



Manholes III.



MAXIMAL PRESSURE

The maximum working pressure index, clearly reported for every single piece, represents the maximum pressure level which a manway-door or a manhole cover can resist, under normal conditions of use. The static pressure test through which all data have been obtained does not consider, obviously, the inside flows and the container's deformation due to welds and frames fitting up.



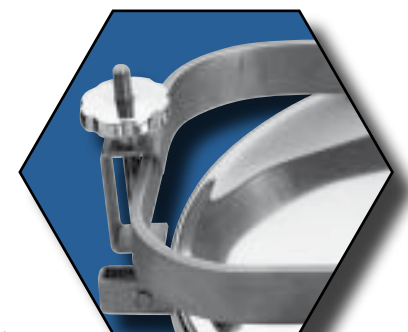
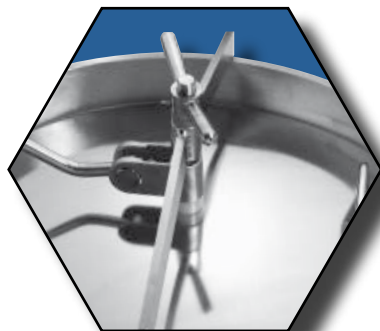
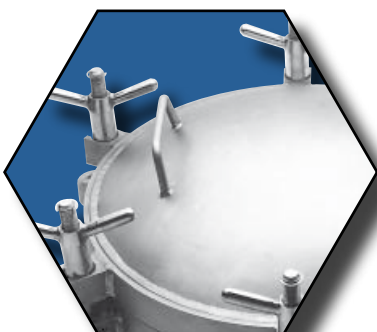
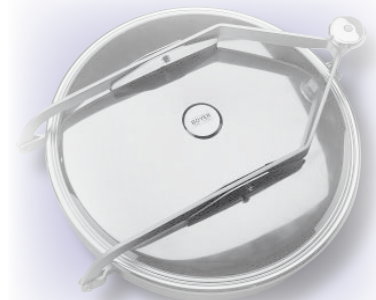
MATERIAL

Made of stainless steel
AISI 316L
(AISI 304 on request)



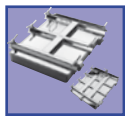
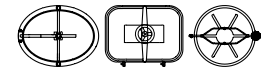
GASKETS

Standard gasket - natural rubber (PARA). Other gaskets on request.
We recommend control gaskets at every turn.



	Cod. P11-101 307 x 442 mm 1,6 bar	page 4	page 11	Cod. P21-116 411 x 455 mm 0,5 bar	
	Cod. P11-102 307 x 442 mm 1,6 bar	page 4	page 11	Cod. P21-147 / 167 / 148 / 168 411 x 455 mm 1,2 - 3,2 bar	
	Cod. P11-103 307 x 442 mm 1,6 bar	page 5	page 12	Cod. P21-516 / 21-517 411 x 455 mm 0,3 bar	
	Cod. P11-302 / P11-303 442 x 307 mm 1,6 / 1 bar	page 5	page 12	Cod. P22-238 / 22-239 / 22-249 Ø 204 / 354 mm 1,3 - 3,8 bar	
	Cod. P11-340-440 ED / P 450 x 550 / 400 x 500 mm 2,4 / 2,7 bar	page 6	page 13	Cod. P22-233/250/300/333/354/433/ 444/446/449/443/454/459/ 553/564/569/664/667/664 Ø 204 - 600 mm 2,7 - 8 bar	
	Cod. P11-129 / P11-125 407 x 452 / 411 x 455 mm 2,5 / 5 bar	page 6	page 14	Cod. P22-265 / 22-266 / 22-286 Ø 504 / 604 mm 0,9 - 1,3 bar	
	Cod. P11-410-510 410 x 510 mm 2 bar	page 7	page 14	Cod. P22-1600 Ø 1600 mm 1 bar	
	Cod. P11-608 600 x 800 mm 1 bar	page 7	page 15	Cod. P23-210 / P23-211 314 x 424 mm 0,6 - 0,8 bar	
	Cod. P12-510 / P12-610 / P12-800 Ø 504 / 604 / 800 mm 1 bar	page 8	page 15	Cod. P23-201 / 202 / 203 / 204 314 x 424 / 410 x 534 mm 1,2 - 1,6 bar	
	Cod. P13-105 314 x 424 mm 1,3 bar	page 8	page 16	Cod. P23-307 / P23-308 / P23-312 314 x 424 / 534 x 410 mm 0,3 bar	
	Cod. P13-409 / P13-410 410 x 534 mm 1 bar	page 9	page 16	Cod. P23-111 / P23-113 410 x 534 mm 0,6 bar	
	Cod. P13-509 435 x 555 mm 1 bar	page 9	page 17	Cod. P23-122 410 x 534 mm 0,6 bar	
	Cod. P21-303 / P21-407 307 x 442 mm 0,1 bar	page 10	page 17	Cod. P23-411 / P23-413 / P23-510 411 x 535 / 310 x 420 mm 0,5 - 0,6 bar	
	Cod. P21-503 / P21-507 307 x 442 mm 0,1 bar	page 10	page 18	Cod. P23-580 500 x 800 mm 0,5 bar	

Gaskets, screens and safety systems, spare parts see page 33-37



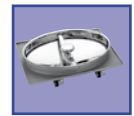
Cod. P23-680 / P23-810
600 x 800 / 800 x 1000 mm
0,8 bar page 18

Cod. P34-023 / P34-024 / P34-107
Ø 500 / Ø 600 / Ø 1007 mm
for wooden tanks - 0,1 bar page 25



Cod. P31-080 / P31-081
Ø 800 mm
0,1 bar - ASEPTIC page 19

Cod. P34-040
305 x 440 mm
for wooden tanks - 1 bar page 26



Cod. P31-200 / 300 / 400 / 500 / 600
Ø 200 / 300 / 430 / 500 / 600 mm
0,05 - 0,8 bar - ASEPTIC page 19

Cod. P34-315
Ø 354 mm
for wooden tanks - 0,4 bar page 26



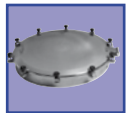
Cod. P31-498 / P31-598 / P31-698
Ø 430 / 500 / 600 mm
0,05 - 0,2 bar - ASEPTIC page 20

Cod. P35-418
Ø 432 mm
0,3 bar page 27



Cod. P31-230 / 330 / 430 / 530 / 630
Ø 200 / 300 / 430 / 500 / 600 mm
0,05 - 0,1 bar page 20

Cod. P35-315
Ø 384 mm
0,3 bar page 27



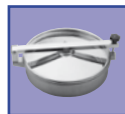
Cod. P31-835 / 1035 / 1235 / 1435
Ø 855 / 1035 / 1200 / 1400 mm
0,1 bar page 21

Cod. P35-307
Ø 314 x 424 mm
0,3 bar page 28



Cod. P32-305 / 405 / 705 / 805
Ø 300 / 400 / 500 / 600 mm
0,6 - 1,2 bar page 21

Cod. P41-040
Ø 305 x 440 mm
to be sealed - 1 bar page 28



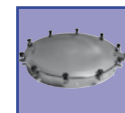
Cod. P33-150/230/330/430/530/630
Ø 145/220/296/393/500/630 mm
0,05 - 0,4 bar page 22

Cod. P42-020/70 / 21/70
Ø 490 / 590 mm
to be sealed - 0,1 bar page 29



Cod. P33-114 / P33-255 / P33-315
Ø 204 / 255 / 354 mm
0,3 - 0,8 bar page 22

Cod. P42-835 / 1035 / 1235 / 1435
Ø 855 / 1035 / 1200 / 1400 mm
to be sealed - 0,1 bar page 29



Cod. P33-212 / P33-213
Ø 504 / 604 mm
0,1 bar page 23

Cod. P42-080 / P42-081
Ø 800 mm
to be sealed - 0,1 bar page 30



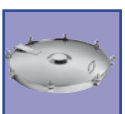
Cod. P33-200 / 300 / 400 / 500 / 600
Ø 200 / 300 / 400 / 500 / 600 mm
0,05 - 0,3 bar page 23

Cod. P43-031 / P43-046
310 x 420 / 405 x 530 mm
to be sealed - 0,5 bar page 30



Cod. P33-196 / 301 / 401 / 501 / 601
Ø 200 / 300 / 400 / 500 / 600 mm
0,1 - 0,6 bar page 24

Cod. P43-008 / P43-010
310 x 420 / 405 x 530 mm
to be sealed - 0,5 bar page 31



Cod. P33-107
Ø 1007 mm
0,1 bar page 24

Cod. P43-012 / P43-015
405 x 530 / 420 x 310 mm
to be sealed - 0,5 / 1 bar page 32

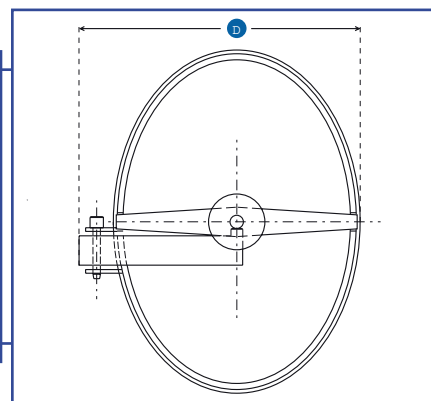
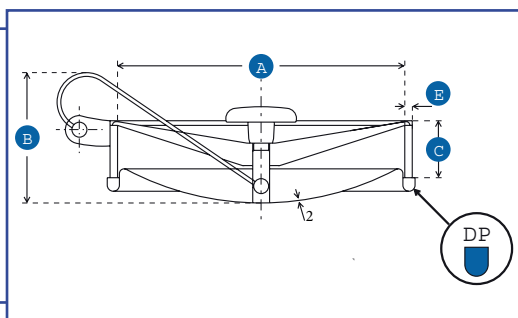


Cod. P34-050
Ø 1000 mm
0,1 bar - for wooden tanks page 25

Cod. P43-047
405 x 530 mm
to be sealed - 0,5 bar page 32



Gaskets, screens and safety systems, spare parts see page 33-37

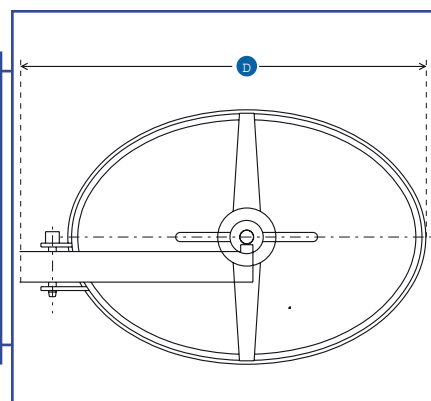
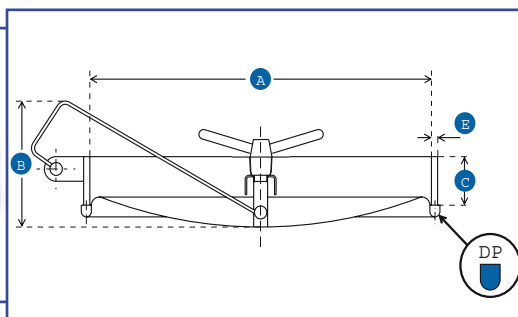


Oval autoclave manlid
307 x 442 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P11-101

A	B	C	D	E	PS	Gasket	Weight
307 x 442	145	60	379	8	1,6		8



Oval autoclave manlid
307 x 442 mm

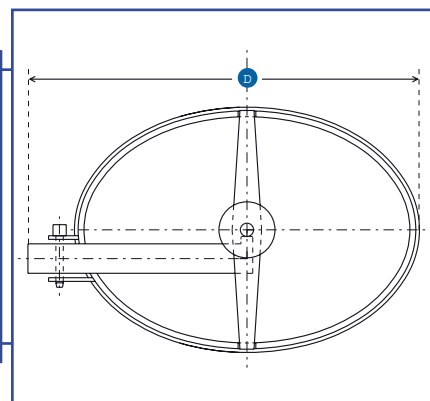
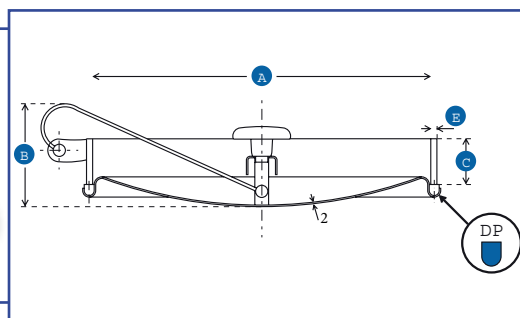
Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P11-102

A	B	C	D	E	PS	Gasket	Weight
307 x 442	156	60	531	8	1,6		8



Option



Oval autoclave manlid
307 x 442 mm

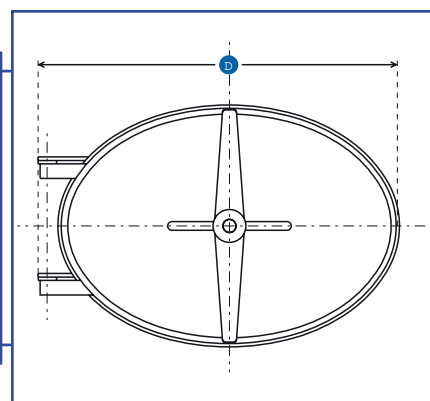
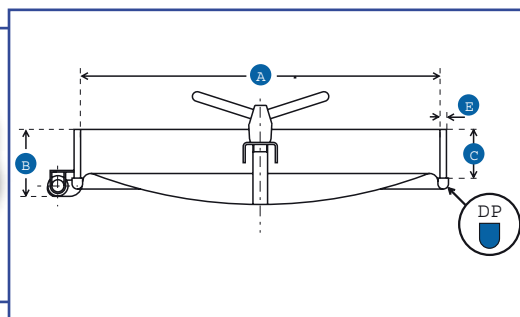
Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR



