

HATCHES

NABRICO puts over 100 years of experience into our hatches. NABRICO's familiarity with water transportation and NABRICO's engineering ingenuity has produced a vast array of hatch options. Whether your needs require a dogged, T-handle, single bolt, twist-lock, multi-bolt or multi-screw, NABRICO has you covered. NABRICO hatches are produced in a variety of sizes and coaming options. Contact NABRICO to tailor a hatch to your specific needs.



MULTI-BOLT

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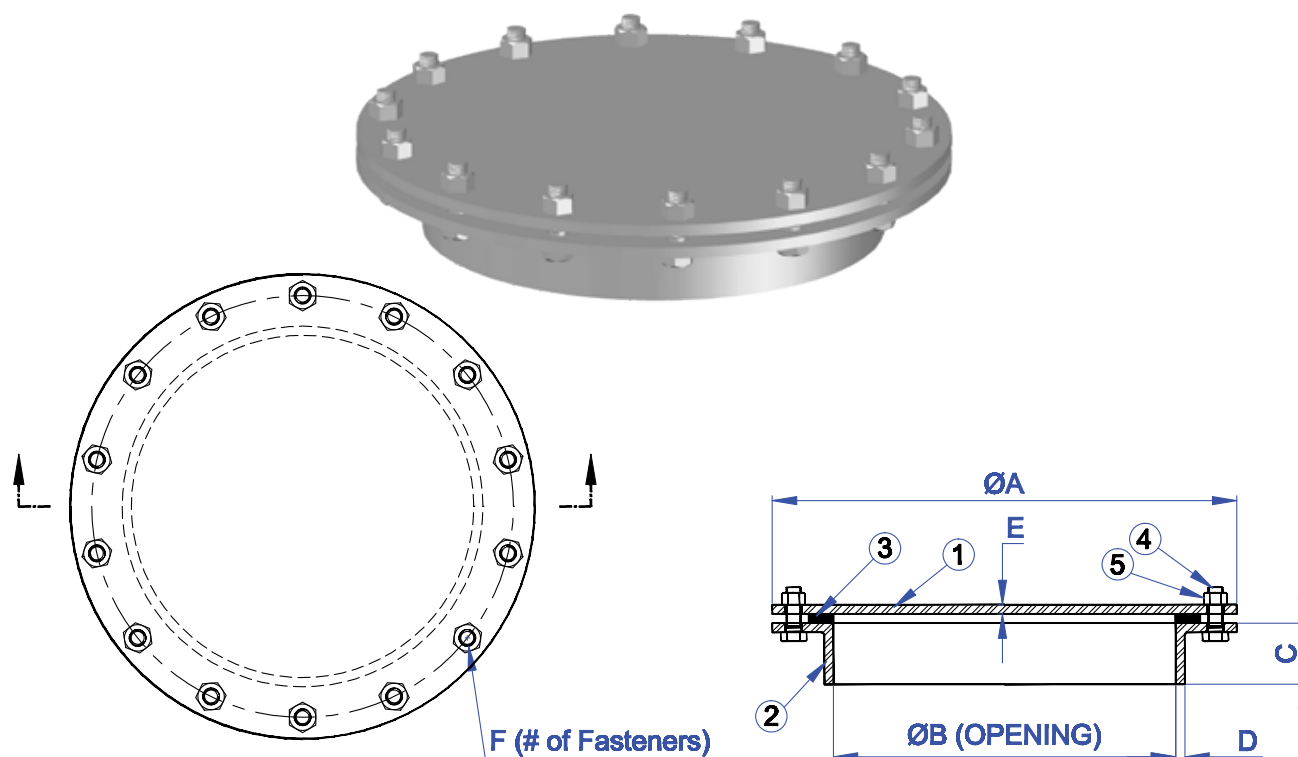
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RAISED MULTI-BOLT CLEAN OUT HATCH



PIECE No.	DESCRIPTION	PART NUMBER		MATERIAL
		DF-154-14	DF-154-18	
1	COVER PLATE	76767	77216	STEEL
2	COAMING	76783	77232	STEEL
3	GASKET	76775	77224	NEOPRENE
4	HEX HEAD BOLT	14613		STEEL
5	HEX NUT	16179		BRASS

MODEL No.	PART No.	SIZE	ØA	ØB	C	D	E	F	WT. (lbs.)
DF-154-14	15407	14"	19"	14"	2-1/2"	3/8"	3/8"	12	60
DF-154-18	77240	18"	23"	18"	2-1/2"	3/8"	3/8"	16	78

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.
2. OTHER BOLT, WASHER AND NUT COMBINATIONS AVAILABLE.
3. OTHER GASKET MATERIALS AVAILABLE.

"It has been said that Democracy is the worst form of government except all those other forms that have been tried from time to time."

—Churchill

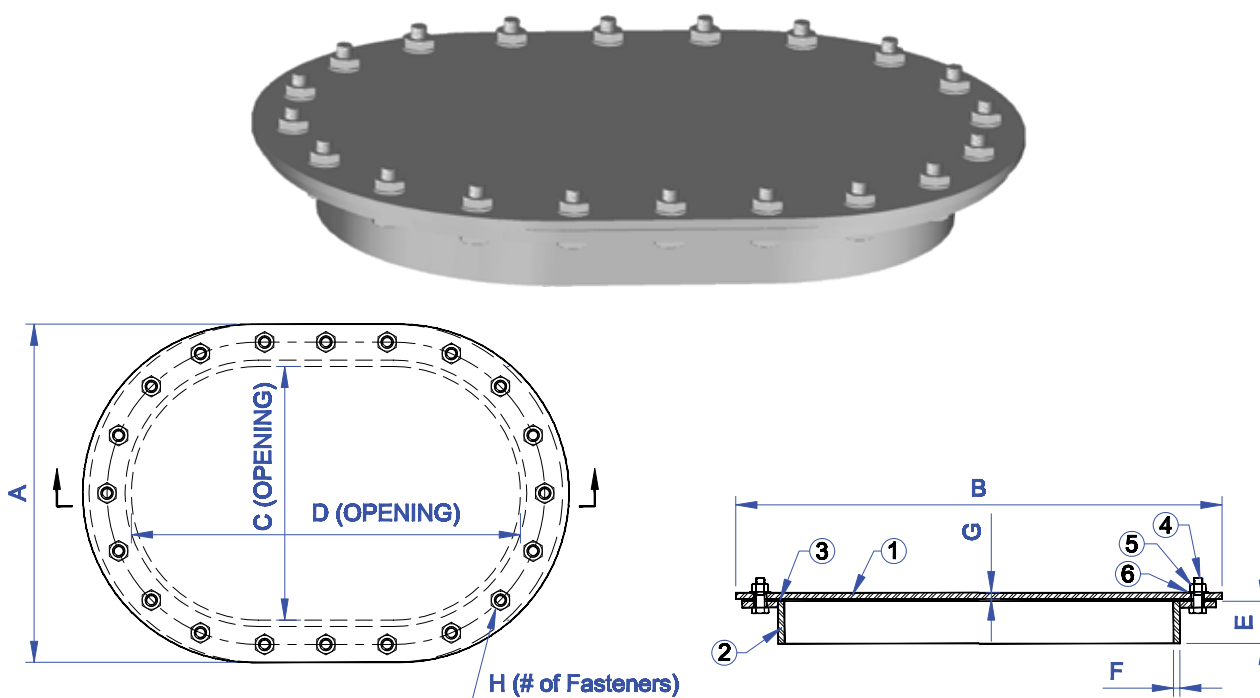


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RAISED MULTI-BOLT OVAL HATCH



PIECE No.	DESCRIPTION	PART NUMBER		MATERIAL
		DF-501	DF-502	
1	COVER PLATE	21342	21350	STEEL
2	COAMING	21369	21377	STEEL
3	GASKET	21385	21393	NEOPRENE
4	HEX HEAD BOLT	14610		STEEL
5	HEX NUT	21245		STAINLESS
6	WASHER	21237		BRASS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-501	21091	15x23	20"	28-3/4"	15"	23"	2-1/2"	3/8"	3/8"	20	85
DF-502	21105	18x24	23"	29-3/4"	18"	24"	2-1/2"	3/8"	3/8"	24	106

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.
2. OTHER BOLT, WASHER AND NUT COMBINATIONS AVAILABLE.
3. OTHER GASKET MATERIALS AVAILABLE.

"I would say to the house, as I have said to those who have joined this government: I have nothing to offer but blood, toil, tears and sweat."

—Churchill

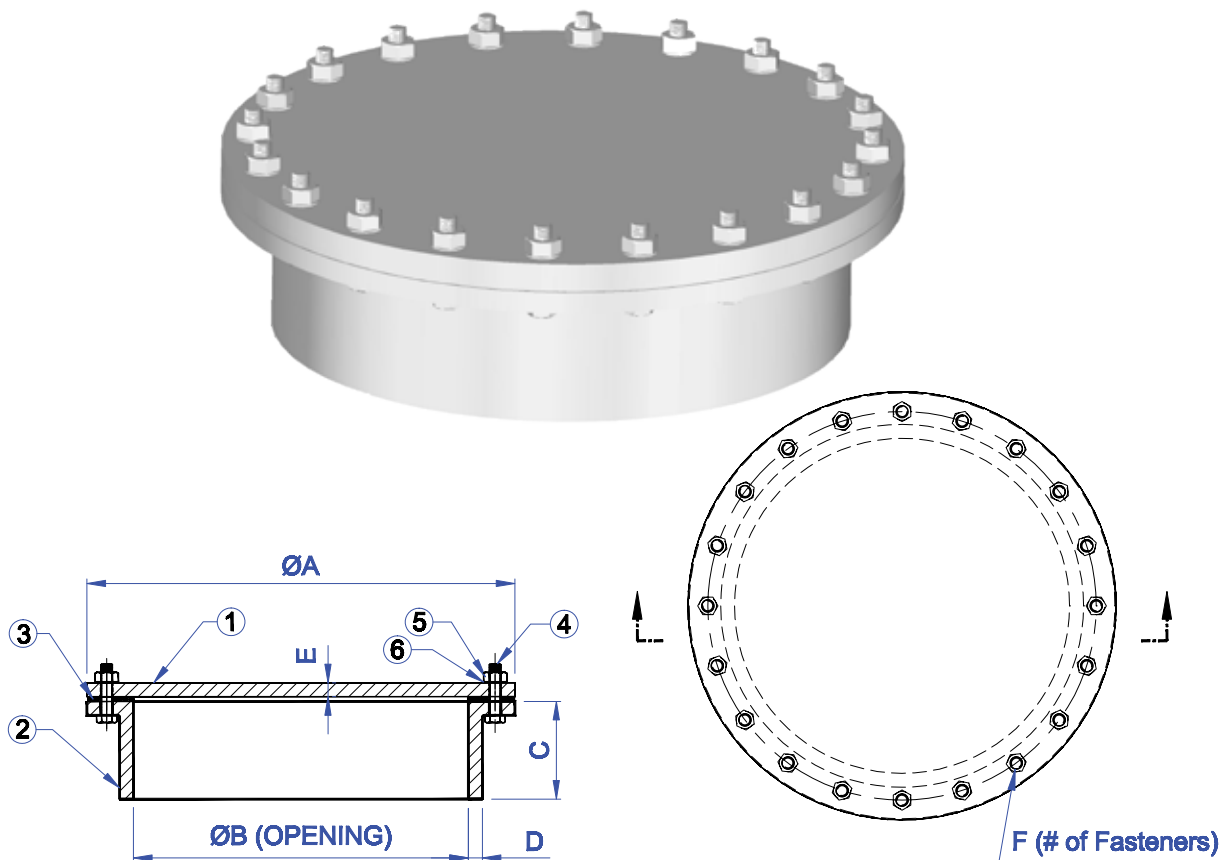
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RAISED (6 PSI) MULTI-BOLT HATCH



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER PLATE	77228	STAINLESS
2	COAMING ASSEMBLY	77232	STAINLESS
3	GASKET	77231	GARLOCK
4	HEX HEAD BOLT	451	STAINLESS
5	HEX NUT	452	STAINLESS
6	WASHER	453	STAINLESS

MODEL No.	PART No.	SIZE	ØA	ØB	C	D	E	F	WT. (lbs.)
DF-157-18	77227	18"	23"	18"	5"	3/8"	3/4"	20	186

1. OTHER BOLT, NUT AND WASHER COMBINATIONS AVAILABLE.
2. OTHER GASKET MATERIALS AVAILABLE.

"Russia is a riddle wrapped in a mystery inside an enigma."

—Churchill



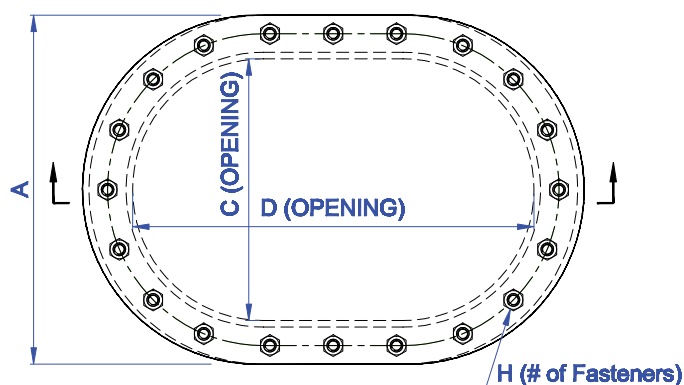
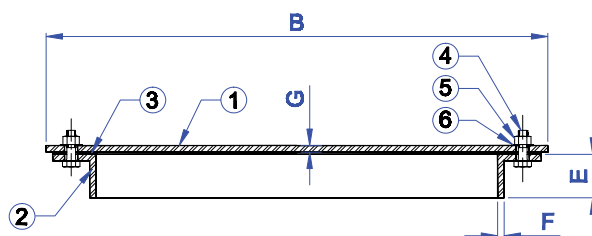
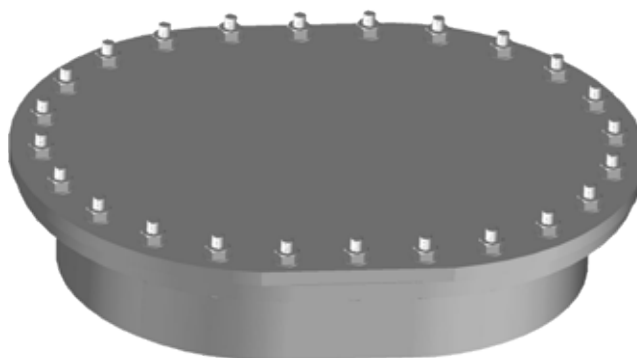
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RAISED (6 PSI) MULTI-BOLT OVAL HATCH

BR



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER PLATE	21153	STAINLESS
2	COAMING	21171	STAINLESS
3	GASKET	21156	GARLOCK
4	HEX HEAD BOLT	451	STAINLESS
5	HEX NUT	452	STAINLESS
6	WASHER	453	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-506	21152	18x24	23"	29-7/16"	18"	24-3/8"	5-1/4"	3/8"	3/4"	24	252

1. OTHER BOLT, NUT AND WASHER COMBINATIONS AVAILABLE.
2. OTHER GASKET MATERIALS AVAILABLE.

"The inherent vice of capitalism is the unequal sharing of blessings; the inherent virtue of socialism is the equal sharing of miseries."

—Churchill

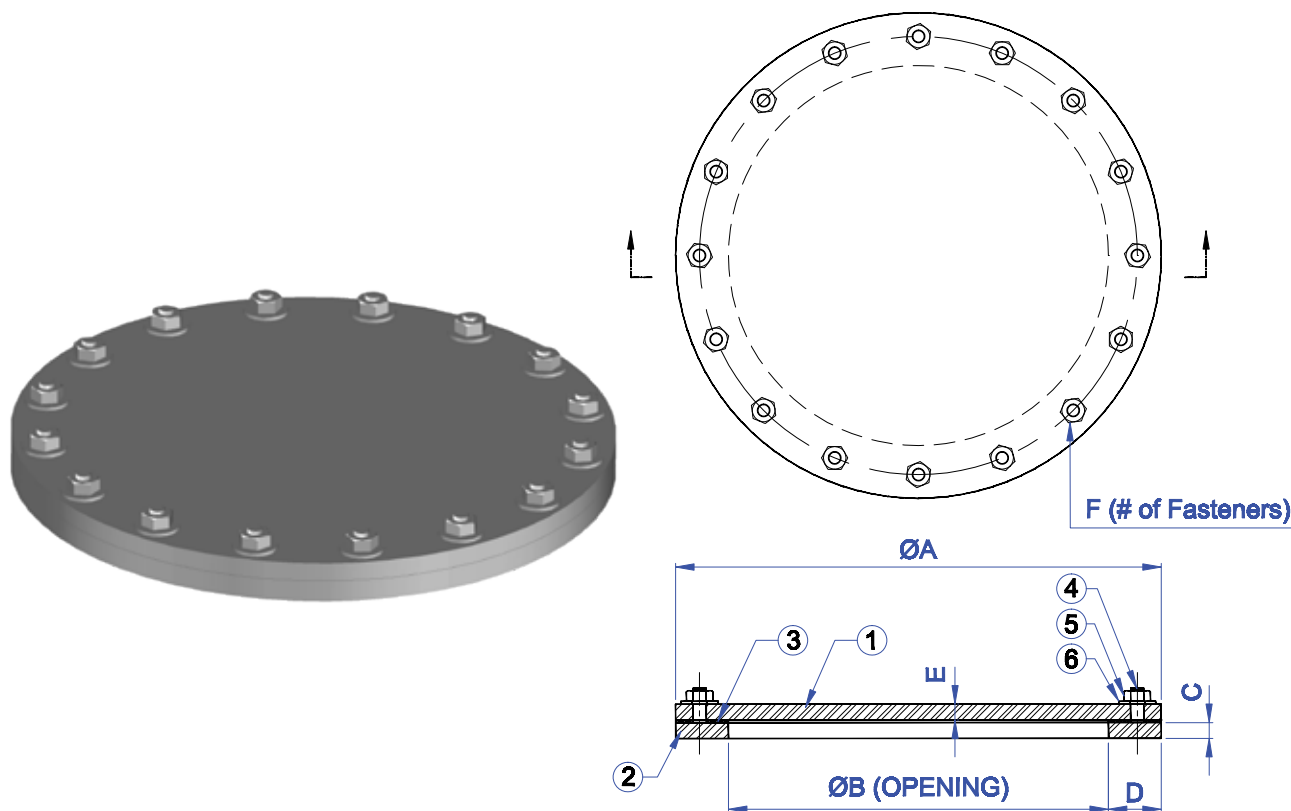
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RAISED MULTI-STUD ROUND HATCH



PIECE No.	DESCRIPTION	MATERIAL
1	COVER PLATE	STEEL
2	COAMING RING	STEEL
3	GASKET	NEOPRENE
4	THREADED STUD	STAINLESS
5	HEX NUT	BRASS
6	WASHER	STAINLESS

MODEL No.	PART No.	SIZE	ØA	ØB	C	D	E	F	WT. (lbs.)
DF-549-18	30608	18"	23-1/2"	18-1/2"	2"	2-1/2"	3/4"	16	100
DF-549-20	30610	20"	25-1/2"	20-1/2"	2"	2-1/2"	3/4"	18	115

1. OTHER GASKET MATERIALS AVAILABLE.

"It's income tax time again, Americans: time to gather up those receipts, get out those tax forms, sharpen up that pencil, and stab yourself in the aorta."

