



Catalogue

Standard Equipment for Liquefied Gas Tank Containers





CONTENTS

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Catalogue

Internal Relief Valve	3
Design Options: Internal Relief Valves: T50 Tank Containers	5
80mm Internal Gas Relief Valve with Burst Disc Holder	7
80mm Internal Gas Relief Valve (Cutaway Flange)	9
Discharge Valve Assembly	11
Design Options: Gas Discharge Valve Assembly: T50 Tank Containers	13
2" Short Profile Gas Discharge Valve Assembly	15
Accessories	19
ACME Outlet Assemblies	21
Burst Discs	22
Pressure Gauges	24
Appendix	
Bolt Torque Guide & Step Loading Procedure	27
Client Responsibilities	29
Fort Vale Worldwide	31



Internal Gas Relief Valves





Internal Gas Relief Valves: T50 Tank Containers Design Options

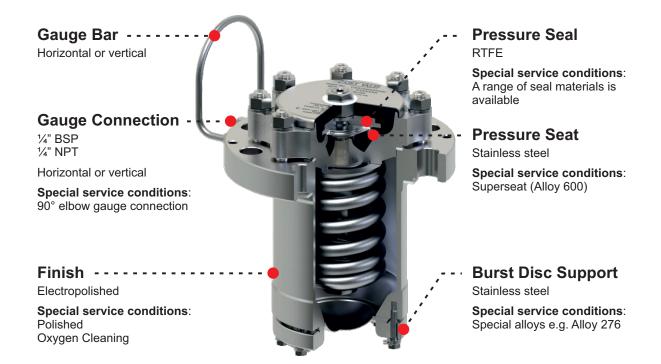
Function

An 80mm internal gas relief valve is installed in the vapour space of a liquefied gas tank. It is spring-loaded and pre-set to be compatible with the service conditions and it vents to protect the tank from accidental over-pressure. Internal gas relief valves have a high flow performance to prevent the catastrophic failure of a tank.

We offer a range of internal relief valves for different service conditions and flow requirements. Contact us for more information.

Design Options

The design options below are available on our standard range of 80mm internal gas relief valves.







Internal Gas Relief Valves: T50 Tank Containers

Design Options

Related Parts

We recommend our range of compatible accessories:

- 89mm reverse-acting burst discs a selection of burst pressures is available (Note)
- Pressure gauges
- Emergency blanking cap to seal a relief valve pressure plate until maintenance is possible
- Gaskets
- Fasteners

NOTE: An 89mm burst disc will decrease the flow capacity of an internal gas relief valve by 1%. Make sure that the decreased flow capacity will give sufficient protection to your vessel/system.

Please contact us for more information about these parts.

Relief Valves for Dedicated Service

We offer a range of relief valves for these service conditions and special cargoes:

- T50 tank containers for liquefied gas
- Rail tank wagons
- U.S. tank trucks
- IBCs and small capacity tanks
- Steam-heating systems for tanks
- Hygienic service
- Food grade for liquid flow

Please contact us for more information about these valves.



80mm Internal Gas Relief Valve with Burst Disc Holder

Part No: 015/2XXXX5 - Metric Setting



Specification

Nominal size DN80 Tank connection Flanged: 8 x 26mm holes on a 220mm PCD

Set pressure From 6.90 Bar to 38.50 Bar

Materials Contact parts: 316 stainless steel Pressure seal: RTFE Tank seal: PTFE

Alternatives are available, refer to the Design Options page

Design Conditions

Weight: Design Pressure (MAWP): Test Pressure: Design Temperature Min: Design Temperature Max: 30.5 Kg 38.5 Bar 57.75 Bar -55°C 65°C

NOTE: The Design Temperature limits refer to metal parts only. The Design Conditions and Section View dimensions are for the specified part number only.

