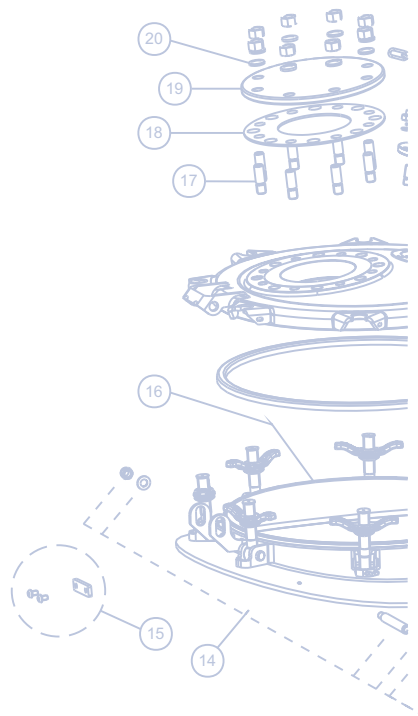
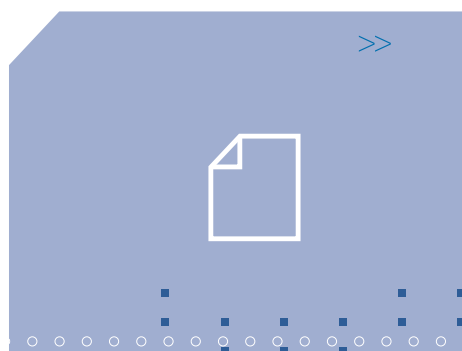




CATALOGUE

//



The Fort Vale
Range of
Equipment
to suit
Hydrogen Peroxide
Tank Specification

HYDROGEN PEROXIDE EQUIPMENT //

- » 500MM MANLID ASSEMBLY
- » 2½" BSP SUPER MAXI RELIEF VALVE
- » LOW PROFILE BREATHER ASSEMBLY
- » LOW PROFILE BURST DISC ASSEMBLY
- » 2" FULL BORE BALL VALVE
- » BOTTOM DISCHARGE PROVISION

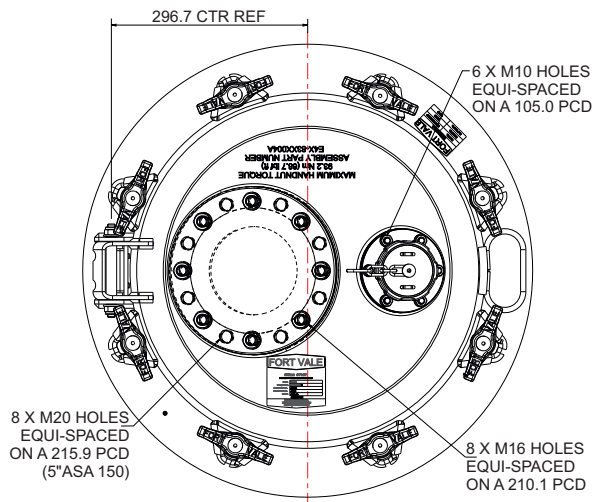
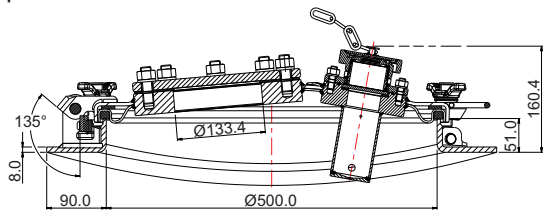




6 point example shown for illustration purposes only

Fitting Details

Example shown : E4X-83XX004A



500mm Manlid Assembly - for Hydrogen Peroxide tank specification. 8 point fastening. Manlid cover fitted with a dual drilled filling port and a 50mm breather vent. 8mm thick neck/compensating ring profiled to suit tank radius. Contact parts manufactured in 316 stainless steel. Stainless steel swingbolts with stainless steel handnuts. Seal supplied separately.

