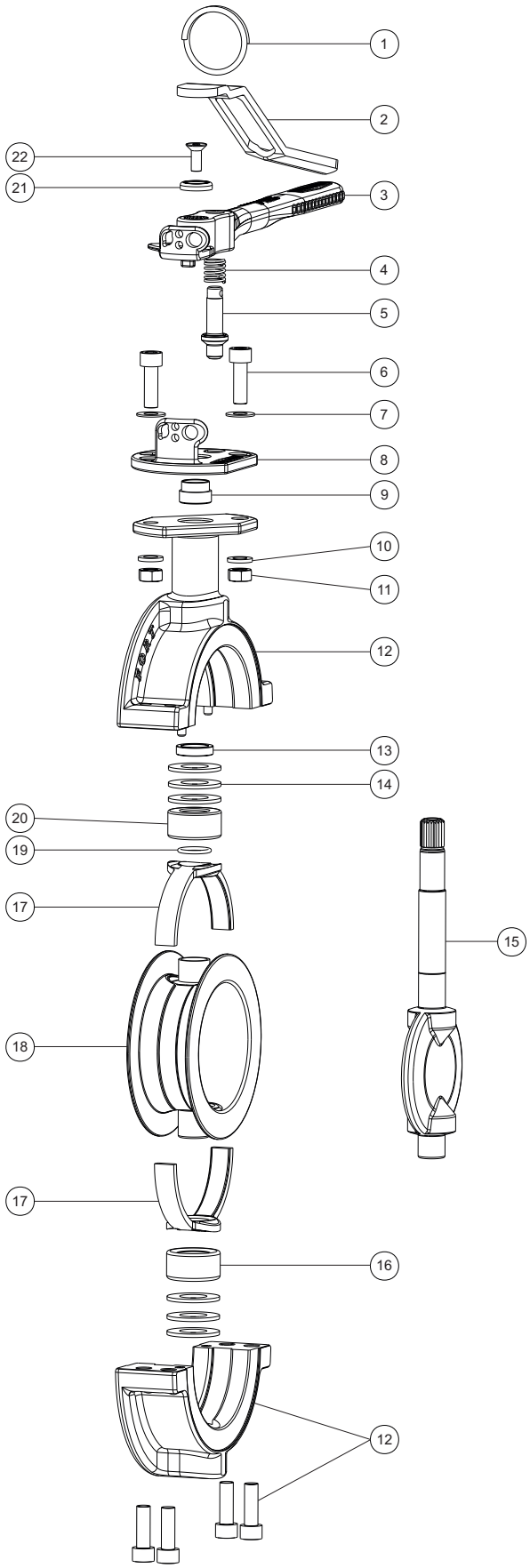
Section View



3" Clamped Butterfly Valve - PFA Lined

Part No: 358/P700

Parts Drawing



Parts List

Item	Description	Part No.
1	Split ring	368/0011
2	Handle lever	368/9837
3	Handle	368/0050
4	Handle spring	368/0012
5	Handle location pin	368/0010
6	M8 cap screw (2)	5111-148
7	M8 plain washer (2)	5113-005
8	Stuffing clamp	368/0040
9	Stuffing clamp bush	368/0301
10	M8 spring washer (2)	5113-003
11	M8 full nut (2)	5112-001
12	Body assembly	358/P253
13	Top guide bush	358/P236
14	Belleville washer (6)	5113-052
15	PFA lined spindle/closure plate	358/P235
16	Bottom thrust ring	358/P233/1
17	Backing rubber (2)	358/P257
18	PFA body seal	358/P250
19	Perfluoroelastomer O ring	5005-216PER
20	Stem seal housing	358/P233
21	Retaining washer	20370
22	M6 countersunk bolt	5111-030

3" Cleanflow Footvalve with 45° Outlet - PFA Lined

Part No: 845/P1205

Specification

Nominal size/body angle
80mm / 45°

Inlet connection
Flanged: 8 x 14mm holes equi-spaced on a 178mm PCD

Outlet connection
Flanged: 4 x 17mm holes on a 160mm PCD

Properties
2-part body assembly: inlet cassette with poppet and operating assembly; 45° outlet assembly

Materials
Inlet cassette and outlet assembly contact parts: 316 stainless steel with PFA moulded lining
Main seal: Fortyt

Alternatives are available, refer to Range

Design Conditions

Weight:	17.7 Kg
Design Pressure (MAWP):	4 Bar
Test Pressure:	7.3 Bar
Design Temperature Min:	-40°C
Design Temperature Max:	200°C

NOTE: The Design Conditions and Section View dimensions are for the specified part number only.