Design Codes

BS EN 14129 Obeys TPED, ADR, UKCA

Design Approval LRQA

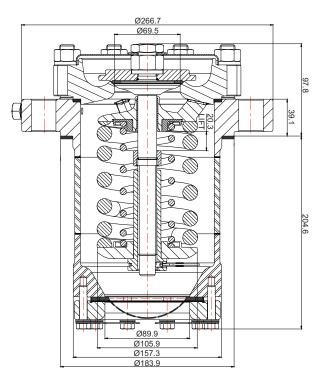
Related Parts

Description	Part No.
PTFE gasket	5005-812
Pressure gauge: 0-20 Bar *Note	92X/20XXXX
Pressure gauge: 0-40 Bar *Note	92X/40XXXX
Pressure gauge: 0-60 Bar *Note	92X/60XXXX
Emergency blank cap: 015/ series valve**	015/0070X
Emergency blank cap: 005/ series valve**	005/0060X

NOTE: The specification changes the part no.

****IMPORTANT:** Emergency blank caps have a pressure limit. Check with Fort Vale for compatibility.

Section View

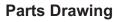


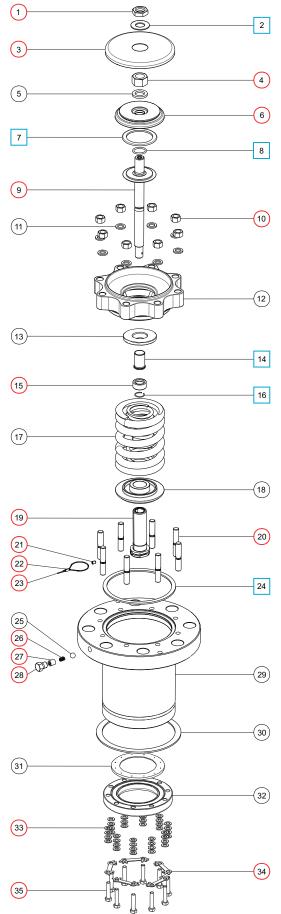


80mm Internal Gas Relief Valve with Burst Disc Holder

Parts List

Part No: 015/2XXXX5 - Metric Setting





ltem	Description	Part No.	
1	M20 lock nut	5112-036	0
2	Cowl retaining washer	055/0135	0
3	Cowl	055/0130	0
4	M20 full nut	5112-033	0
5	M20 spring washer	5113-016	
6	Poppet head	055/0127	0
7	RTFE main seal	5005-825	00
8	Neoprene O ring	5005-995	00
9	Poppet stem assembly	055/0120X	0
10	M16 full nut (8)	5112-003	0
11	M16 spring washer (8)	5113-012	
12	Body weld assembly	055/0207	
13	Top spring locator *Note	055/0116X	
14	Spindle guide bush	055/0115	00
15	Stop collar	055/0125	0
16	Retaining ring clip	055/0114	0
17	Spring pair * Note	8104-XXX	<
18	Bottom spring locator *Note	055/0110X	
19	Spring retainer	055/0020	0
20	M16 stud (8)	055/0055	0
21	M6 set screw	5111-133	0
22	Ferrule	SF1.5	0
23	Anti-tamper wire	6110-119	0 0 0 0 0
24	PTFE gasket	5005-826	0
25	11mm ball	055/0031	
26	Spring	5104-115	0
27	Ball seal	055/0030	0
28	¼" BSP taper plug	5128-009	0
29	Burst disc holder	055/0190	
30	PTFE seal (supplied separate)	5005-812	
31	89mm burst disc (supplied separate)	864/XXXX	
32	Burst disc support flange	044/1034	
33	8mm Belleville washer (40)	5113-020	0
34	Anti-rotation tab (5)	055/0025	0
35	Hex bolt (10)	5111-011	0

NOTE: The top and bottom spring locators and the spring pair are a set with compatible dimensions. Please contact Fort Vale if you need to replace one of these parts.

Seal Kit

Description	Part No.
All parts marked \Box in the Parts List	005/00SK

Repair Kit

Description	Part No.
All parts marked O in the Parts List	015/00RK



80mm Internal Gas Relief Valve (Cutaway Flange)

Part No: 016/2XXXX6 - Metric Setting



Specification

Nominal size DN80 Tank connection

Flanged: 8 x 18mm holes on a 184.2mm PCD

Set pressure From 6.90 Bar to 38.50 Bar

Materials Contact parts: 316 stainless steel Pressure seal: RTFE Tank seal: PTFE

Alternatives are available, refer to the Design Options page

Design Conditions

Weight: Design Pressure (MAWP): Test Pressure: Design Temperature Min: Design Temperature Max: 11.4 Kg 38.5 Bar 57.75 Bar -55°C 65°C

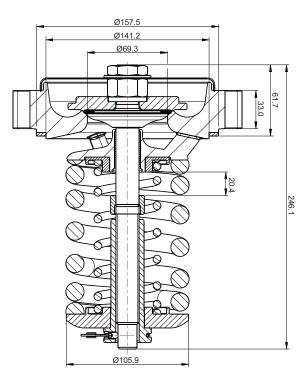
NOTE: The Design Temperature limits refer to metal parts only. The Design Conditions and Section View dimensions are for the specified part number only.