•Option

Cod. P11-103

A	B	C	D	E	PS	Gasket	Weight
307 x 442	135	60	531	8	1,6		9



Oval autoclave manlid
442 x 307 mm

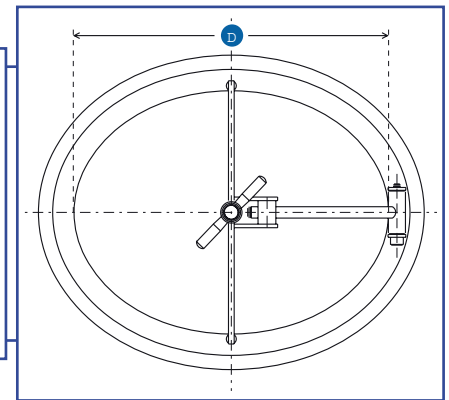
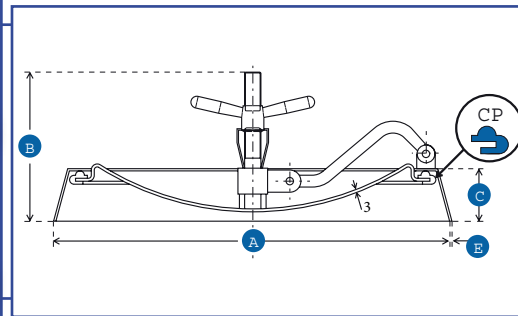
Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P11-302

Cod. P11-303

A	B	C	D	E	PS	Gasket	Weight
442 x 307	82	60	495	8	1,6		8
442 x 307	82	60	495	6	1		7

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

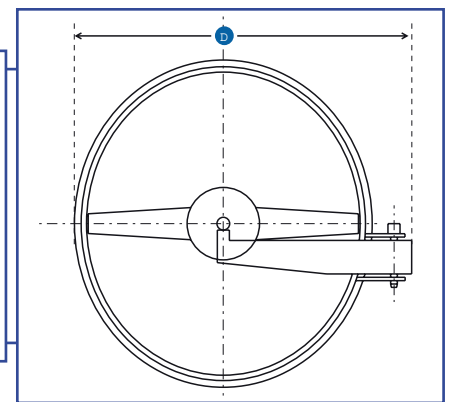
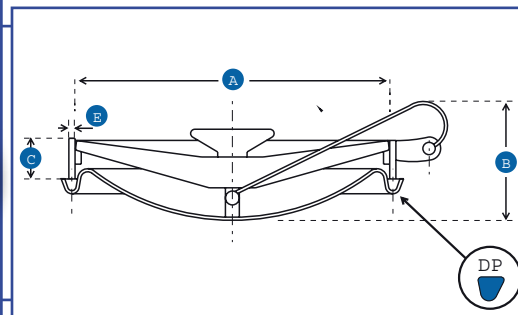


Oval autoclave manlid
450 x 550 mm
400 x 500 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P11-340-440 ED
Cod. P11-340-440 P

A	B	C	D	E	CODAP	ASME	TÜV	Gasket	Weight
450 x 550	183	80	340 x 440	4	2,4	-	2,7		12
400 x 500	64	12	340 x 440	30	2,4	-	2,7		11



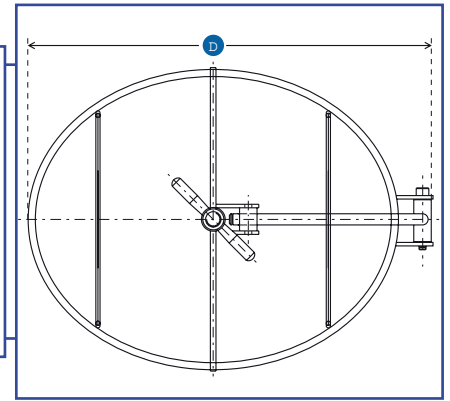
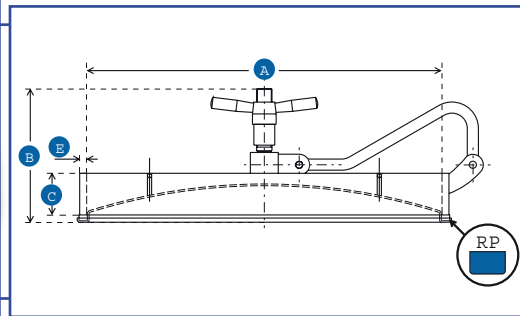
Oval autoclave manlid
407 x 452 mm
411 x 455 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P11-129
Cod. P11-125

A	B	C	D	E	CODAP	ASME	TÜV	PS	Gasket	Weight
407 x 452	174	60	568	12	3,5	-	-	5		16
411 x 455	174	60	568	8	-	-	-	2,5		14

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

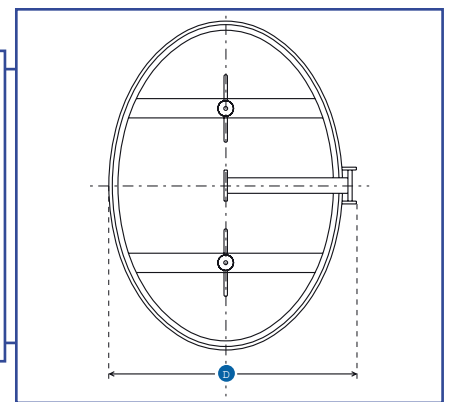
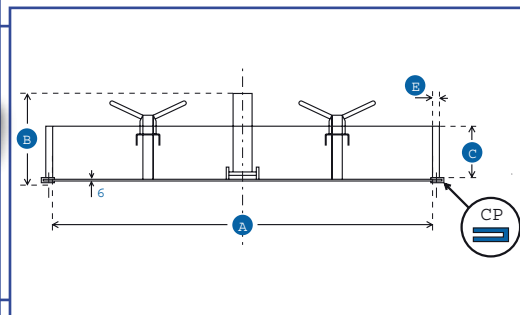


Oval autoclave manlid
410 x 510 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P11-410-510

A	B	C	D	E	CODAP	ASME	TÜV	PS	Gasket	Weight
410 x 510	192	60	577	10	1,7	-	1,7	2		19



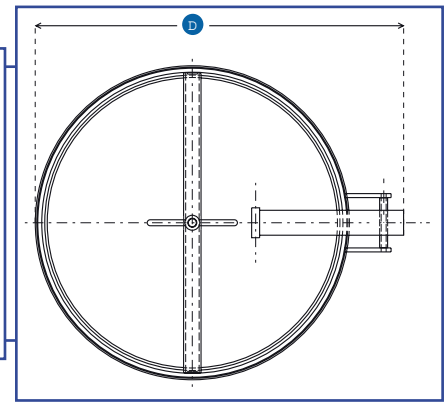
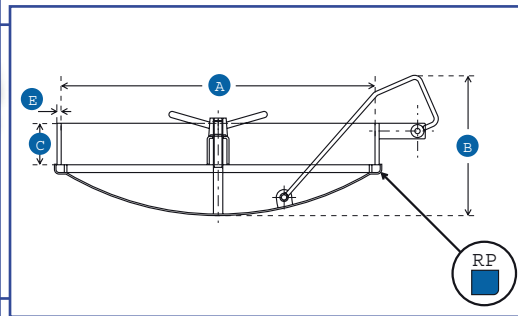
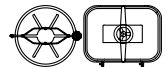
Oval autoclave manlid
600 x 800 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P11-608

A	B	C	D	E	PS	Gasket	Weight
600 x 800	143	60	742	8	1		51

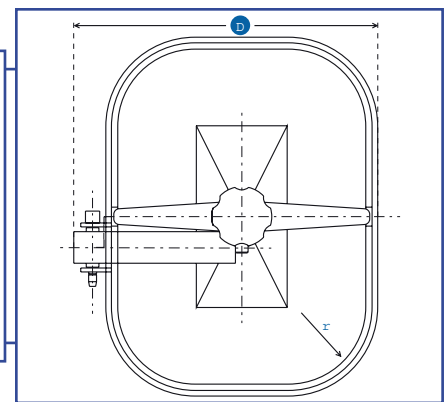
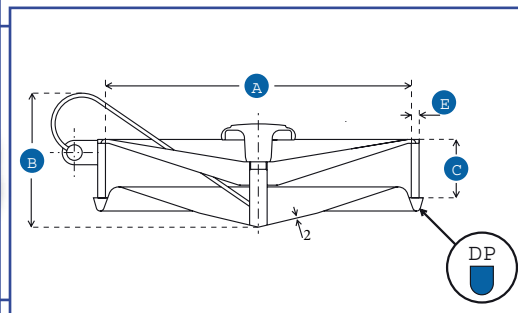
No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket



Round autoclave manlid
 Ø 504 mm, Ø 604 mm, Ø 800 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D	E	PS	Gasket	Weight
Cod. P12-510	504	270	80	639	8	1		22
Cod. P12-610	604	270	80	739	8	1		26
Cod. P12-800	800	270	80	894	8	1		35

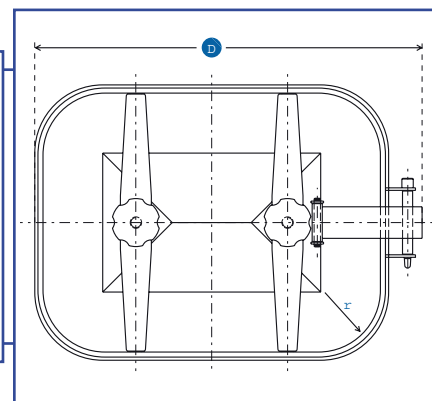
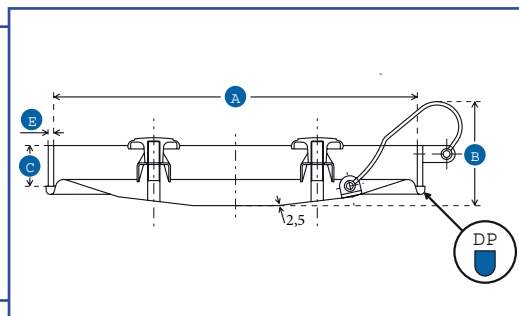
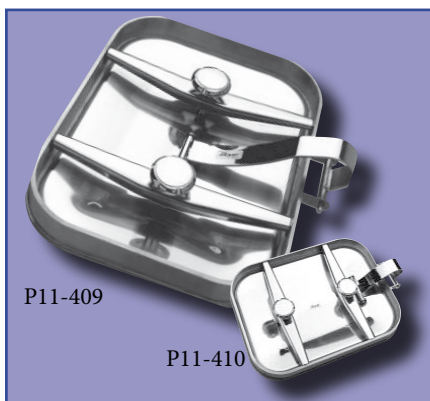


Rectangular autoclave manlid
 314 x 424 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D	E	r	PS	Gasket	Weight
Cod. P13-105	314 x 424	138	60	385	8	98	1,3		9

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket



Rectangular autoclave manlid

410 x 534 mm

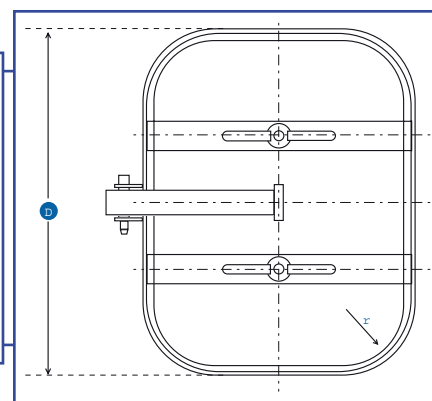
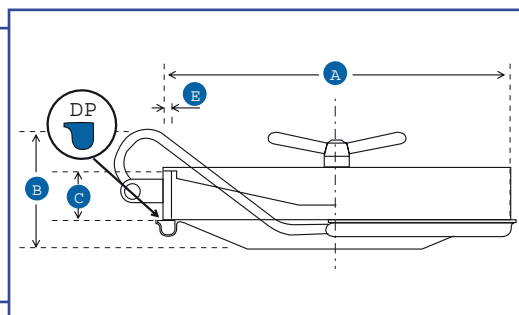
534 x 410 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P13-409

Cod. P13-410

	A	B	C	D	E	r	PS	Gasket	Weight
Cod. P13-409	410 x 534	141	60	530	8	98	1		16
Cod. P13-410	534 x 410	155	60	613	8	98	1		16



Rectangular autoclave manlid

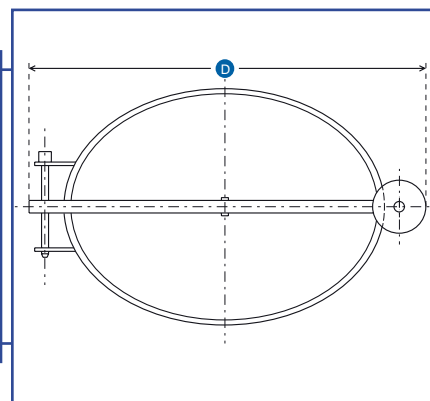
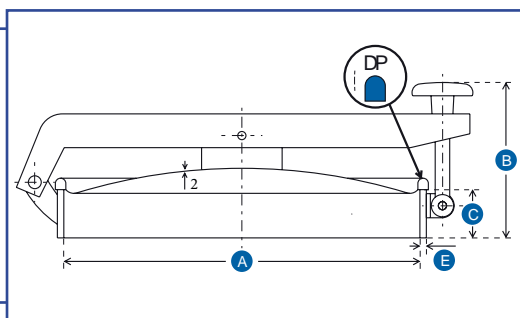
435 x 555 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P13-509

	A	B	C	D	E	r	PS	Gasket	Weight
Cod. P13-509	435 x 555	140	60	446	10	100	1		18

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

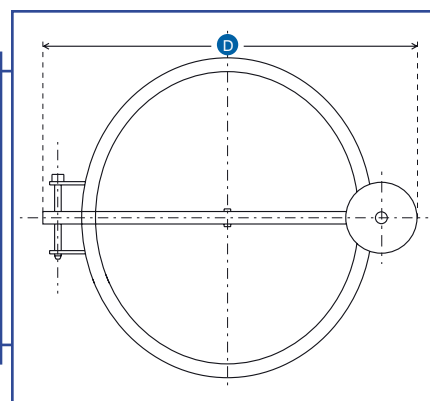
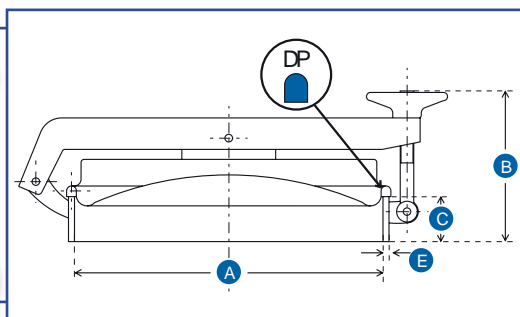


Oval external manlid
307 x 442 mm
442 x 307 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P21-303
Cod. P21-407

	A	B	C	D	E	)BAR(	PS	Gasket	Weight
Cod. P21-303	307 x 442	170	60	429	8	0,1	0,3		9
Cod. P21-407	442 x 307	200	60	567	8	0,1	0,3		9