Design Codes
BS EN 14433

Range

Description	Part No.
3" 45° valve, PFA lined inlet/outlet	845/P1205
3" 30° valve, PFA lined inlet, Halar ® lined outlet	848/P1000
3" 90° valve, PFA lined inlet, Halar ® lined outlet	844/P3000

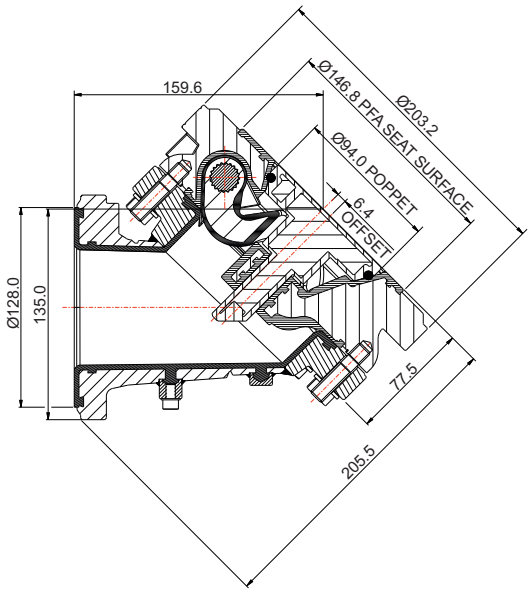
Related Parts

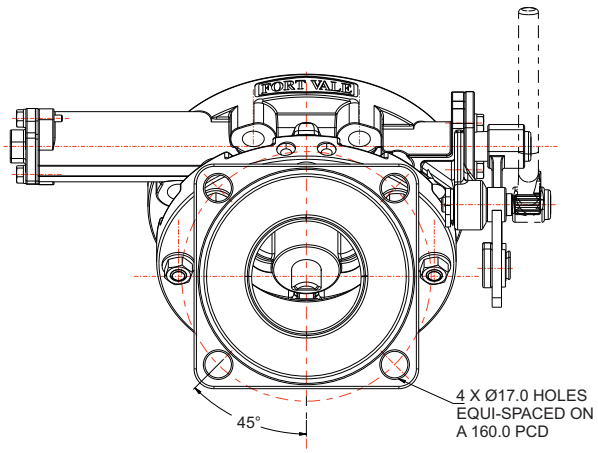
Description	Part No.
Weld-in flange for lining	324/9000L
Stud kit	845/P128

GASKETS: Do not install an inlet gasket. Do not install a gasket between the inlet cassette and the outlet assembly.

If a Fort Vale PFA lined ball valve or PFA lined butterfly valve is installed to the outlet assembly, do not install an intermediate gasket.

