

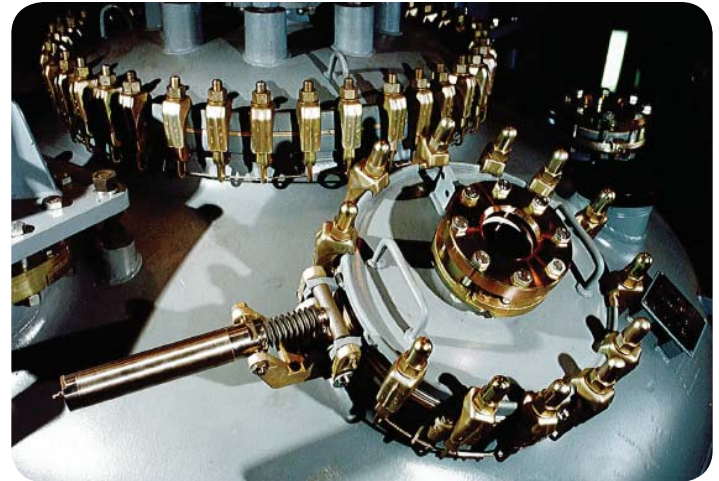
EasyLift™ Manway Cover Assist with GasketSav'r™

Product Description

De Dietrich Process Systems' spring operated EasyLift™ Manway Cover Assist with gasket-life-sustaining GasketSav'r™ is safer and easier to use than conventional hinged designs, extending the life of glass-lined steel reactors and tanks. One stocked size handles manway covers 12"x16", 14"x18", and 18" round, fitting any SA reactor through 6000 gallons or VT tank through 7500 gallons. On larger sizes, a 24" davit-supported cover is supplied as standard, with an optional EasyLift Assist. The EasyLift Manway Cover Assist can also be retrofitted, without welding, directly on DDPS vessels and most other major brands; any vessel equipped with standard hinges can accept the device. There is no need for adaptation or purchase of additional items. The Manway Cover Assist with GasketSav'r is shipped assembled, ready for mounting and is easily field-retrofitted by the customer's mechanic or a DDPS service specialist.

Features

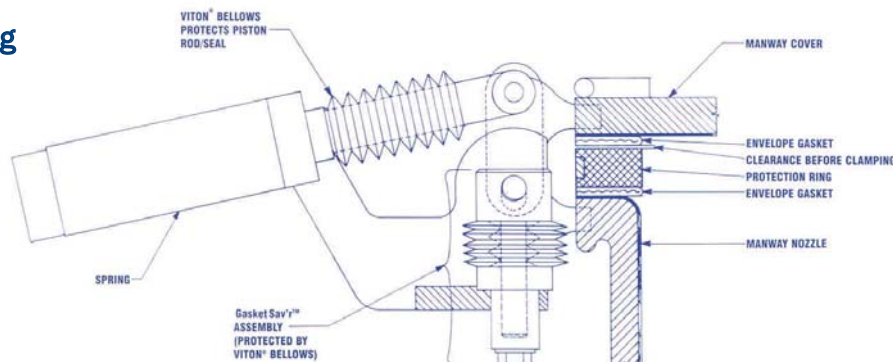
The EasyLift Manway Cover Assist with GasketSav'r is made of long-life materials and is fully corrosion-protected. The piston rod/seal and GasketSav'r mechanism are protected with Viton® bellows to limit dust, corrosion and abrasion on working parts. Virtually no maintenance is required for a long life of service and protection of your glass-lined steel equipment. The smooth-working mechanical spring of the EasyLift is housed in a sturdy stainless steel cylinder. The optimum balance is set by adjusting the stroke at time of installation. On a conventional cover, the manway cover pilots on the gasket before it starts to lift and when closing. This action tends to increase chances of the gasket sliding, shifting or crimping, and leads to accelerated gasket wear and failure. The GasketSav'r design reduces wear rate on the manway cover gasket. As soon as cover clamps are released, GasketSav'r pushes the pivot pin directly to the top of its slot, and eliminates the pivoting on the gasket.



Advantages

- **Labor-saving** - The spring assist takes just 20 lbs. force to lift, vs. up to 75 lbs. to lift a standard hinged cover.
- **Helps prevent injuries** - It's so convenient and easy to lift, EasyLift promotes personal safety and avoids muscular strain and finger injuries
- **Protects glass-lined equipment** - Covers, nozzles, glassed rings and the manway nozzle get extra protection from the smooth action of the EasyLift. There's no risk of damage caused of dropping the cover.
- **Compact Design** - Compact, convenient geometry keeps it out of the way when opened; the cylinder extends only about 14" beyond the cover hinge.
- **Extends gasket life** - The GasketSav'r feature extends the life of manway gaskets for a further savings in maintenance time and replacement costs.