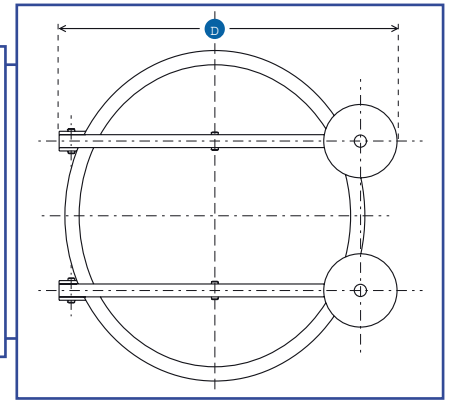
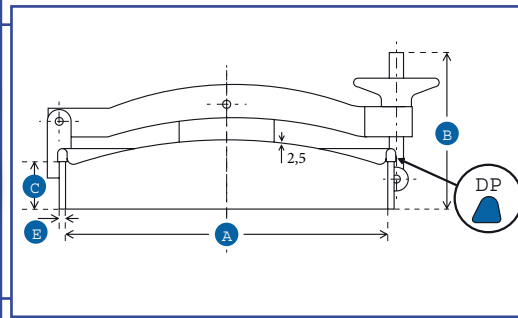
Oval external manlid
307 x 442 mm
442 x 307 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P21-503
Cod. P21-507

	A	B	C	D	E	)BAR(	PS	Gasket	Weight
Cod. P21-503	307 x 442	170	60	429	8	0,1	0,3		12
Cod. P21-507	442 x 307	200	60	567	8	0,1	0,3		12

No. of peripheral swing bolts $\frac{1}{150^{\circ}\text{C}}$)BAR(Max. allowed working pressure at 150 °C)BAR(Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

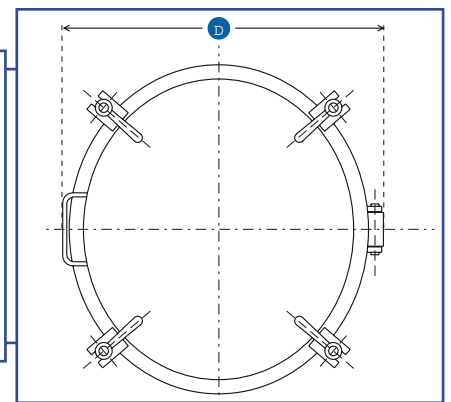
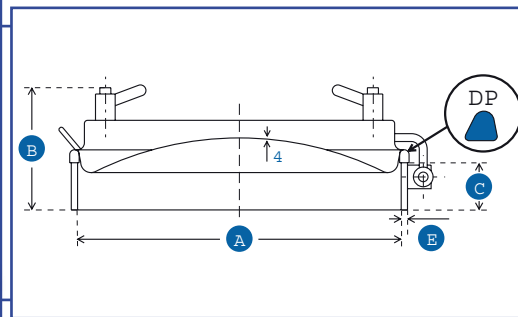


Oval external manlid
411 x 455 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P21-116

A	B	C	D	E	BAR	PS	Gasket	Weight
411 x 455	198	60	498	8	0,1	0,5		14



Oval external manlid
411 x 455 mm
455 x 411 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P21-147

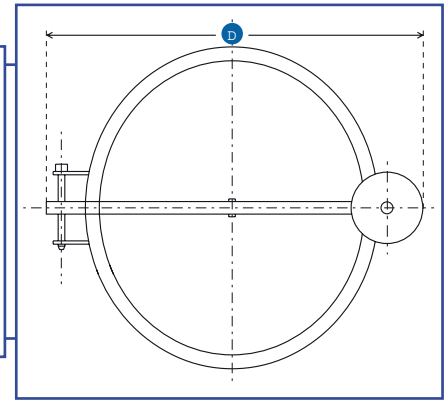
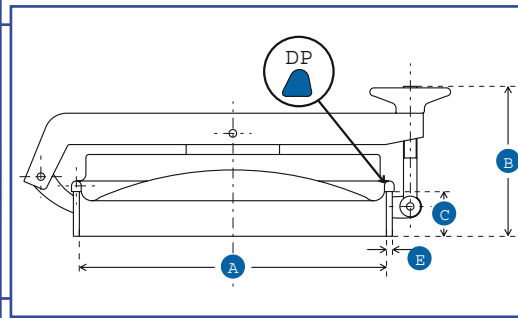
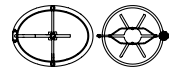
Cod. P21-167

Cod. P21-148

Cod. P21-168

A	B	C	D	E			CODAP	ASME	TÜV	BAR	Gasket	Weight
411 x 455	155	60	477	8	4	2	2	1,2	0,1		17	
411 x 455	155	60	520	8	6	3	3,2	1,8	0,1		18	
455 x 411	155	60	471	8	4	2	2	1,2	0,1		17	
455 x 411	155	60	540	8	6	3	3,2	1,8	0,1		18	

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

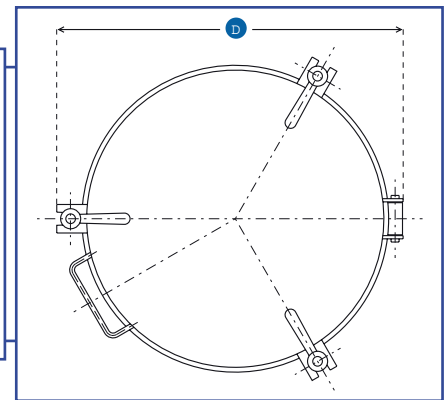
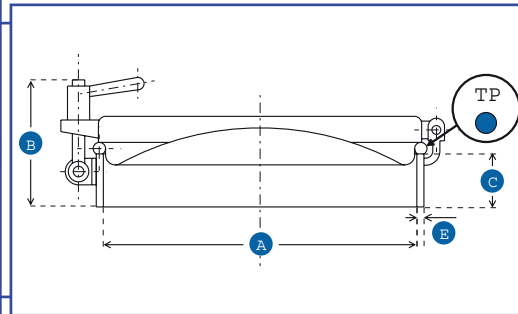


Oval external manlid
411 x 455 mm
455 x 411 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P21-516
Cod. P21-517

	A	B	C	D	E	BAR	PS	Gasket	Weight
Cod. P21-516	411 x 455	162	60	570	8	0,1	0,3		18
Cod. P21-517	455 x 411	196	60	602	8	0,1	0,3		18



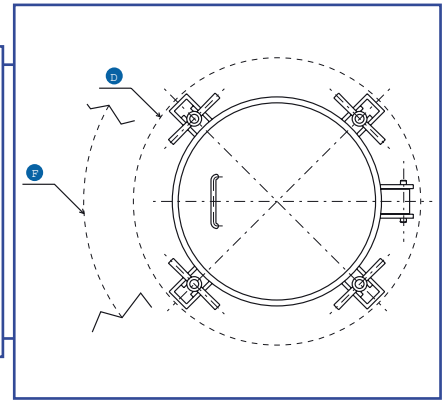
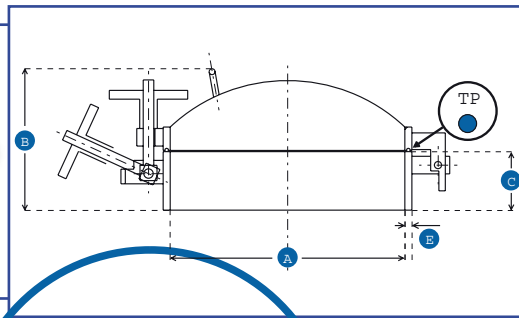
Round external manlid
Ø 204 mm
Ø 354 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

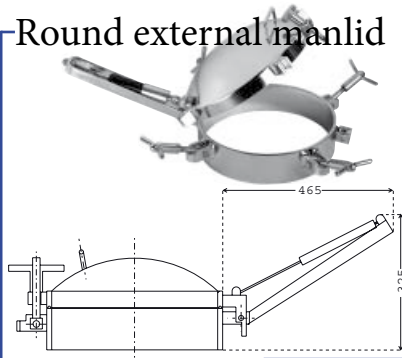
Cod. P22-238
Cod. P22-239
Cod. P22-249

	A	B	C	D	E		CODAP	ASME	TÜV	BAR	Gasket	Weight
Cod. P22-238	204	155	60	292	8	3	3,8	3,8	3,7	0,1		6
Cod. P22-239	354	155	60	441	8	3	2,2	2,2	1,3	0,1		11
Cod. P22-249	354	155	60	420	8	4	2,7	2,7	1,7	0,1		12

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket



Round external manlid



Option



P22-433

Option

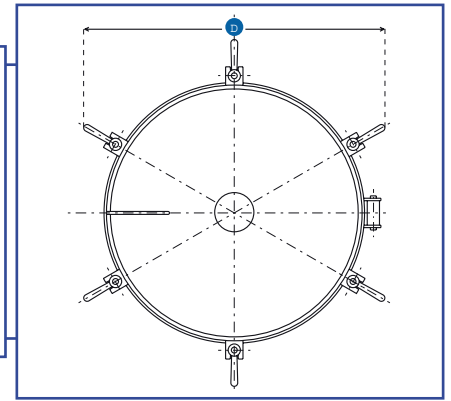
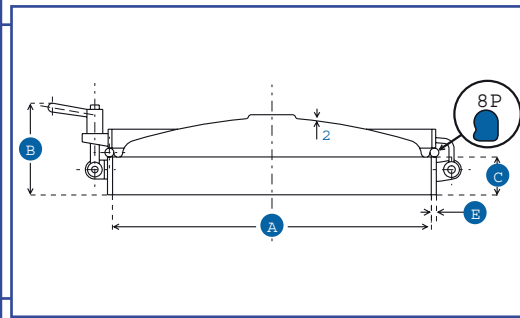
	A	B	C	D	E	F			CODAP	ASME	TÜV		Gasket	Weight
• Cod. P22-233	204	220	100	371	12	558	3	8	-	-	-	0,1		16
• Cod. P22-250	250	220	100	424	12	580	3	5	-	-	-	0,1		19
• Cod. P22-300	300	220	100	471	12	627	3	4	-	-	-	0,1		21
• Cod. P22-333	354	223	100	528	12	680	3	3	-	-	-	0,1		23
• Cod. P22-354	354	223	100	528	12	680	4	5	-	-	-	0,1		25
• Cod. P22-433	400	241	100	583	12	784	4	3	3	3	2,8	0,1		33
• Cod. P22-444	400	241	100	583	12	784	5	4	4	4	3,5	0,1		34
• Cod. P22-446	400	241	100	583	12	784	6	5	5	5	-	0,1		35
• Cod. P22-449	400	241	100	583	12	784	9	8	8	8	6,4	0,1		40
• Cod. P22-443	457	236	100	633	12	841	5	3	3	3	2,7	0,1		37
• Cod. P22-454	457	236	100	633	12	841	6	4	4	4	3,3	0,1		39
• Cod. P22-459	457	236	100	633	12	841	11	7	7	7	6	0,1		47
• Cod. P22-553	500	231	100	671	12	884	6	3	3	3	2,7	0,1		43
• Cod. P22-564	500	231	100	671	12	884	7	4	4	4	3,2	0,1		44
• Cod. P22-569	500	231	100	671	12	884	13	7	7	7	6	0,1		54
• Cod. P22-664	600	232	100	768	12	1004	7	3	3	3	-	0,1		50
• Cod. P22-667	600	232	100	768	12	1004	10	5	5	5	-	0,1		54
• Cod. P22-669	600	232	100	768	12	1004	14	7	7	7	-	0,1		58

Material: AISI 316L (AISI 304 on request), standard gasket: natural rubber, other gaskets: EPDM, silicone, VITON, neoprene, NBR

No. of peripheral swing bolts Max. allowed working pressure at 150 °C (Absolute pressure in bar (vacuum)) Bonded gasket Crimped gasket

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 armat@cominnet.cz
 Manholes III. - page 13



Round external manlid

Ø 504 mm

Ø 604 mm

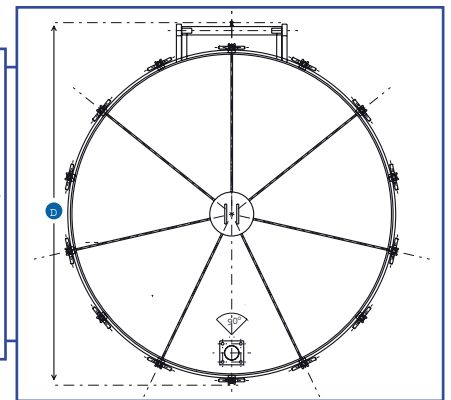
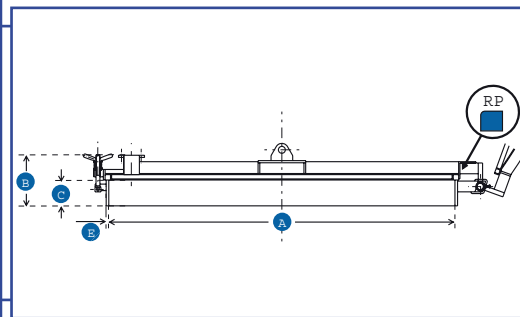
Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P22-265

Cod. P22-266

Cod. P22-286

A	B	C	D	E		CODAP	ASME	TÜV	BAR	Gasket	Weight
504	155	60	562	8	6	1,1	-	1,3	0,2		19
604	155	60	662	8	6	1	-	0,9	0,5		21
604	155	60	662	8	8	1,1	-	0,9	0,5		22



