

SERVING THE MARINE INDUSTRY SINCE 1947



NABRICO PRODUCT LINE

WINCHES

NABRICO winches represent the expertise of people who know and understand the special needs of the towing industry. NABRICO's engineers incorporate over 100 years of experience in the river transportation industry in the development of both specialty and standard winch configurations. A winch designed and built by NABRICO assures you of quality and years of dependable service.



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POWER WINCHES



NABRICO offers a variety of options for your power winch needs. We have multiple options for mounting positions of winches and gearmotors. All of our powered winches except the DF-656 come standard with a galvanized finish and all stainless steel fasteners. NABRICO's power winches are the heaviest in their class and have a simple design that is field serviceable. NABRICO offers a power winch to fit your specific needs.

Winches portrayed in drawings, photographs and copy are not designed for lifting or lowering persons or equipment.

"If I were two-faced, would I be wearing this one?"

—Abraham Lincoln



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DF-1 UPRIGHT ELECTRIC WINCH



FEATURES

- Salt water package standard on all power winches.
- Hot-dipped galvanized.
- Stainless or silicon bronze fasteners.
- 3-ply conveyor belt covers (damage and corrosion resistant).
- 3-tooth locking dog with large release and fail-safe disc brake.
- Provisions for emergency manual operation.
- NEMA motor design with cycloidal gearbox available.
- Control box option: NEMA 4X polycarbonate.
- Minimal maintenance and easy to repair.
- Variable frequency drive option available (Amp draw limits, variable speeds and motor protection).
- Made as one model adjustable to true right or left hand models for use in pairs.
- Over 100 fewer parts than other electric winches (no chain or sprockets).
- Heaviest winch in its class.
- 30 Ton - 5 HP motor standard.
- 40 Ton - 7.5 HP motor standard.
- 50 Ton - 10 HP motor standard.
- 65 Ton - 10 HP motor standard.
- **Other line pulls and speeds available.**

MODEL No.	HOLDING DOG &/OR BRAKE	LINE PULL	LINE SPEED	DRUM CAPACITIES (FT)					WEIGHT	DIMENSIONAL DATA		
	S. TONS	LBS	FPM	1/2"	5/8"	3/4"	7/8"	1"	LBS	W	L	H
DF-1-30	30	REFER TO DF-1 LINE PULL AND SPEED OPTIONS TABLE		361	228	138	120	66	1700	20"	22"	55"
DF-1-40	40			-	287	180	130	100	1800	21"	24"	67"
DF-1-65	65			-	572	325	262	200	3200	24"	30"	79"
DF-1-100	100			-	572	325	262	200	3500	27-7/8"	30"	80-5/8"

"It is not from the benevolence of the butcher, the brewer, or the baker, that we expect our dinner, but from their regard to their own interest."

—Adam Smith

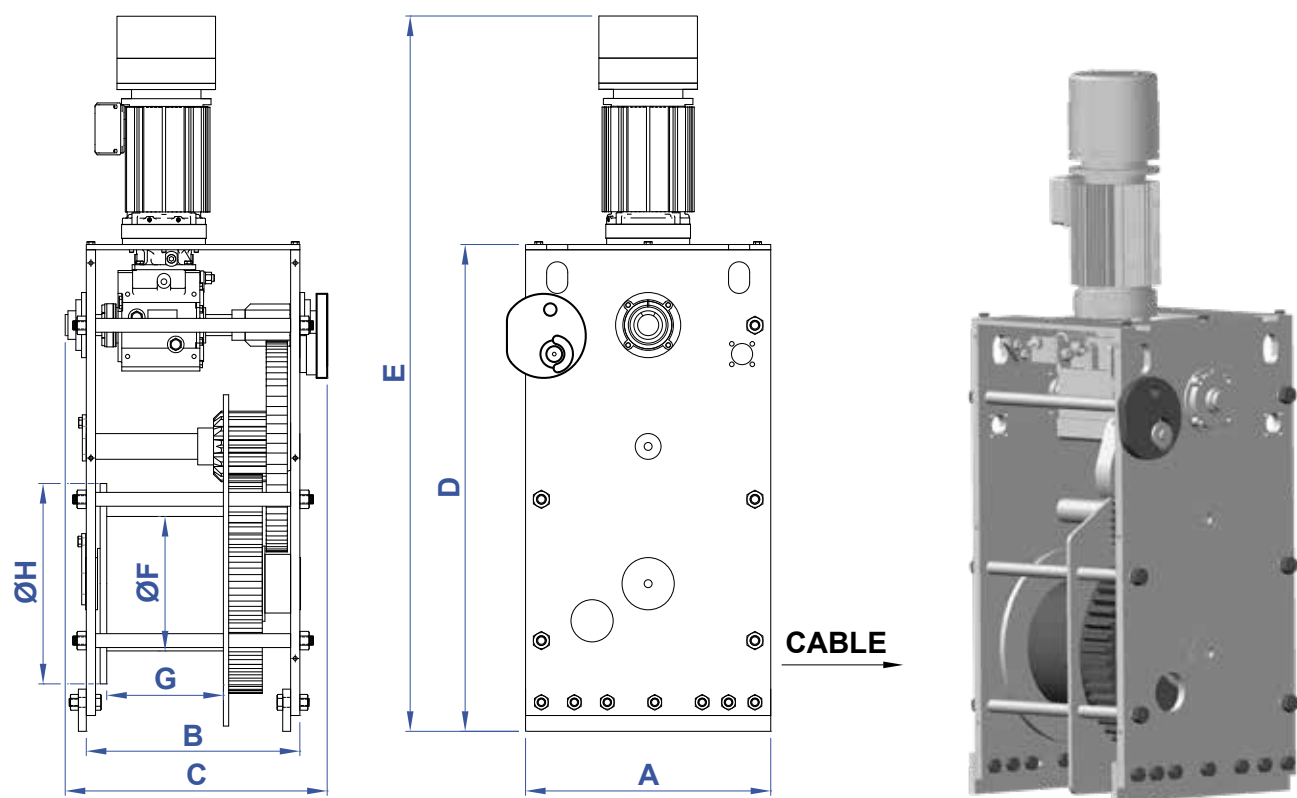
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30 TON UPRIGHT ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83627	83626