—Dave Barry

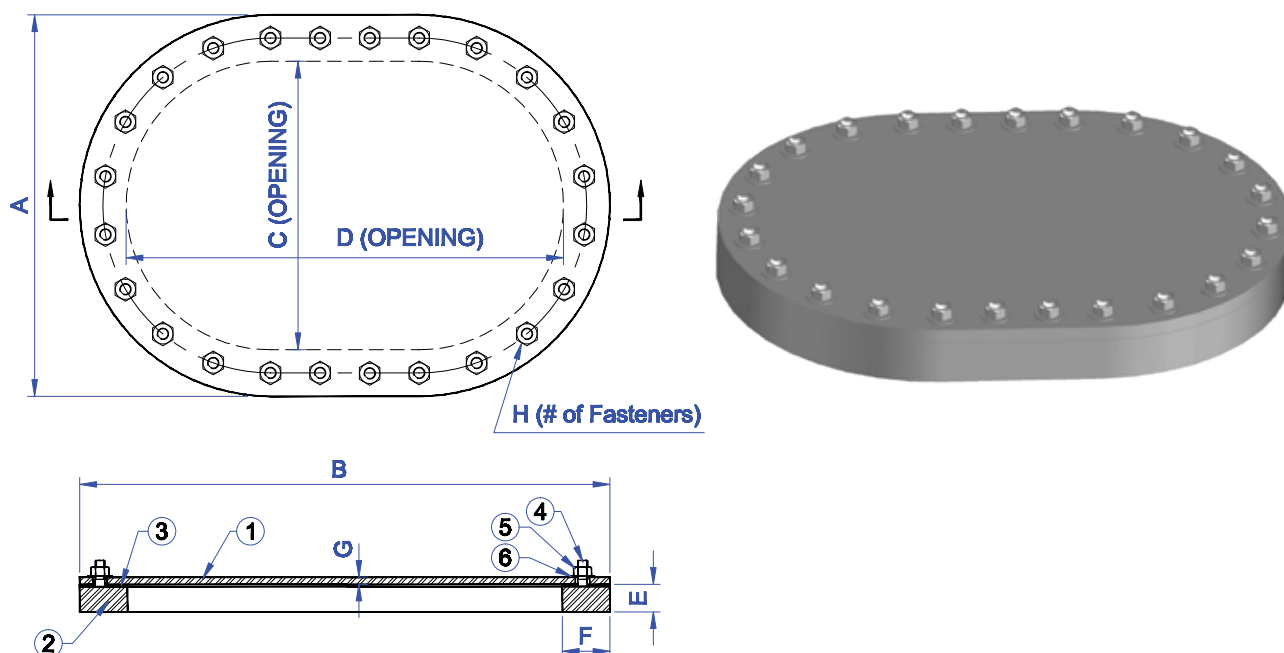


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RAISED MULTI-STUD OVAL HATCH



PIECE No.	DESCRIPTION	PART No.		MATERIAL
		DF-548-1523	DF-548-2230	
1	COVER PLATE	93203	93300	STEEL
2	COAMING RING	93211	93319	STEEL
3	GASKET	93238	93327	NEOPRENE
4	THREADED STUD	93246		STAINLESS
5	HEX NUT	16179		BRASS
6	WASHER	453		STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-548-1523	93149	15x23	20-1/2"	28-1/2"	15-1/2"	23-1/2"	2"	2-1/2"	3/4"	24	111
DF-548-2230	93297	22x30	27-1/2"	35-1/2"	22-1/2"	30-1/2"	2"	2-1/2"	3/4"	32	153

1. OTHER GASKET MATERIALS AVAILABLE.

"The Budget should be balanced, the Treasury should be refilled, public debt should be reduced, the arrogance of officialdom should be tempered and controlled, and the assistance to foreign lands should be curtailed, lest Rome will become bankrupt. People must again learn to work instead of living on public assistance."

—Cicero, 55 B.C.

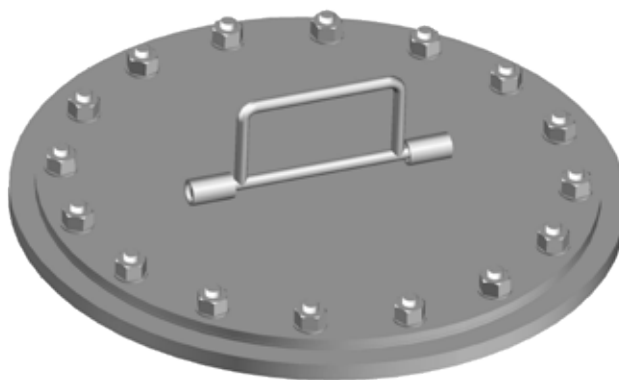
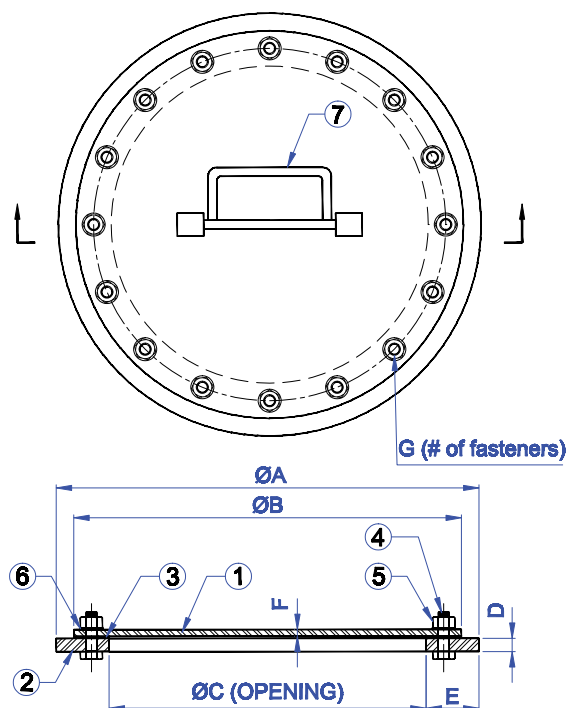
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FLUSH MULTI-BOLT CLEAN OUT HATCH



PIECE No.	DESCRIPTION	MATERIAL
1	COVER PLATE	STEEL
2	DECK RING	STEEL
3	GASKET	NEOPRENE
4	HEX HEAD BOLT	STAINLESS
5	HEX NUT	316 STAINLESS
6	WASHER	STAINLESS
7	GRAB HANDLE	STEEL

MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-155-14	22415	14"	20"	17-1/2"	14"	3/4"	3"	3/8"	14	75
DF-155-18	22413	18"	24"	21-1/2"	18"	3/4"	3"	3/8"	16	90
DF-155-20	22414	20"	26"	23-1/2"	20"	3/4"	3"	3/8"	18	100

1. OTHER GASKET MATERIALS AVAILABLE.

"That man has offered me unsolicited advice for six years, all of it bad."

—Calvin Coolidge

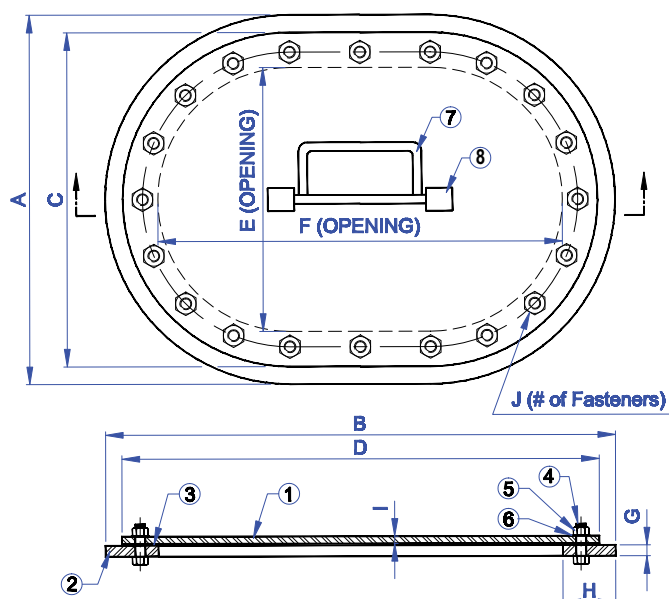


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FLUSH MULTI-BOLT OVAL HATCH



PIECE No.	DESCRIPTION	PART NUMBER		MATERIAL
		DF-503	DF-504	
1	COVER PLATE	21229	21318	STEEL
2	DECK RING	21253	21326	STEEL
3	GASKET	21296	21334	NEOPRENE
4	HEX HEAD BOLT	14613		STEEL
5	HEX NUT	21245		STAINLESS
6	WASHER	21237		BRASS
7	HANDLE	21261		STEEL
8	HANDLE RETAINER (2 REQ'D)	21288		STEEL

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	J	WT. (lbs.)
DF-503	21113	15x23	21"	29"	18-1/2"	26-1/2"	15"	23"	3/4"	3"	3/8"	20	95
DF-504	21121	18x24	24"	30"	21-1/2"	27-1/2"	18"	24"	3/4"	3"	3/8"	24	112

1. OTHER BOLT, NUT AND WASHER COMBINATIONS AVAILABLE.
2. OTHER GASKET MATERIALS AVAILABLE.

"Collecting more taxes than is absolutely necessary is legalized robbery."

—Calvin Coolidge

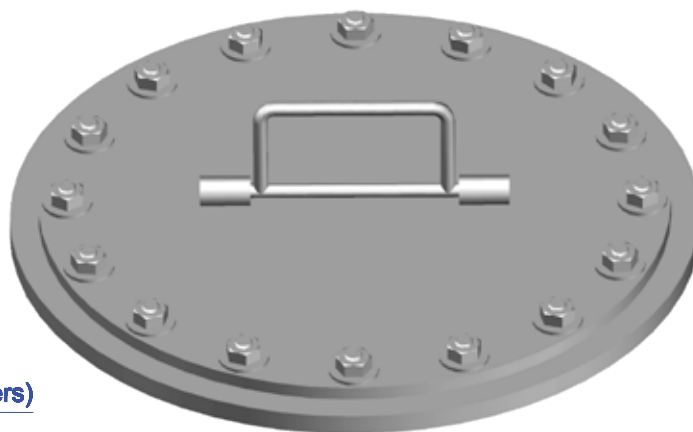
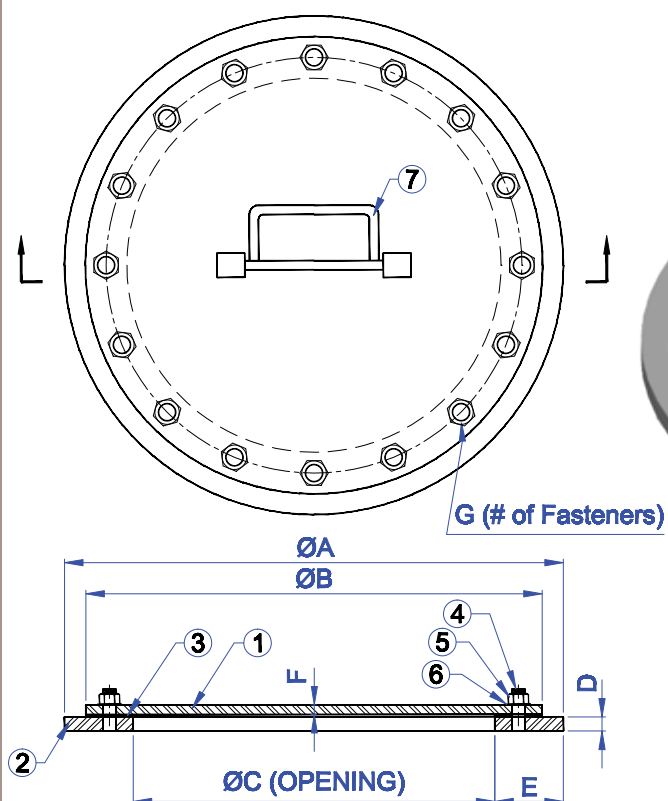
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FLUSH MULTI-STUD ROUND HATCH



PIECE No.	DESCRIPTION	MATERIAL
1	COVER PLATE	STEEL
2	DECK RING	STEEL
3	GASKET	NEOPRENE
4	THREADED STUD	STAINLESS
5	HEX NUT	STAINLESS
6	WASHER	BRASS
7	HANDLE	STEEL

MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-509-14	30614	14"	20"	17-1/2"	14"	3/4"	3"	3/8"	14	75
DF-509-18	30616	18"	24"	21-1/2"	18"	3/4"	3"	3/8"	16	90
DF-509-20	30618	20"	26"	23-1/2"	20"	3/4"	3"	3/8"	18	100

1. OTHER GASKET MATERIALS AVAILABLE.

"Let's stop sending money to other countries and let them hate us for free."

—Anonymous

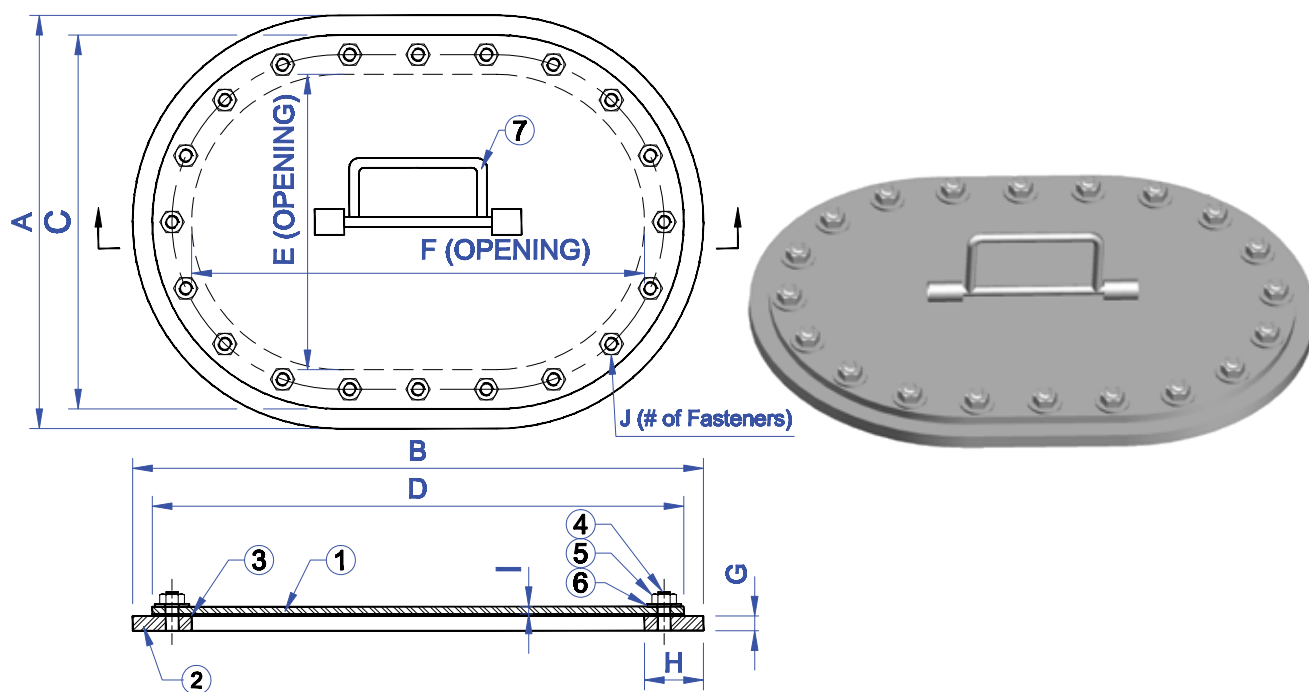


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FLUSH MULTI-STUD OVAL HATCH



PIECE No.	DESCRIPTION	MATERIAL
1	COVER PLATE	STEEL
2	DECK RING	STEEL
3	GASKET	NEOPRENE
4	THREADED STUD	STAINLESS
5	HEX NUT	STAINLESS
6	WASHER	BRASS
7	HANDLE	STEEL

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	J	WT. (lbs.)
DF-510	30151	15x23	21"	29"	18-1/2"	26-1/2"	15"	23"	3/4"	3"	3/8"	20	95
DF-510	30152	18x24	24"	30"	21-1/2"	27-1/2"	18"	24"	3/4"	3"	3/8"	24	112

1. OTHER NUT AND WASHER COMBINATIONS AVAILABLE.
2. OTHER GASKET MATERIALS AVAILABLE.

"In my defense I was left unsupervised."