Round external manlid

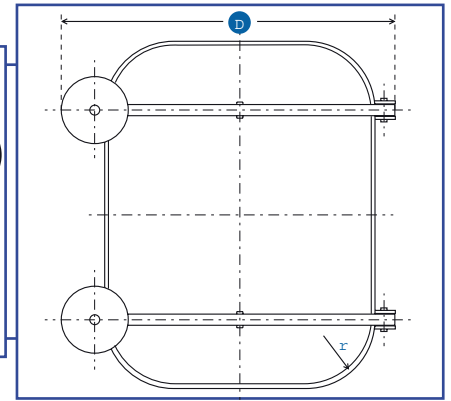
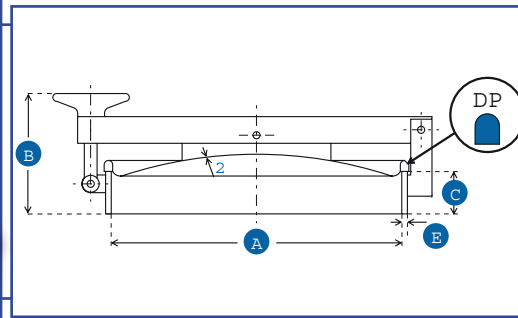
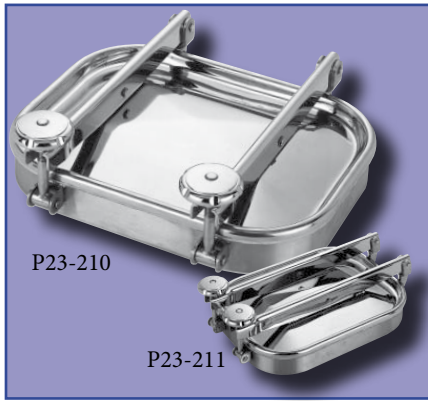
Ø 1600 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P22-1600

A	B	C	D	E		PS	Gasket	Weight
1600	241	120	1934	12	14	1		252

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

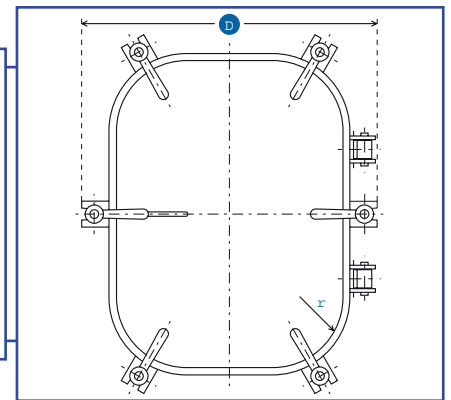
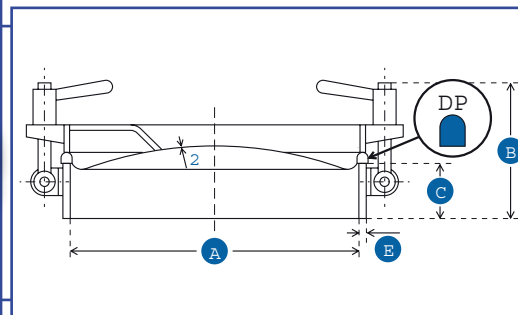
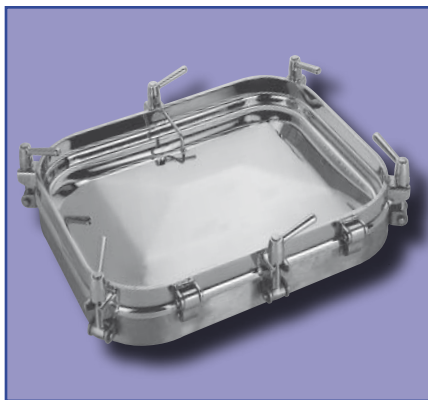


Rectangular external manlid
314 x 424 mm
424 x 314 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P23-210
Cod. P23-211

	A	B	C	D	E	r	PS	BAR	Gasket	Weight
Cod. P23-210	314 x 424	67	60	427	8	98	0,8	0,2		11
Cod. P23-211	424 x 314	67	60	532	8	98	0,6	0,2		13



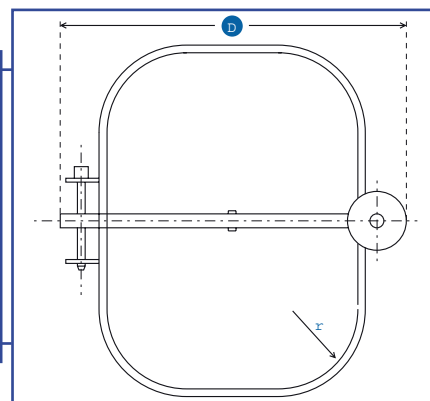
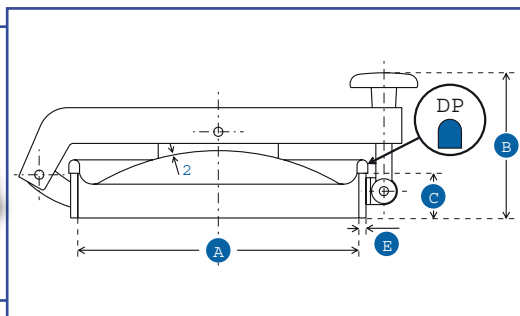
Rectangular external manlid
314 x 424 mm
410 x 534 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P23-201
Cod. P23-202
Cod. P23-203
Cod. P23-204

	A	B	C	D	E	r	PS	BAR	Gasket	Weight
Cod. P23-201	314 x 424	155	60	402	8	98	1,6	0,2		13
Cod. P23-202	424 x 314	155	60	480	8	98	1,6	0,2		13
Cod. P23-203	410 x 534	155	60	498	8	98	1,2	0,1		18
Cod. P23-204	534 x 410	155	60	590	8	98	1,2	0,1		18

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket



Rectangular external manlid

424 x 314 mm

534 x 410 mm

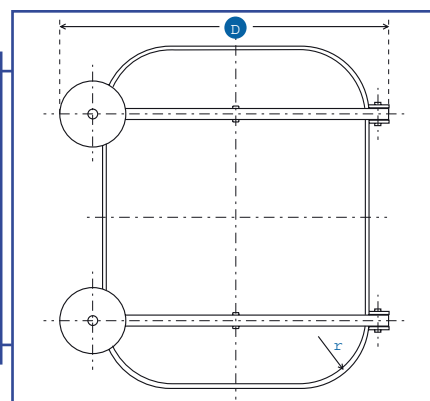
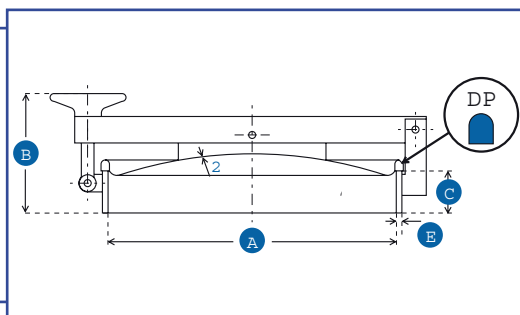
Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P23-307

Cod. P23-308

Cod. P23-312

	A	B	C	D	E	r	PS	)BAR(	Gasket	Weight
Cod. P23-307	314 x 424	163	60	446	8	98	0,3	0,2		10
Cod. P23-308	424 x 314	172	60	557	8	98	0,3	0,2		10
Cod. P23-312	534 x 410	200	60	683	8	98	0,3	0,5		16



Rectangular external manlid

410 x 534 mm

534 x 410 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR



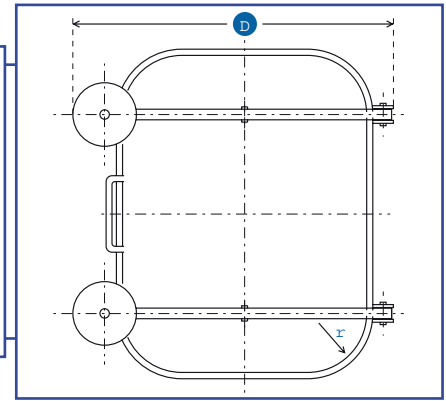
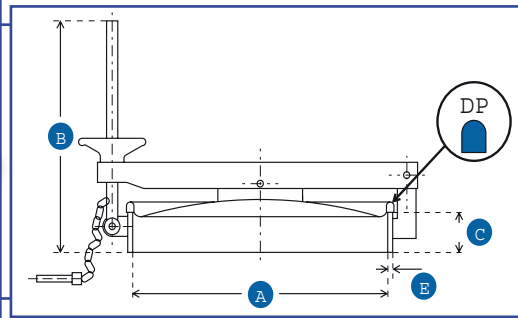
Option

Cod. P23-111

Cod. P23-113

	A	B	C	D	E	r	PS	)BAR(	Gasket	Weight
Cod. P23-111	410 x 534	156	60	537	8	98	0,6	0,5		18
Cod. P23-113	534 x 410	156	60	537	8	98	0,6	0,5		20

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

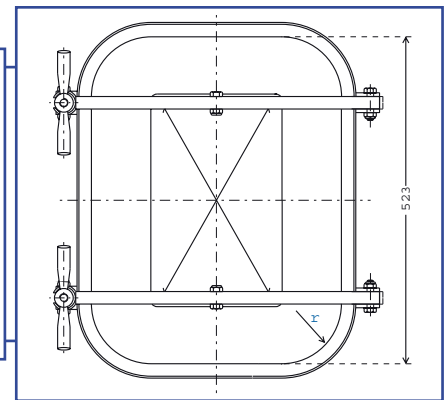
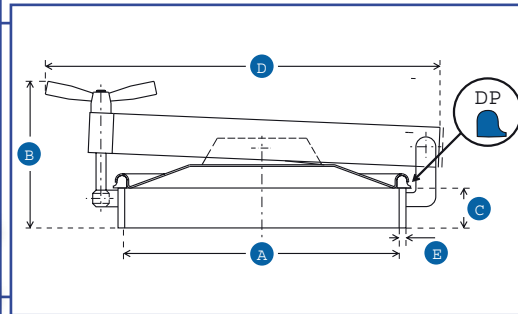


Rectangular external manlid
410 x 534 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P23-122

A	B	C	D	E	r	PS	BAR	Gasket	Weight
410 x 534	348	60	545	8	98	0,6	0,5		20



Rectangular external manlid
535 x 411 mm
310 x 420 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

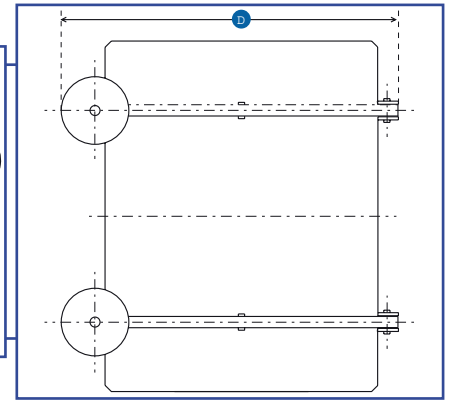
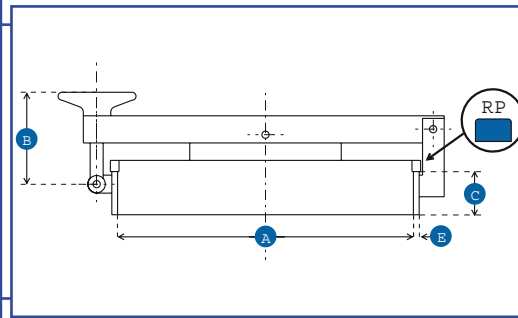
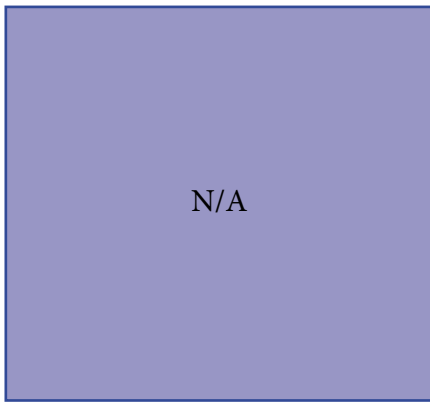
Cod. P23-411

Cod. P23-413

Cod. P23-510

A	B	C	D	E	r	PS	BAR	Gasket	Weight
411 x 535	209	60	592	10	100	0,6		21	
535 x 411	209	60	607	10	100	0,5		22	
310 x 420	175	60	492	10	100	0,5		15	

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

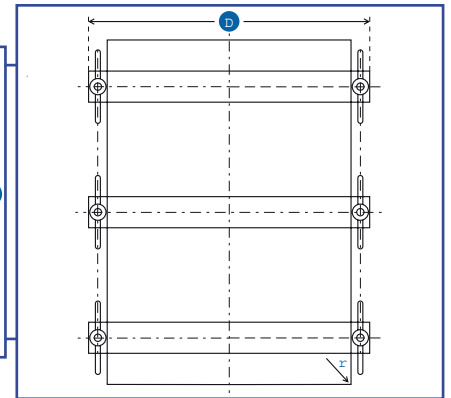
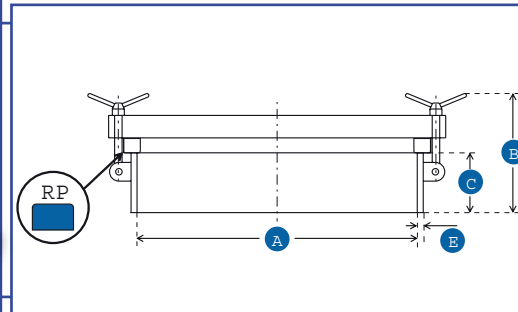
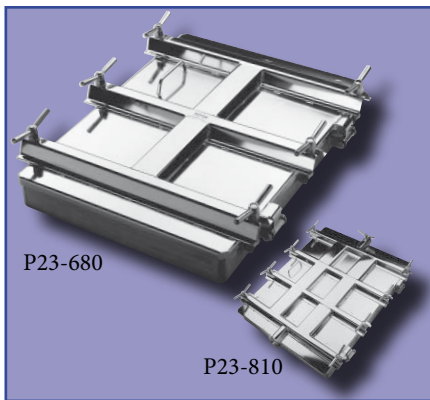


Rectangular external manlid
500 x 800 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P23-580

A	B	C	D	E	r	PS	Gasket	Weight
500 x 800	137	80	605	8	2	0,5		44



Rectangular external manlid
600 x 800 mm
800 x 1000 mm

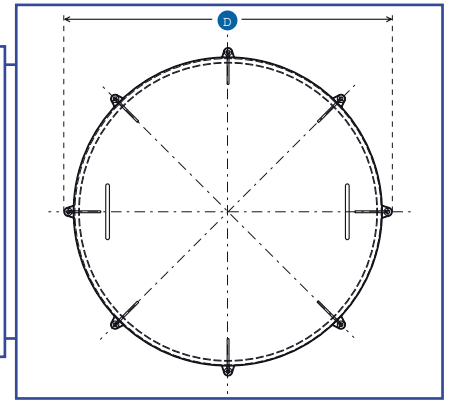
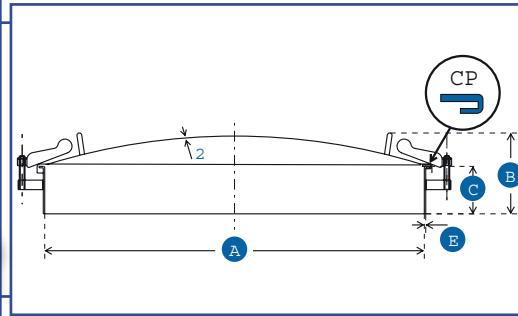
Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P23-680