Options - Tank radius range from 850mm to 1220mm. Alternative handnuts available. 135° and 120° opening.

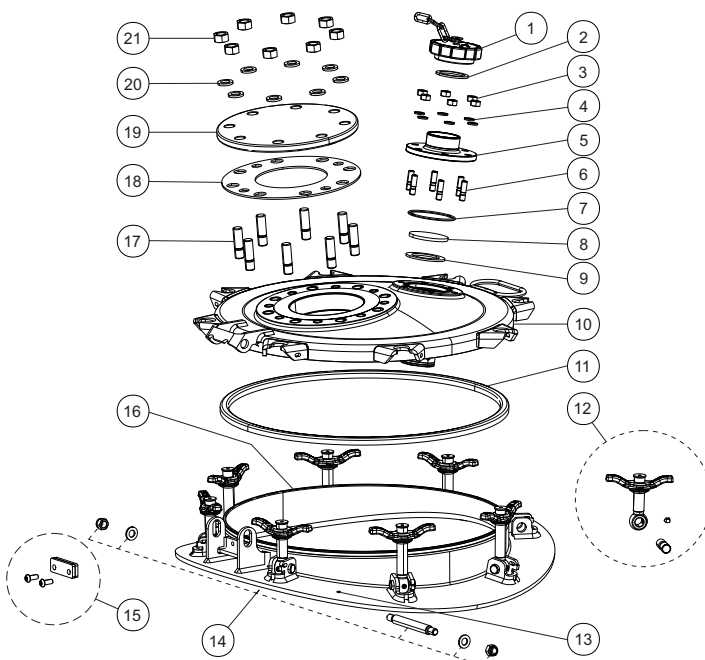
Specification

Weight	58.28 Kg *Note
Design Pressure (MAWP)	4 Bar (58 PSIG)
Service Test Pressure	6 Bar (87 PSIG)
Design Temperature	-40°C to 200°C (-40°F to 392°F)

***Note:** Weight may vary according to specification

Approved to BS EN14025

Parts drawing



Item	Description	Part No.
1	Breather cap assembly	674/3040
2	Breather cap seal	5005-414
3	M10 full nut (6)	5112-002
4	M10 spring washer (6)	5113-002
5	2" BSP outlet	674/3546
6	M10 stud (6)	371/0001
7	PTFE O ring	5005-235
8	Sintered disc	865/2000
9	PTFE breather disc seal	5005-435
10	Manlid cover	74E/0550
11	Seal – supplied separately *Note	5005-50XXX
12	Swingbolt assembly - 4x short 4x long *Note	496/5342 496/5XXX
13	M6 grubscrew	5111-009
14	Hinge pin assembly	600/1060
15	Hinge kit *Note	135A
16	Neckring *Note	6EP/6398XXXPR
17	M16 stud (8)	535/1301
18	PTFE fill flange gasket	5005-411
19	Blind flange	674/5051
20	M16 spring washer (8)	5113-012
21	M16 full nut (8)	5112-003

***Note** Part number varies according to specification



Specification

Weight 4.08 Kg *Varies
Temperature Range Dependant upon seal material

Design Approval by Lloyds Register of Shipping.

Tests may be witnessed and valves individually stamped by an independent inspectorate by arrangement.

Test certificates are supplied as standard.

Valve flow rates are available by request.

*** Fitting ancillary items in the flow stream will alter the valve flow rate.**

2½" BSP Super Maxi Emergency Relief Valve - 2½" BSP male connection with 65mm nominal bore. Suitable for a pressure range of between 2 - 75 PSI (0.14 - 5.17 Bar) and a vacuum range of between 0 - 26"Hg (0 - 0.88 Bar). Contact parts manufactured in 316 stainless steel. Fitted with Fortyt seals as standard. Complete with rubber/PTFE tank seal.

Options - pressure only version. Flanged connections available. Range of high pressure extended body valves. Manual vent button option. A range of alternative seal materials is available.