Section View

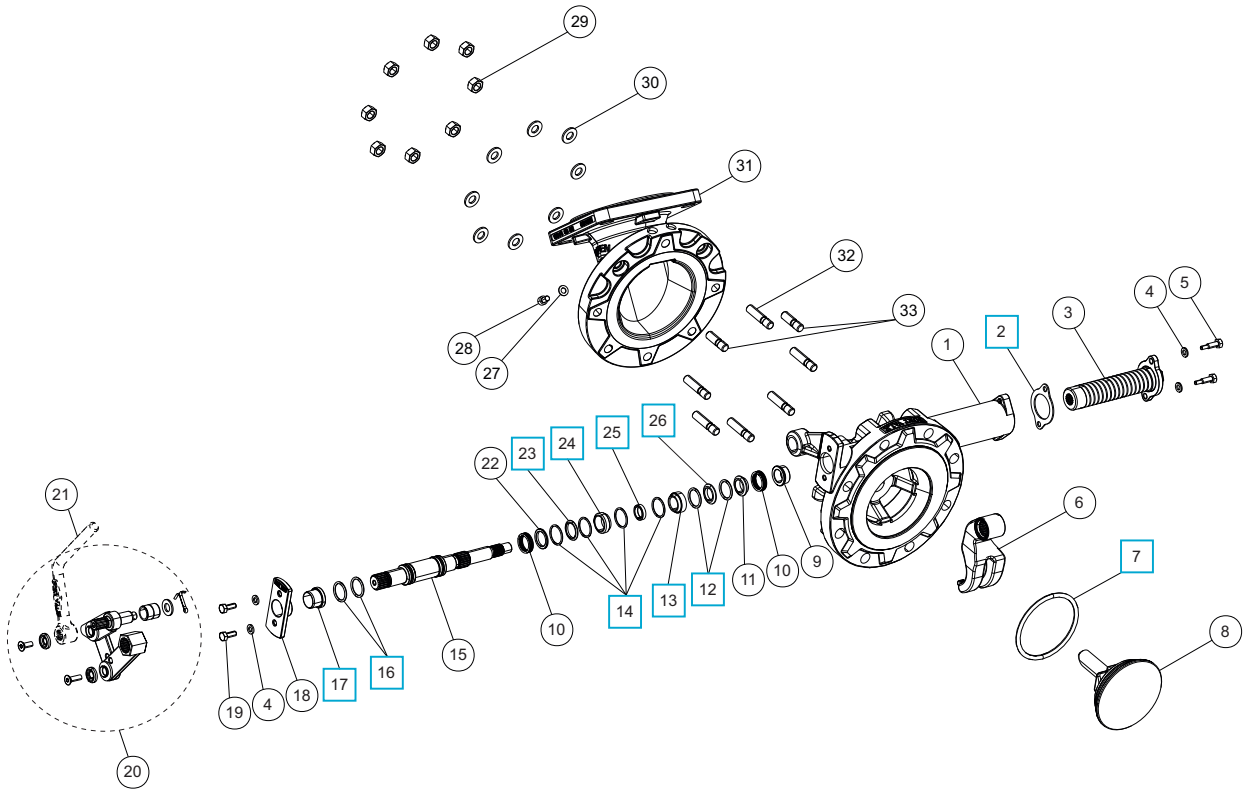




3" Cleanflow Footvalve with 45° Outlet - PFA Lined

Part No: 845/P1205

Parts Drawing



Parts List

Item	Description	Part No.
1	PFA lined body	845/P137LM
2	Spring housing gasket	5005-846 ☐
3	Torsion spring assembly	875/0050
4	M6 spring washer (4)	5113-008
5	M6 special hex screw (2)	845/0017
6	PFA lined lifting fork	845/P124L
7	Fortyt O ring	5005-108H ☐
8	PFA lined poppet	845/P125LM
9	Spindle bearing	845/P127/3
10	Spirawave spring (2)	5104-027
11	Spring housing bush	845/P127/4
12	Perfluoroelastomer O ring (2)	5005-384 ☐
13	Spindle bush	845/P127/2 ☐
14	Perfluoroelastomer O ring (4)	ORB020K8 ☐
15	Main spindle	845/P126
16	Viton O ring (2)	5005-336 ☐
17	RTFE spindle stuffing seal	845/0061 ☐
18	Stuffing clamp flange	845/0016
19	M6 x 16mm hex head bolt (2)	5111-022
20	Handle linkage assembly	324/8910
21	Handle - supplied separate	324/8670
22	Wave spring seating washer	845/P127/5
23	Handle side chevron	845/P127/6 ☐

Parts List

Item	Description	Part No.
24	Spindle bush	845/P127/1 ☐
25	Support ring	845/P127/8 ☐
26	Spring side chevron	845/P127/7 ☐
27	M6 plain washer	5113-001
28	M6 cap screw	5111-061
29	M10 full nut (8)	5112-002
30	M10 washer (8)	5113-025
31	45° PFA lined outlet assembly	845/P123/45P
32	M10 x 45mm stud (6)	371/0002
33	M10 x 35mm stud (2)	371/0001

Seal Kit

Description	Part No.
All parts marked ☐ in the Parts List	845/P12SK

3" 45° Cleanlift Footvalve - PFA Lined

Part No: 870/P1200

Specification

Nominal size/body angle
80mm / 45°

Inlet connection
Flanged: 8 x 14mm holes equi-spaced on a 178mm PCD

Outlet connection
Flanged: 4 x 17mm holes on a 160mm PCD

Materials
Contact parts: 316 stainless steel with PFA moulded lining
Main seal: Fortyt

Design Conditions

Weight:	11.8 Kg
Design Pressure (MAWP):	4 Bar
Test Pressure:	6 Bar
Design Temperature Min:	-40°C
Design Temperature Max:	200°C

NOTE: The Design Conditions and Section View dimensions are for the specified part number only.