Cod. P23-810

A	B	C	D	E	r	PS	Gasket	Weight
600 x 800	141	60	530	8	2	0,8		54
800 x 1000	155	60	613	8	2	0,8		82

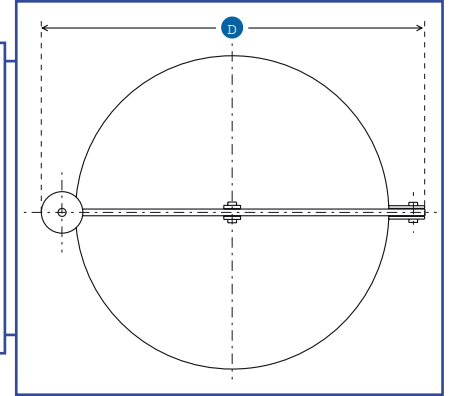
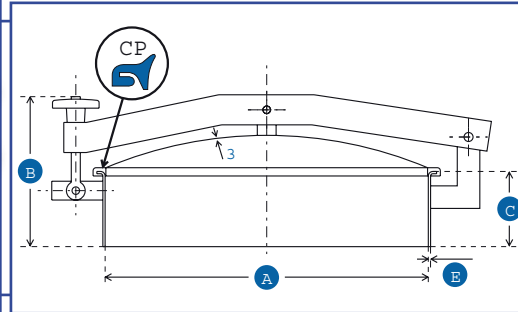
No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket



Non pressure hygienic access cover
Ø 800 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D	E		PS	Gasket	Weight
Cod. P31-080	800	170	100	884	3	8	0,1		25
Cod. P31-081	800	170	100	928	3	8	0,1		25

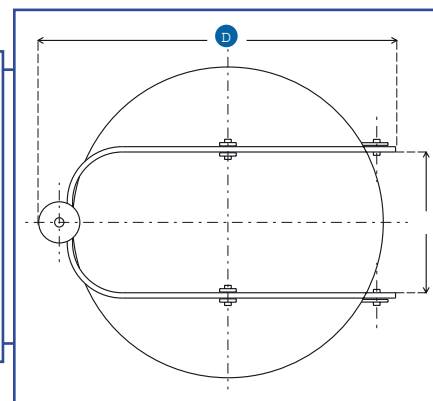
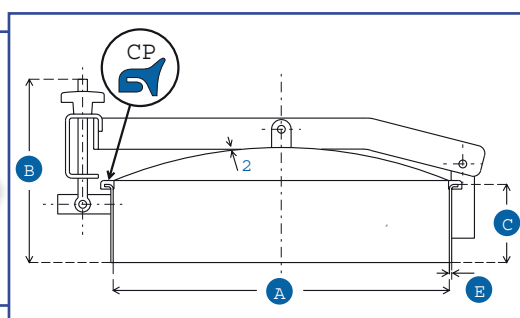


Non pressure hygienic access cover
Ø 200 mm, Ø 300 mm, Ø 430 mm, Ø 500 mm, Ø 600 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D	E	PS	Gasket	Weight
Cod. P31-200	200	337	100	205	3	0,8		5
Cod. P31-300	300	441	100	441	3	0,3		8
Cod. P31-400	430	569	100	569	3	0,2		11
Cod. P31-500	500	651	100	651	3	0,1		13
Cod. P31-600	600	780	100	780	3	0,05		15

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

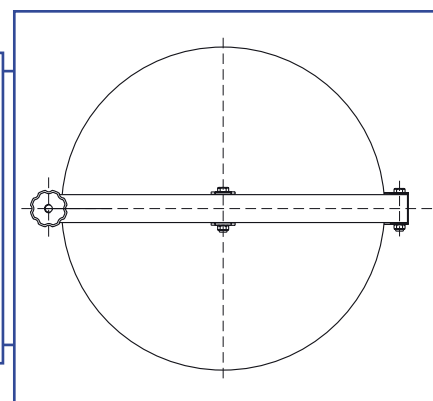
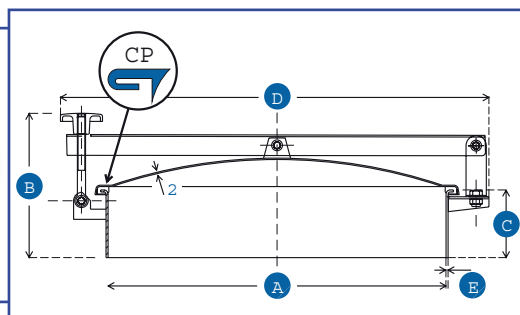


Non pressure hygienic access cover
 Ø 430 mm, Ø 500 mm, Ø 600 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

- Cod. P31-498
- Cod. P31-598
- Cod. P31-698

	A	B	C	D	E	PS	Gasket	Weight
Cod. P31-498	430	212	100	547	3	0,2		13
Cod. P31-598	500	260	100	620	3	0,1		15
Cod. P31-698	600	270	100	720	3	0,05		18



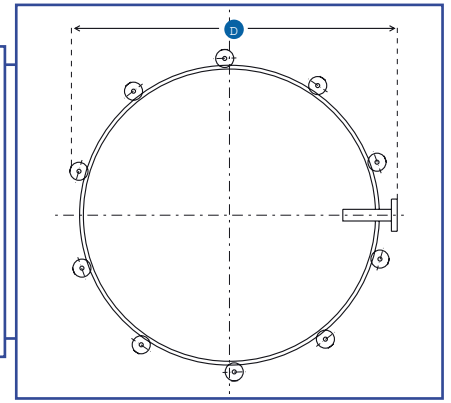
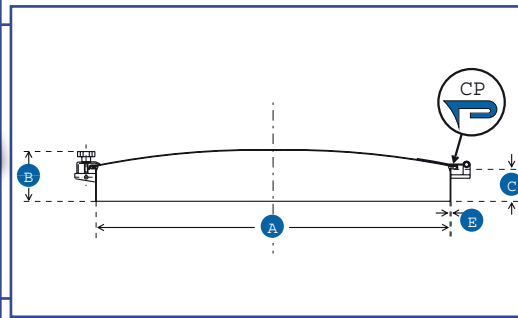
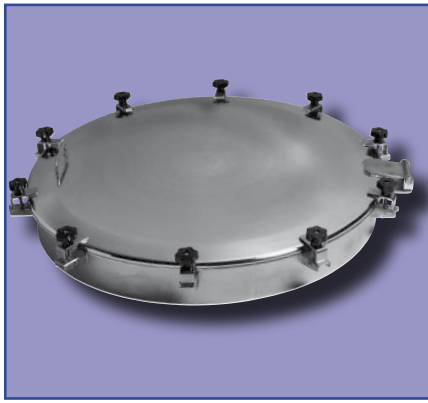
Non pressure retention free access cover
 Ø 200 mm, Ø 300 mm, Ø 430 mm, Ø 500 mm, Ø 600 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

- Cod. P31-230
- Cod. P31-330
- Cod. P31-430
- Cod. P31-530
- Cod. P31-630

	A	B	C	D	E	PS	Gasket	Weight
Cod. P31-230	200	230	100	315	2	0,1		4
Cod. P31-330	300	230	100	415	2	0,1		5
Cod. P31-430	430	230	100	515	2	0,1		8
Cod. P31-530	500	230	100	625	2	0,1		9
Cod. P31-630	600	230	100	718	2	0,05		11

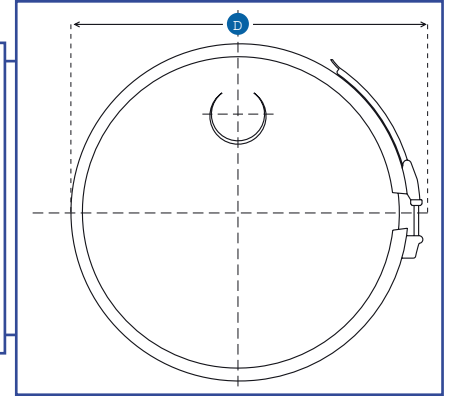
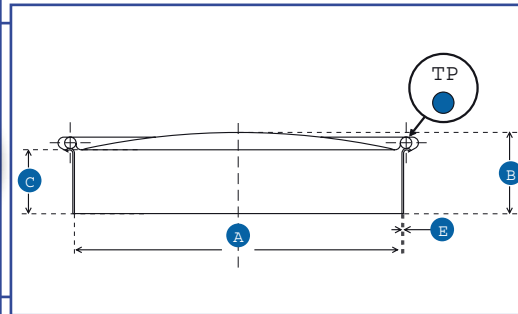
No. of peripheral swing bolts Max. allowed working pressure at 150 °C (Absolute pressure in bar (vacuum)) Bonded gasket Crimped gasket



Non pressure retention free access cover
 Ø 855 mm, Ø 1035 mm, Ø 1200 mm, Ø 1400 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D	E		PS	Gasket	Weight
Cod. P31-835	855	100	135	1015	2	10	0,1		25
Cod. P31-1035	1035	100	135	1162	2	10	0,1		31
Cod. P31-1235	1200	100	135	1360	2	15	0,1		35
Cod. P31-1435	1400	100	135	1504	2	18	0,1		41

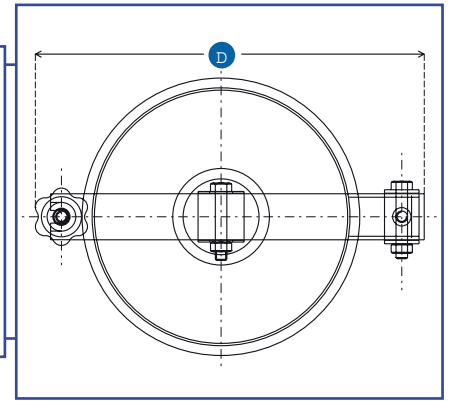
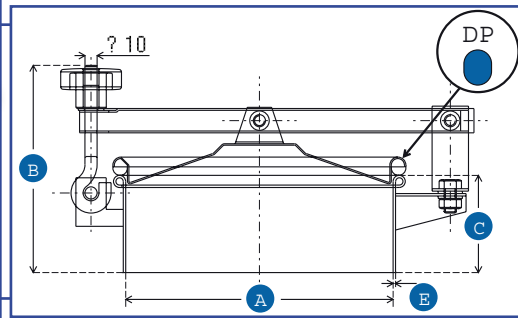
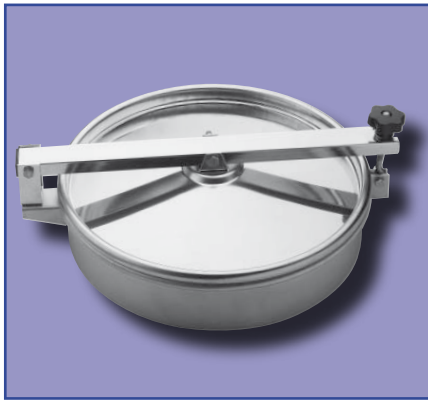


CLAMP manlid
 Ø 300 mm, Ø 400 mm, Ø 500 mm, Ø 600 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D	E	PS	Gasket	Weight
Cod. P32-305	300	103	80	363	2	1,2		3
Cod. P32-405	400	103	80	463	2	1		5
Cod. P32-705	500	145	80	563	2	1		8
Cod. P32-805	600	142	80	663	2	0,6		10

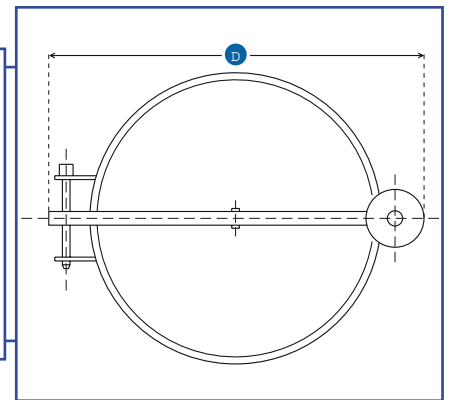
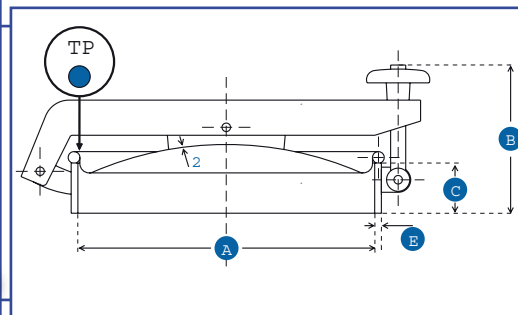
No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket



Non-pressure access cover
 Ø 145 mm, Ø 220 mm, Ø 296 mm
 Ø 393 mm, Ø 500 mm, Ø 630 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D	E	PS	Gasket	Weight
Cod. P33-150	145	168	80	262	1,5	0,4		3
Cod. P33-230	220	175	80	338	2	0,1		4
Cod. P33-330	296	175	80	417	2	0,1		5
Cod. P33-430	393	175	80	515	2	0,1		8
Cod. P33-530	500	175	80	618	2	0,1		9
Cod. P33-630	630	175	80	718	2	0,05		11

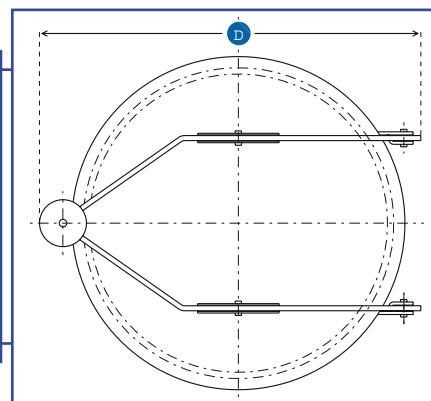
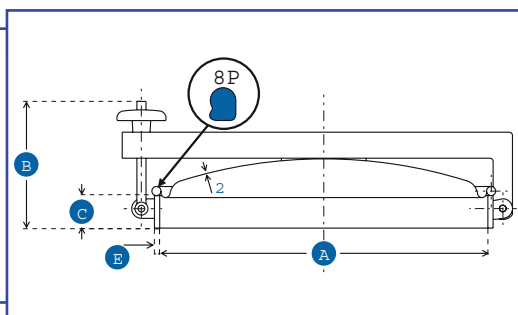