Range

Part No.	Common Valve Configurations
010/13212	31.8 PSI (2.19 Bar) & 6.2"Hg (-0.21 Bar)
010/14812	48.0 PSI (3.31 Bar) & 6.2"Hg (-0.21 Bar)
010/15412	53.8 PSI (3.71 Bar) & 6.2"Hg (-0.21 Bar)
010/16312	63.8 PSI (4.40 Bar) & 6.2"Hg (-0.21 Bar)

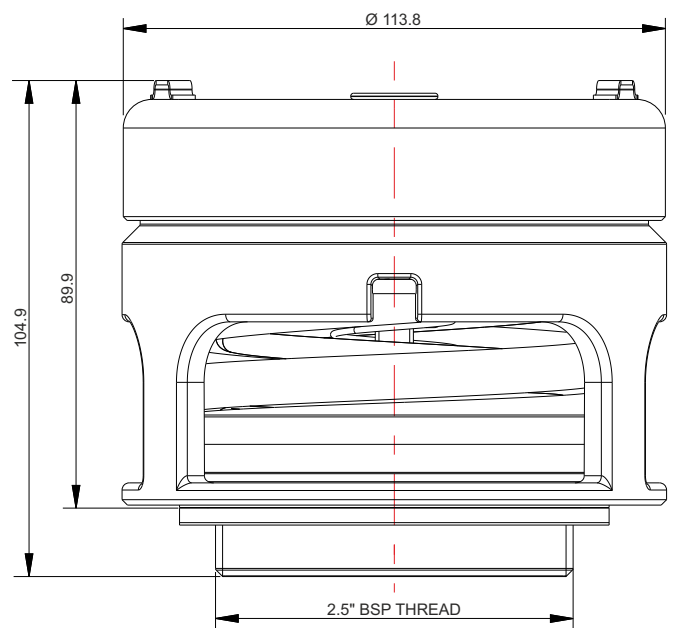
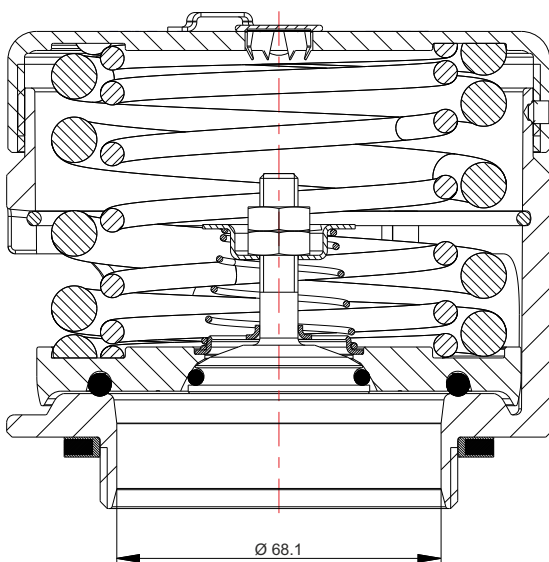
NB Above part number varies according to valve pressure and vacuum settings. These are standard settings.