—Anonymous

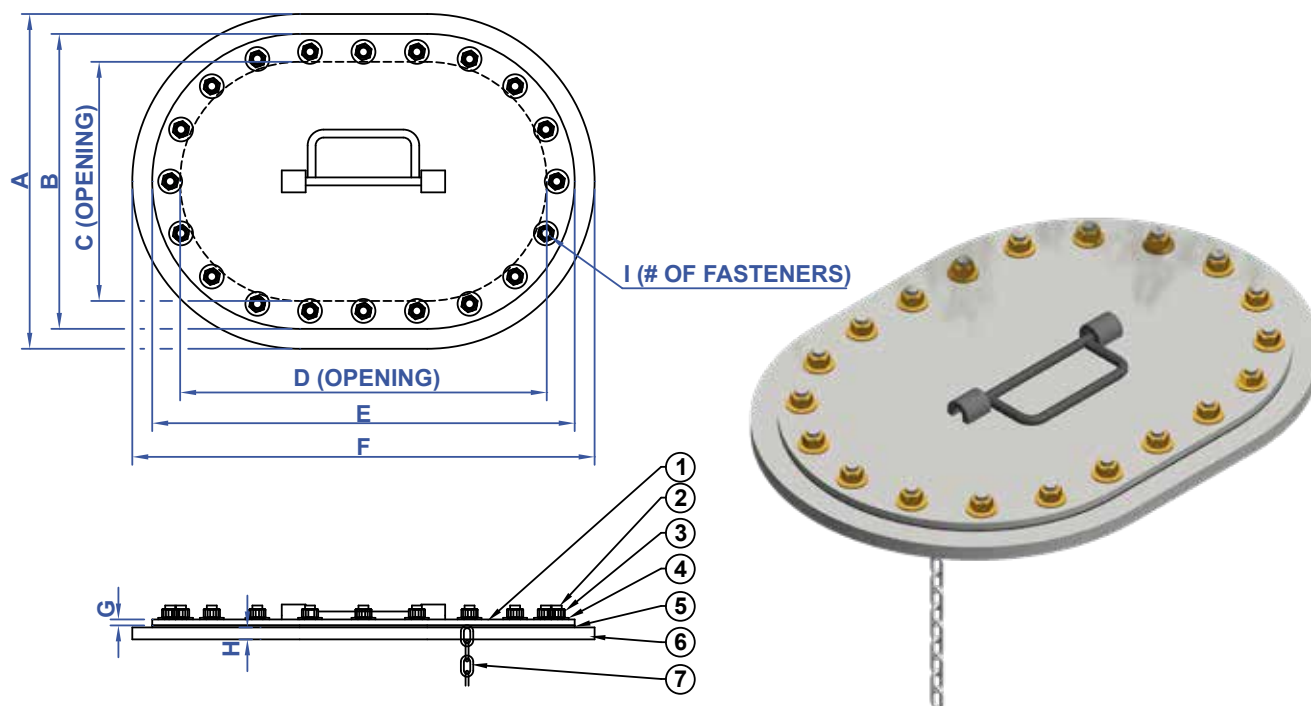
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FLUSH MULTI-STUD OVAL HATCH



PIECE No.	DESCRIPTION	QTY	MATERIAL	P/N
1	HATCH COVER	1	STEEL	21229
2	THREADED STUD	20	STAINLESS	93246
3	HEX NUT	20	BRASS	16179
4	FLAT WASHER	20	BRASS	21237
5	GASKET	1	NEOPRENE	21296
6	DECK RING	1	STEEL	21254
7	KEEPER CHAIN	1	GALVANIZED	92798

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	WT. (lbs.)
DF-510	21126	15x23	21"	18-1/2"	15"	23"	26-1/2"	29"	3/8"	3/4"	20	97

1. OTHER NUT AND WASHER COMBINATIONS AVAILABLE.
2. OTHER GASKET MATERIALS AVAILABLE.

"Liberty must at all hazards be supported. We have a right to it, derived from our Maker. But if we had not, our fathers have earned and bought it for us, at the expense of their ease, their estates, their pleasure, and their blood."

—John Adams

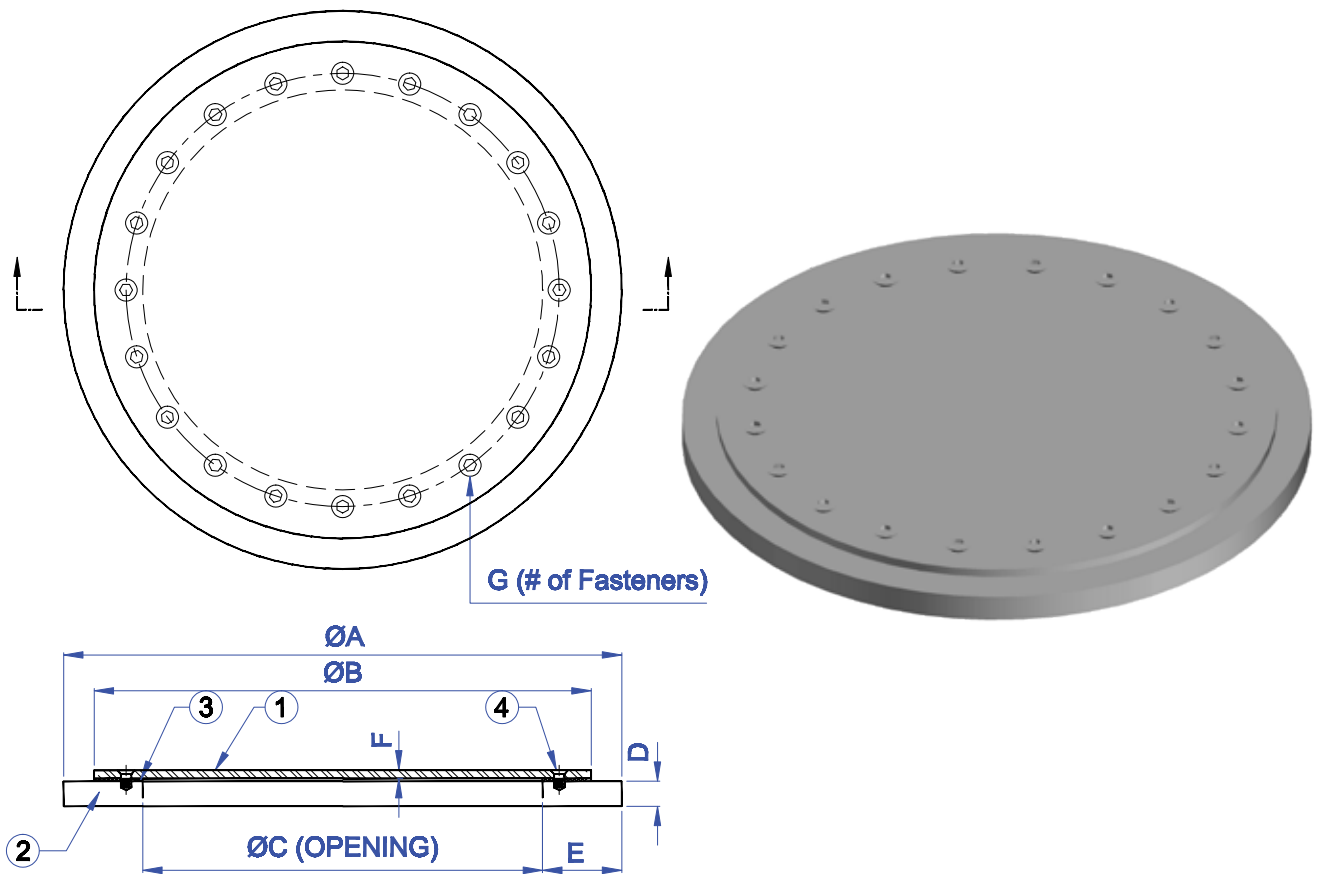


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FLUSH MULTI-SCREW ROUND HATCH



PIECE No.	DESCRIPTION	MATERIAL
1	COVER PLATE	STEEL
2	DECK RING	STEEL
3	GASKET	NEOPRENE
4	FLAT HEAD SOCKET SCREW	STAINLESS

MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-507-14	21083	14"	21-1/8"	18-3/8"	14"	1-1/8"	3-9/16"	3/8"	16	75
DF-507-18	21149	18"	25-1/8"	22-3/8"	18"	1-1/8"	3-9/16"	3/8"	20	83
DF-507-20	21150	20"	27-1/8"	24-3/8"	20"	1-1/8"	3-9/16"	3/8"	22	96

1. OTHER GASKET MATERIALS AVAILABLE.

"We live one day at a time and scratch where it itches."

—Darrell Royal

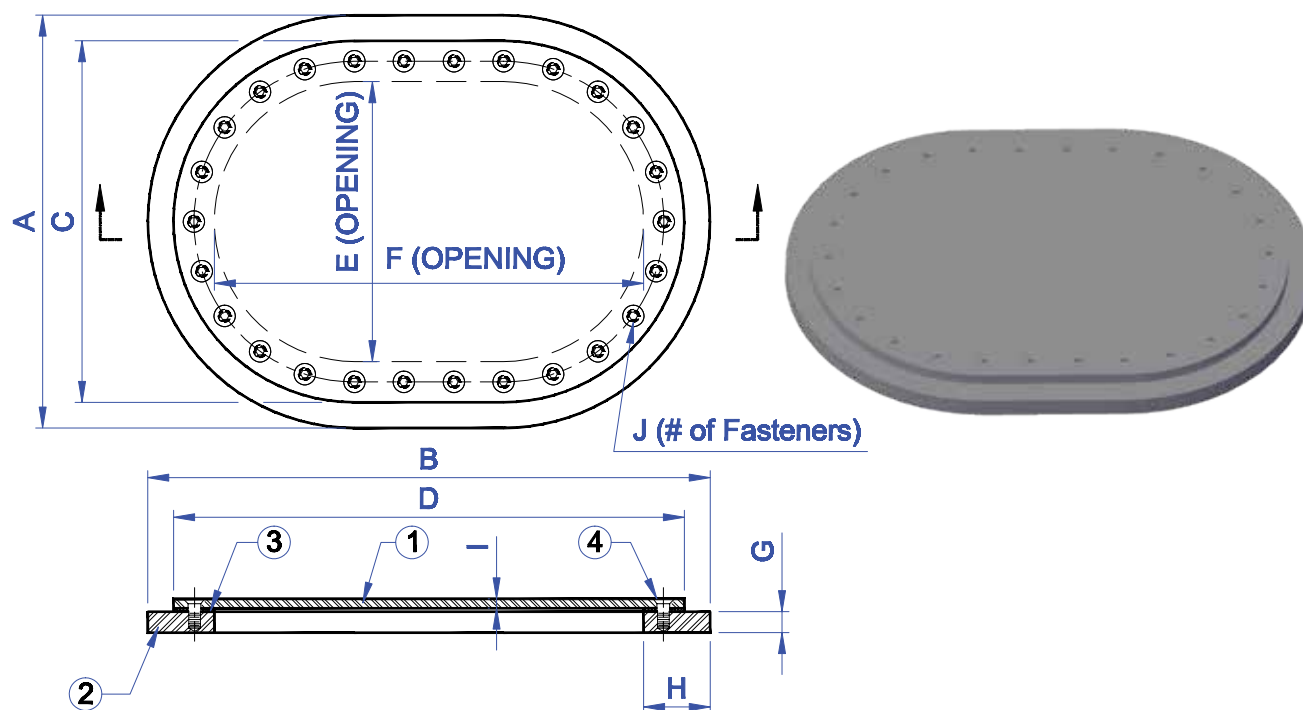
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FLUSH MULTI-SCREW OVAL HATCH



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER PLATE	21181	STEEL
2	DECK RING	21210	STEEL
3	GASKET	21202	NEOPRENE
4	FLAT HEAD SOCKET SCREW	21199	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	J	WT. (lbs.)
DF-505	21148	15x23	22-1/8"	30-1/8"	19-3/8"	27-3/8"	15"	23"	1 1/8"	3-9/16"	1/2"	26	160

1. OTHER GASKET MATERIALS AVAILABLE.

"The layman is far more inclined than the expert to trust paperwork as a shield against tax liability. Tax lawyers are bombarded at cocktail parties with tax schemes, offered as proof positive of the speaker's astute sophistication, that would not convince the most inexperienced revenue agent or that teeter on the brink of fraud."

—Boris I. Bittker

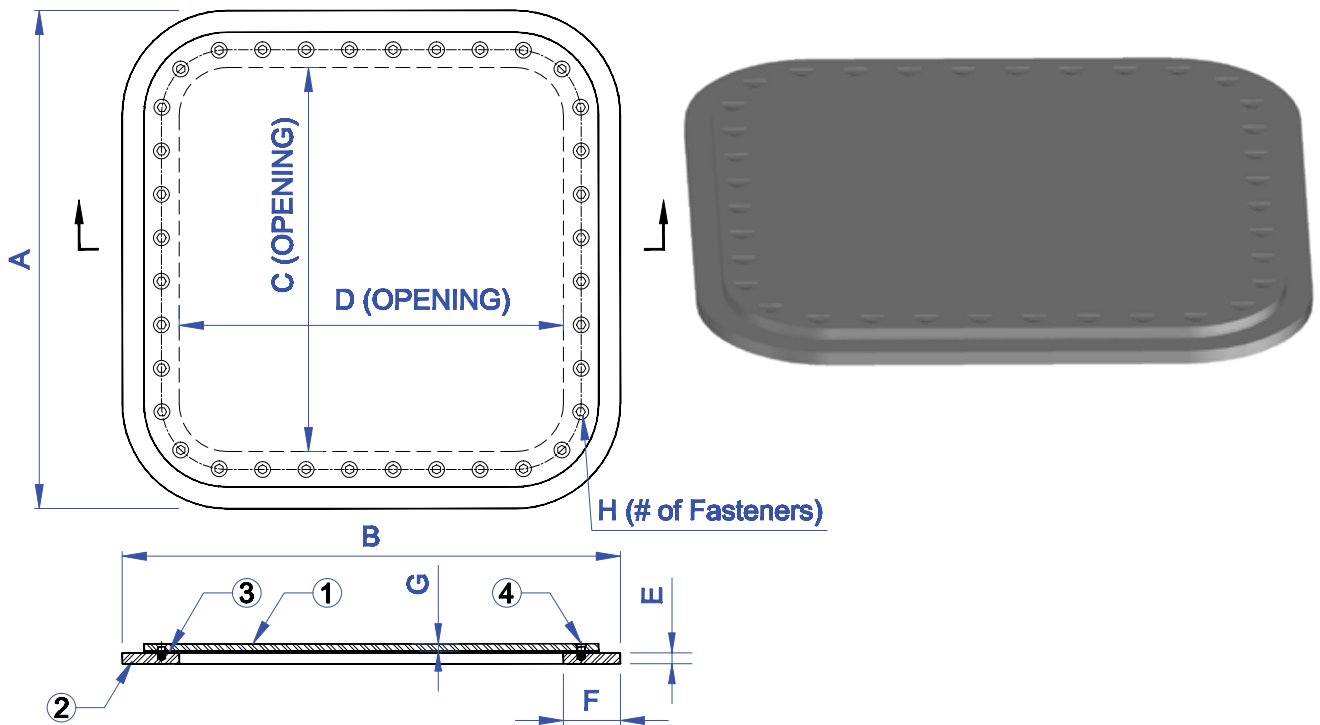


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FLUSH MULTI-SCREW SQUARE HATCH



PIECE No.	DESCRIPTION	MATERIAL
1	COVER PLATE	STEEL
2	DECK RING	STEEL
3	GASKET	NEOPRENE
4	FLAT HEAD SOCKET SCREW	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-508	21145	24x24	31-1/8"	31-1/8"	24"	24"	3/4"	3-9/16"	1/2"	36	191

"[Why] should not the Bible regain the place it once held as a school book? Its morals are pure, its examples captivating and noble. The reverence for the Sacred Book that is thus early impressed lasts long; and probably if not impressed in infancy, never takes firm hold of the mind."

—Fisher Ames*

*Representative in the United States Congress from the 1st Congressional District of Massachusetts and important leader of the Federalist Party in the House.

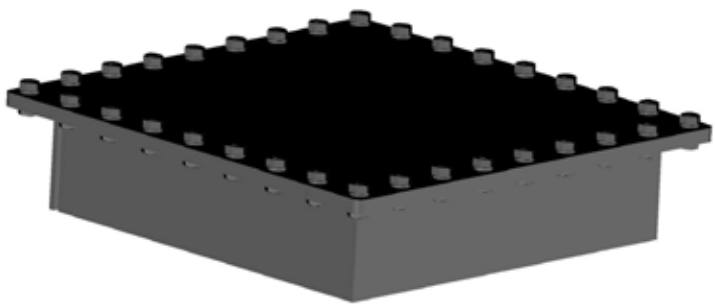
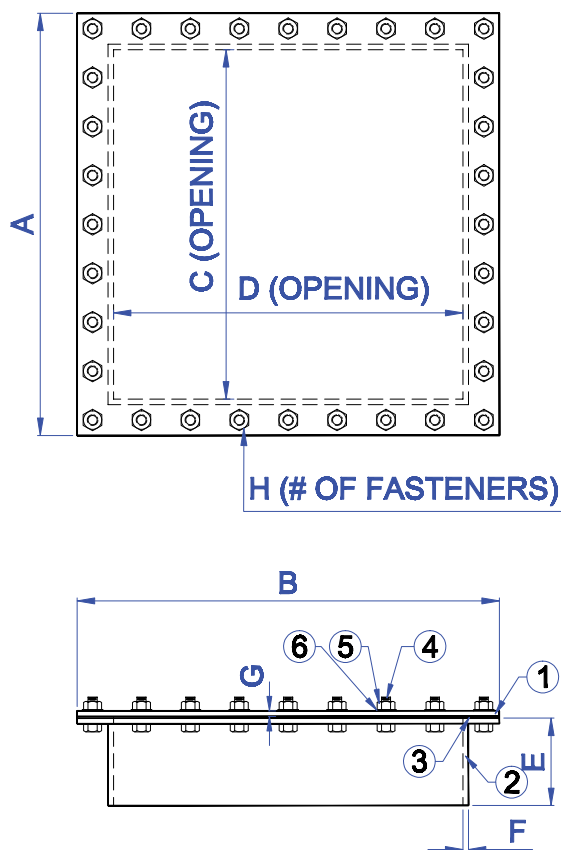
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VALVE REMOVAL HATCH



PIECE No.	DESCRIPTION	MATERIAL
1	COVER ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	GASKET	NEOPRENE
4	HEX HEAD BOLT	STEEL
5	HEX NUT	STAINLESS
6	WASHER	BRASS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-587-6	21072	24x24	29"	29"	24"	24"	6"	3/8"	3/8"	32	375

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.
2. ADDITIONAL OPENING DIMENSIONS AVAILABLE.
3. OTHER GASKET MATERIALS AVAILABL E.
4. OTHER BOLT, NUT AND WASHER COMBINATIONS AVAILABLE.

"I'm working as hard as I can to get my life and my cash to run out at the same time. If I can just die after lunch Tuesday, everything will be perfect."