Non-pressure access cover
 Ø 204 mm, Ø 255 mm, Ø 354 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D	E	PS	BAR	Gasket	Weight
Cod. P33-114	204	154	60	296	8	0,8	0,1		4
Cod. P33-255	255	168	60	370	6	0,3	-		6
Cod. P33-315	354	177	60	490	8	0,4	0,1		9

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket



Non-pressure access cover

Ø 504 mm

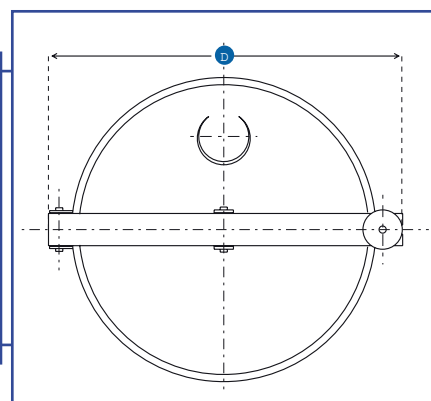
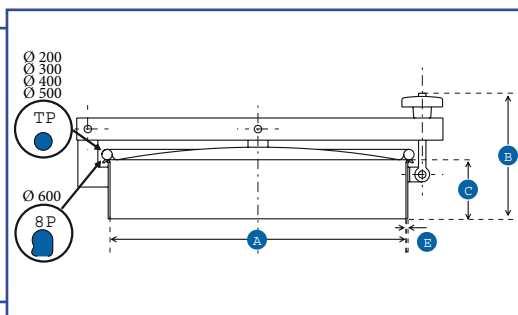
Ø 604 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P33-212

Cod. P33-213

A	B	C	D	E	PS	BAR	Gasket	Weight
504	165	60	610	8	0,1	0,2		16
604	205	60	710	8	0,1	0,5		18



Non-pressure access cover

Ø 200 mm, Ø 300 mm, Ø 400 mm

Ø 500 mm, Ø 600 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P33-200

Cod. P33-300

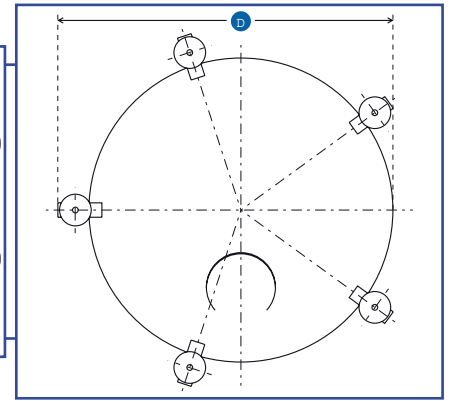
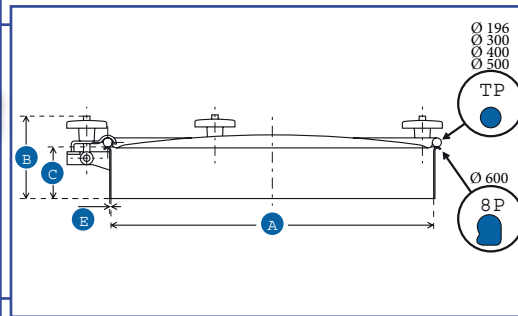
Cod. P33-400

Cod. P33-500

Cod. P33-600

A	B	C	D	E	PS	Gasket	Weight
200	196	80	300	2	0,3		4
300	170	80	400	2	0,2		5
400	170	80	495	2	0,1		8
500	184	80	595	2	0,05		10
600	226	80	705	2	0,05		12

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket



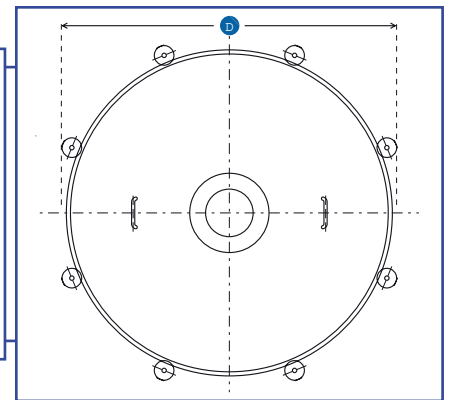
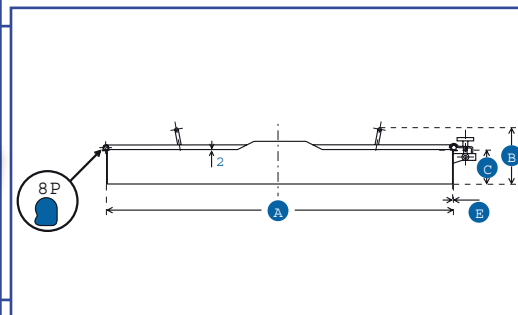
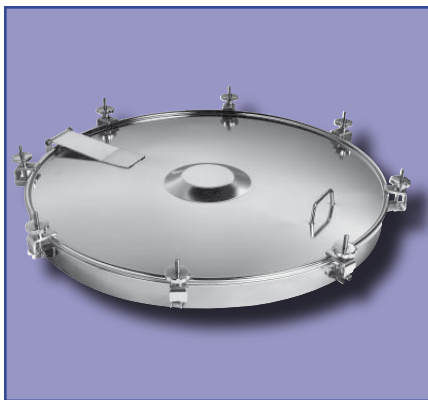
Non-pressure access cover

$\varnothing 200$ mm, $\varnothing 300$ mm, $\varnothing 400$ mm, $\varnothing 500$ mm, $\varnothing 600$ mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

- Cod. P33-196
- Cod. P33-301
- Cod. P33-401
- Cod. P33-501
- Cod. P33-601

A	B	C	D	E		PS	Gasket	Weight
200	130	80	271	2	3	0,6		4
300	130	80	383	2	3	0,3		5
400	130	80	536	2	4	0,3		8
500	130	80	582	2	5	0,3		10
600	130	80	735	2	6	0,1		12



Non-pressure access cover

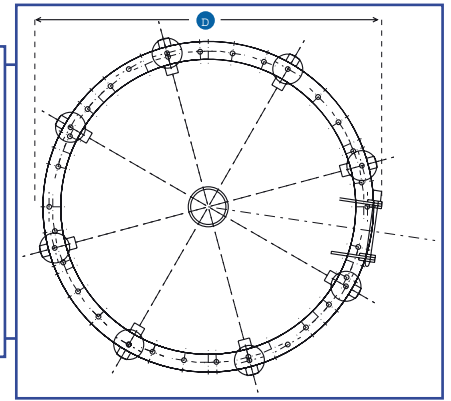
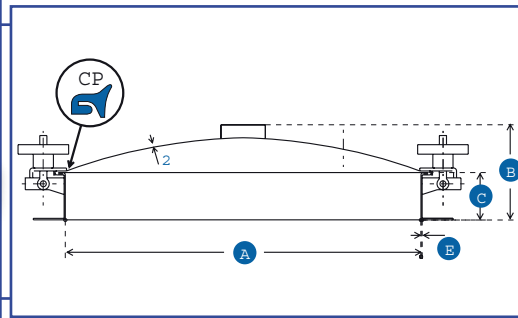
$\varnothing 1007$ mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

- Cod. P33-107

A	B	C	D	E		PS	Gasket	Weight
1007	166	100	1053	3	8	0,1		38

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

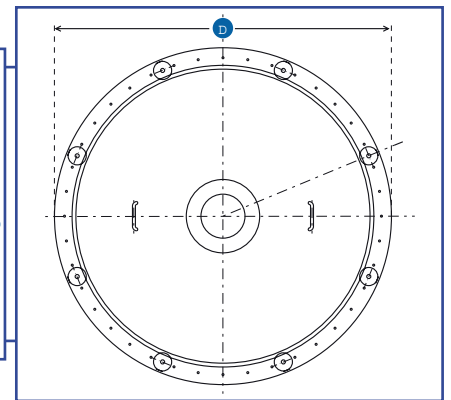
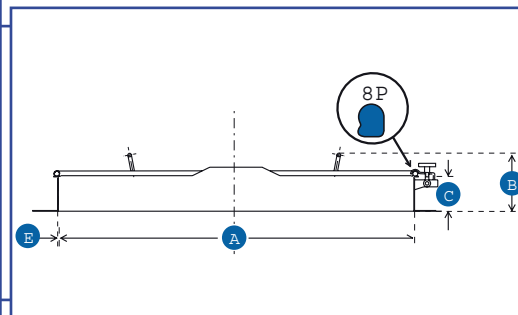


Non-pressure access cover for wooden tanks
 Ø 1000 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P34-050

A	B	C	D	E		PS	Gasket	Weight
1000	152	80	1225	2	8	0,1		48



Non-pressure access cover for wooden tanks
 Ø 500 mm, Ø 600 mm
 Ø 1007 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

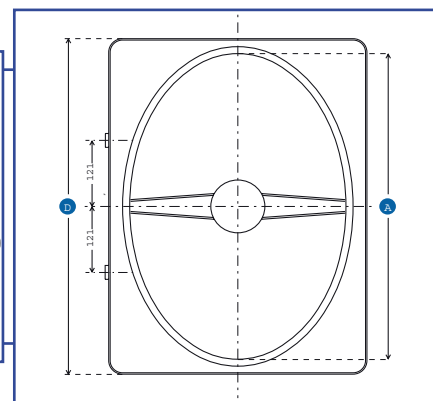
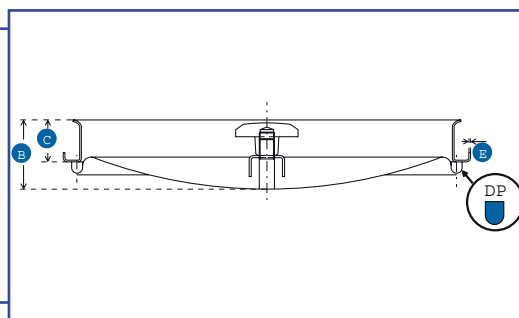
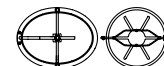
Cod. P34-023

Cod. P34-024

Cod. P34-107

A	B	C	D	E		PS	Gasket	Weight
500	130	80	608	2	5	0,1		11
600	130	80	708	2	6	0,1		14
1007	166	100	1053	2	8	0,1		48

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

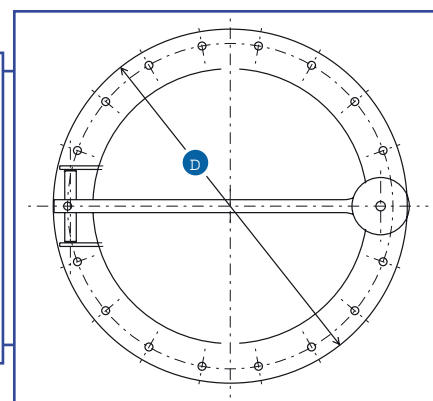
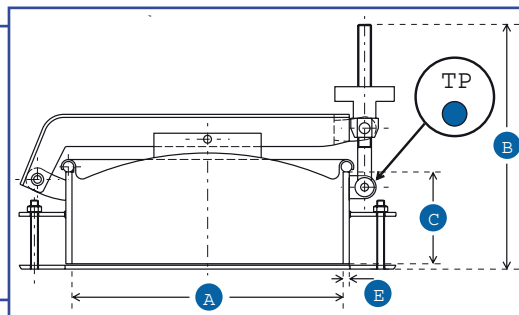


Autoclave manlid for wooden tanks
305 x 440 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P34-040

A	B	C	D	E	PS	Gasket	Weight
305 x 440	82	50	363 x 483	2	1		6



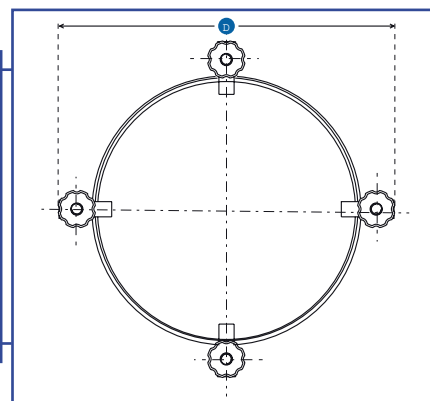
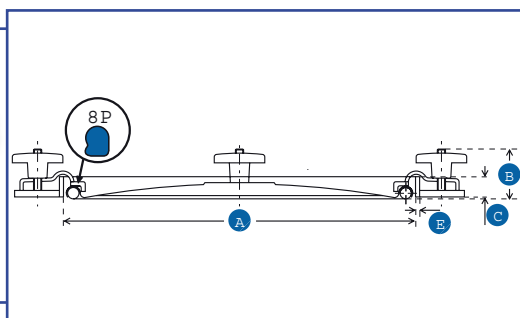
Lower part manlid for wooden tanks
Ø 354 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P34-315

A	B	C	D	E	PS	Gasket	Weight
354	319	120	492	8	0,4		27

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

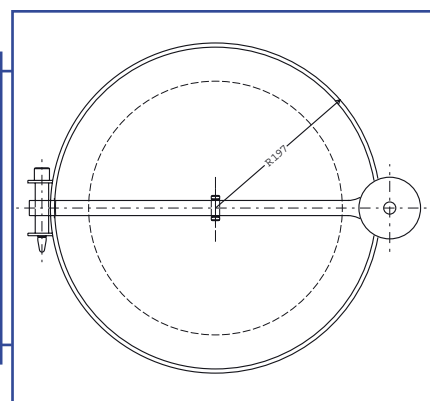
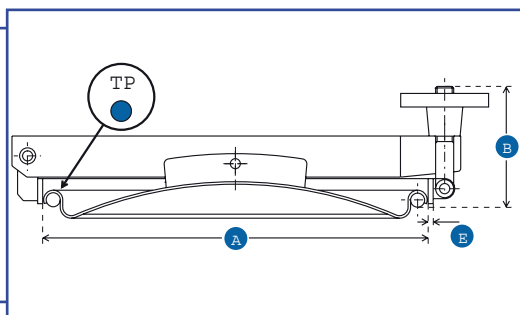
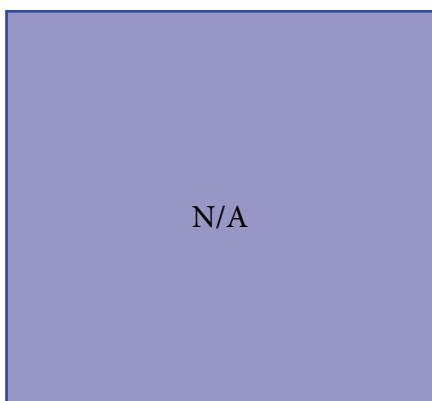