Associated Parts

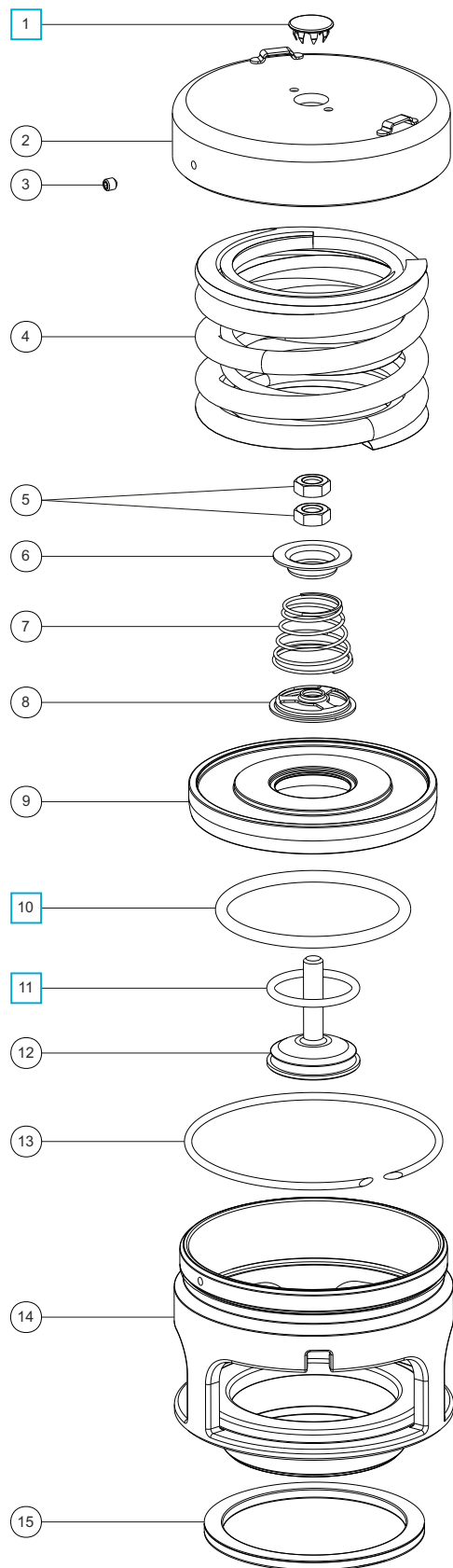
Part No.	Associated Parts
600/1000	2½" BSP weld-in socket
176/3150	Tank weld-in pad
5005-398	CNAF/PTFE gasket to suit weld-in pad/adaptor flange
921/07BBSP	0-100 PSI pressure gauge, bottom entry, brass internal parts
921/07RBSP	0-100 PSI pressure gauge, rear entry, brass internal parts
920/07BBSP	0-100 PSI pressure gauge, bottom entry, stainless steel internal parts
176/2900 *	Removable flameproof gauze
176/6000 *	Gauzed cowl

Fitting Details

Example shown : 010/1XXXX



Parts drawing



Item	Description	Part No.
1	Stainless steel plug	10978
2	Cap *See Note	1760/0005XX
3	Setting locking grub screw	5121-001
4	Pressure springs *See Table 1	6104-XXXX
5	M8 half nut (2)	5112-004
6	Vacuum spring pad	1860/0005
7	Vacuum spring *See Table 2	7104-XXX
8	Spring pad	10986/3
9	Pressure plate *See Note	1860/005XXX
10	Fortyt pressure O ring	5005-101
11	Fortyt vacuum O ring	5005-108H
12	Vacuum poppet	10983V/3
13	Retaining ring clip	5120-067
14	Body	1860/0100
15	Rubber/PTFE envelope seal	5005-046

NOTE : Part number varies according to specification.

SEAL KIT

Part number **000/1PVSK** contains all parts marked ☐

TABLE 1

Common Pressure Settings	Pressure Spring Part No.
31.8 PSI (2.19 Bar)	6104-0252
48.0 PSI (3.31 Bar)	6104-0112 & 6104-0252
53.8 PSI (3.71 Bar)	6104-0422 (Pair)
63.8 PSI (4.40 Bar)	6104-0485 (Pair)

Pressure springs are available from 2 PSI (0.14 Bar) up to 75 PSI (5.17 Bar)

TABLE 2

Common Vacuum Setting	Vacuum Spring Part No.
6.2"Hg (0.21 Bar)	7104-012

Vacuum springs are available from 0.5"Hg (0.02 Bar) to 26"Hg (0.88 Bar)

Visual inspection and service (where necessary) is recommended regularly. A detailed step-by-step repair manual is available for our Super Maxi Relief Valves. Please contact our Sales team for further information.