Design Codes

BS EN 14129 Obeys TPED, ADR, UKCA

Design Approval LRQA

Section View



Related Parts

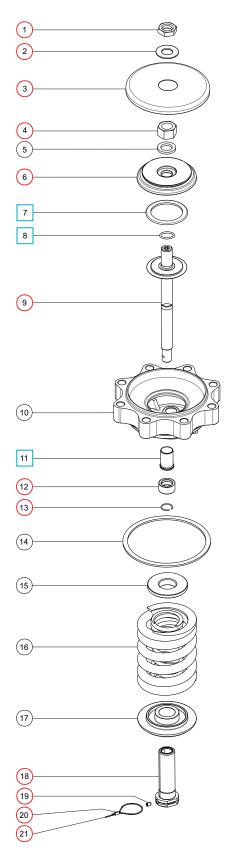
Description	Part No.
PTFE gasket	5005-826



80mm Internal Gas Relief Valve (Cutaway Flange)

Part No: 016/2XXXX6 - Metric Setting

Parts Drawing



Parts List

ltem	Description	Part No.	
1	M20 lock nut	5112-036	0
2	Cowl retaining washer	055/0135	0
3	Cowl	055/0130	0 0 0
4	M20 full nut	5112-033	0
5	M20 spring washer	5113-016	
6	Poppet head	055/0127	0
7	RTFE main seal	5005-825	
8	Neoprene O ring	5005-995	0
9	Poppet stem assembly	055/0120	0
10	Body weld assembly	055/0207	
11	Spindle guide bush	055/0115	0
12	Stop collar	055/0125	0
13	Retaining ring clip	055/0114	0
14	PTFE gasket (supplied separate)	5005-826	
15	Top spring locator *Note	055/0116X	
16	Spring pair *Note	8104-XXXX	
17	Bottom spring locator *Note	055/0110X	
18	Spring nut	055/0020	0
19	M6 set screw	5111-133	0
20	Ferrule	SF1.5	0
21	Anti-tamper wire	6110-119	0

NOTE: The top and bottom spring locators and the spring pair are a set with compatible dimensions. Please contact Fort Vale if you need to replace one of these parts.

Seal Kit

Description	Part No.
All parts marked 🗖 in the Parts List	006/00SK

Repair Kit

Description	Part No.
All parts marked O in the Parts List	016/00RK



Gas Discharge Valve Assembly





Design Options

Function

The short profile discharge assembly is a compact internal valve with a secondary ball valve and tertiary closure. Two similar valve assemblies are installed on the tank, one connected to the liquid space and one to the vapour space. They operate on a pilot/main closure system so that they are easy to operate manually to control the loading and discharge of cargo.

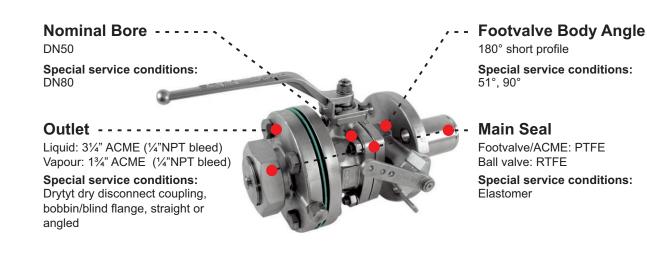
The internal valve has an excess flow function. This is a safety feature to close the valve poppet if there is a sudden change to normal operating conditions, for example if there is a surge in the flow of cargo, or if there is a catastrophic leak in the downstream equipment.

The liquid and vapour phase valves are usually connected by a linkage mechanism so that they operate simultaneously.

Design Options

The design options below are available on our standard range of discharge assemblies for T50 tank containers.

Please contact us for more information about valve options.