Inside free retention manlid
Ø 432 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P35-418

A	B	C	D	E		PS	Gasket	Weight
432	62	25	562	5	4	0,3		10



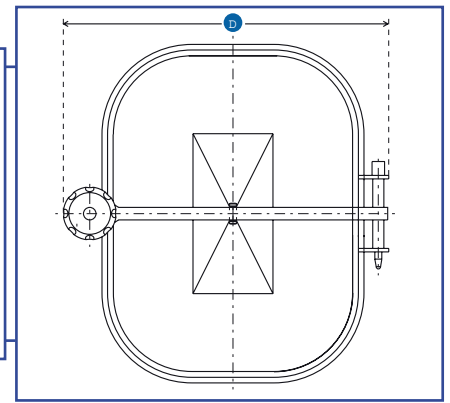
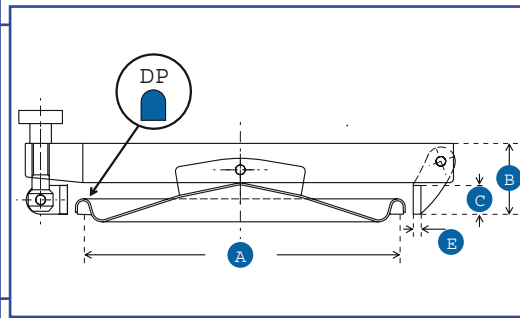
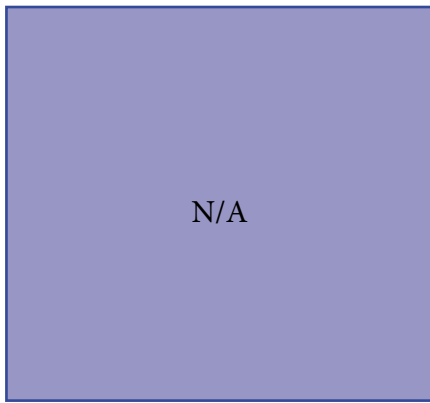
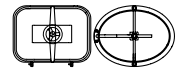
Inside free retention manlid
Ø 384 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P35-315

A	B	E	PS		Gasket	Weight
384	120	5	0,3	0,5		9

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

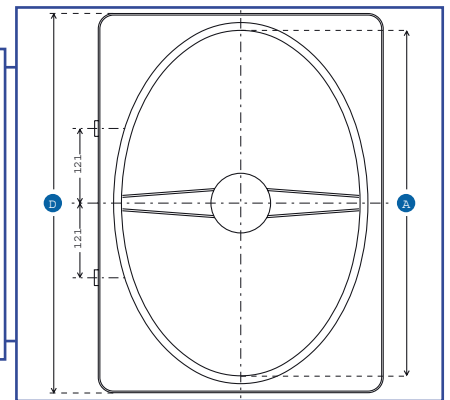
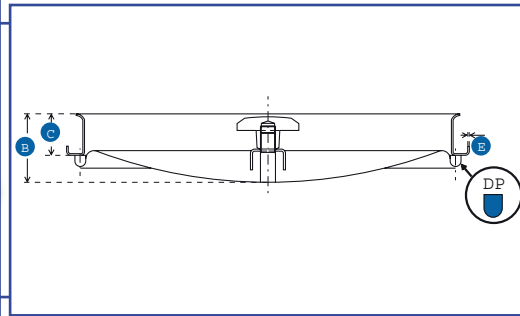


Inside free retention manlid
314 x 424 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P35-307

A	B	C	D	E	PS	BAR	Gasket	Weight
314 x 424	74	30	483	8	0,3	0,5		9



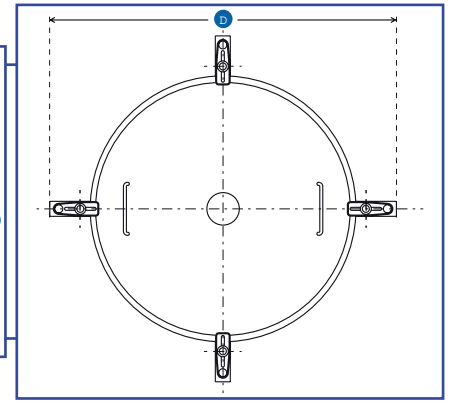
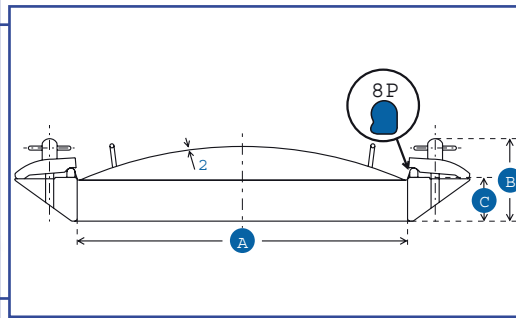
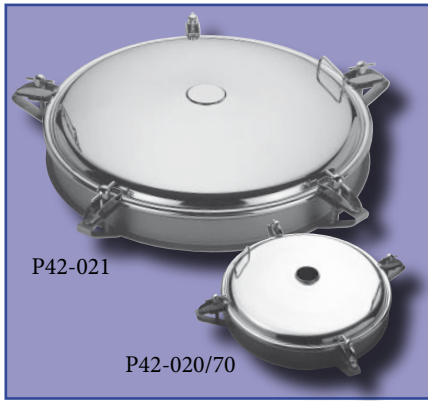
Oval manlid to be sealed
305 x 440 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P41-040

A	B	C	D	E	PS	BAR	Gasket	Weight
305 x 440	82	50	363 x 483	2	1			6

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket



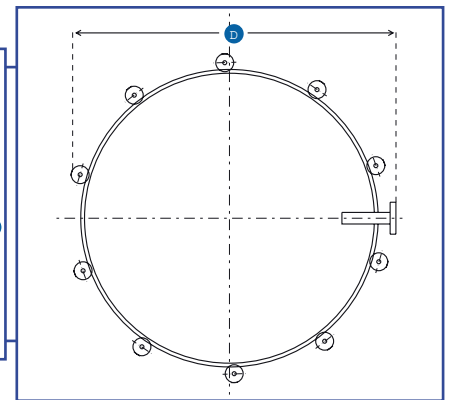
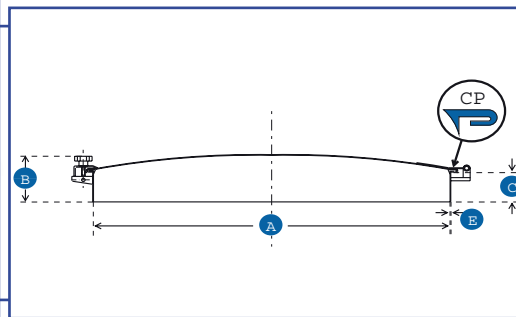
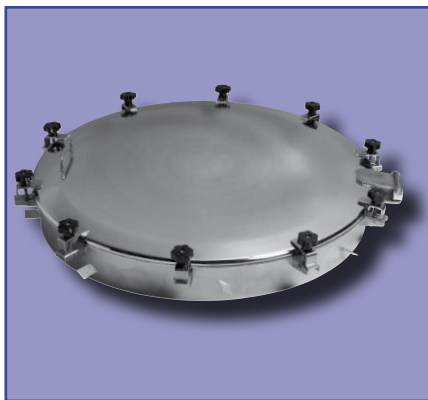
Round access cover to be sealed
 Ø 490 mm
 Ø 590 mm



• Option

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D		PS	Gasket	Weight
• Cod. P42-020	490	123	70	694	4	0,1		8
• Cod. P42-020/70	490	123	70	694	4	0,1		9
• Cod. P42-021	590	123	70	727	5	0,1		10
• Cod. P42-021/70	590	123	70	727	5	0,1		11

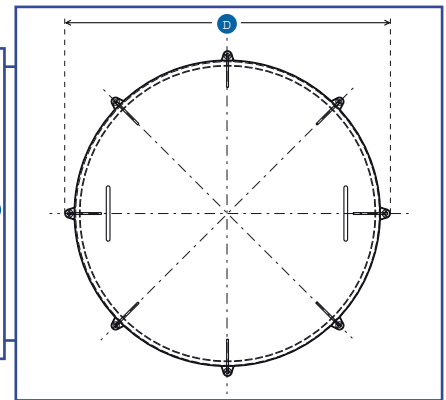
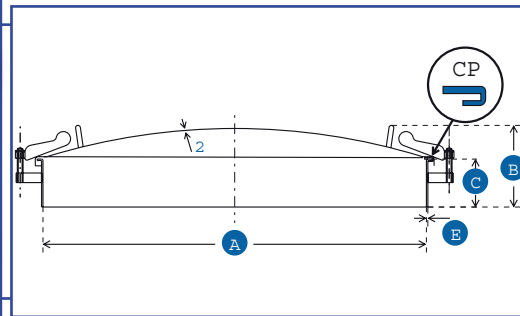
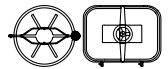


Round access cover to be sealed
 Ø 855 mm, Ø 1035 mm
 Ø 1200 mm, Ø 1400 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

	A	B	C	D	E		PS	Gasket	Weight
• Cod. P42-835	855	100	135	1015	2	10	0,1		25
• Cod. P42-1035	1035	100	135	1162	2	10	0,1		31
• Cod. P42-1235	1200	100	135	1360	2	15	0,1		35
• Cod. P42-1435	1400	100	135	1504	2	18	0,1		41

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

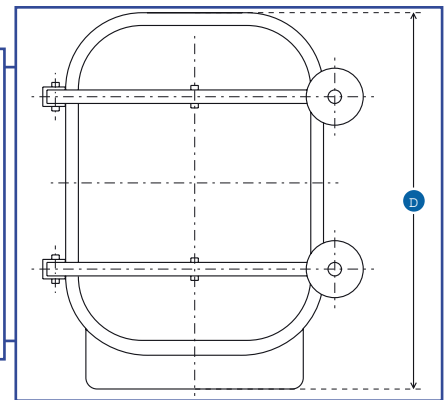
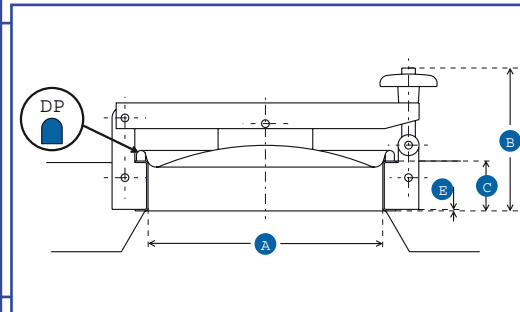
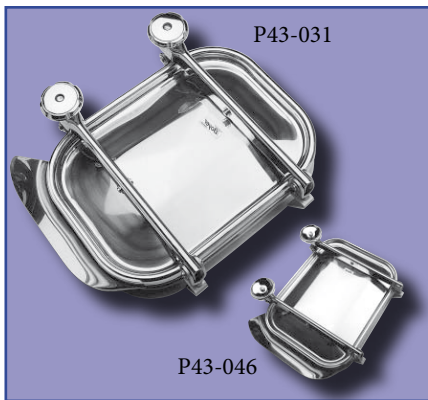


Round access cover to be sealed
Ø 800 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P42-080
Cod. P42-081

	A	B	C	D	E		PS	Gasket	Weight
Cod. P42-080	800	170	100	884	3	8	0,1		28
Cod. P42-081	800	170	100	928	3	8	0,1		28



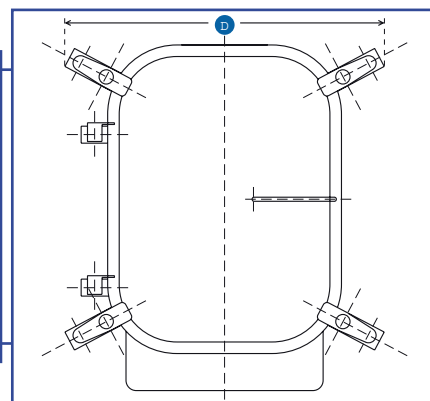
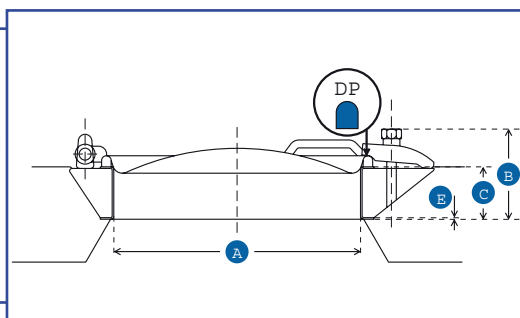
Rectangular manlid to be sealed
310 x 420 mm
405 x 530 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P43-031
Cod. P43-046

	A	B	C	D	E	PS	Gasket	Weight
Cod. P43-031	310 x 420	189	66	550	2	0,5		14
Cod. P43-046	405 x 530	189	66	640	3	0,5		16

No. of peripheral swing bolts Max. allowed working pressure at 150 °C Absolute pressure in bar (vacuum) Bonded gasket Crimped gasket

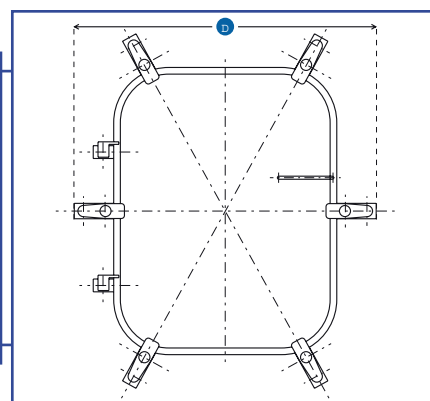
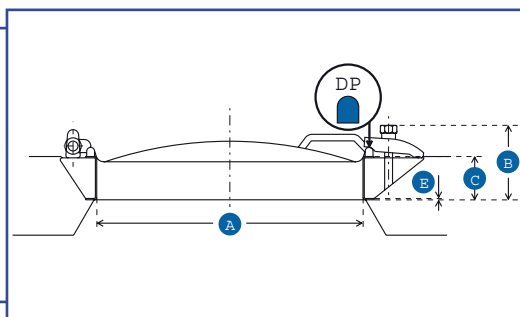


Rectangular manlid to be sealed
310 x 420 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P43-008