Technical Drawing



Product Description

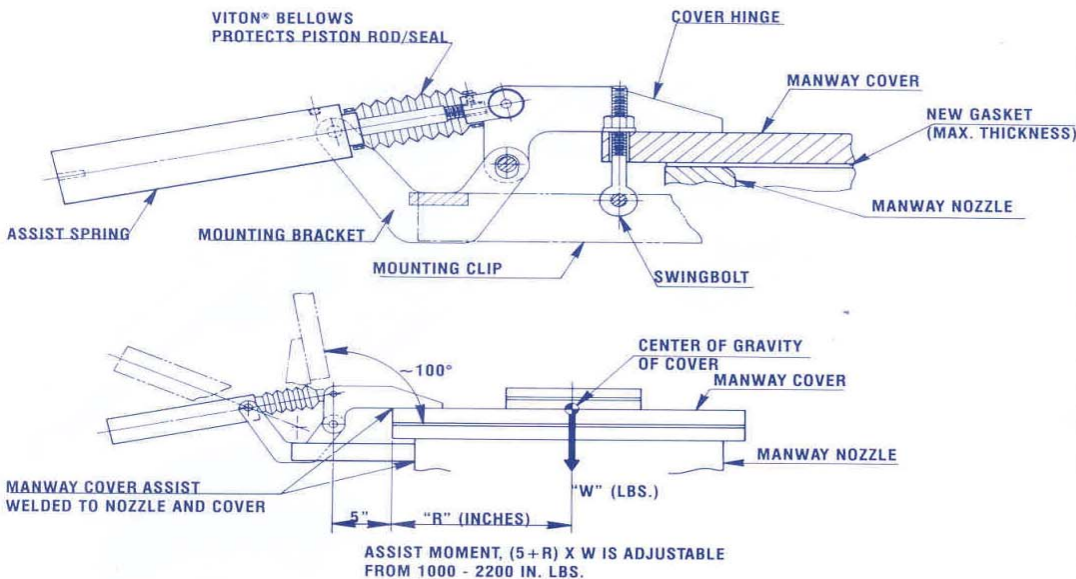
DDPS' Manway Cover assist is also available for alloy reactors and tanks, providing the same safety and convenience benefits as the glass-lined version.

Just one stocked size of the Manway Cover Assist handles manway covers requiring up to 2200 in.-lbs. of assist moment. For the cover on an 18 in. manway, this corresponds to a maximum weight of about 155 lbs. Custom designs can be provided to fit your special requirements.

The Manway Cover Assist is easily retrofitted by welding onto most alloy vessels. The Assist is shipped assembled, ready for mounting. To install it, the mechanic first removes the old hinges from cover and manway nozzle. Clips are welded between the mounting bracket and the reactor manway nozzle, and the new cover hinges, supplied with the kit, are welded to the cover. The rest is a simple matter of adjustment to obtain optimum balancing, as explained in the accompanying instructions.



Technical Drawing



FOR VARIOUS 'R' DIMENSIONS, THE CHART BELOW GIVES MINIMUM AND MAXIMUM COVER WEIGHTS FOR PROPER OPERATION

LENGTH 'R', INCHES	MINIMUM WEIGHT, LBS.	MAXIMUM WEIGHT, LBS.
4.0	111	244
5.0	100	220
6.0	91	200
7.0	83	183
8.0	77	169
9.0	71	157
10.0	82	147
11.0	62	137
12.0	59	129
13.0	55	122
14.0	53	115

FOR INSTALLATION AND MAINTENANCE INSTRUCTIONS, REFER TO BULLETIN No. 1184-1.

Product Description

Because PTFE exhibits excellent chemical resistance combined with toughness and durability, it is ideally suited for use on chemical equipment components subjected to rough service. Now you can protect vulnerable manway components on glass-lined vessels by using the latest technological development in PTFE fabrications – the PTFE-lined manway cover. This thicker PTFE (140ml) sheet much more durable than traditional 35 ml fluoropolymer sprayed coatings. Since it is bonded directly to the steel it will not slip, lift or curl.