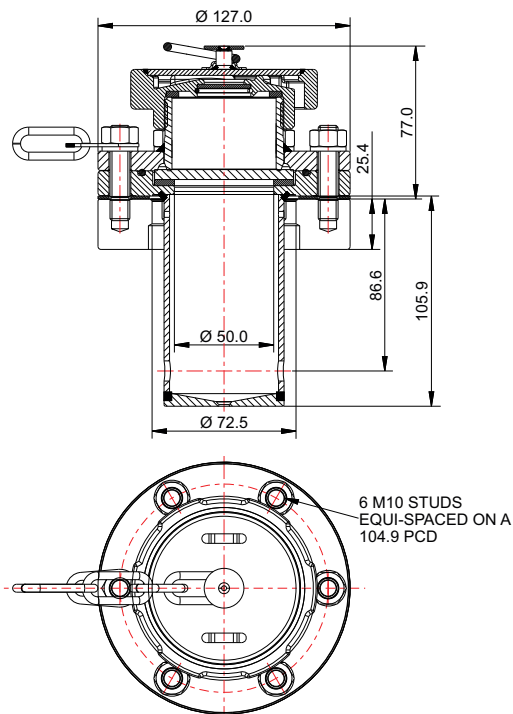


Low Profile Breather Assembly - for Hydrogen Peroxide tank specification. 2" BSP connection. Fitted with stainless steel sintered disc and a low leak design cap to avoid pressurisation of the tank during transit and to filter the compressed air when using the top discharge. The cap is fitted with a secondary sintered disc to limit any leak in a rollover situation.

Options - weld-in version. Flanged version. Various flange drillings available.

Fitting Details

Example shown : 674/3542



Specification

Weight	5.1 Kg
Design Pressure	4 Bar (58 PSI)
Design Temperature	150°C (302°F)

The cap is designed to suit SNCF regulations.

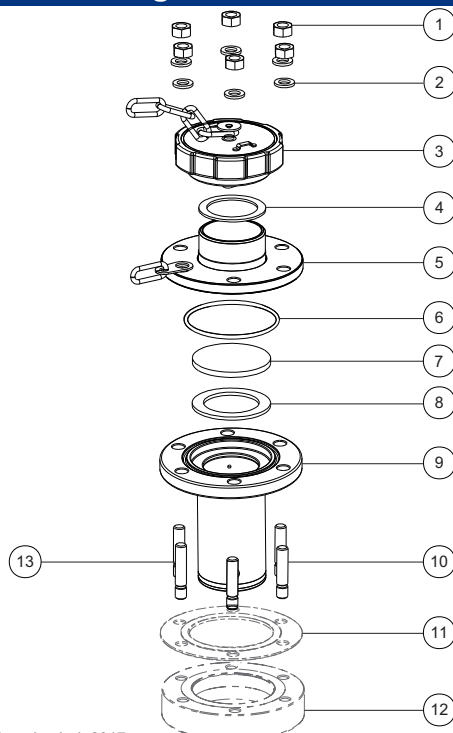
Range

Part No.	Description
674/3500	Weld-in breather assembly
674/3542	Low profile breather assembly
674/3550	Flanged breather assembly (DIN 80 PN 10)

Associated Parts

Part No.	Associated Parts
176/3150	Tank weld-in pad
5005-398P	Solid PTFE gasket

Parts drawing



Item	Description	Part No.
1	M10 full nut (6)	5112-002
2	M10 spring washer (6)	5113-002
3	Breather cap assembly	674/3040
4	Breather cap seal (PTFE)	5005-414
5	2" BSP outlet	674/3546
6	PTFE O ring	5005-235
7	Sintered disc	865/2000
8	Breather disc seal (PTFE)	5005-435
9	Breather body	674/3540
10	M10 x 48mm stud (5)	371/0004
11	PTFE gasket - supplied separately	5005-398P
12	2 1/2" BSP tank pad - supplied separately	176/3150
13	M10 x 50mm stud (1)	371/0006