A	B	C	D	E	PS	Gasket	Weight
310 x 420	114	66	470 x 509	2	0,5		10

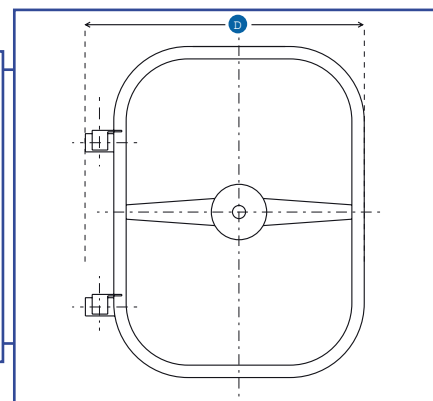
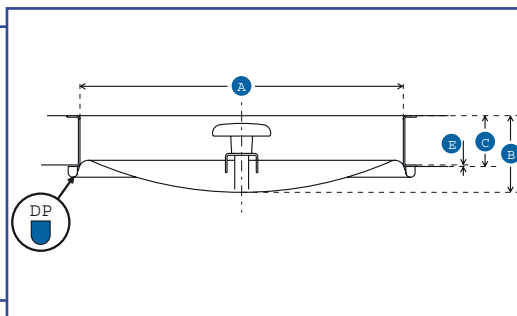


Rectangular manlid to be sealed
405 x 530 mm

Material: AISI 316L (AISI 304 on request)
Standard gasket: natural rubber
Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P43-010

A	B	C	D	E	PS	Gasket	Weight
405 x 530	114	66	590 x 692	3	0,5		12

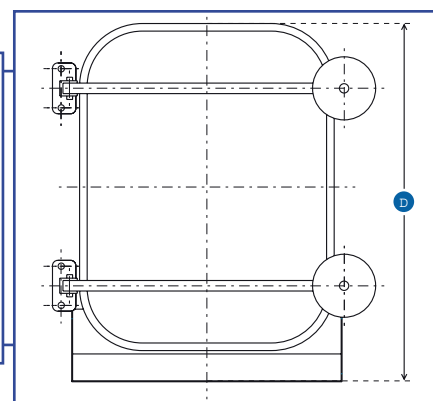
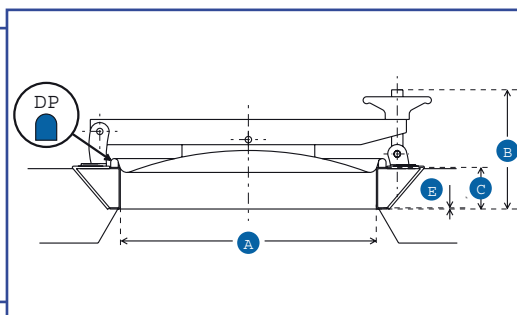


Rectangular manlid to be sealed
 405 x 530 mm
 420 x 310 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P43-012
 Cod. P43-015

	A	B	C	D	E	PS	Gasket	Weight
Cod. P43-012	405 x 530	107	66	463	3	0,5		12
Cod. P43-015	420 x 310	100	66	383	2	1		9



Rectangular manlid to be sealed
 405 x 530 mm

Material: AISI 316L (AISI 304 on request)
 Standard gasket: natural rubber
 Other gaskets: EPDM, silicone, VITON neoprene, NBR

Cod. P43-047

	A	B	C	D	E	PS	Gasket	Weight
Cod. P43-047	405 x 530	189	66	612	3	0,5		19



Gaskets:

• The chemical resistance of the rubbers is highly influenced either by either by the temperature of the liquid in contact, or by the duration of the contact, or, in the case of chemical solutions, by the concentration of the active product. The resistance values are given as a guide only and may be modified by the following determinant factors: constitution of the rubber mix, variable temperatures, variable loads, atmospheric agents, exposure time, etc...

Food quality gaskets:

Type of gasket	Color	Maximum temperature (°C)
Butyl	Orange	-20 / +110
EPDM	Grey	-40 / +130
EPDM E1	Pink	-20 / +80
FEP - silicone	Red / Transparent core	-50 / +200
FEP - F.P.M. (VITON)	Black / Transparent core	-10 / +200
F.P.M. (VITON)	Black	-10 / +200
Naturel	Off-White	-40 / +70
Neoprene	Green	-20 / +90
Nitrile (NRB)	Bronze	-20 / +110
Silicone	White yellow / Translucid	-50 / +200
Silicone (high temperatures)	Brown	-50 / +250
Silicone (water steam)	Yellow	-50 / +200
Slikon-USP (pharma)	Red	-50 / +200





Non food grade:

Type of gaskets	Color	Maximum temperature (°C)
AFLAS	Black + white stripe	-10 / +250 (max. 300)
F.S.I.	Blue	-50 / +200

Stainless steel:

AFNOR-NFA	Norm NF-EN 10088-3 / 10028-7	AISI
Z3CN 18-10 / Z3CN 18-09	1.4307 / 1.4301	304L / 304
Z3CND 17.11.02	1.4404	316L

Keys:

	Number of peripheral swing-bolts
PE	Tested to bar at 20 °C
	Maximum allowed working pressure at 150 °C
PS	Hydrostatic working pressure (bar)
PU	Inside acces (mm)
)BAR(	Absolute pressure (bar) vacuum
	Bonded gasket
	Crimped gasket

Certificates:

• certificate for base material 3.1, certificate for gaskets FDA

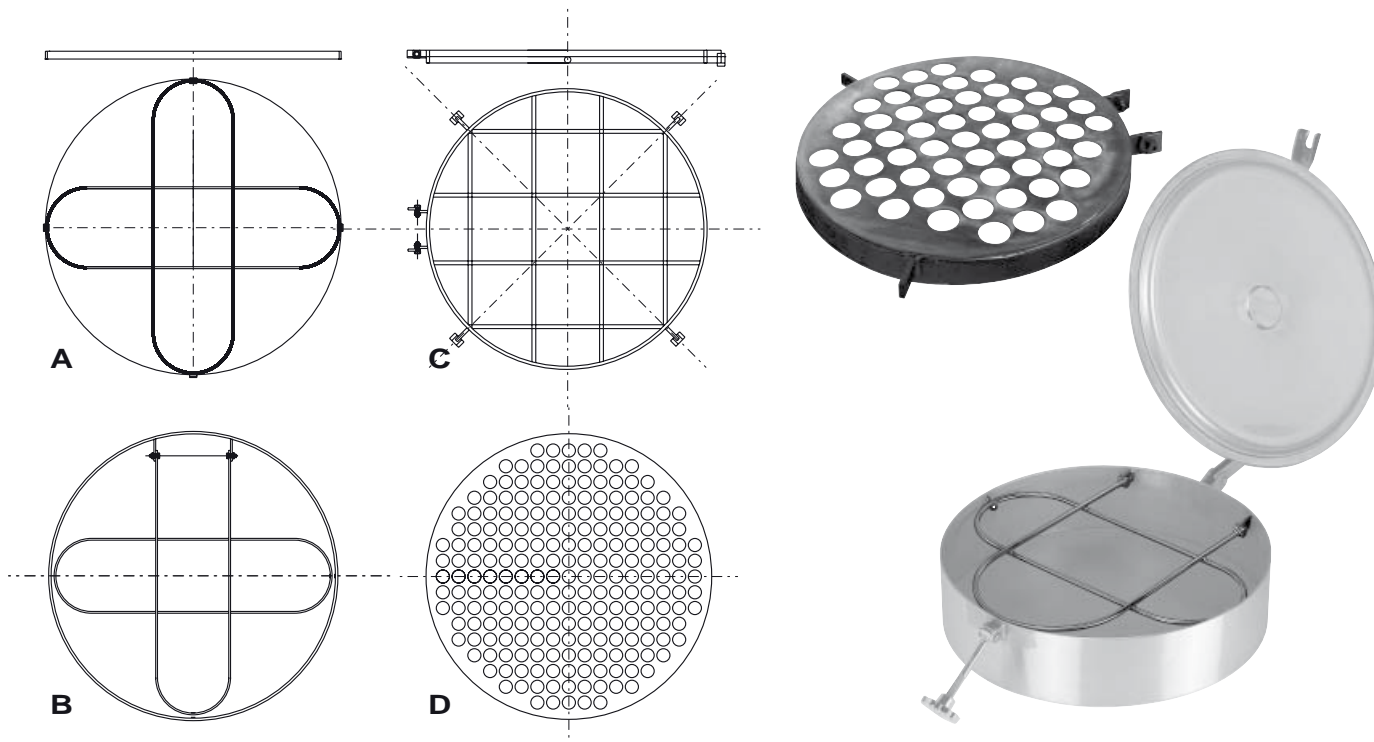


Maintenance:





- All the parts subject to wear, in particular the threads of the swing-bolt, hand-wheels and handnut must be regularly cleaned and greased, changed if necessary. The gaskets must also be checked after each opening of the manlid and changed if necessary, bonded or crimped.

Screens and safety systems available for:

Roun door	Oval door	Rectangular door
All sizes	407 x 452 mm	315 x 424 mm
	307 x 442 mm	410 x 534 mm
		600 x 800 mm
		800 x 1000 mm













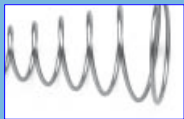





Spare parts:

	Handwheel	untreated brass or chrome, or stainless steel
	Handwheel	technopolyner
	Swing bolt	stainless steel or carbon steel
	Mechanically welded eye-bolt	
	Brachet	stainless steel or carbon steel



Spare parts:

	Hinge pin	stainless steel
	Circlip	stainless steel
	Spacer	stainless steel or carbon steel
	Yoke	stainless steel or carbon steel
	Arm	stainless steel 304L or carbon steel
	Wing nut	untreated brass or chrome
	Hexagon nut	untreated brass or chrome
	Clamping arm	stainless steel 304L or carbon steel
	Single hand nut	untreated brass or chrome, or stainless steel
	Doble hand nut	stainless steel
	Double hand nut recessed hole type	stainless steel
	Drip	stainless steel AISI 316L
	Tapered spring	stainless steel
	Stifening tip	stainless steel or carbon steel
	Spindle	stainless steel
	Ball joint	untreated brass or chrome

• for each part ordered, indicate the number of the relevant manlid



Spare parts:

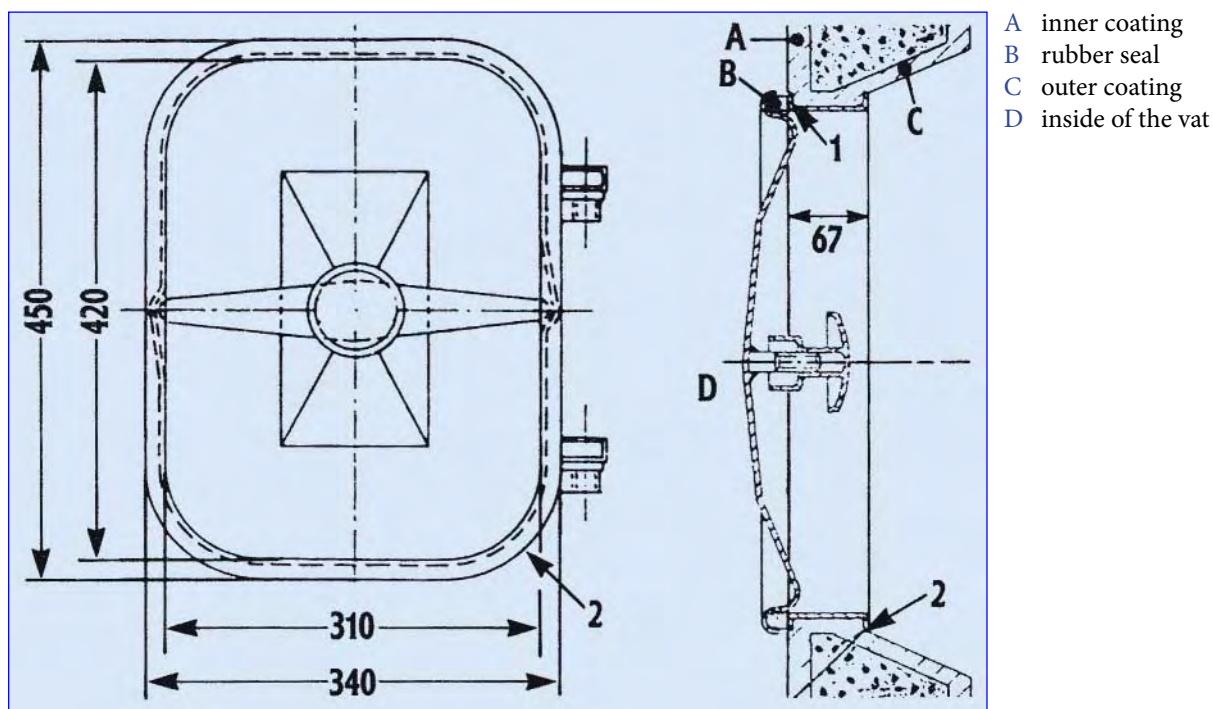
	Cambered pin holder lug	stainless steel or carbon steel
	Bracket holder lug	stainless steel or carbon steel
	Hinge pin	Ertalon
	Hinge arm	stainless steel or carbon steel
	Gas spring assist	
	Gas spring assist cover	
	Isolated handle	

- for each part ordered, indicate the number of the relevant manlid



Sealing instructions:

- The manlids, irrespective of their shape, must always be sealed following the construction of the tanks and prior to the application of the sealant compound.
- Fit plugs into the shutterings covering the surface area of the frame to be sealed, but with a clearance to drive out the plugs upon removal of the shuttering, towards the inside of the tank.
- The frames must be positioned exclusively on cement sealant and gently pushed in until the sealant is squeezed out all round. This work must be done from the outside. The sealant should extend beyond the inside rim of the oval or rectangular collar by at least 5 cm, prior to flaring, as each worker judges best.
- Immediately afterwards, sponge away any trace of sealant on the application of the frame against the cover seal.
- This cover is to be positioned in the frame and loosely tightened only 48 hours after the sealing of the frame. Any hard tightening prior to setting of the sealant would twist the frame out of shape.
- The manlids must be sealed once the reinforced concrete has been completed, once the shuttering has been removed, and at the time of the interior coatings.



- **WARNING** : to obtain perfect application of the seal, the coating must never overlap on to the inner Face of the Frame.
- Hole to be made in the front concrete wall according to the template as from the outer edge of the frame.
- We are regretfully obliged to withdraw any sealing guarantee for any manlid which frame has not been bedded according to our instructions.