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-30	REFER TO COATINGS TABLE	22"	19-3/8"	23"	39"	57-1/2"	10-3/4"	11"	16"	1700

“Little else is requisite to carry a state to the highest degree of opulence from the lowest barbarism but peace, easy taxes, and a tolerable administration of justice: all the rest being brought about by the natural course of things.”

—Adam Smith



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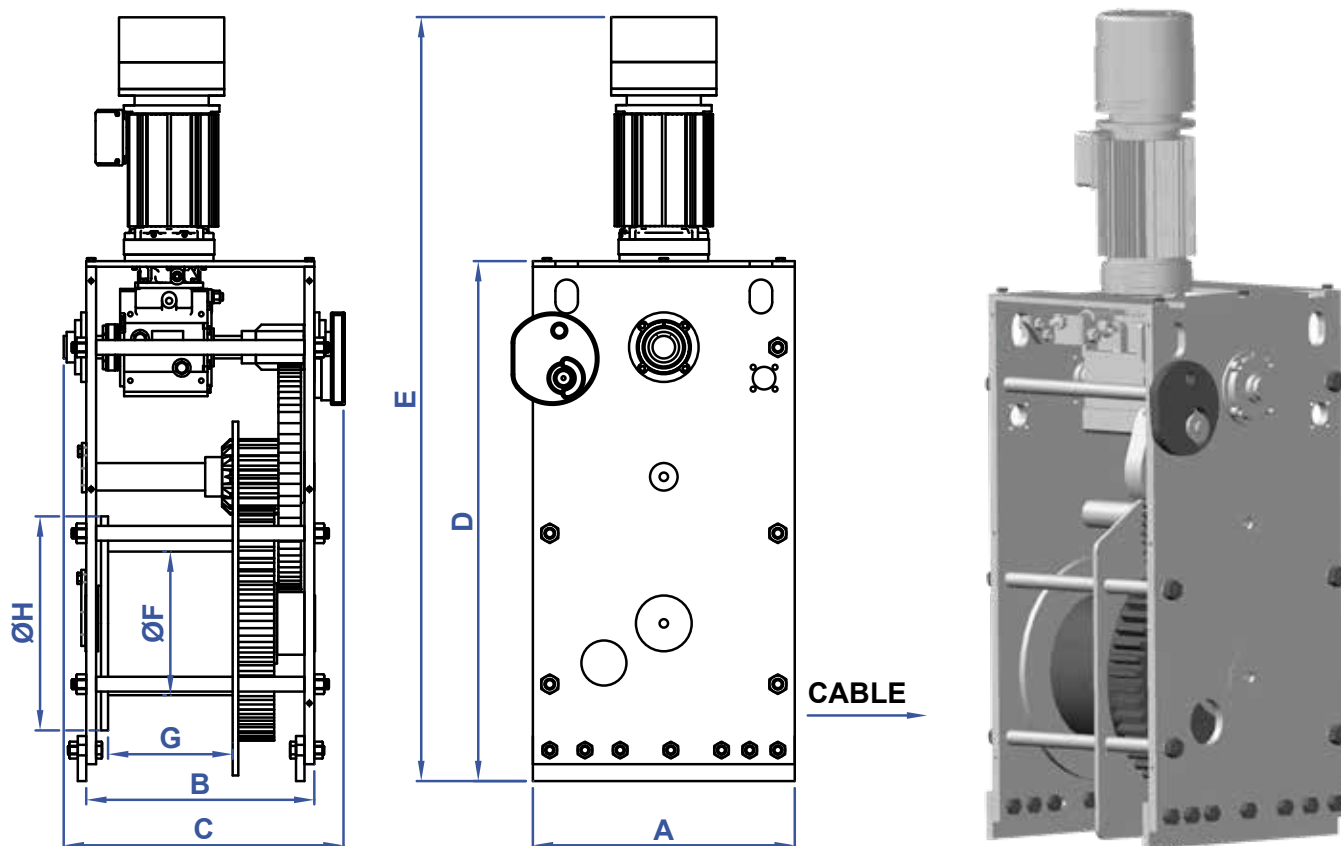
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40 TON UPRIGHT ELECTRIC WINCH