—Doug Sanders

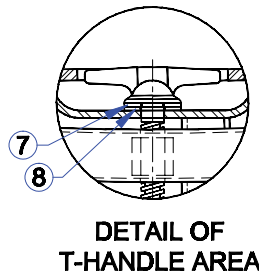
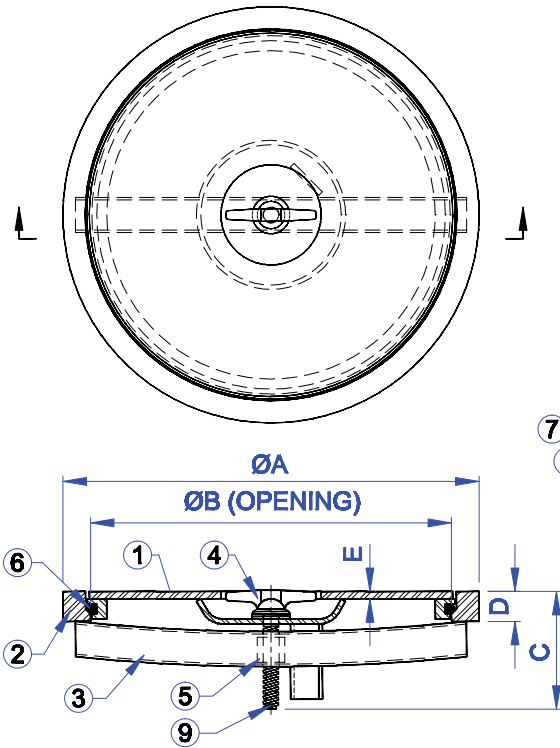


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FLUSH WATERTIGHT T-HANDLE HATCH



PIECE No.	DESCRIPTION	PART No.		MATERIAL
		DF-430-18D	DF-430-24D	
1	HATCH LESS DECK RING	20389	20397	STEEL
2	DECK RING	6750	15334	STEEL
3	STRONGBACK	6300	13870	GALVANIZED STEEL
4	T-HANDLE	16993		STAINLESS
5	ACME THREADED NUT	507		BRASS
6	HATCH GASKET	17256	6548	NEOPRENE
7	WASHER	604		BRASS
8	WASHER GASKET	6556		NEOPRENE
9	COTTER PIN	21639		STAINLESS

MODEL No.	PART No.	SIZE	$\varnothing A$	$\varnothing B$	C	D	E	WT. (lbs.)
DF-430-18D	6297	18"	20-3/4"	18"	5-7/8"	1-1/2"	3/8"	70
DF-430-24D	6270	24"	26-3/4"	24"	5-7/8"	1-1/2"	3/8"	120

1. ADDITIONAL OPENING DIMENSIONS AVAILABLE.
2. OTHER GASKET MATERIALS AVAILABLE.

"Socialism values equality more than liberty."

—Dennis Prager

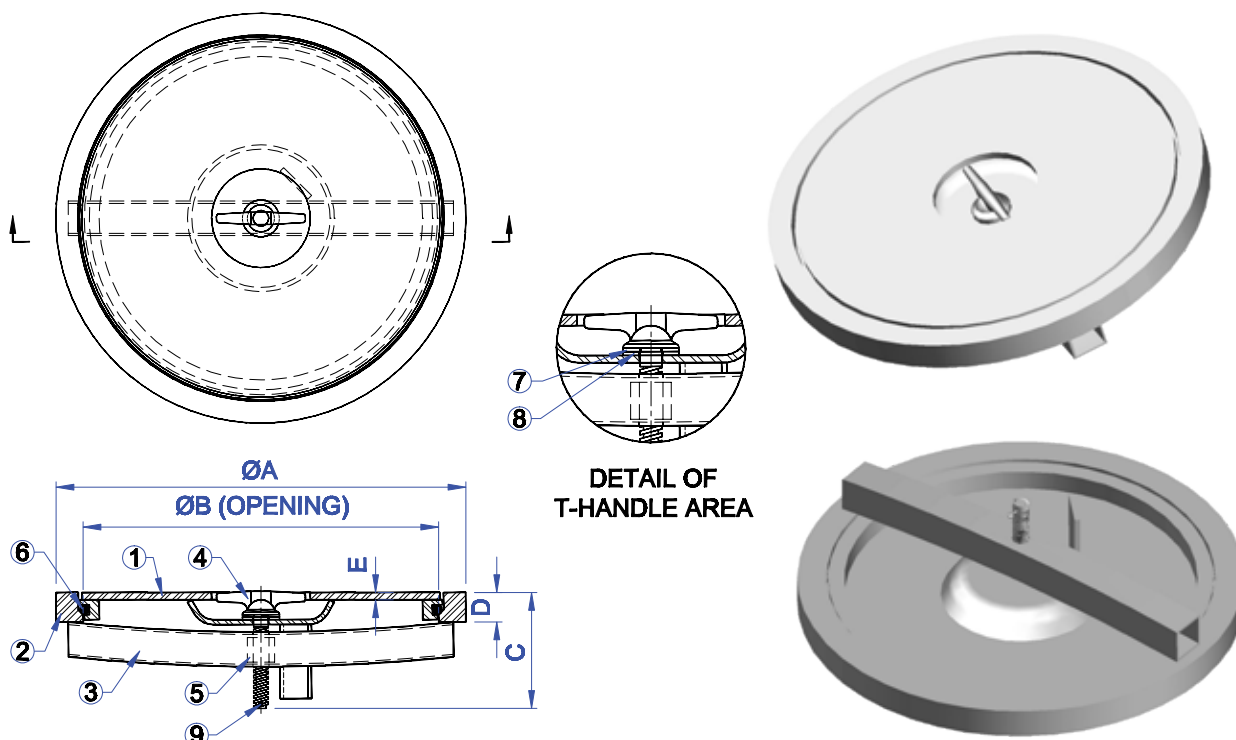
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FLUSH GALV. WATERTIGHT T-HANDLE HATCH



PIECE No.	DESCRIPTION	PART No.		MATERIAL
		DF-430-18D	DF-430-24D	
1	HATCH LESS DECK RING	6337	20398	GALVANIZED STEEL
2	DECK RING	6751	15335	GALVANIZED STEEL
3	STRONGBACK	6300	13870	GALVANIZED STEEL
4	T-HANDLE	16993		STAINLESS
5	ACME THREADED NUT	507		BRASS
6	HATCH GASKET	17256	6548	NEOPRENE
7	WASHER	604		BRASS
8	WASHER GASKET	6556		NEOPRENE
9	COTTER PIN	21639		STAINLESS

MODEL No.	PART No.	SIZE	ØA	ØB	C	D	E	WT. (lbs.)
DF-430-18D	6335	18"	20-3/4"	18"	5-7/8"	1-1/2"	3/8"	70
DF-430-24D	6289	24"	26-3/4"	24"	5-7/8"	1-1/2"	3/8"	120

1. ADDITIONAL OPENING DIMENSIONS AVAILABLE.
2. OTHER GASKET MATERIALS AVAILABLE.

"I could have been a Rhodes Scholar except for my grades."

—Duffy Daugherty

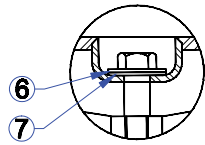
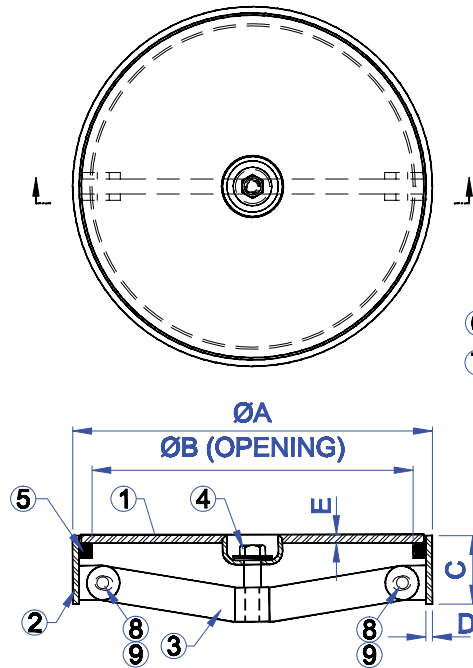


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SINGLE BOLT ROUND HATCH



DETAIL OF BOLT AREA



PIECE No.	DESCRIPTION	PART No.			MATERIAL
		DF-540-1775	DF-540-1975	DF-540-2175	
1	HATCH COVER ASSEMBLY	92673	92924	92932	STEEL
2	COAMING ASSEMBLY	92681	92959	92967	STEEL
3	STRONGBACK ASSEMBLY	92762	93041	93068	STEEL
4	HEX HEAD BOLT	92746			STAINLESS
5	HATCH GASKET	92703	92983	92991	NEOPRENE
6	WASHER	92908			BRASS
7	WASHER GASKET	92711			NEOPRENE
8	CLEVIS PIN	92770			GALVANIZED STEEL
9	COTTER PIN	92789			STAINLESS

MODEL No.	MS- PART No.	SS- PART No.	SIZE	$\varnothing A$	$\varnothing B$	C	D	E	WT. (lbs.)
DF-540-1775	89915	89914	17-3/4"	20"	17-3/4"	4"	3/8"	1/2"	90
DF-540-1975	93017	93016	19-3/4"	22"	19-3/4"	4"	3/8"	1/2"	100
DF-540-2175	93025	93026	21-3/4"	24"	21-3/4"	4"	3/8"	1/2"	115

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.
2. ADDITIONAL OPENING DIMENSIONS AVAILABLE.
3. OTHER GASKET MATERIALS AVAILABLE.

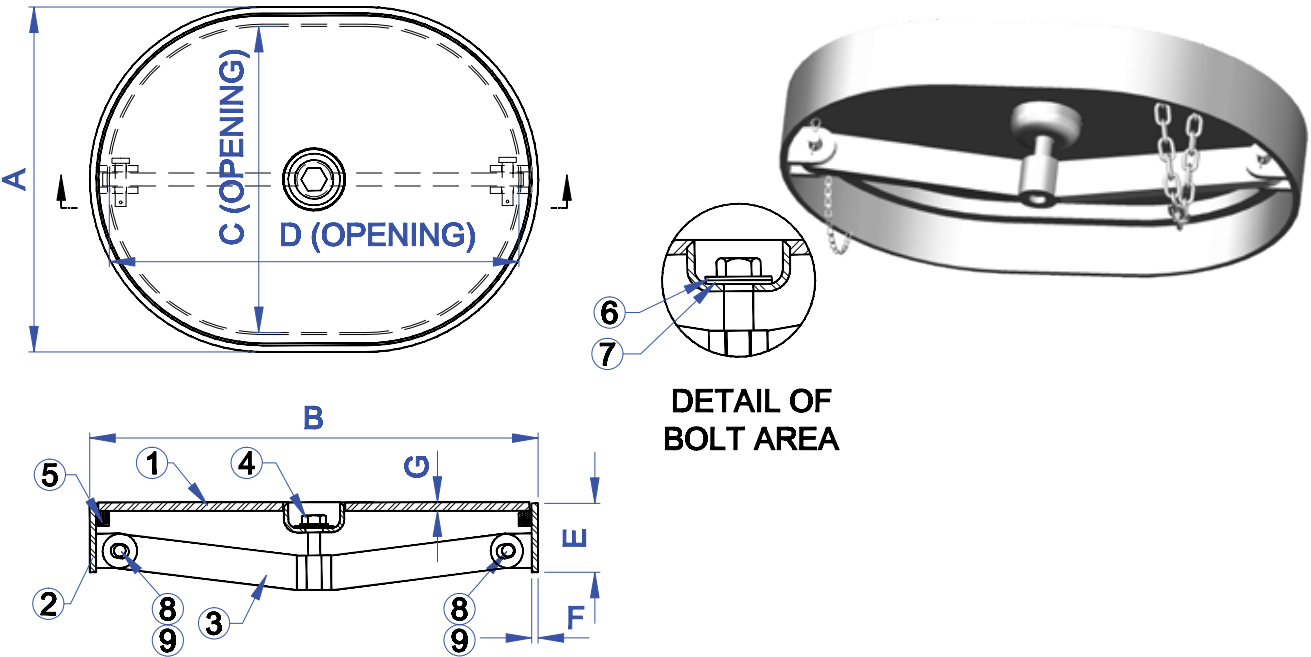
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SINGLE BOLT OVAL HATCH



PIECE No.	DESCRIPTION	PART No.		MATERIAL
		DF-540-1523	DF-540-1824	
1	HATCH COVER ASSEMBLY	93020	93039	STEEL
2	COAMING ASSEMBLY	93021	93043	STEEL
3	STRONGBACK ASSEMBLY	93022	93045	STEEL
4	HEX HEAD BOLT	92746	92746	STAINLESS
5	HATCH GASKET	93023	93050	NEOPRENE
6	WASHER	92908	92908	BRASS
7	WASHER GASKET	92711	92711	NEOPRENE
8	CLEVIS PIN	92770	92770	GALV STEEL
9	COTTER PIN	92789	92789	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	WT. (lbs.)
DF-540-1523	93010	15x23	17-1/4"	25-1/4"	15"	23"	4"	3/8"	1/2"	100
DF-540-1824	93001	18x24	20-1/4"	26-1/4"	18"	24"	4"	3/8"	1/2"	130

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.
2. ADDITIONAL OPENING DIMENSIONS AVAILABLE.
3. OTHER GASKET MATERIALS AVAILABLE.

“Football is NOT a contact sport, it is a collision sport. Dancing IS a contact sport.”

—Duffy Daugherty



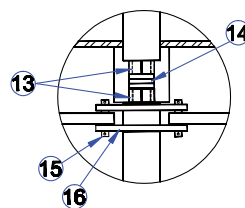
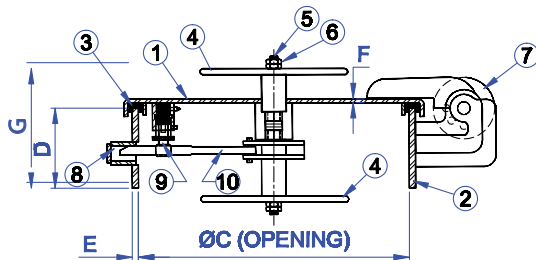
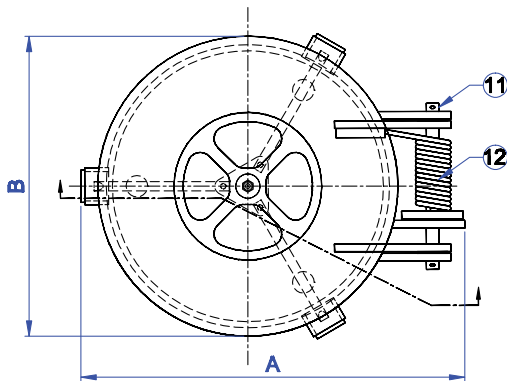
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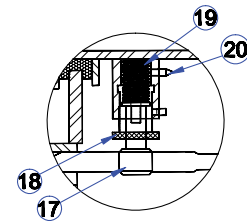
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RAISED WATERTIGHT QUICK ACTING ESCAPE HATCH

BR



DETAIL OF DOG ARM HINGE AREA



DETAIL OF SWIVEL GUIDE AREA

No.	DESCRIPTION	MATERIAL
1	HATCH COVER ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	HATCH GASKET	NEOPRENE
4	HANDWHEEL ASSEMBLY	STEEL
5	CENTER SHAFT	STAINLESS
6	JAM NUT	STAINLESS
7	ADJUSTING SPROCKET	STEEL
8	DOG POCKET ASSEMBLY	STEEL
9	SWIVEL GUIDE ASSEMBLY	-
10	DOG ARM	STAINLESS
11	HINGE PIN	STAINLESS
12	HINGE SPRING	STAINLESS
13	BUSHING	NYLON
14	PACKING	GRAPHITE
15	DOG ARM PIN	STAINLESS
16	ROTATING BLOCK ASSEMBLY	STEEL
17	SWIVEL GUIDE	BRASS
18	ADJUSTMENT BUTTON	STEEL
19	SWIVEL GUIDE SPRING	STAINLESS
20	GREASE FITTING	STAINLESS

MODEL No.	PART No.	SIZE	A	B	ØC	D	E	F	G	WT. (lbs.)
DF-546-18	18401	18"	27-1/4"	20-3/8"	18"	6"	1/2"	5/16"	9-1/2"	140
DF-546-20	38010	20"	29-1/4"	22-3/8"	20"	6"	1/2"	5/16"	9-1/2"	160
DF-546-22	37995	22"	31-1/4"	24-3/8"	22"	6"	1/2"	5/16"	9-1/2"	180

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.
2. ADDITIONAL OPENING DIMENSIONS AVAILABLE.
3. OTHER GASKET MATERIALS AVAILABLE.

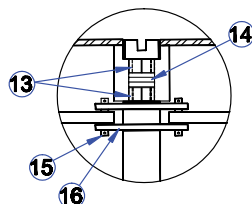
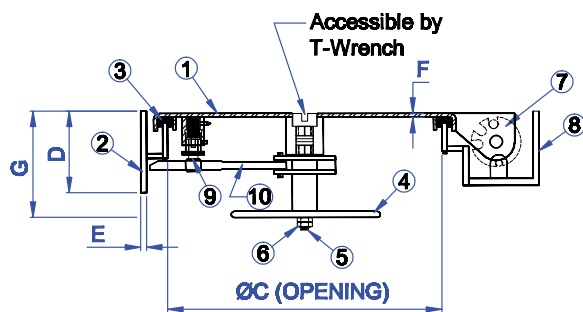
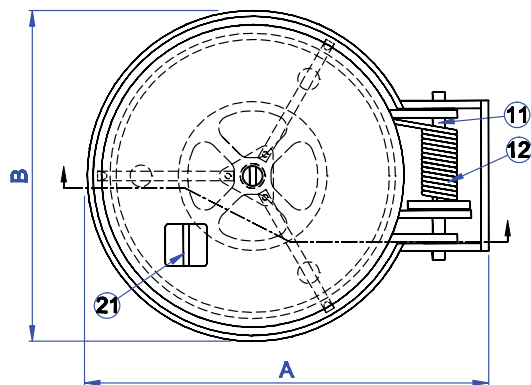
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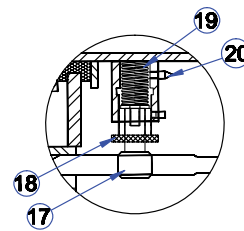


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FLUSH WATERTIGHT QUICK ACTING ESCAPE HATCH



DETAIL OF DOG
ARM HINGE AREA



DETAIL OF SWIVEL
GUIDE AREA

No.	DESCRIPTION	MATERIAL
1	HATCH COVER ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	HATCH GASKET	NEOPRENE
4	HANDWHEEL ASSEMBLY	STEEL
5	CENTER SHAFT	STAINLESS
6	JAM NUT	STAINLESS
7	ADJUSTING SPROCKET	STEEL
8	HINGE BOX ASSEMBLY	STEEL
9	SWIVEL GUIDE ASSEMBLY	-
10	DOG ARM	STEEL
11	HINGE PIN	STAINLESS
12	HINGE SPRING	STAINLESS
13	BUSHING	NYLON
14	PACKING	GRAPHITE
15	DOG ARM PIN	STAINLESS
16	ROTATING BLOCK ASSEMBLY	STEEL
17	SWIVEL GUIDE	BRASS
18	ADJUSTMENT BUTTON	STEEL
19	SWIVEL GUIDE SPRING	STAINLESS
20	GREASE FITTING	STAINLESS
21	GRAB HANDLE	STEEL

MODEL No.	PART No.	SIZE	A	B	ØC	D	E	F	G	WT. (lbs.)
DF-551-18	18406	18"	28-9/32"	22-5/32"	18"	6"	1/2"	5/16"	9-3/32"	140
DF-551-20	18407	20"	30-1/16"	24-3/8"	20"	6"	1/2"	5/16"	9-3/32"	160
DF-551-22	18408	22"	32-1/16"	26-3/8"	22"	6"	1/2"	5/16"	9-3/32"	180
DF-551-24	18409	24"	34-3/4"	28-3/16"	24"	6"	1/2"	5/16"	9-3/32"	200

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.
2. ADDITIONAL OPENING DIMENSIONS AVAILABLE.
3. OTHER GASKET MATERIALS AVAILABLE.