Footvalve

Operation -

Manually operated

Special service conditions: Hydraulically actuated Pneumatically actuated



Valve Materials 316 & 304 stainless steel Special service conditions: Special alloys

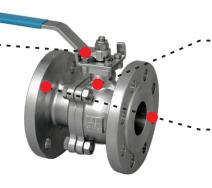
Inlet/Outlet Flange A range of drilling patterns is

available

Ball Valve

Operation

Manually operated Liquid: Left hand Vapour: Right hand



Valve Materials 316 & 304 stainless steel Special service conditions: Special alloys

Inlet/Outlet Flange

A range of drilling patterns is available



Gas Discharge Valve Assembly: T50 Tank Containers Design Options

Related Parts

We recommend our range of compatible accessories:

- Footvalve handle linkage mechanisms
- Emergency remote closure systems and fusible elements
- Couplings, caps and plugs
- Gaskets
- Fasteners

Please contact us for more information about these parts.

Footvalves for Dedicated Service

We offer a range of footvalves and discharge systems for these service conditions and special cargoes:

- T50 tank containers for liquefied gas
- Rail tank wagons
- Offshore fuel and chemical tanks
- Road tankers carrying hot product (bitumen)
- Road tankers: top operated screwdown valve
- Hygienic service

Please contact us for more information about these valves.



2" Short Profile Gas Discharge Valve Assembly

Part No: 802B/0010X



Specification

Nominal size/body angle DN50 / 180°

Inlet connection

Flanged: 4 x 18mm holes equi-spaced on a 125mm PCD **Outlet connection**

ACME threaded outlet with cap

Properties

Excess flow footvalve with ball valve, ACME outlet & cap NOTE: You must install a separate tension spring to emergency-close the footvalve

Materials

Contact parts: 304/316 stainless steel Footvalve main seal: PTFE Ball valve main seal: RTFE Cap seal: PTFE

Alternatives are available, refer to the Design Options page

Design Conditions

Weight: Liquid/Vapour Phase Design Pressure (MAWP): Test Pressure: Design Temperature Min/Max: 18.8 Kg / 17.9 Kg 34.5 Bar 70.0 Bar -55°C / 80°C

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

Design Codes

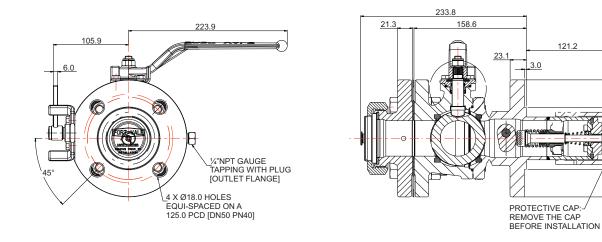
BS EN 14432 BS EN 14433 BS EN 13445 Obeys TPED, ADR, UKCA

Design Approval LRQA

Range

Description	Part No.
Liquid phase valve, 3¼" ACME outlet, left hand operation	802B/0010L
Vapour phase valve, 1¾ ACME outlet, right hand operation	802B/0010R