BR

WINCHES



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83611	83610

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-40	REFER TO COATINGS TABLE	23-1/4"	20-1/8"	24"	46-1/8"	70"	12-3/4"	11-1/4"	19"	1800

"They can't collect legal taxes from illegal money."

—Al Capone

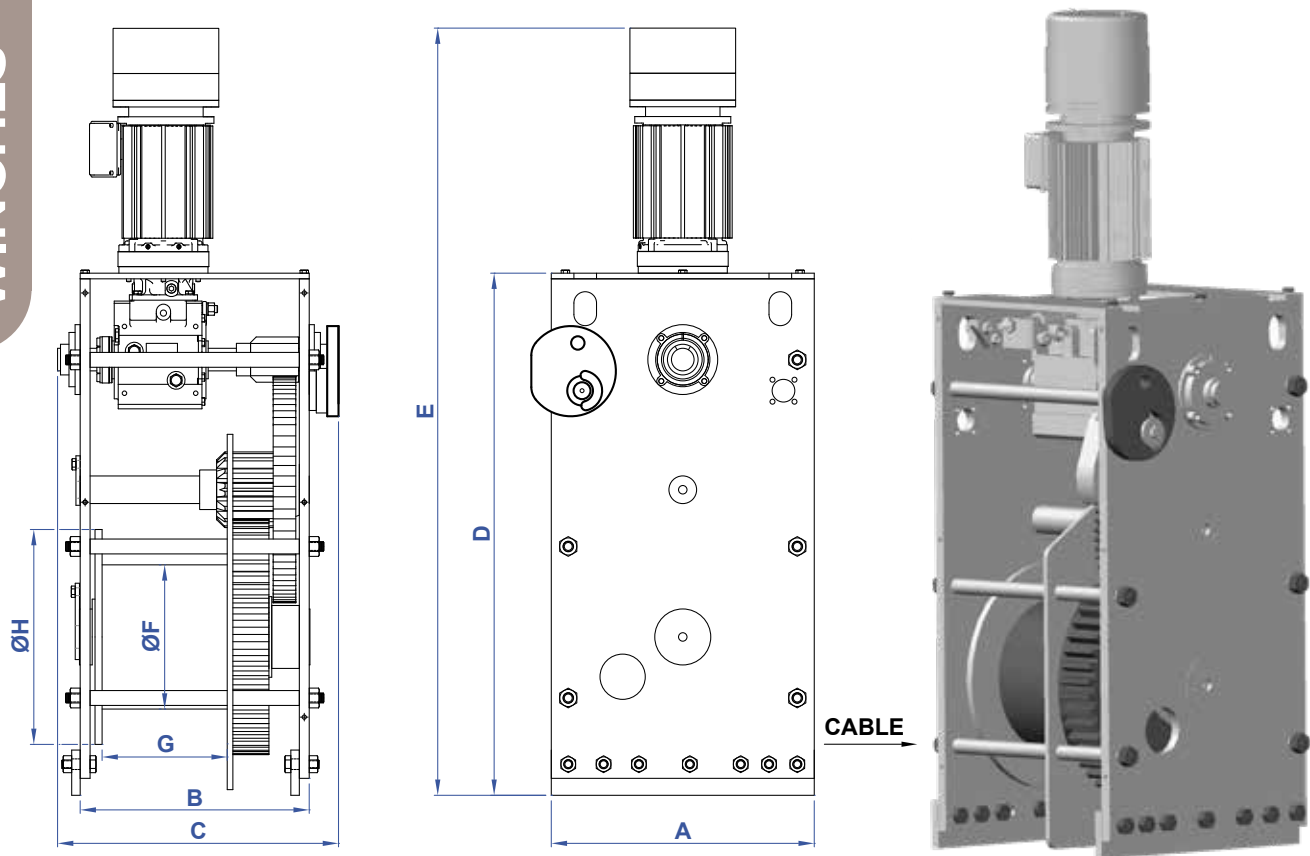
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65 TON UPRIGHT ELECTRIC WINCH



**RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE**

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83617	83616

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-65	REFER TO COATINGS TABLE	30"	23-1/8"	27"	55-1/2"	81"	14"	10-5/8"	24"	3200

"When I'm on the road, my greatest ambition is to get a standing boo."