“Coach Tom Landry is such a perfectionist that if he was married to Raquel Welch, he would expect her to cook.”

—Don Meredith

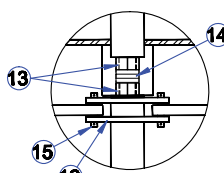
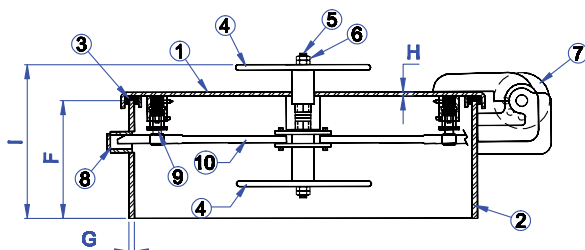
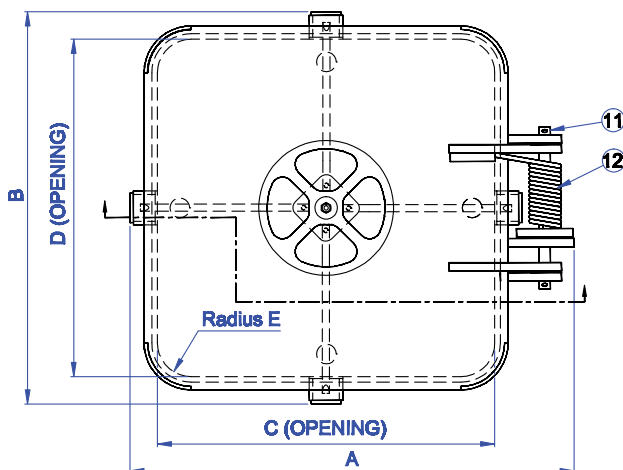


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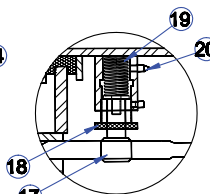
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RAISED WATERTIGHT QUICK ACTING HATCH



DETAIL OF DOG
ARM HINGE AREA



DETAIL OF SWIVEL
GUIDE AREA

No.	DESCRIPTION	MATERIAL
1	HATCH COVER ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	HATCH GASKET	NEOPRENE
4	HANDWHEEL ASSEMBLY	STEEL
5	CENTER SHAFT	STAINLESS
6	JAM NUT	STAINLESS
7	ADJUSTING SPROCKET	STEEL
8	DOG POCKET ASSEMBLY	STEEL
9	SWIVEL GUIDE ASSEMBLY	-
10	DOG ARM	STAINLESS
11	HINGE PIN	STAINLESS
12	HINGE SPRING	STAINLESS
13	BUSHING	NYLON
14	PACKING	GRAPHITE
15	DOG ARM PIN	STAINLESS
16	ROTATING BLOCK ASSEMBLY	STEEL
17	SWIVEL GUIDE	BRASS
18	ADJUSTMENT BUTTON	STEEL
19	SWIVEL GUIDE SPRING	STAINLESS
20	GREASE FITTING	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	WT. (lbs.)
DF-615-2424	100081	24x24	33-11/16"	29-1/4"	24"	24"	3"	24"	1/2"	5/16"	27-1/2"	500
DF-615-3030	100083	30x30	39-11/16"	35-1/4"	30"	30"	3"	24"	1/2"	5/16"	27-1/2"	700
DF-615-3636	100100	36x36	45-11/16"	41-1/4"	36"	36"	3"	24"	1/2"	5/16"	27-1/2"	900

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.
2. ADDITIONAL OPENING DIMENSIONS AVAILABLE.

3. OTHER GASKET MATERIALS AVAILABLE.
4. OTHER MATERIAL OPTIONS AVAILABLE.

"I thought getting older would take longer."

—Anonymous

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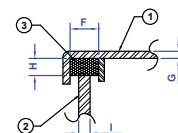
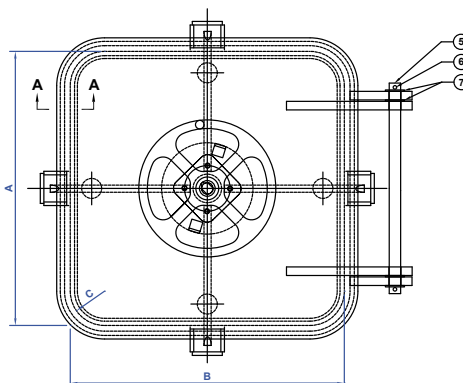
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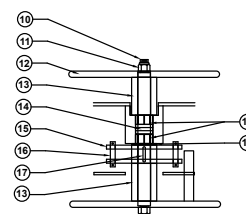
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RAISED WATERTIGHT QUICK ACTING HATCH

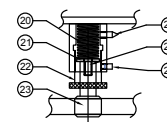
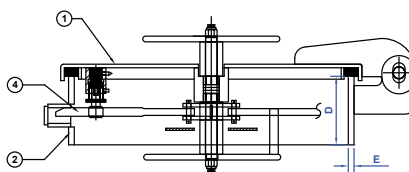
No.	DESCRIPTION	MATERIAL
1	HATCH COVER ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	GASKET	NEOPRENE
4	DOG ARM ROD	STAINLESS
5	HINGE PIN	STAINLESS
6	COTTER PIN	STAINLESS
7	FLAT WASHER	BRASS
8	-	-
9	-	-
10	CENTER SHAFT	STAINLESS
11	HEX LOCK NUT	316 SS
12	HANDWHEEL	GALV'D STEEL
13	HANDWHEEL HUB	STEEL
14	PACKING	GRAPHITE
15	ACTUATOR HUB	STEEL
16	DOG ARM PIN	STEEL
17	KEY	STEEL
18	BUSHING	NYLON
19	WASHER	STAINLESS
20	SPRING	STAINLESS
21	SWIVEL GUIDE WASHER	STAINLESS
22	ADJUSTMENT BUTTON	STEEL
23	SWIVEL GUIDE	BRASS
24	GREASE FITTING	STAINLESS
25	SCREW	STAINLESS
26	SET SCREW	STAINLESS



SECTION A-A
Gasket Groove Detail



Handwheel Detail



Swivel Guide Detail

MODEL No.	PART No.	A	B	C	D	E	F	G	H	I	WT. (lbs.)
DF-590-2424	37950	24"	24"	3"	6"	1/2"	1-1/4"	5/16"	1-1/2"	1/2"	400

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.

2. ADDITIONAL OPENING DIMENSIONS AVAILABLE.

3. OTHER GASKET MATERIALS AVAILABLE.

"From Stettin in the Baltic to Trieste in the Adriatic, an 'iron curtain' has descended across the Continent. Behind that line lie all the capitals of the ancient states of Central and Eastern Europe. Warsaw, Berlin, Prague, Vienna, Budapest, Belgrade, Bucharest and Sofia, all these famous cities and the populations around them lie in what I must call the Soviet sphere, and all are subject in one form or another, not only to Soviet influence but to a very high and, in many cases, increasing measure of control from Moscow."

—Churchill



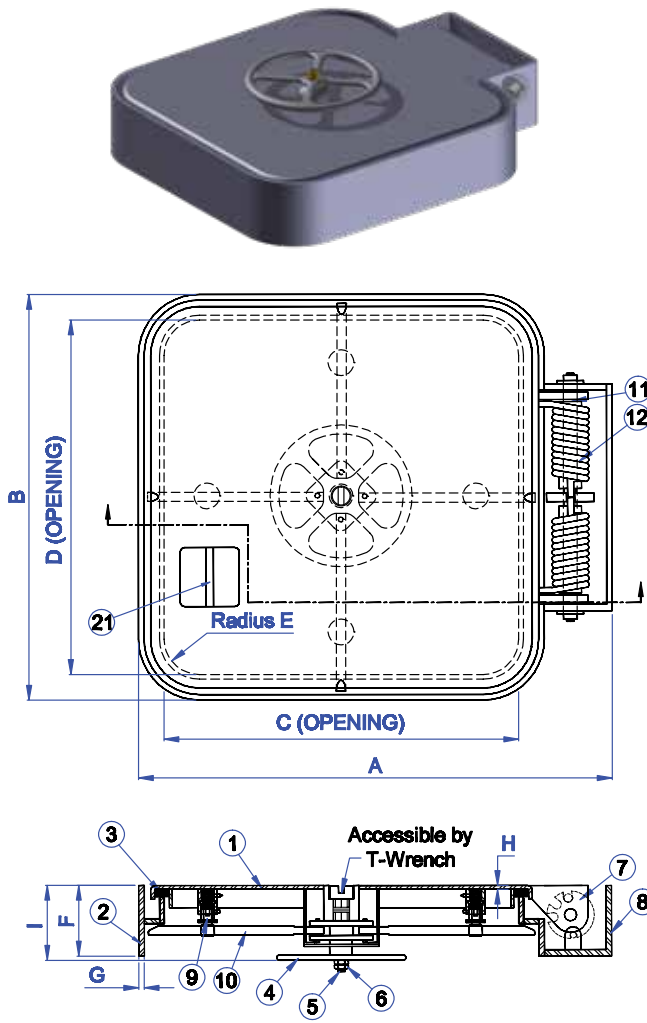
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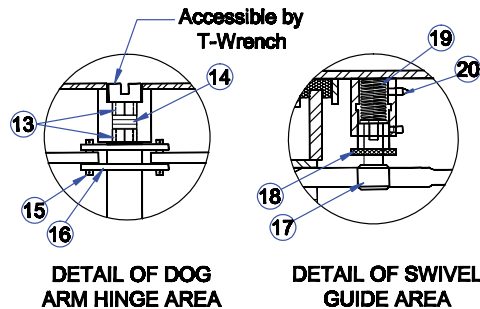
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FLUSH WATERTIGHT QUICK ACTING HATCH

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No.	DESCRIPTION	MATERIAL
1	HATCH COVER ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	HATCH GASKET	NEOPRENE
4	HANDWHEEL ASSEMBLY	STEEL
5	CENTER SHAFT	STAINLESS
6	JAM NUT	STAINLESS
7	ADJUSTING SPROCKET	STEEL
8	HINGE BOX ASSEMBLY	STEEL
9	SWIVEL GUIDE ASSEMBLY	-
10	DOG ARM	STAINLESS
11	HINGE PIN	STAINLESS
12	HINGE SPRING	STAINLESS
13	BUSHING	NYLON
14	PACKING	GRAPHITE
15	DOG ARM PIN	STAINLESS
16	ROTATING BLOCK ASSEMBLY	STEEL
17	SWIVEL GUIDE	BRASS
18	ADJUSTMENT BUTTON	STEEL
19	SWIVEL GUIDE SPRING	STAINLESS
20	GREASE FITTING	STAINLESS
21	GRAB HANDLE	STEEL



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	WT. (lbs.)
DF-595-2424	93011	24x24	34-1/16"	28-5/16"	24"	24"	3"	4"	1/2"	5/16"	6 3/8"	370
DF-595-3030	93000	30x30	40-1/16"	34-5/16"	30"	30"	3"	6"	1/2"	5/16"	6 3/8"	420

1. ADDITIONAL COAMING HEIGHTS AVAILABLE.
2. ADDITIONAL OPENING DIMENSIONS AVAILABLE.
3. OTHER GASKET MATERIALS AVAILABLE.

"The people never give up their liberties but under some delusion."

—Edmund Burke

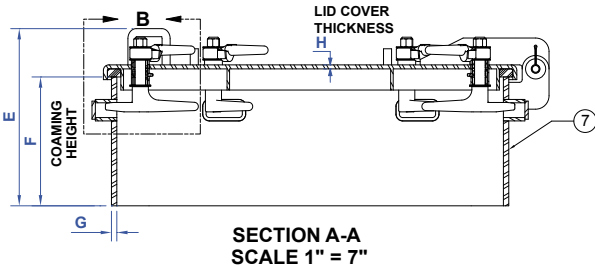
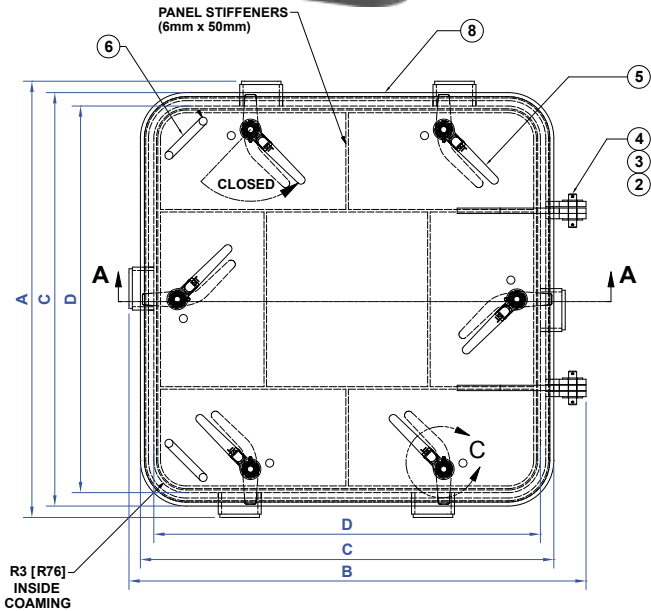
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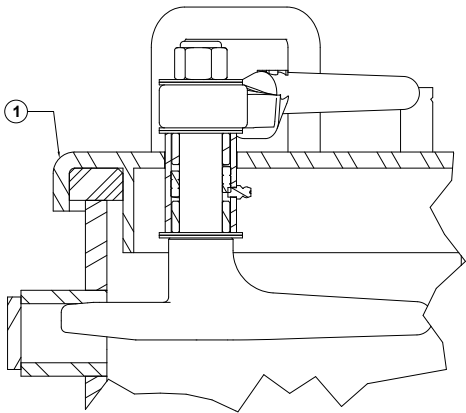


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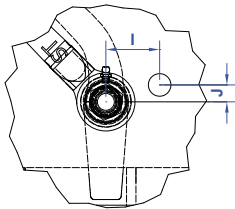
RAISED WATERTIGHT FIXED DOG HATCH



No.	DESCRIPTION	MATERIAL
1	GASKET	NEOPRENE
2	FLAT WASHER	STAINLESS
3	COTTER PIN	STAINLESS
4	CLEVIS PIN	STAINLESS
5	DOOR DOG ASSEMBLY (LH)	-
6	GRAB HANDLE	STEEL
7	COAMING ASSEMBLY	STEEL
8	LID ASSEMBLY	STEEL



DETAIL B
SCALE 1'-0" = 2'-6"



DETAIL C
SCALE 1'-0" = 2'-6"

MODEL No.	PART No.	A	B	C	D	E	F	G	H	I	J	WT. (lbs)
DF-608	60805	40-5/8"	42-9/16"	38-1/2"	36"	16-1/2"	12"	1/2"	3/8"	1-25/32"	9/16"	524

"Freedom and not servitude is the cure of anarchy; as religion, and not atheism, is the true remedy for superstition."

—Edmund Burke

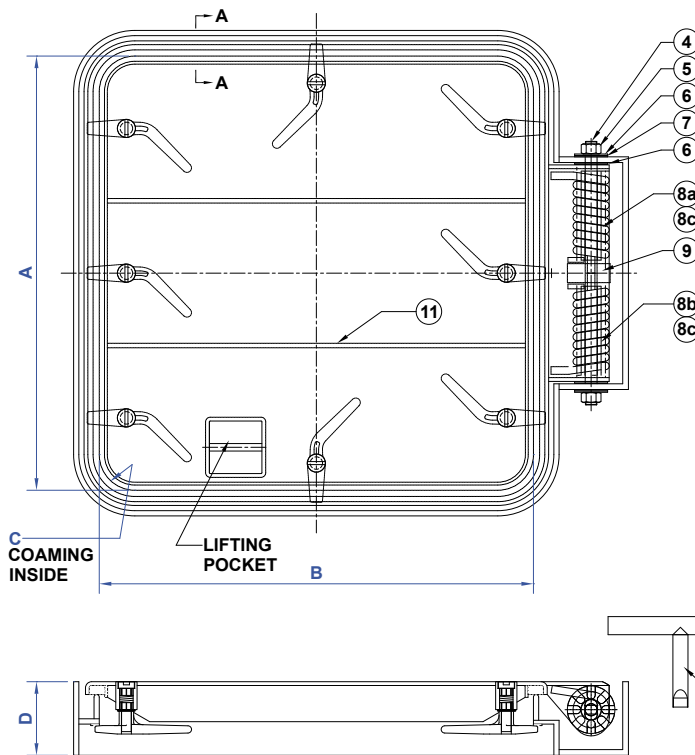
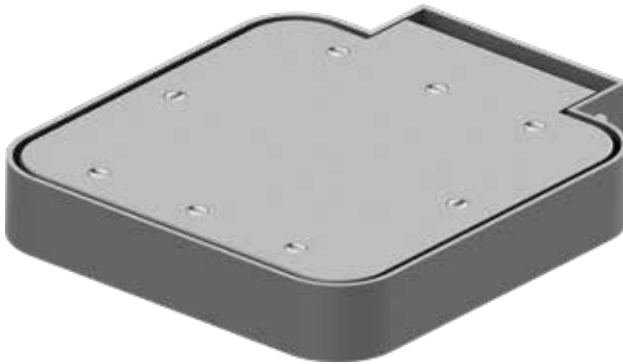


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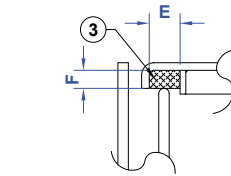
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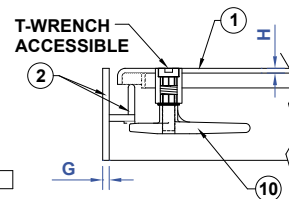
FLUSH WATERTIGHT FIXED DOG HATCH



No.	DESCRIPTION	MATERIAL
1	HATCH COVER ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	HATCH GASKET	NEOPRENE
4	HINGE PIN	STAINLESS
5	HEX NUT	316SS
6	FLAT WASHER	STAINLESS
7	FLAT GASKET WASHER	NEOPRENE
8a	HINGE SPRING (RH) 13 TURNS	STAINLESS
8b	HINGE SPRING (LH) 13 TURNS	STAINLESS
8c	SPRING TUBE	STAINLESS
9	ADJUSTING SPROCKET	GALV'D STEEL
10	DOG HANDLE ASS'Y (RH)	STEEL
11	STIFFENER 3" X 3/8" PL	STEEL
12	T-HANDLE WRENCH	GALV'D STEEL



SECTION A-A
GASKET GROOVE DETAIL



DOG HANDLE DETAIL

MODEL No.	A	B	C	D	E	F	G	H
DF-609	36"	36"	3"	6"	2-1/2"	1-1/2"	1/2"	3/8"

"The establishment of Civil and Religious Liberty was the Motive which induced me to the Field – the object is attained – and it now remains to be my earnest wish and prayer, that the Citizens of the United States could make a wise and virtuous use of the blessings placed before them."