Section View: Liquid Phase

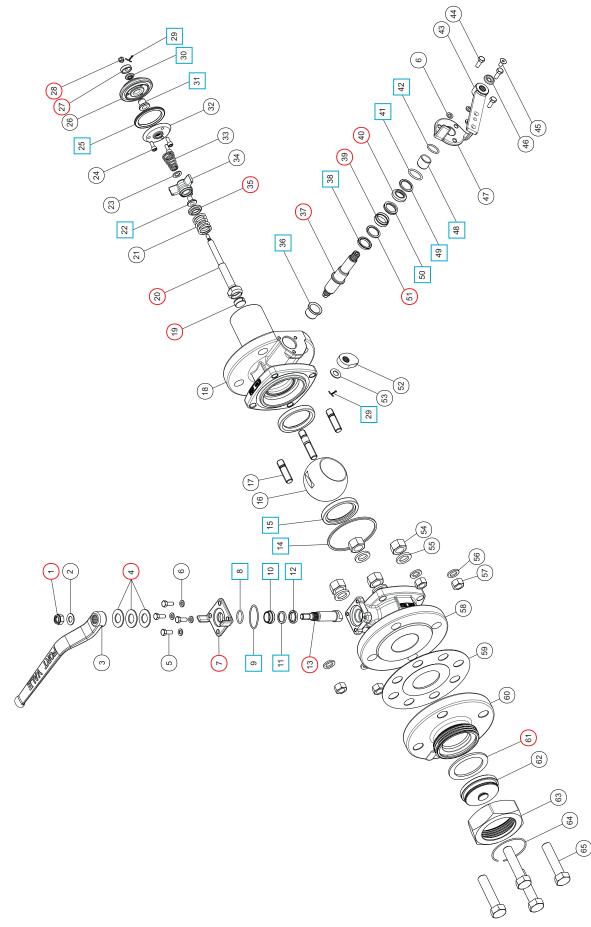


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Parts Drawing: Liquid Phase





2" Short Profile Gas Discharge Valve Assembly

Part No: 802B/0010X

Parts List

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0
0

ltem	Description	Part No.		
47	Stuffing plate	252/5058B		
48	Split bearing	252/0517		
49	Top guide bush	252/0502B	0	
50	Top gland seal	359/4013	0 🗆	
51	Spacer ring	359/4012	0	
52	Operating cam	252/0527		
53	M10 washer	5113-009		
54	M16 full nut (4)	5112-003		
55	M16 spring washer (4)	5113-012		
56	M12 spring washer (4)	5113-010		
57	M12 full nut (4)	5112-006		
58	Ball valve body	370/3368		
59	CNAF/PTFE gasket	5005-726		
60	Outlet: 3¼" ACME Outlet: 1¾" ACME	252/2069 252/2084		
61	PTFE seal: 3¼" ACME PTFE seal: 1¾" ACME	5005-877 5005-878	•	
62	Plug: 3¼" ACME Plug: 1¾" ACME	252/2076 252/2086		
63	Dust cap: 3¼" ACME Dust cap: 1¾" ACME	252/2075 252/2085		
64	Retaining ring clip: 3¼" ACME Retaining ring clip: 1¾" ACME	5120-027 5120-028		
65	M16 hex head bolt (4)	5111-090		
-				

Seal Kit

Description	Part No.
Ball valve seal kit: All parts marked I in the Parts List	370/33SKB
Footvalve seal kit: All parts marked □ in the Parts List	252/50SKB

NOTE: The seal kits are compatible with liquid phase and vapour phase valves

Repair Kit

Description	Part No.
Ball valve repair kit: All parts marked in the Parts List	370/33RKB
Footvalve repair kit: All parts marked <mark>O</mark> in the Parts List	252/50RKB

NOTE: The repair kits are compatible with liquid phase and vapour phase valves



Accessories



ACME Outlet Assemblies

Accessories & Spare Parts



Design Conditions

FORT VALE

Design Pressure (MAWP): Test Pressure: Design Temperature Min: Design Temperature Max: Range	34.5 Bar 70.0 Bar -50°C 80°C
Description	Part No.
DN25 1¾" ACME thread	252/2187
DN50 3¼" ACME thread	252/2177

Specification

The ACME outlet assembly is a tertiary closure system for liquefied gas discharge assemblies. It includes a spigot flange and a plug/cap assembly with a PTFE seal and retaining wire.

Nominal sizes

Connection

4 x 18mm holes on a 125mm PCD

Properties

1/4" NPT connection for a sample/bleed valve or a pressure gauge. Safety bleed hole in the spigot.

Materials

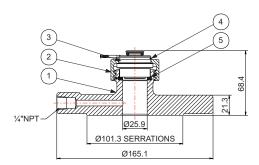
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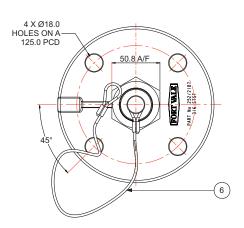
Spare Parts

Metal parts: 316 stainless steel Seal: PTFE

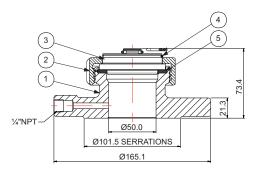
opure r uno				
ltem	Description	Part No. 1¾" ACME	Part No. 3¼" ACME	
1.	Outlet flange	252/2084	252/2069	
2.	ACME cap	252/2085	252/2075	
3.	ACME plug	252/2086	252/2076	
4.	Retaining ring clip	5120-028	5120-027	
5.	PTFE seal	5005-878	5005-877	
6.	Retaining wire	425/0009	425/0004	