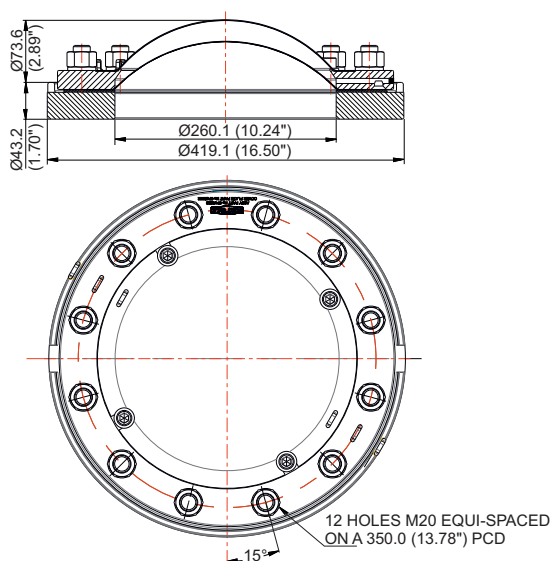
250mm Low Profile Burst Disc Assembly - for Hydrogen Peroxide tank specification. Complete with weather cowl and TIR facility. Drilled 12 holes M20 equi-spaced on a 350mm (13.78") PCD. Contact parts manufactured in 316 stainless steel with PTFE gasket. Supplied less burst disc.

Complete with removable top for testing purposes.

Options - tank pad available with baffle.

Fitting Details

Example shown : 674/8580



Specification

Weight	38 Kg
Design Pressure	4 Bar (58 PSI)
Design Temperature	130°C (266°F)
Minimum Flow	93045 M³/Hr (54764 SCFM) at 4 Barg

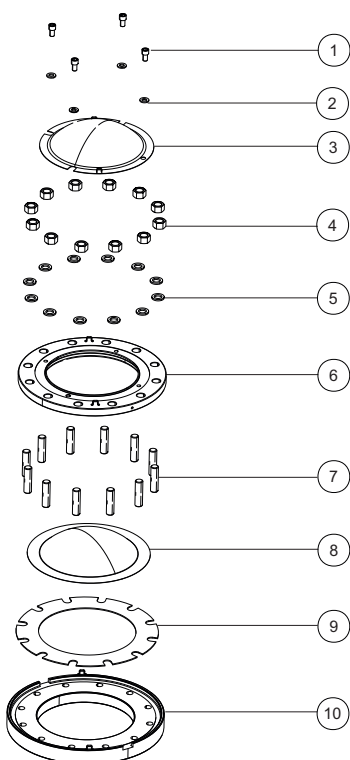
Range

Part No.	Description
674/8580	250mm low profile assembly
674/8680	250mm low profile assembly with baffle

Associated Parts

Part No.	Associated Parts
865/1200	250mm bursting disc – 4.5 Bar at 20°C
865/1250	250mm bursting disc – 4.5 Bar at 60°C
865/1400	250mm bursting disc – 6 Bar at 20°C
674/8550	250mm burst disc tank pad
674/8560	250mm burst disc tank pad with baffle

Parts drawing



Item	Description	Part No.
1	M12 x 20mm cap screw (4)	5111-066
2	M12 plain washer (4)	5113-006
3	Raincowl	674/2005
4	M20 full nut (12)	5112-011
5	M20 spring washer (12)	5113-016
6	Burst disc cover plate	674/2002
7	M20 stud (12)	674/8005
8	250mm burst disc – supplied separately *See Note	865/1XXX
9	PTFE burst disc gasket	5005-283
10	250mm burst disc tank pad *See Note	674/8550