—George Washington

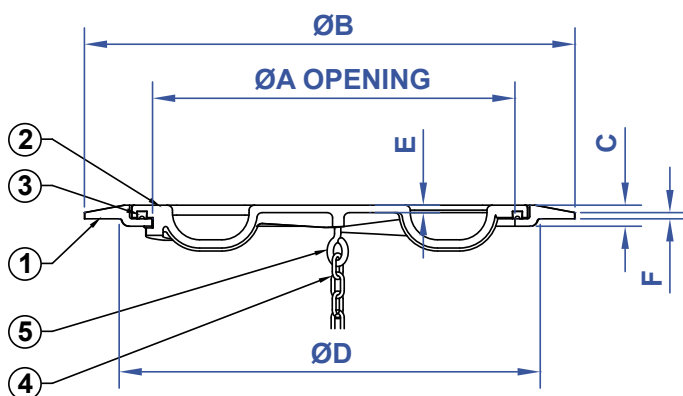
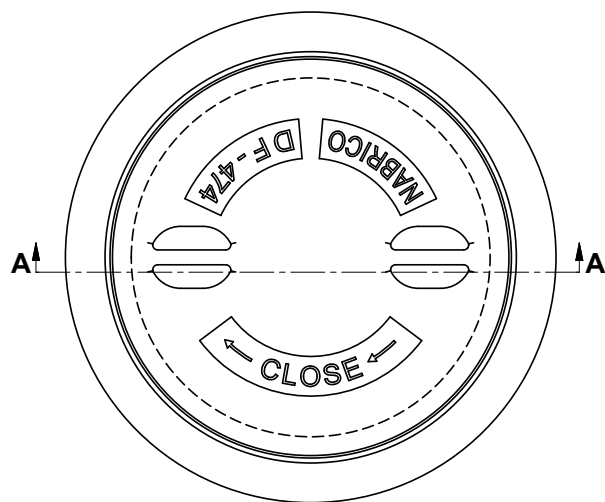
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DF-474 TWIST LOCK HATCH



PIECE No.	DESCRIPTION	QTY	MATERIAL	PART No.
1	DECK RING	1	CAST STEEL	82325
2	HATCH COVER	1	CAST STEEL	82333
3	GASKET	1	NEOPRENE	82341
4	KEEPER CHAIN (GALV'D) 3/16" X 2'-6"	1	GALVANIZED	92798
5	EYE BOLT	1	ZINC PLATED	82334

MODEL No.	PART No.	SIZE	ØA	ØB	C	ØD	E	F	WT. (lbs.)
DF-474	82317	18"	18-3/4"	24-3/4"	1-1/16"	21-1/4"	3/8"	5/16"	80

1. OTHER GASKET MATERIAL AVAILABLE.

"To tax and to please, no more than to love and to be wise, is not given to men."

—Edmund Burke

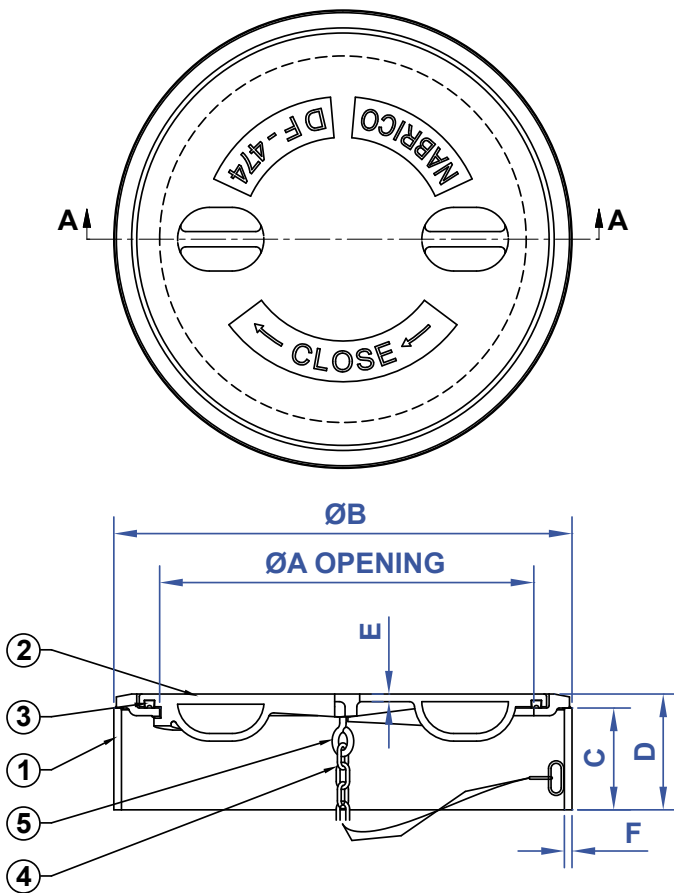


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DF-474-5 TWIST LOCK HATCH



PIECE No.	DESCRIPTION	QTY	MATERIAL	PART No.
1	COAMING ASSEMBLY	1	MILD STEEL	82324
2	HATCH COVER	1	CAST STEEL	82333
3	GASKET	1	NEOPRENE	82341
4	KEEPER CHAIN (GALV'D) 3/16" X 2'-6"	1	GALVANIZED	92798
5	EYE BOLT	1	ZINC PLATED	82334

MODEL No.	PART No.	SIZE	ØA	ØB	C	D	E	F	WT. (lbs.)
DF-474-5	82320	18"	18-3/4"	22-1/2"	5"	5-11/16"	3/8"	3/8"	105

1. OTHER GASKET MATERIAL AVAILABLE.

"The rights of conscience, of bearing arms, of changing the government, are declared to be inherent in the people."

—Fisher Ames

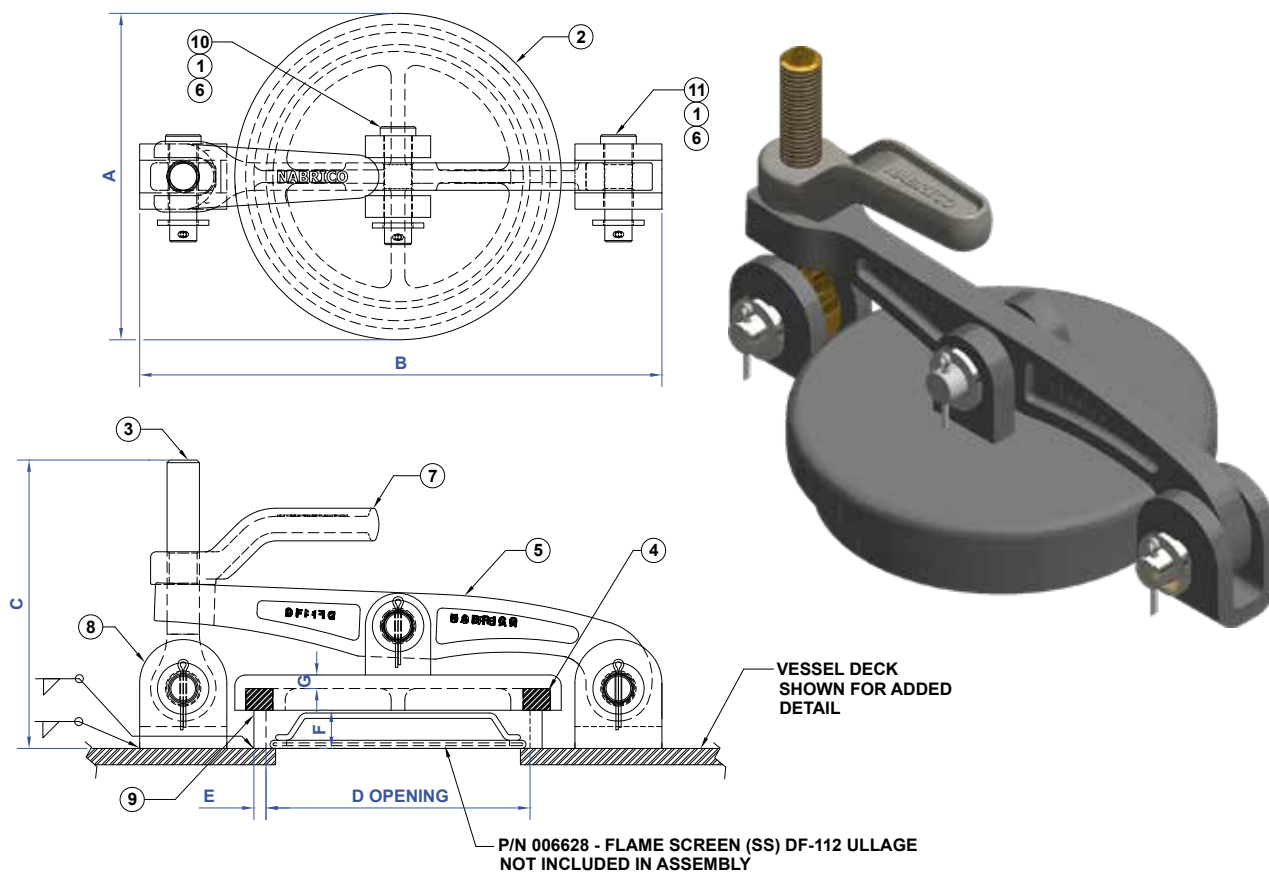
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SINGLE DOG ULLAGE HATCH



PIECE No.	DESCRIPTION	MILD STEEL PART No.	MATERIAL	STAINLESS STEEL PART No.	MATERIAL
1	COVER ASSY	89886	STEEL	89885	STAINLESS
2	COAMING ASSY	11221	STEEL	11222	STAINLESS
3	GASKET	17169	NEOPRENE	17169	NEOPRENE
4	DOG HANDLE	74837	IRON	74838	GALV'D IRON
5	TUMBLE BOLT	10774	BRASS	87939	STAINLESS
6	CLEVIS PIN	92771	STAINLESS	92771	STAINLESS
7	FLAME SCREEN	6628	STAINLESS	6628	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	WT. (LBS)
DF-112	6646	6"	7-1/2"	12"	6-5/8"	6-1/16"	9/32"	7/8"	5/16"	15

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.

3. TUMBLE BOLT ALSO AVAILABLE AS STAINLESS.
4. DOG HANDLE ALSO AVAILABLE AS SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION AND CUSTOM COAMING HEIGHTS.

"What this country needs are more unemployed politicians."

—Edward Langley

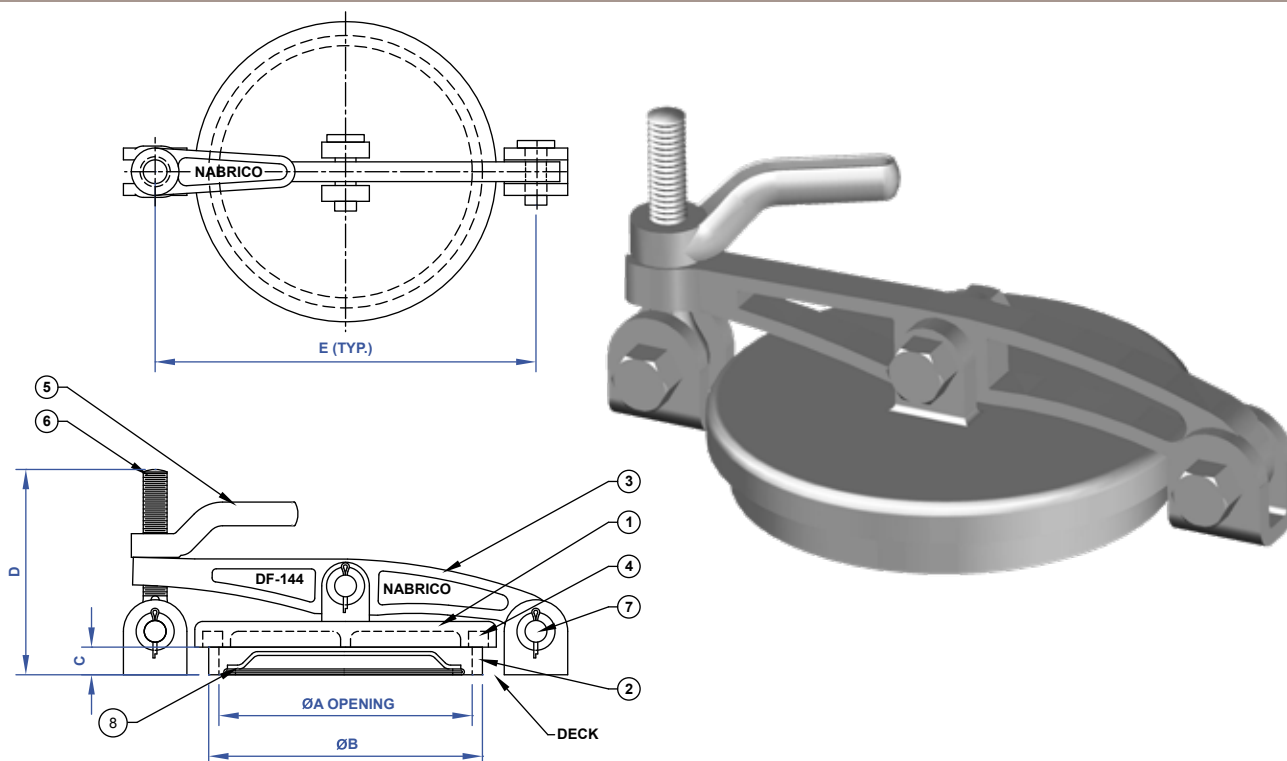


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SINGLE DOG ULLAGE HATCH



PIECE No.	DESCRIPTION	MILD STEEL PART No.	MATERIAL	STAINLESS STEEL PART No.	MATERIAL
1	COVER ASSY	6637	STEEL	6638	STAINLESS
2	COAMING RING	75671	STEEL	75677	STAINLESS
3	ULLAGE ARM	6831	STEEL	6832	STAINLESS
4	GASKET	17167	NEOPRENE	17167	NEOPRENE
5	DOG HANDLE	74837	IRON	74838	GALV'D IRON
6	TUMBLE BOLT	10774	BRASS	87939	STAINLESS
7	CLEVIS PIN	92771	STAINLESS	92771	STAINLESS
8	FLAME SCREEN	6629	STAINLESS	6629	STAINLESS

MODEL No.	PART No.	SIZE	ØA	ØB	C	D	E	WT. (LBS)
DF-144-MS	6645	8"	8"	8-5/8"	7/8"	6-1/2"	12"	22
DF-144-SS	6654	8"	8"	8-5/8"	7/8"	6-1/2"	12"	22

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.

3. TUMBLE BOLT ALSO AVAILABLE AS STAINLESS.
4. DOG HANDLE ALSO AVAILABLE AS SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION AND CUSTOM COAMING HEIGHTS.

"The only thing we have to fear is fear itself."

—Franklin D. Roosevelt

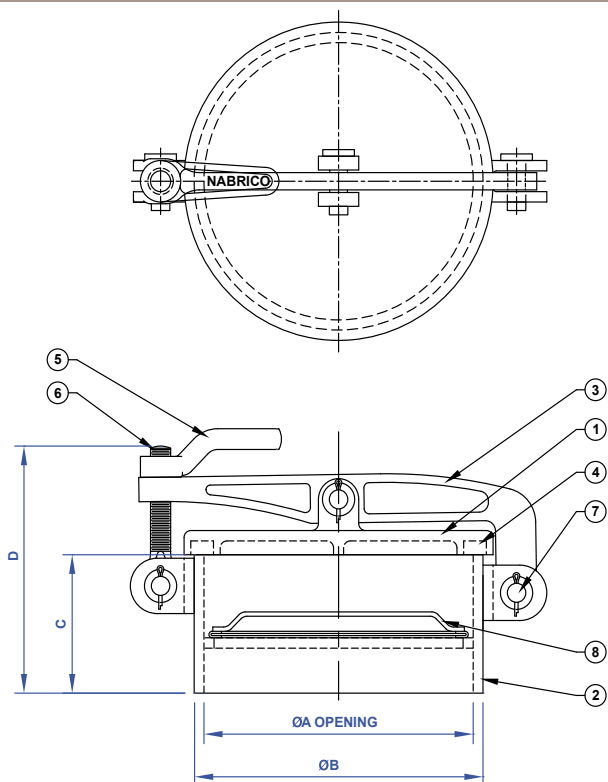
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SINGLE DOG ULLAGE HATCH



PIECE No.	DESCRIPTION	MILD STEEL PART No.	MATERIAL	STAINLESS STEEL PART No.	MATERIAL
1	COVER ASSY	83062	STEEL	83093	STAINLESS
2	COAMING ASSY	18515	STEEL	19517	STAINLESS
3	ULLAGE ARM	19461	STEEL	6834	STAINLESS
4	GASKET	82449	NEOPRENE	82449	NEOPRENE
5	DOG HANDLE	74837	IRON	74838	GALV'D IRON
6	TUMBLE BOLT	10774	BRASS	87939	STAINLESS
7	CLEVIS PIN	92771	STAINLESS	92771	STAINLESS
8	FLAME SCREEN	19496	STAINLESS	19496	STAINLESS

MODEL No.	PART No.	SIZE	ØA	ØB	C	D	WT. (LBS)
DF-569-5-MS	83097	10"	10"	10-3/4"	5"	9"	40
DF-569-5-SS	83096	10"	10"	10-3/4"	5"	9"	40

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.

3. TUMBLE BOLT ALSO AVAILABLE AS STAINLESS.
4. DOG HANDLE ALSO AVAILABLE AS SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION AND CUSTOM COAMING HEIGHTS.