Design Codes
BS EN 14433

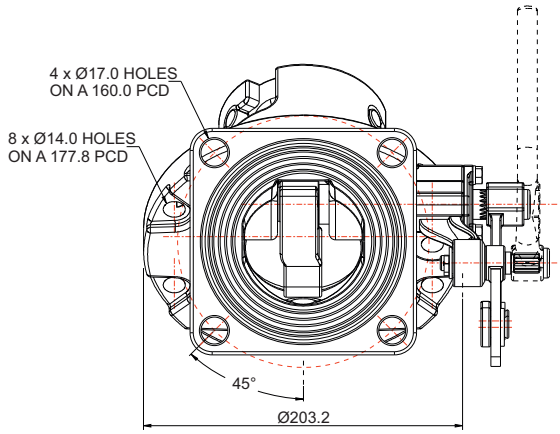
Related Parts

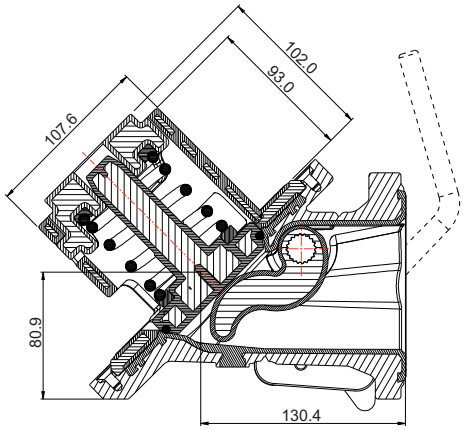
Description	Part No.
Weld-in flange for lining	324/9000L
Stud kit	312/1177

GASKETS: Do not install an inlet gasket.

If you install a Fort Vale PFA lined ball valve or PFA lined butterfly valve to the outlet, do not install an intermediate gasket.