*** Note** - part number varies according to specification.

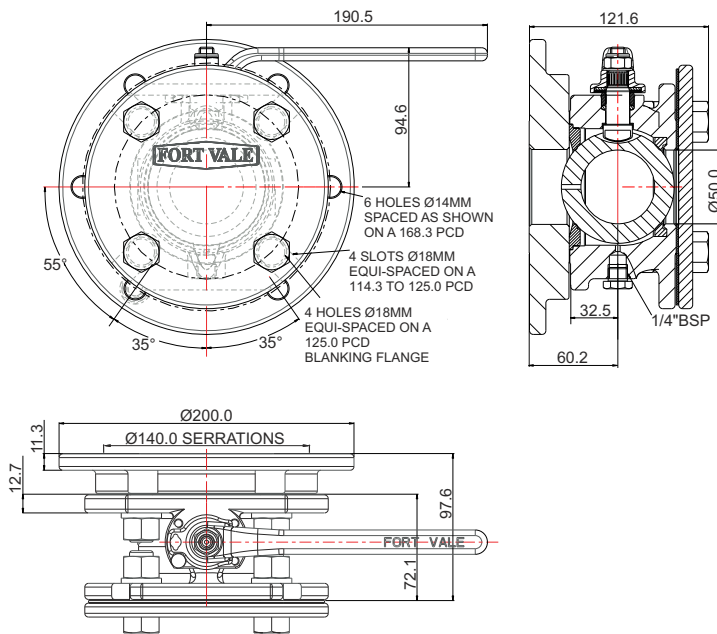


2" Full Bore Ball Valve - for Hydrogen Peroxide tank specification. Inlet drilled 6 x 14mm holes on a 168mm PCD. Outlet drilled 4 x 18mm slots to suit 2" ASA 150, 2" BSTD and DIN 50 PN 10. The inlet flange is specially designed to fit a standard 3" top discharge pad to ensure interchangeability with the Fort Vale 3" flanged butterfly valve. The ball valve body has a 1/4" BSP connection to accept a pressure gauge and the ball incorporates a bleed hole to facilitate monitoring the tank pressure at all times. Contact parts manufactured in 316 stainless steel with PTFE seals.

Options - other inlet flanges available.

Fitting Details

Example shown : 370/0140



Specification

Weight	13.9 Kg
Design Pressure	7 Bar (101.5 PSI)
Hydraulic Test Pressure	15 Bar (217.5 PSI)
Design Temperature	-40°C to 205°C (-40°F to 400°F)

Approved to BS EN14432

Range

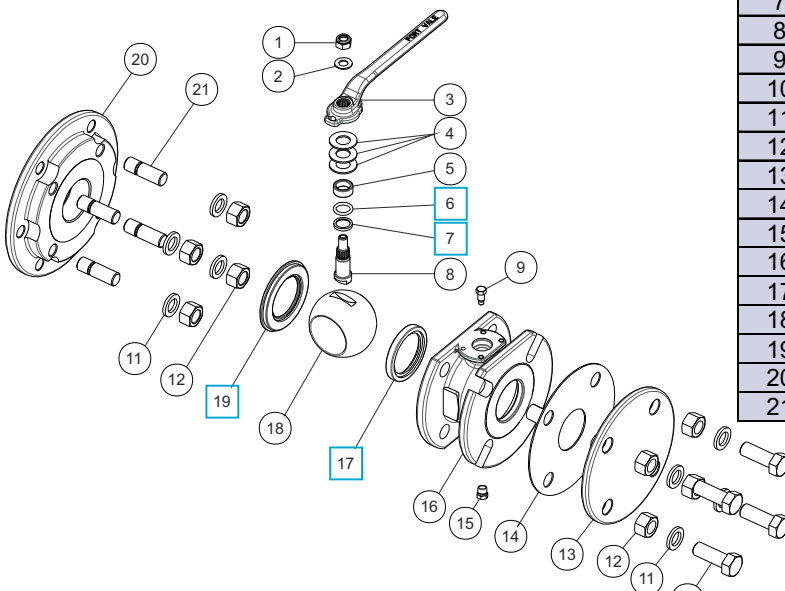
Different inlet flange configurations are available upon request.