"Talk is cheap, except when Congress does it."

—Anonymous

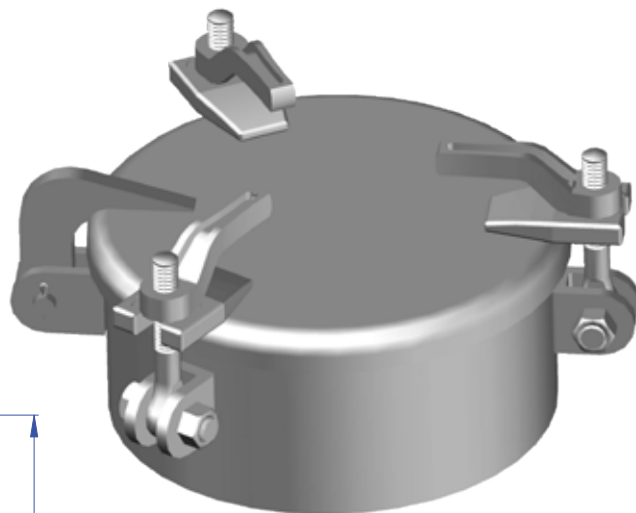
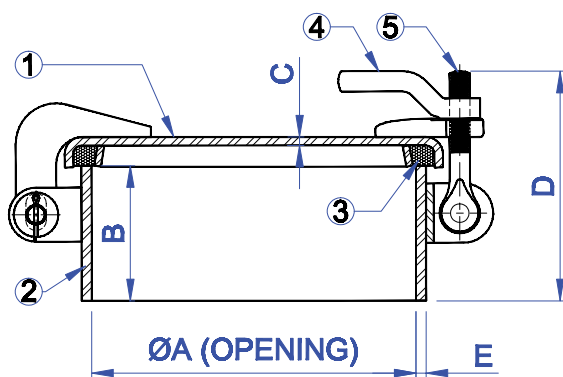
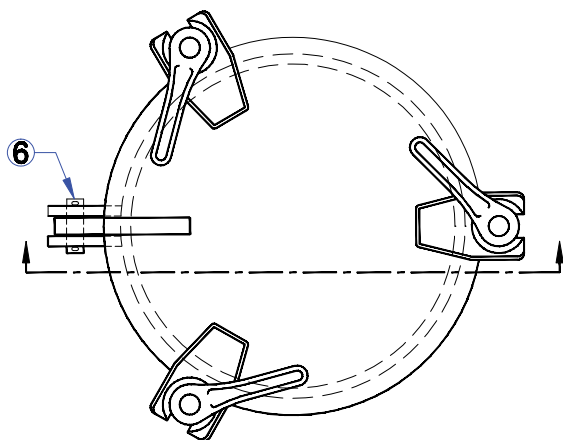


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3 DOG RAISED WATERTIGHT HATCH



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER ASSEMBLY	77909	STEEL
2	COAMING ASSEMBLY	76156	STEEL
3	GASKET	75981	NEOPRENE
4	DOG HANDLE	74837	IRON
5	TUMBLE BOLT	10774	BRONZE
6	HINGE PIN ASSEMBLY	76067	STAINLESS

MODEL No.	PART No.	SIZE	ØA	ØB	C	D	E	WT. (lbs.)
DF-456-5	75965	12"	12"	5"	5/16"	8-5/8"	3/8"	55

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.

3. TUMBLE BOLTS ALSO AVAILABLE IN STAINLESS.
4. DOG HANDLES ALSO AVAILABLE IN SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION, FLAME SCREENS AND CUSTOM COAMING HEIGHTS.

"Taxes are paid in the sweat of every man who labors."

—Franklin D. Roosevelt

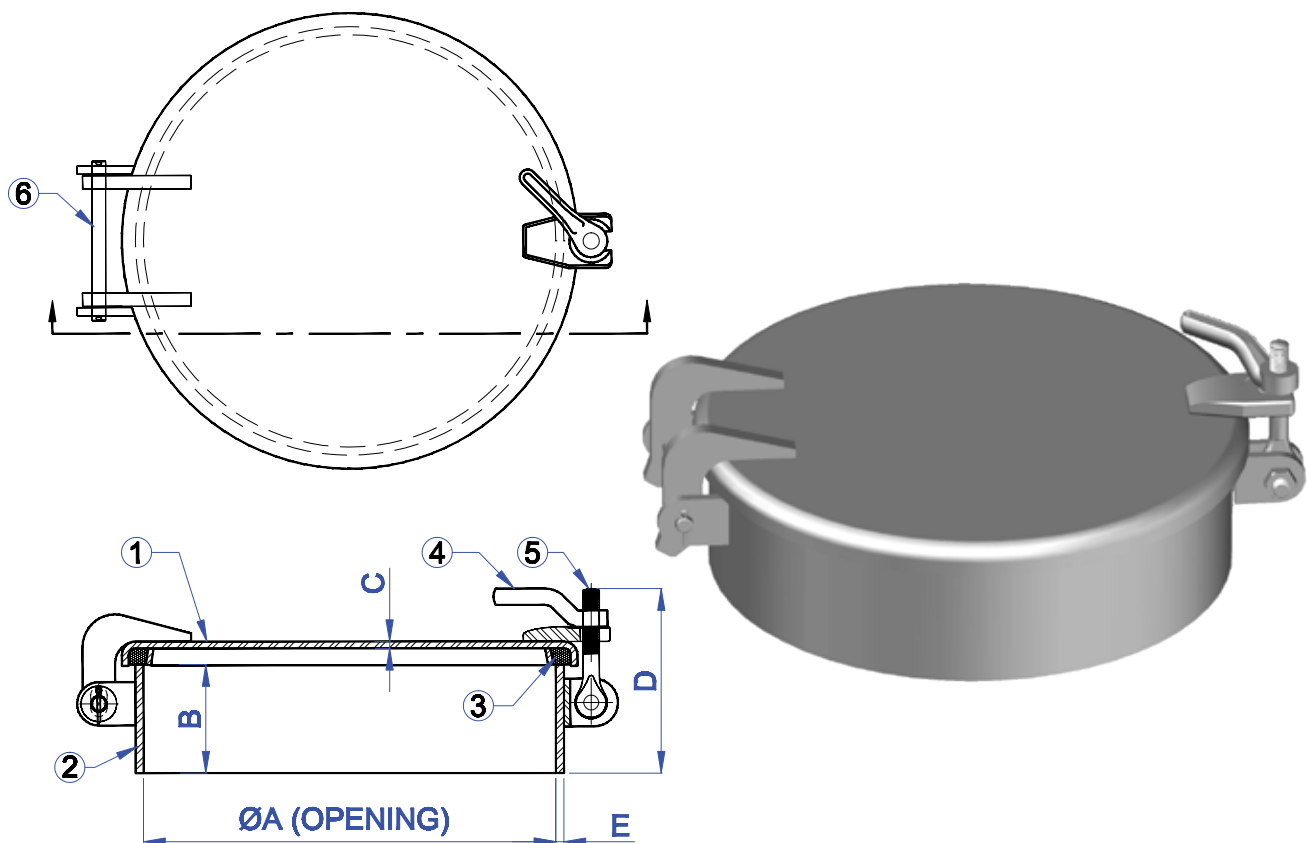
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SINGLE DOG RAISED WATERTIGHT HATCH



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER ASSEMBLY	77900	STEEL
2	COAMING ASSEMBLY	75030	STEEL
3	GASKET	74497	NEOPRENE
4	DOG HANDLE	74837	IRON
5	TUMBLE BOLT	10774	BRONZE
6	HINGE PIN ASSEMBLY	75077	STAINLESS

MODEL No.	PART No.	SIZE	ØA	B	C	D	E	WT. (lbs.)
DF-543-5	21598	19"	19"	5"	5/16"	8-5/8"	3/8"	80

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.
3. TUMBLE BOLT ALSO AVAILABLE AS STAINLESS.
4. DOG HANDLE ALSO AVAILABLE AS SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION AND CUSTOM COAMING HEIGHTS.

“The liberty enjoyed by the people of these States of worshipping Almighty God, agreeable to their consciences, is not only among the choicest of their blessings, but also of their rights.”

—George Washington

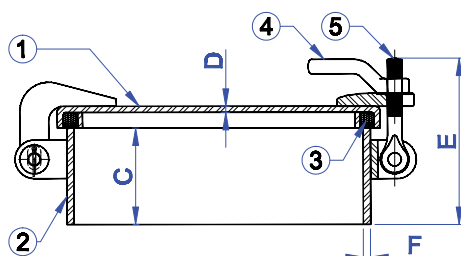
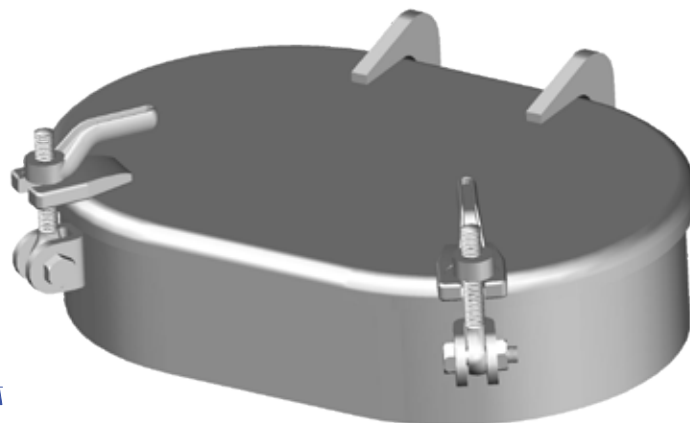
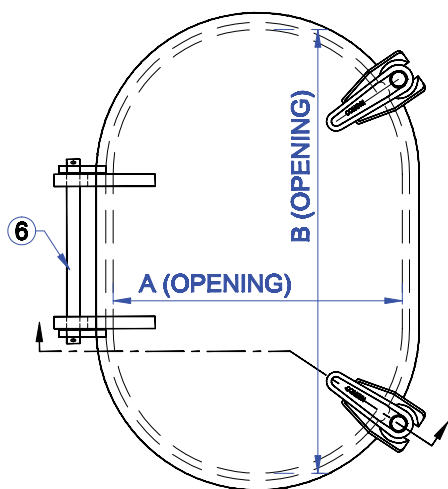


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2 DOG RAISED WATERTIGHT HATCH



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER ASSEMBLY	89550	STEEL
2	COAMING ASSEMBLY	74099	STEEL
3	GASKET	74497	NEOPRENE
4	DOG HANDLE	74837	IRON
5	TUMBLE BOLT	10774	BRONZE
6	HINGE PIN ASSEMBLY	73999	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	WT. (lbs.)
DF-274-5	89559	15x23	15"	23"	5"	5/16"	8-5/8"	3/8"	90

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.

3. TUMBLE BOLTS ALSO AVAILABLE IN STAINLESS.
4. DOG HANDLES ALSO AVAILABLE IN SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION, FLAME SCREENS AND CUSTOM COAMING HEIGHTS.

"There is nothing so likely to produce peace as to be well prepared to meet an enemy."

—George Washington

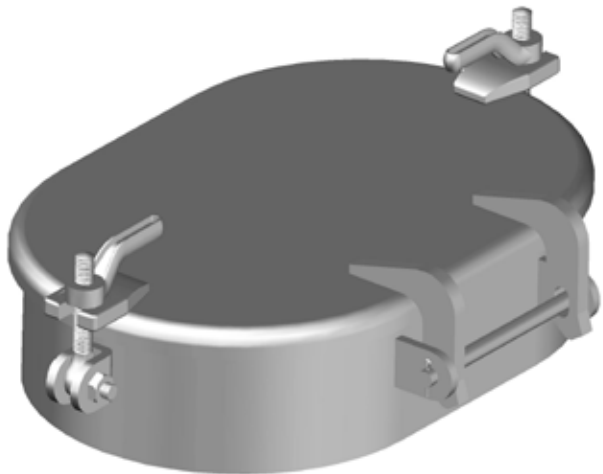
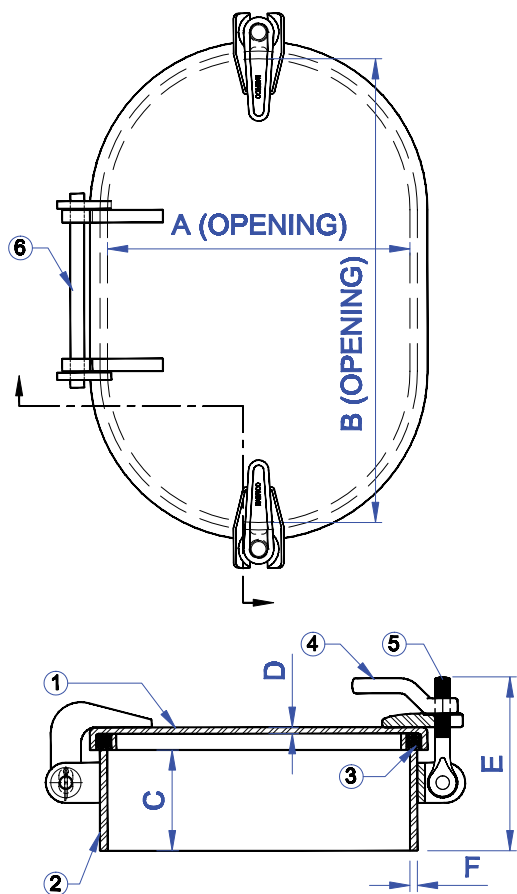
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2 DOG RAISED WATERTIGHT HATCH



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER ASSEMBLY	73148	STEEL
2	COAMING ASSEMBLY	74100	STEEL
3	GASKET	74497	NEOPRENE
4	DOG HANDLE	85236	STAINLESS W/ GREASE FITTING
5	TUMBLE BOLT	87939	STAINLESS
6	HINGE PIN ASSEMBLY	73999	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	WT. (lbs.)
DF-774-5	72483	15x23	15"	23"	5"	5/16"	8-5/8"	3/8"	90

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.
3. TUMBLE BOLT ALSO AVAILABLE IN STAINLESS.
4. DOG HANDLE ALSO AVAILABLE IN SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION, FLAME SCREENS AND CUSTOM COAMING HEIGHTS.

“Religion and morality are the essential pillars of civil society.”

—George Washington

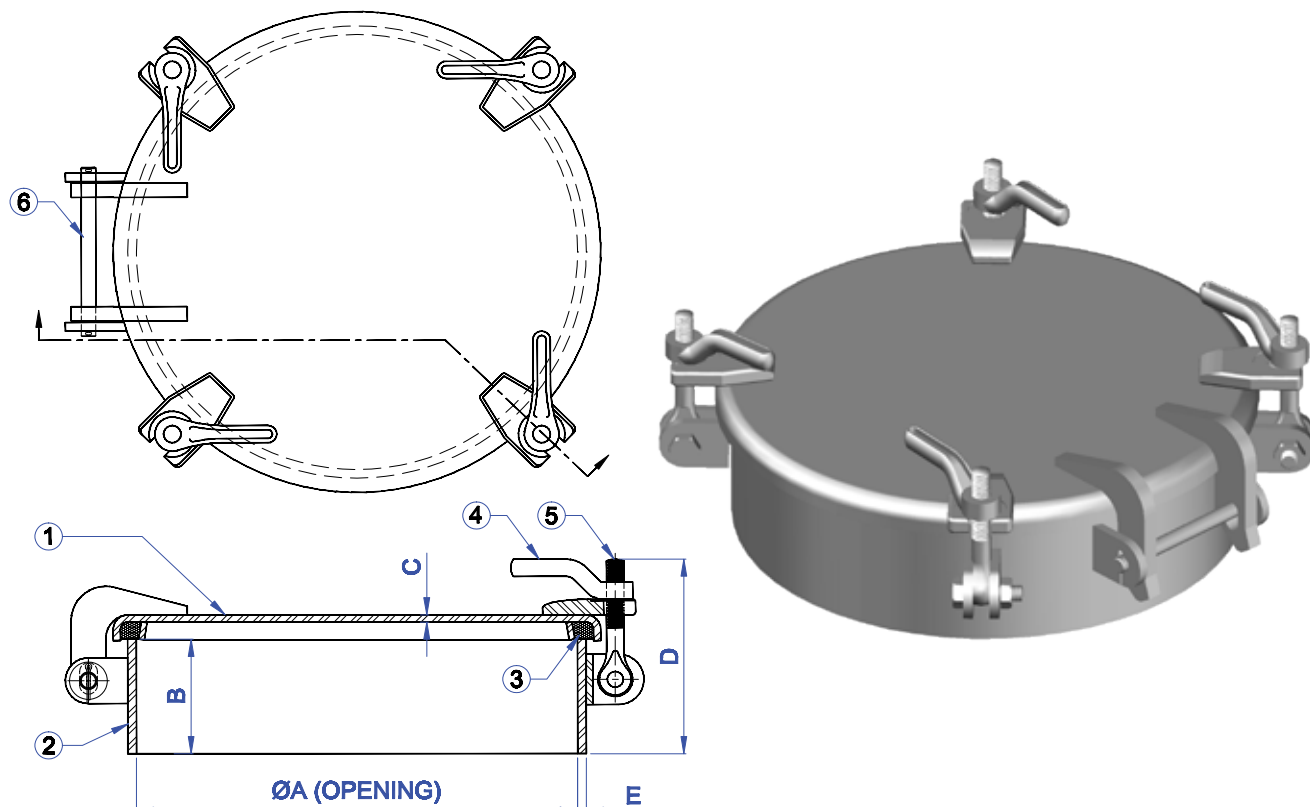


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4 DOG RAISED WATERTIGHT HATCH



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER ASSEMBLY	77895	STEEL
2	COAMING ASSEMBLY	75026	STEEL
3	GASKET	74497	NEOPRENE
4	DOG HANDLE	74837	IRON
5	TUMBLE BOLT	10774	BRONZE
6	HINGE PIN ASSEMBLY	75077	STAINLESS

MODEL No.	PART No.	SIZE	ØA	B	C	D	E	WT. (lbs.)
DF-343-5	74950	19"	19"	5"	5/16"	8-5/8"	3/8"	90

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.

3. TUMBLE BOLTS ALSO AVAILABLE IN STAINLESS.
4. DOG HANDLES ALSO AVAILABLE IN SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION, FLAME SCREENS AND CUSTOM COAMING HEIGHTS.

"Count the day won when, turning on its axis, this earth imposes no additional taxes."