Advantages

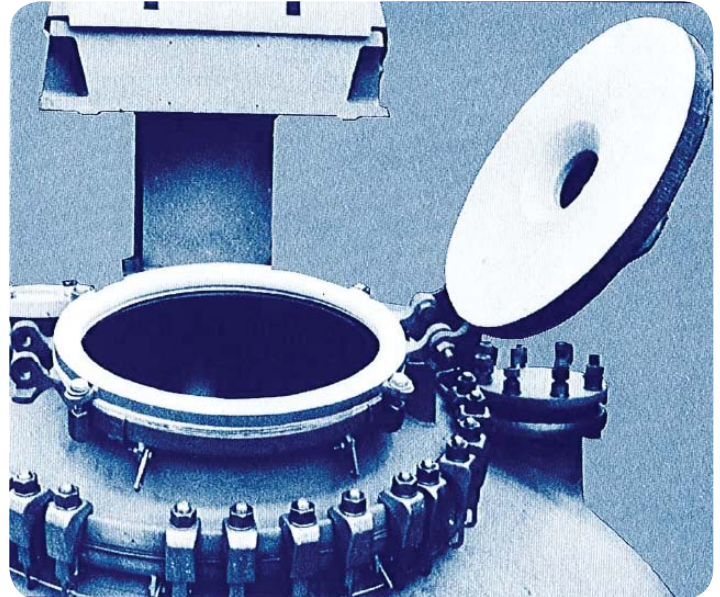
- Helps prevent glass damage if cover is dropped.
- Shorter pad-type nozzle allows wider viewing angle through sight glass.
- Complete interchangeability with other brands.
- Popular sizes stocked for fast delivery.

Specifications

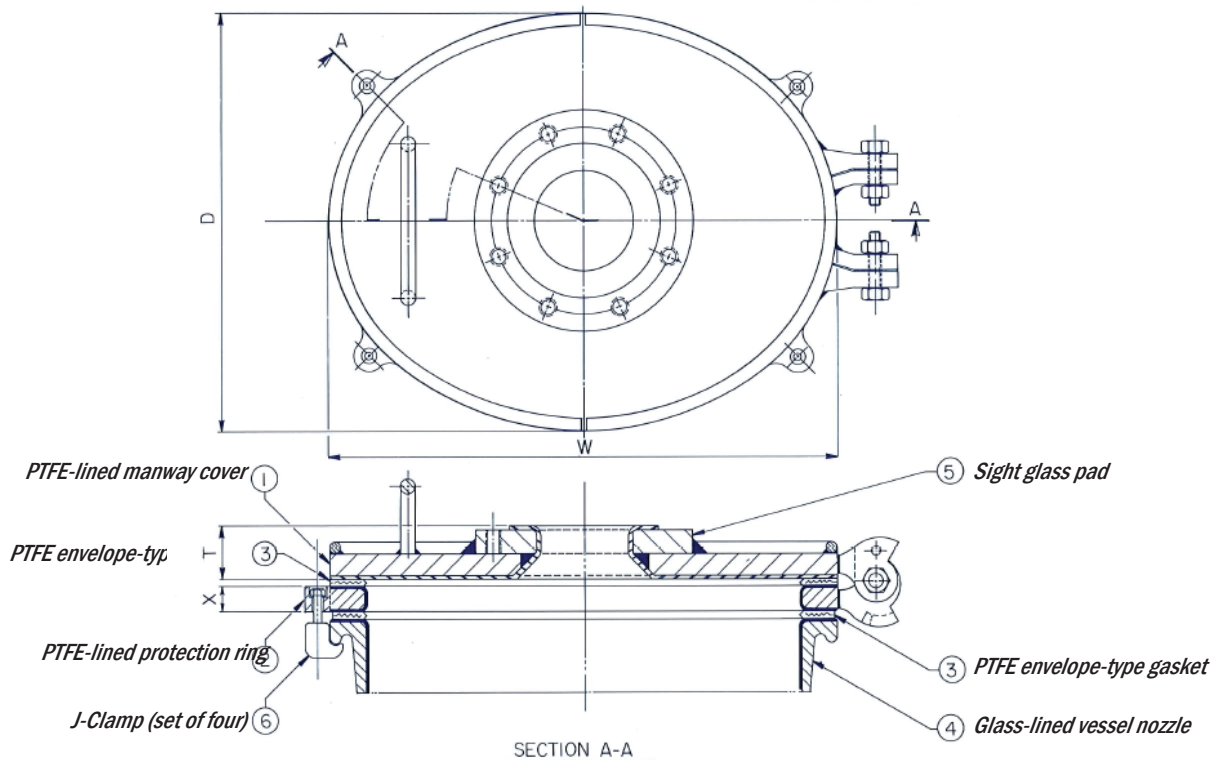
- Pressures from 150 psig to full vacuum
- Temperatures up to 450 °F