Section View

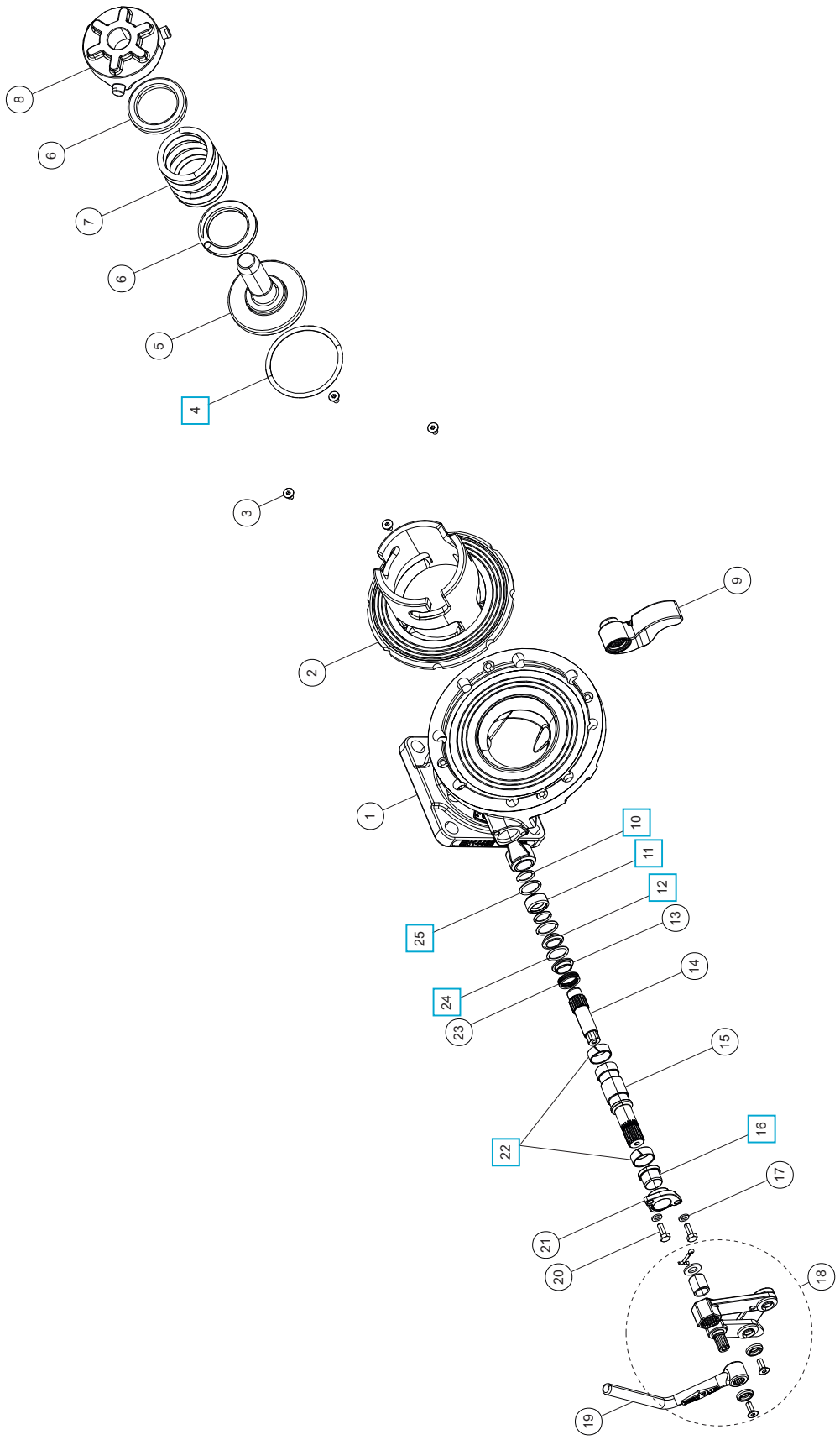




3" 45° Cleanlift Footvalve - PFA Lined

Part No: 870/P1200

Parts Drawing



3" 45° Cleanlift Footvalve - PFA Lined

Part No: 870/P1200

Parts List

Item	Description	Part No.
1	PFA lined body	870/P1370LM
2	PFA lined cage	870/P1371LM
3	6mm countersunk bolt (4)	5111-018
4	Fortyt O ring	ORB337F1 ☐
5	PFA lined poppet	870/P125LM
6	PTFE spring support plate (2)	870/1146
7	PFA lined spring	5104-865P
8	PFA lined spring retainer cap	870/P1374LM
9	PFA lined lifting fork	870/P124L
10	Viton O ring (2)	5005-134V ☐
11	RTFE spindle bush	870/P127/1 ☐
12	RTFE spindle bush	870/P127/2 ☐
13	Spring housing bush	845/P127/4
14	Spindle section 2	870/P128
15	Spindle section 1	870/P129
16	PTFE spindle stuffing seal	845/0061 ☐
17	M6 spring washer (2)	5113-008
18	Handle linkage assembly	324/8910
19	Handle ***Note**	324/8670
20	M6 hex bolt (2)	5111-022
21	Stuffing clamp flange	870/P1376C
22	Split bearing (2)	874/0023 ☐
23	Spirawave spring	5104-027
24	Viton O ring	5005-336 ☐
25	Perfluoroelastomer O ring (2)	5005-384 ☐

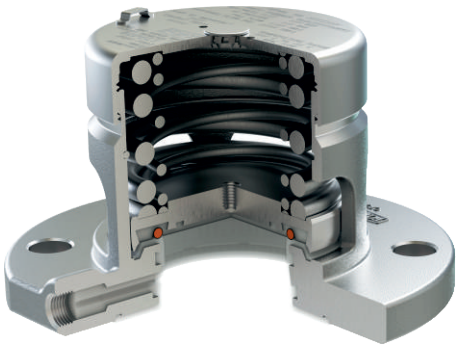
NOTE: The handle is sold separately. We recommend the handle shown, but other types are available.

Seal Kit

Description	Part No.
All parts marked ☐ in the Parts List	870/P12SK

65mm Super Maxi Relief Valve - PFA Lined Pressure Only

Part No: 0U3/1XXX006SL - Metric Setting



Specification

Nominal size
DN65

Tank connection
Flanged: 4 x 18mm slots on a 145.0mm/152.4mm min/max PCD. ¼" BSP gauge connection

Set pressure
From 0.15 Bar to 5.15 Bar

Options
Finish: Corrosion-resistant paint on external surfaces to prevent damage from corrosive cargo vapour/splash

Materials
Body & pressure plate: PFA lined
Springs: Halar® lined
Pressure O ring: Fortyt

Alternatives are available, refer to the Design Options page

Design Conditions

Weight:	5.7 Kg
Design Pressure (MAWP):	6 Bar
Test Pressure:	10.1 Bar
Design Temperature Min:	-55°C
Design Temperature Max:	150°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.

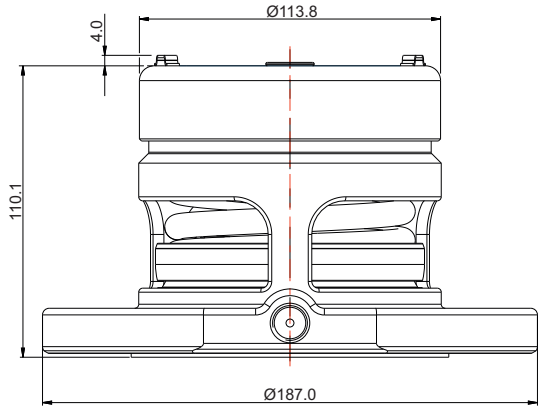
Design Codes
Design Approval by Lloyds Register of Shipping