—Franklin P. Adams

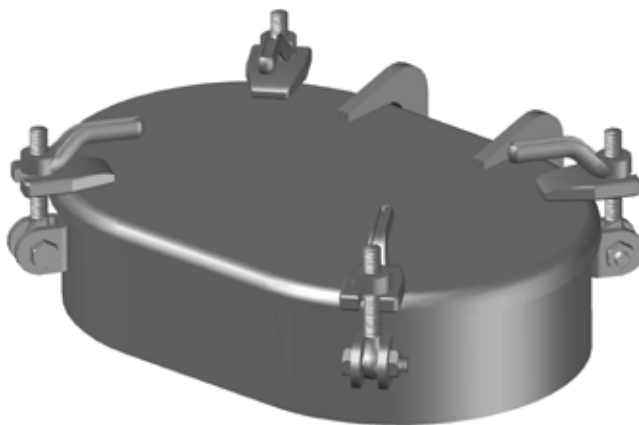
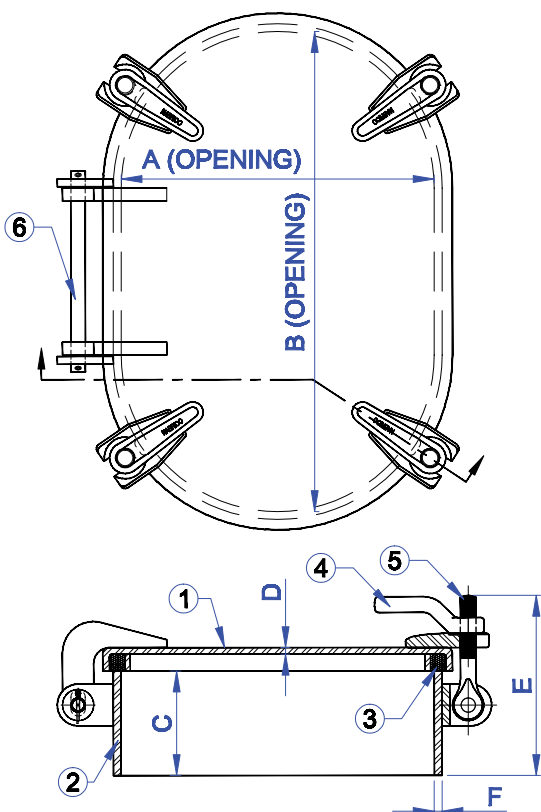
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4 DOG RAISED WATERTIGHT HATCH



PIECE No.	DESCRIPTION	PART No.		MATERIAL
		DF-174-5	DF-464-5	
1	COVER ASSEMBLY	77887	78484	STEEL
2	COAMING ASSEMBLY	74897	19551	STEEL
3	GASKET	74497	78530	NEOPRENE
4	DOG HANDLE	74837		IRON
5	TUMBLE BOLT	10774		BRONZE
6	HINGE PIN ASSEMBLY	73999	75077	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	WT. (lbs.)
DF-174-5	72451	15x23	15"	23"	5"	5/16"	8-5/8"	3/8"	95
DF-464-5	78514	18x24	18-1/4"	24-1/4"	5"	5/16"	8-5/8"	3/8"	105

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.

3. TUMBLE BOLTS ALSO AVAILABLE IN STAINLESS.
4. DOG HANDLES ALSO AVAILABLE IN SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION, FLAME SCREENS AND CUSTOM COAMING HEIGHTS.

"A wise man once said nothing."

—Anonymous

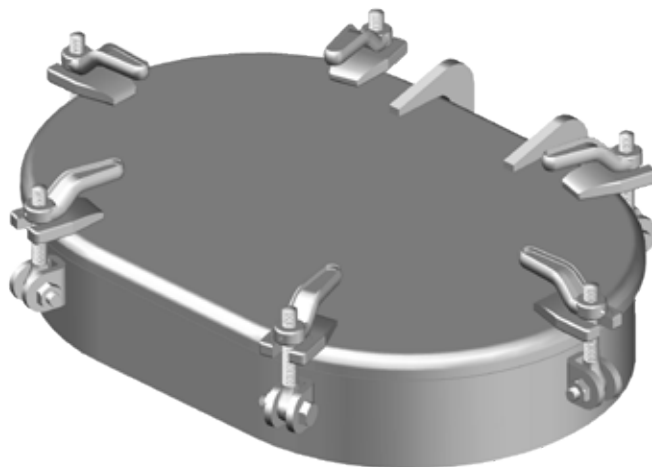
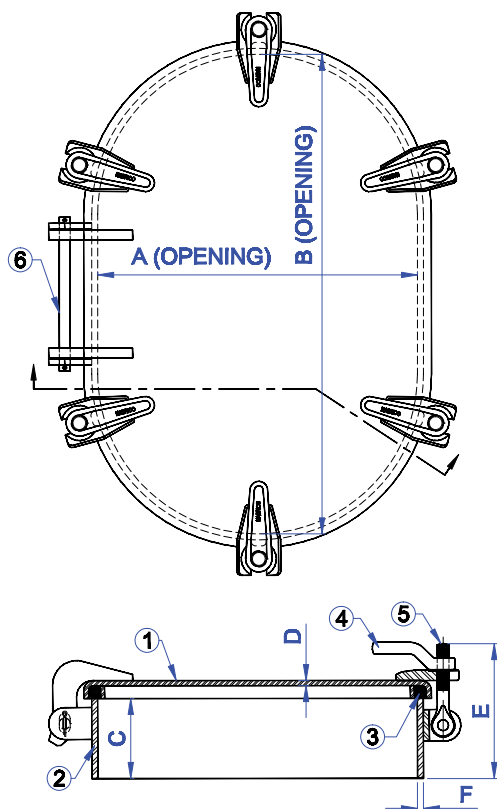


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6 DOG RAISED WATERTIGHT HATCH



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER ASSEMBLY	78478	STEEL
2	COAMING ASSEMBLY	78476	STEEL
3	GASKET	78479	NEOPRENE
4	DOG HANDLE	74837	IRON
5	TUMBLE BOLT	10774	BRONZE
6	HINGE PIN ASSEMBLY	78475	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	WT. (lbs.)
DF-686-5	78480	20x30	20"	30"	5"	5/16"	8-5/8"	3/8"	115

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.

3. TUMBLE BOLTS ALSO AVAILABLE IN STAINLESS.
4. DOG HANDLES ALSO AVAILABLE IN SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION, FLAME SCREENS AND CUSTOM COAMING HEIGHTS.

"A liberal is someone who feels a great debt to his fellow man, which debt he proposes to pay off with your money."

—G. Gordon Liddy

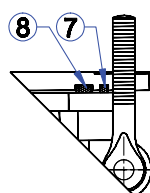
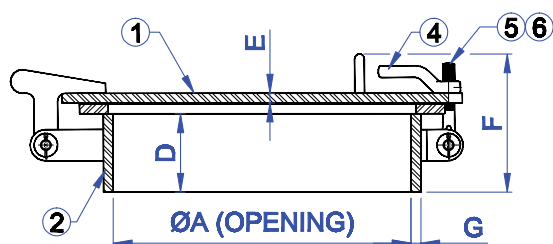
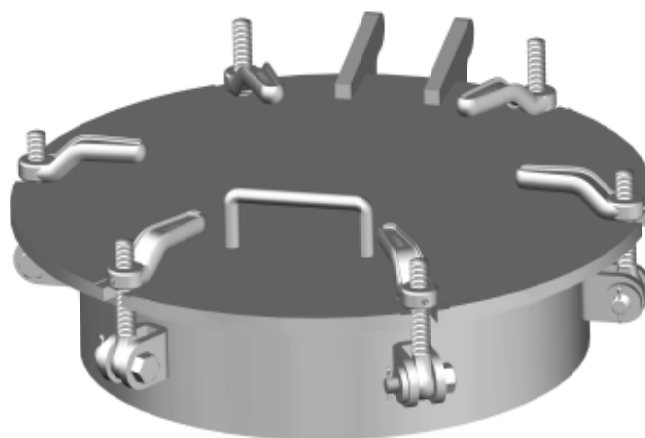
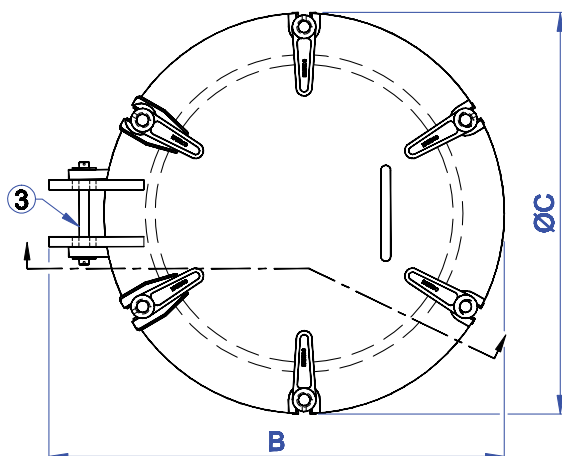
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6 DOG RAISED (6 PSI) ROUND HATCH



Gasket Detail

PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER ASSEMBLY	21211	STAINLESS
2	COAMING ASSEMBLY	21212	STAINLESS
3	HINGE PIN ASSEMBLY	21217	STAINLESS
4	DOG HANDLE W/ GREASE FITTING	74838	GALVANIZED
5	TUMBLE BOLT (QTY-4)	87939	STAINLESS
6	TUMBLE BOLT (QTY-2)	87938	STAINLESS
7	OUTER GASKET	21808*	VITON
8	INNER GASKET	21809*	TEFLON

MODEL No.	PART No.	SIZE	ØA	B	ØC	D	E	F	G	WT. (lbs.)
DF-346-5	21158	19"	19"	29"	25-5/8"	5"	5/8"	8-13/16"	5/8"	200

* Gasket sold separately from hatch.

"Now you are well served for coming to fight in favour of the American Rebels, all the way across the Atlantic Ocean, by catching that terrible Contagion — domestic felicity — which like the small pox or the plague, a man can have only once in his life: because it commonly lasts him (at least with us in America — I don't know how you manage these matters in France) for his whole life time."

—George Washington

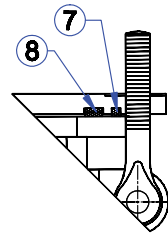
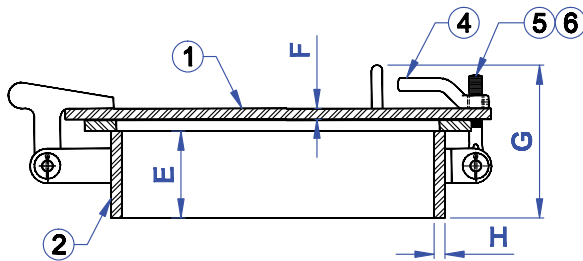
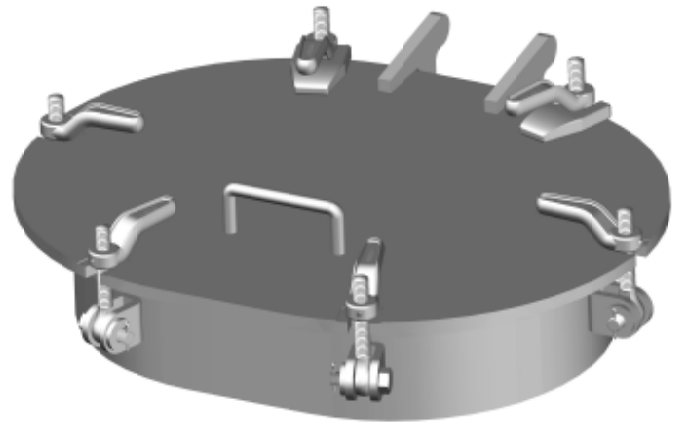
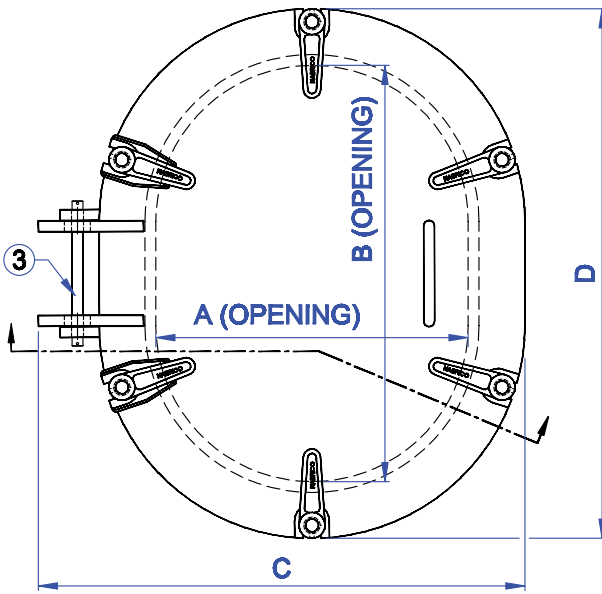


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6 DOG RAISED (6 PSI) OVAL HATCH



Gasket Detail

PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER ASSEMBLY	21213	STAINLESS
2	COAMING ASSEMBLY	21214	STAINLESS
3	HINGE PIN ASSEMBLY	21218	STAINLESS
4	DOG HANDLE W/ GREASE FITTING	74838	GALVANIZED
5	TUMBLE BOLT (QTY-4)	87939	STAINLESS
6	TUMBLE BOLT (QTY-2)	87938	STAINLESS
7	OUTER GASKET	21810*	VITON
8	INNER GASKET	21811*	TEFLON

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-466-5	21157	18x24	18"	24"	28"	30-1/2"	5"	5/8"	8-13/16"	5/8"	250

* Gasket sold separately from hatch.

"At Georgia Southern, we don't cheat. That costs money, and we don't have any."

—Erik Russell

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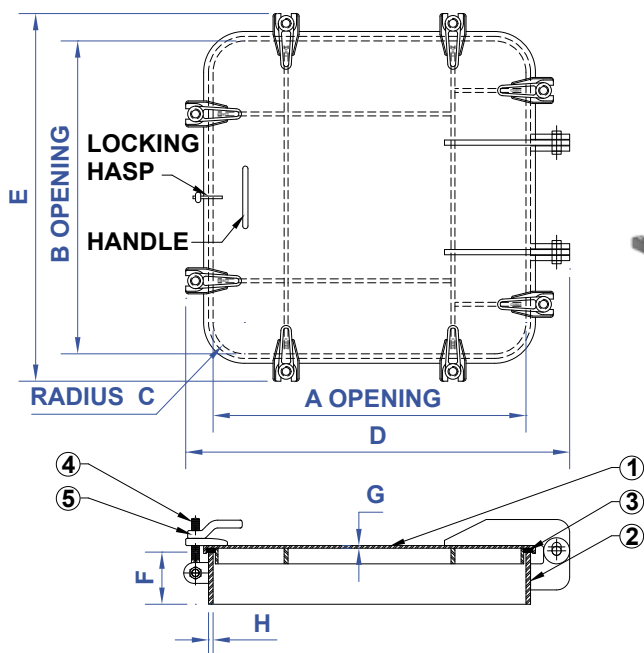
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BR

8 DOG RAISED WATERTIGHT HATCH



PIECE No.	DESCRIPTION	QTY	PART No.	MATERIAL
1	COVER ASSEMBLY	1	73974	STEEL
2	COAMING ASSEMBLY	1	73976	STEEL
3	GASKET	1	87760	NEOPRENE
4	TUMBLE BOLT	8	10774	BRASS
5	DOG HANDLE	8	17744	BRASS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-475-5	87742	30x30	30"	30"	3"	36-3/4"	35-1/4"	5"	1/4"	7/16"	220

1. GASKET INCLUDED WITH COVER ASSEMBLY.
2. OTHER GASKET MATERIALS AVAILABLE.

3. TUMBLE BOLTS ALSO AVAILABLE IN STAINLESS.
4. DOG HANDLES ALSO AVAILABLE IN SS, GALV'D OR BRONZE.

OTHER OPTIONAL EXTRAS INCLUDE: HOT DIPPED GALVANIZED, STAINLESS STEEL CONSTRUCTION, FLAME SCREENS AND CUSTOM COAMING HEIGHTS.

"Hitler knows that he will have to break us in this island or lose the war. If we can stand up to him, all Europe may be free and life of the world may move forward into broad, sunlit uplands. But if we fail, then the whole world, including the United States, including all that we have known and cared for, will sink into the abyss of a new Dark Age made more sinister, and perhaps more protracted, by the lights of perverted science. Let us therefore brace ourselves to our duties, and so bear ourselves that, if the British Empire and its Commonwealth lasts for a thousand years, men will say, 'This was their finest hour!'"

—Churchill

HATCHES



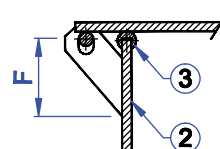
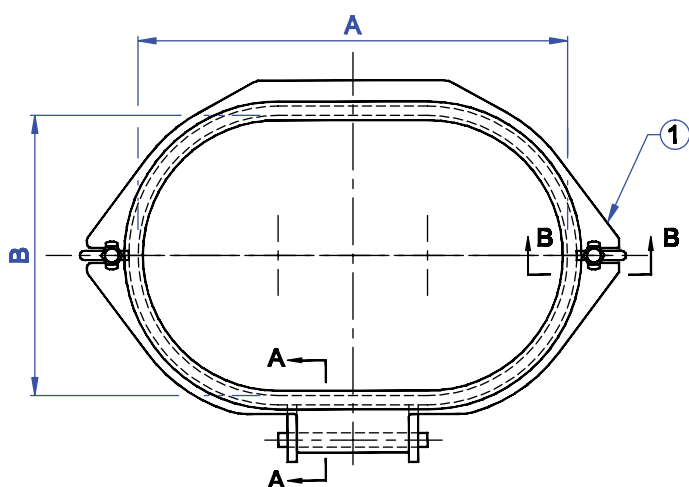
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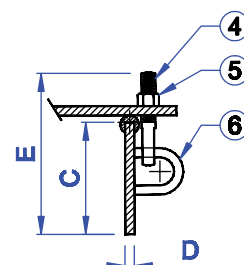
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TWO BOLT MANHOLE

BR



SECTION A-A



SECTION B-B

PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER ASSEMBLY	93394	STEEL
2	COAMING ASSEMBLY	93432	STEEL
3	GASKET	364	NEOPRENE
4	TUMBLE BOLT	10774	BRONZE
5	NUT	93386	STEEL
6	STAPLE	93459	STAINLESS STEEL

MODEL No.	PART No.	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-547-6	93289	26-5/8"	20-7/16"	23"	15"	6"	1/2"	1/2"	10-1/2"	120

1. OTHER GASKET MATERIAL AVAILABLE.

"Man is not like other animals in the ways that are really significant: animals have instincts, we have taxes."

—Erving Goffman

HATCHES

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“Our biggest concern this season will be diaper rash.”

—George MacIntyre

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