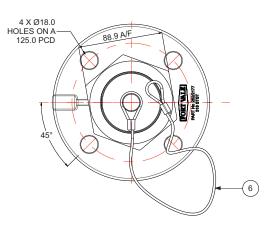
Section View - 1³/₄", Part No. 252/2187





Section View - 31/4", Part No. 252/2177

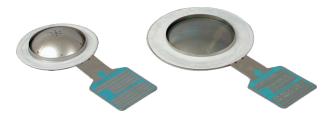






Burst Discs

Accessories & Spare Parts





65mm XL Burst Discs

Compatible with general purpose tank containers and road tankers.

Burst Pressure Bar	Burst Temperature °C	Part No.
2.28	20	862/X0228020B
2.41	20	862/X0241020B
2.69	20	862/X0269020B
3.10	20	862/X0310020B
3.67	20	862/X0367020A
4.10	20	862/X0410020A
4.40	20	862/X0440020A
4.84	20	862/X0484020A

NOTE: The specification changes the part no.

80mm XL Burst Discs

Compatible with general purpose tank containers and road tankers.

Burst Pressure Bar	Burst Temperature °C	Part No.
3.67	20	864/X0367020A
4.10	20	864/X0410020A
4.84	20	864/X0484020A

NOTE: The specification changes the part no.

Specification

Our range of non-fragmenting burst discs is compatible with Fort Vale relief valves and accessories. If you have other manufacturer's equipment, please contact us.

WARNING: A burst disc decreases the air flow capacity of a relief valve. Calculate to make sure that the decreased flow will give sufficient protection to your tank/system. Refer to Fort Vale for more information.

Nominal sizes

65mm XL, 80mm XL, 89mm, 250mm Other sizes are available, please contact us. **NOTE**: 65mm XL/80mm XL discs replace the original 65mm/80mm discs. We do not recommend 65mm/80mm discs with Fort Vale relief valves.

Disc options

Forward Acting: a cross-scored solid metal disc Forward Composite: a multi-layered disc for burst settings of less than 3.67 Bar Reverse Acting: compatible with gas service

Materials

65XL/80XL/89mm: PTFE/316 stainless steel/Nickel 250mm: PTFE/316 stainless steel Other materials are available, refer to next page.

89mm Reverse Acting Burst Discs

Compatible with compressed liquefied gas tank containers.

Burst Pressure Bar	Burst Temperature °C	Part No.
12.10	55	864/X1210055GX
15.00	55	864/X1500055GX
22.00	55	864/X2200055GX
27.50	55	864/X2750055GX
34.50	55	864/X3450055GX

NOTE: The specification changes the part no.

250mm Standard Burst Discs

Compatible with hydrogen peroxide service.

Burst Pressure Bar	Burst Temperature °C	Part No.
4.50	20	865/1200
4.50	60	865/1250
6.00	20	865/1400



Part Number Code: 65mm XL, 80mm XL, 89mm Only

Accessories & Spare Parts

	Example: 86X/X0484020X
D : 0	
Disc S	
862/ 864/	65mm XL 80mm XL or 89mm Reverse Acting
Disc M	anufacturer
Α	CDC (Continental Disc Corporation)
В	BS&B Safety Systems
С	Schlesinger
Burst	Pressure in kPa
0484	484 kPa (4.84 Bar)
Burst [·]	Temperature in °C
020	20°C
Disc T	/pe
Α	Forward Acting (ICON)
В	Forward Composite (PC-SERT)
G	Reverse Acting: Gas service
Specia	I Material/Service: Disc Type A & B Only
Note:	No number = Standard Material/Service
1	PFA Lined
2	PTFE Lined
3	Tantalum
	Alloy 600
4	
4 5	Oxygen Cleaned
5 6	Oxygen Cleaned High Temperature 250°
5 6 7	High Temperature 250° Titanium
5 6	High Temperature 250°

- **Note:** No number = Standard Material/Service
- 1 Hastelloy ® / PTFE
- 2 Monel ®
- 3 Tantalum
- **4** Alloy 400



Pressure Gauges

Accessories & Spare Parts

Standard Pressure Gauge



Tell-Tale Pressure Gauge



Specification

We supply standard pressure gauges and tell-tale pressure gauges. Tell-tale pressure gauges have a secondary pointer to indicate if there has been an increase in pressure, even if the pressure subsequently decreases.