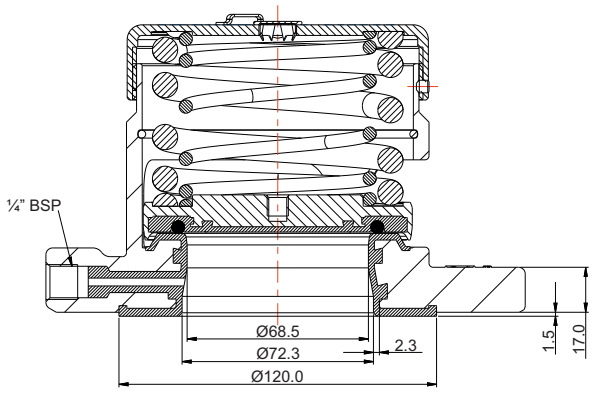
WARNING: If you install an approved relief valve accessory item, e.g. a flame arrester, cowl, burst disc or baffle, it will decrease the air flow capacity of the relief valve. Thus, you must calculate again to make sure that the decreased air flow capacity will give sufficient protection to your vessel/system.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

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**	176/2900
M16 stud kit: 150 & 152.4 PCD	311/3700
M16 cap screw bolt kit: 145 & 146 PCD	311/3785

Section View

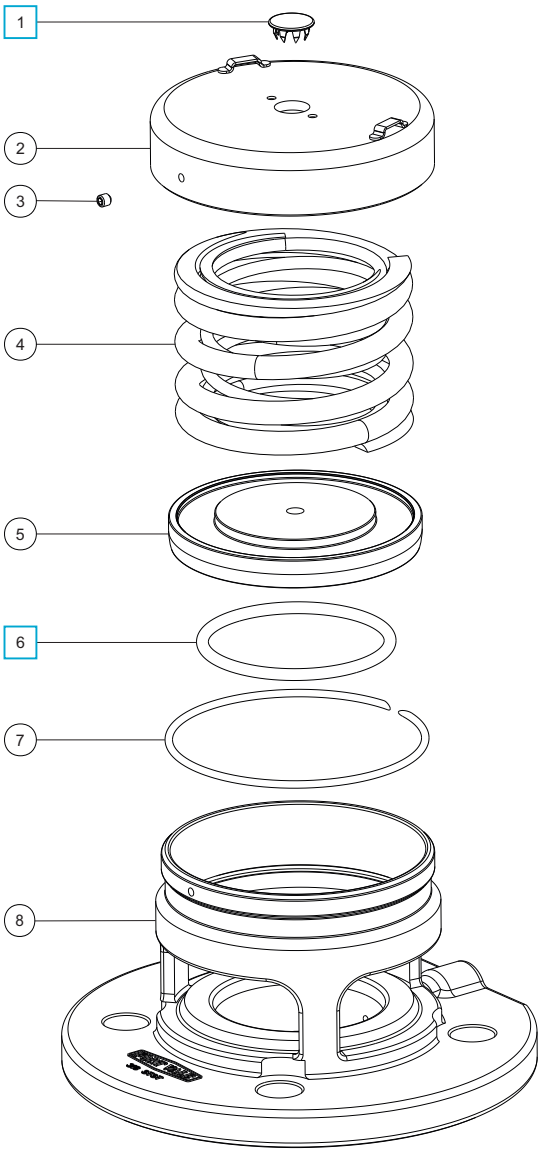




65mm Super Maxi Relief Valve - PFA Lined Pressure Only

Part No: 0U3/1XXX006SL - Metric Setting

Parts Drawing



Parts List

Item	Description	Part No.
1	Stainless steel plug	10978 ☐
2	Cap ***Note**	1860/0046XXX
3	Anti-tamper screw	5121-001
4	Halar® coated springs ***Note**	6104-XXXXX
5	PFA lined pressure plate ***Note**	1860/PX58XXX
6	Fortyt pressure O ring	5005-101 ☐
7	Retaining ring clip	5120-067
8	PFA lined body	1860/06SLU

NOTE: The valve specification changes the Part No.

Seal Kit

Description	Part No.
All parts marked ☐ in the Parts List	000/1PSK

FORT VALE

APPENDIX

Catalogue

Flange Bolting

CAUTION: Weld-distortion and too much tightening force will cause damage to a flange.

It is important not to cause damage to weld-in flanges and mating flanges. If a flange is damaged it will not give a satisfactory seal when a gasket and secondary mating flange is installed.

Bolt-stress can decrease after initial tightening. The cause can be deformation of the gasket material, particularly with soft materials such as a CNAF/PTFE envelope gasket.

Best procedure recommends that, after initial bolting, the flange joint is tightened again after a period of time. Most gasket manufacturers advise a period of 24 hours. ASME PCC-1-2000 GUIDELINES FOR PRESSURE BOUNDARY BOLTED FLANGE JOINT ASSEMBLY advises a minimum period of 4 hours.