Associated Parts

Part No.	Associated Parts
368/0800	Tank weld-in pad
5005-222P	Solid PTFE gasket
368/0810	Syphon tube stub pipe assembly
5005-169	CNAF/PTFE envelope gasket
312/1000	Stud kit

Parts drawing

Item	Description	Part No.
1	M10 self locking nut	5112-008
2	M10 washer	5113-009
3	Handle	370/0125



Item	Description	Part No.
4	Belleville washer (3)	5113-038
5	Stuffing collar	370/0103
6	PTFE O ring	5005-688 <input type="checkbox"/>
7	Bottom bearing	370/0104 <input type="checkbox"/>
8	2" ball valve spindle	370/0120
9	Stop screw	370/0107
10	M16 hex bolt (4)	5111-031
11	M16 spring washer (8)	5113-012
12	M16 full nut (8)	5112-003
13	Blanking flange	370/4239
14	PTFE gasket	5005-724P
15	1/4" BSP hex head plug	5128-005
16	2" ball valve body	370/0115
17	Rear PTFE ball seal	370/0105 <input type="checkbox"/>
18	2" ball	370/3309
19	Front PTFE ball seal	370/0102 <input type="checkbox"/>
20	Adaptor flange	370/0145
21	M16 stud (4)	S0600/3

SEAL KIT

Part no. **370/01SK** contains all parts marked ☐



45° Weld-In Blind Tank Pad for Hydrogen Peroxide tank specification. 8 holes M12 equi-spaced on a 7.00" PCD. Manufactured in 316 stainless steel.

The centre of this blind pad can be cut away to fit a 45° bottom outlet assembly at a later stage if required.

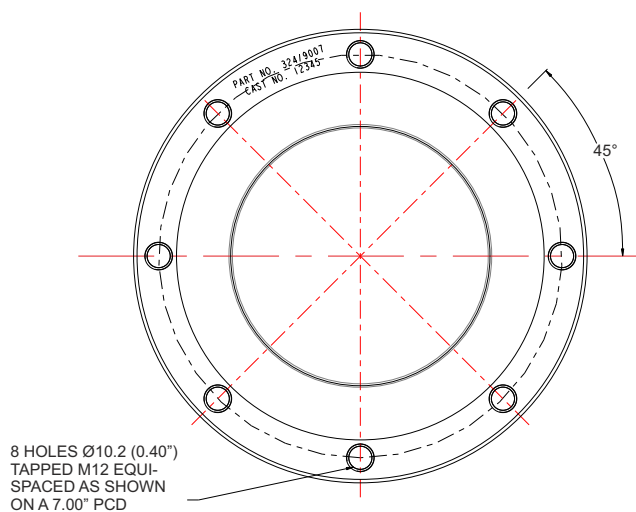
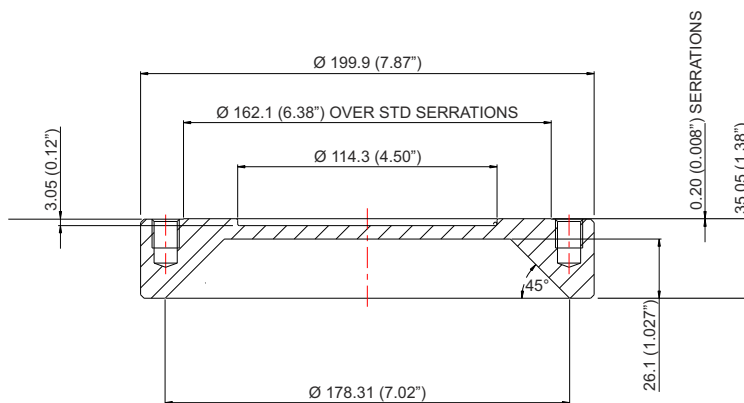
Specification

Weight

4.5 Kg

Fitting Details

Example shown : 324/9007





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