All pressure gauges have a ¼" BSP bottom connection and are glycerine filled.

Pressure range options

0-6 Bar, 0-10 Bar, 0-16 Bar, 0-40 Bar

Material options - internal parts Brass, stainless steel

Standard Pressure Gauge

Pressui Bar	re Range PSI	Internal Parts	Part No.
0-6	0-90	Brass	921/06BBSP
0-6	0-90	St/steel	920/06BBSP
0-10	0-150	Brass	921/10BBSP
0-10	0-150	St/steel	920/10BBSP
0-40	0-580	St/steel	920/40BBSP

Tell-Tale Pressure Gauge

Pressure Bar	Range PSI	Internal Parts	Part No.
0-6	0-90	Brass	921/06TTBBSP
0-6	0-90	St/steel	920/06TTBBSP
0-10	0-150	Brass	921/10TTBBSP
0-10	0-150	St/steel	920/10TTBBSP
0-16	0-230	St/steel	920/16TTBBSP
0-40	0-580	St/steel	920/40TTBBSP



APPENDIX

Catalogue

A	Bolt Torque Guide & Step Loading Procedure
В	Client Responsibilities - Valves & Accessories



Bolt Torque Guide & Step Loading Procedure

Installation & Operating Instructions

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

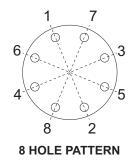
To install flanged parts correctly:

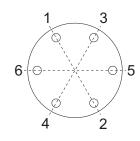
- Examine the mating flange of the part.
- If the flange is marked with a torque value, obey that torque value.
- If there is no torque value marked on the mating flange, obey the bolt torque values given in Table BT1.
- Tighten the bolts evenly in sequence. See Figure BT1.
- Obey the Step Loading Procedure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

Table BT1

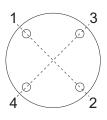
Thread	Torque Value
M10	30 Nm (22 lbf.ft)
M12	65 Nm (48 lbf.ft)
M16	81 Nm (60 lbf.ft)

Figure BT1









4 HOLE PATTERN

FORT VALE Bolt Torque Guide & Step Loading Procedure

Installation & Operating Instructions

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.



Client Responsibilities - Valves & Accessories

Installation, Operation & Maintenance Instructions

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 21/2 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

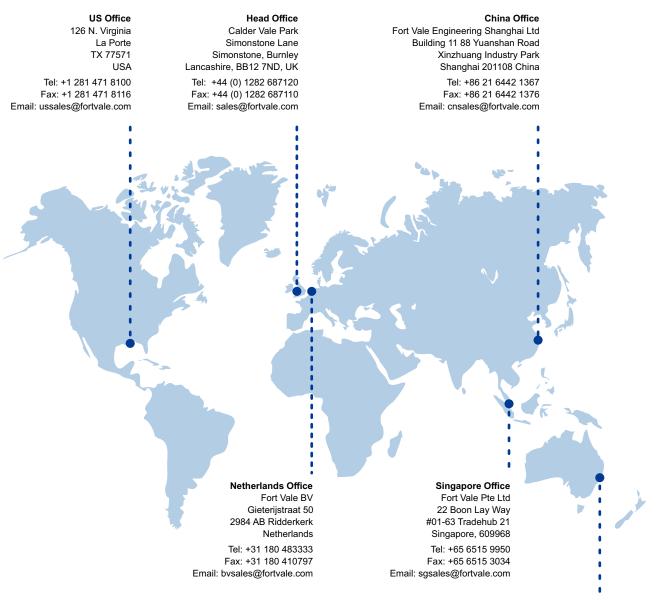
Accessory components must cause no interference with the valve's function. Accessories must be made from compatible materials that will cause no damage to the valve materials. Do not install an accessory that will cause an increased load on the valve, such as mechanical, static, dynamic or thermal load.

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.



Our subsidiaries are located in:



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We also have Authorised Distributors around the world to provide you with product sales and after-market services. To find your nearest distributor, please visit our website - **www.fortvale.com**





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