Bolt torque calculations are based on a flat flange to within 0.15mm.

Recommended bolt torque values will be reduced if a lubrication is used.

Bolt Torque

Bolt Torque Values

Fort Vale bolt torque values are given as a reference guide only and are based on:

- The use of a CNAF/PTFE gasket.
- Unlubricated fasteners.
- A flange flat to within 0.15mm.

CAUTION: If you use a different gasket material, a lubricant, a flange with distortion, you must re-calculate the torque value.

Bolt Torque Procedure

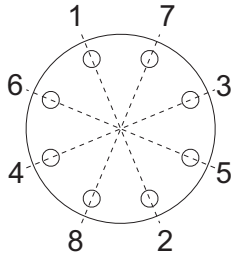
To install flanged parts correctly:

- Examine the mating flange of the part.
- If the flange is marked with a torque value, obey that torque value.
- If there is no torque value marked on the mating flange, obey the bolt torque values given in Table BT1.
- Tighten the bolts evenly in sequence. See Figure BT1.
- Obey the Step Loading Procedure (ASME PCC-1-2000). See next page.

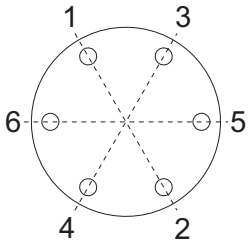
Table BT1

Thread	Torque Value
M10	30 Nm (22 lbf.ft)
M12	65 Nm (48 lbf.ft)
M16	81 Nm (60 lbf.ft)

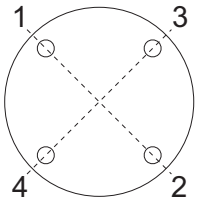
Figure BT1



8 HOLE PATTERN



6 HOLE PATTERN



4 HOLE PATTERN

Step Loading Procedure

To install flanged parts correctly, obey the Step Loading Procedure extract from ASME PCC-1-2000:

Install

Hand tighten, then “snug up” to 15 Nm (10 lbf.ft) to 30 Nm (20 lbf.ft) (not to exceed 20% of Target Torque).
Check flange gap around circumference for uniformity. If the gap around the circumference is not reasonably uniform, make the appropriate adjustments by selective tightening before proceeding.

Round 1

Tighten to 20% to 30% of Target Torque. Check flange gap around circumference for uniformity. If the gap around the circumference is not reasonably uniform, make the appropriate adjustments by selective tightening before proceeding.

Round 2

Tighten to 50% to 70% of Target Torque. Check flange gap around circumference for uniformity. If the gap around the circumference is not reasonably uniform, make the appropriate adjustments by selective tightening before proceeding.

Round 3

Tighten to 100% of Target Torque. Check flange gap around circumference for uniformity. If the gap around the circumference is not reasonably uniform, make the appropriate adjustments by selective tightening before proceeding.

Round 4

Continue tightening the bolts, but on a rotational clockwise pattern until no further nut rotation occurs at the Round 3 Target Torque value. For indicator bolting, tighten bolts until the indicator rod retraction readings for all bolts are within the specified range.

Round 5

Time permitting, wait a minimum of 4 hr and repeat Round 4; this will restore the short-term creep relaxation/embedment losses. If the flange is subjected to a subsequent test pressure higher than its rating, it may be desirable to repeat this round after the test is completed.

Compatibility

Make sure that the function and technical specification of the valve/accessory is compatible with the vessel service conditions and the cargo. This includes, but is not limited to:

- dimensions
- pressure/vacuum setting
- air/vapour/liquid flow capacity
- maximum allowable working pressure
- test pressure
- minimum/maximum design temperatures
- materials of construction.

Maintenance

Fort Vale valves and accessories have a long life if you use them correctly in compatible service conditions. It is not necessary to lubricate the parts, but we recommend that you do the checks that follow:

Visual checks at regular intervals:

1. Examine the valve to make sure there is no damage, wear or corrosion.
2. Examine the valve and adjacent area to make sure there is no leakage of cargo.
3. Examine the fasteners to make sure they are not loose.
4. Make sure the valve operates correctly.

CAUTION: If you operate the valve with very corrosive cargo, or near its temperature and/or pressure limit (very high or very low temperature and/or pressure), do the visual checks more frequently.

Also, schedule regular maintenance based on how frequently the valve is used, the type of cargo and the service conditions.

Checks after 2½ years of service:

1. Examine the valve to make sure there is no damage, wear or corrosion.
2. Make sure the valve operates correctly.
3. Do a pressure test on the valve.