Options

- Single or multiple disk sight glass assemblies
- EasyLift™ Manway Assist with GasketSav'r™
- Pre-mounted accessories
- Higher pressure rating designs



Nominal Size	D	W	X	T
12 x 16	15	19	1	2-1/8
14 x 18	17	21	1	2-1/8
18 round	21	21	1	2-1/8
20 round DIN	24	24	1	-
24 round	17-9/16	27-9/16	1	-



Product Description

Now, you can protect your reactor investment by protecting manway contact surfaces from impact and abrasion with a DDPS long life protection ring. The ring is constructed of glass-filled solid PTFE, the same material used for long life bearings in pumps, seals, and other components. Because PTFE is a resilient material, it withstands impact well. Minor cuts and scratches in the surface will not affect the sealing qualities. Solid glass-filled PTFE eliminates the chance of iron contamination even in the event of damage.





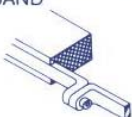
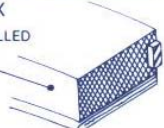
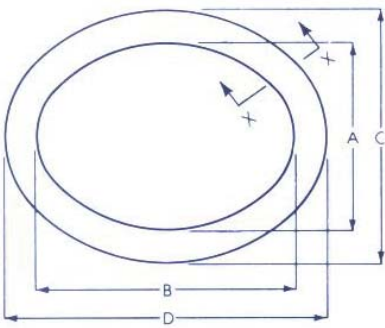
Advantages

Protection rings are an economical solution for protecting glass-lined steel manway surface from risk of impact and abrasion with these benefits:

- Dimensionally stable 140 mill thick wear surface - minor gouges will not affect the sealing quality and will not produce iron contamination. Won't break from thermal or mechanical shock.
- Fitted with welded hinges for easy mounting.
- Helps prevent glass damage if cover is dropped.
- Can mount to allow cover to hinge from either side.
- Interchangeable with existing protection rings on DDPS and competitor's equipment.
- Popular sizes stocked for fast delivery.
- Metal parts are galvanized and chromate treated for long life.
- Reduces maintenance costs.

Dimensions and Specifications

DDPS' PTFE protection ring is supplied ready for installation, including all hardware, J clamps, hinge adapters, etc. J clamps, hinge adapters, PTFE ring and retaining band are also available as spare parts.

<p>"J" CLAMP</p> 	<p>HINGE ADAPTER</p> 	<p>RETAINING BAND</p> 	<p>SECTION X-X SOLID GLASS-FILLED PTFE RING</p> 																																										
	<table border="1"> <thead> <tr> <th rowspan="2">Nominal size Inches</th> <th colspan="2">Inside diameter</th> <th colspan="2">Outside diameter</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>9 x 12</td> <td>8-1/2</td> <td>11-1/2</td> <td>11-3/4</td> <td>14-3/4</td> </tr> <tr> <td>12 x 16</td> <td>11-1/2</td> <td>15-1/2</td> <td>15</td> <td>19</td> </tr> <tr> <td>14 x 18</td> <td>13-1/2</td> <td>17-1/2</td> <td>17</td> <td>21</td> </tr> <tr> <td>18 round</td> <td>17-1/2</td> <td>17-1/2</td> <td>21</td> <td>21</td> </tr> <tr> <td>20 round</td> <td>19-7/16</td> <td>19-7/16</td> <td>23-7/16</td> <td>23-7/16</td> </tr> <tr> <td>20 round DIN</td> <td>19-1/2</td> <td>19-1/2</td> <td>24</td> <td>24</td> </tr> <tr> <td>24 round</td> <td>23-9/16</td> <td>23-9/16</td> <td>27-9/16</td> <td>27-9/16</td> </tr> </tbody> </table>	Nominal size Inches	Inside diameter		Outside diameter		A	B	C	D	9 x 12	8-1/2	11-1/2	11-3/4	14-3/4	12 x 16	11-1/2	15-1/2	15	19	14 x 18	13-1/2	17-1/2	17	21	18 round	17-1/2	17-1/2	21	21	20 round	19-7/16	19-7/16	23-7/16	23-7/16	20 round DIN	19-1/2	19-1/2	24	24	24 round	23-9/16	23-9/16	27-9/16	27-9/16
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