Checks after 5 years of service:

1. Disassemble and clean the valve.
2. Replace all the valve seals and do a pressure test. .

Replacement Parts

Do not adapt or change the valve. If you install a replacement part, it must be a genuine Fort Vale part.

WARNING: If you install a part that is not genuine, there is a risk of:

- injury to personnel
- permanent damage to the valve
- permanent damage to the vessel
- valve malfunction.

External Fire

If you install the valve in an area where there is a risk of external fire, you must install compatible accessories to prevent damage to the valve.

Compatibility of Accessories

Accessory components must cause no interference with the valve's function. Accessories must be made from compatible materials that will cause no damage to the valve materials. Do not install an accessory that will cause an increased load on the valve, such as mechanical, static, dynamic or thermal load.

Mis-use

Obey the instructions and recommended procedures in the installation and operating instructions. Obey the pressure and temperature markings on the valve and on the drawing. Use the valve/accessory for its correct function only. Fort Vale accept no liability or responsibility for incorrect use of the valve/accessory.

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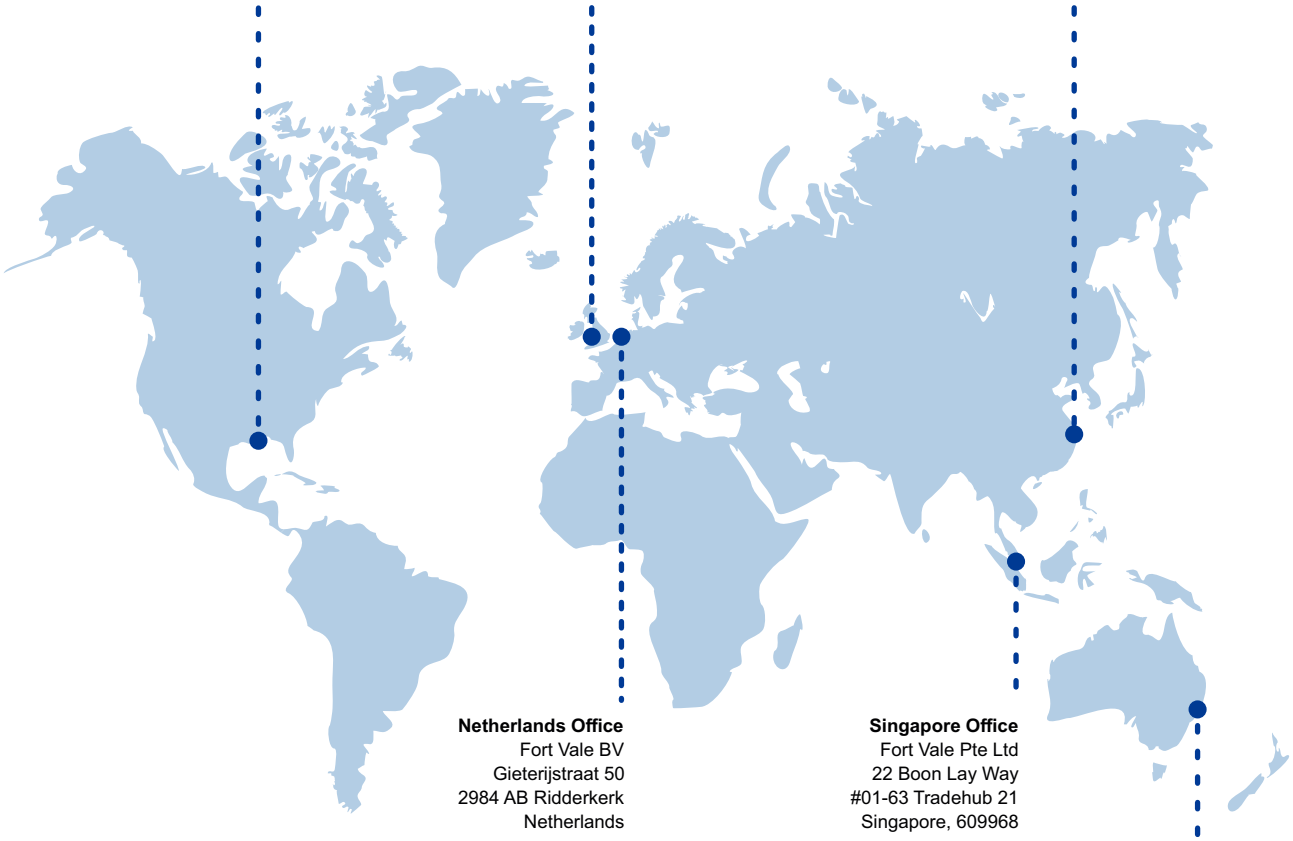

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