—Al Hrabosky



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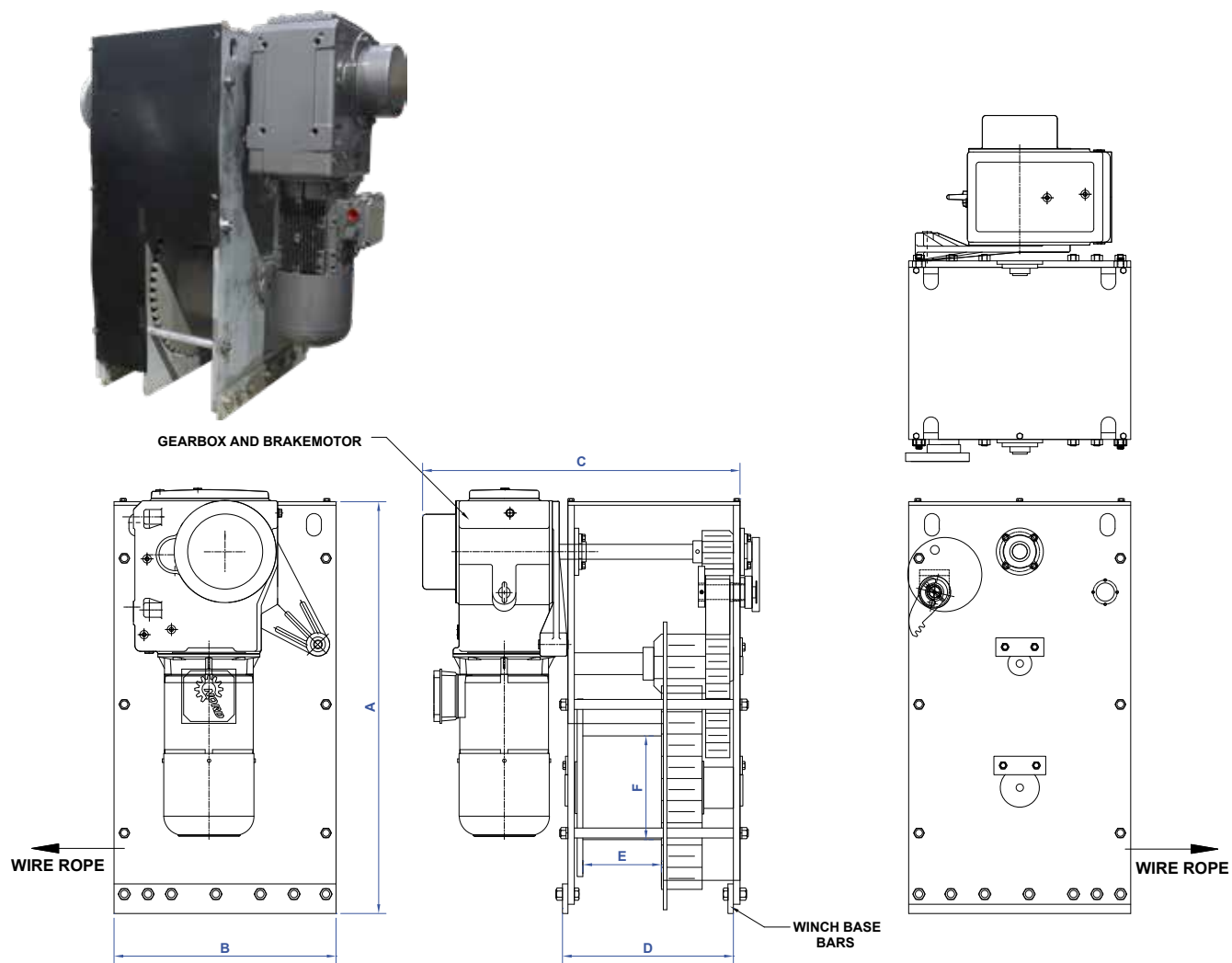
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100 TON UPRIGHT ELECTRIC WINCH

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WINCHES



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	80186	80185

MODEL No.	PART No.	A	B	C	D	E	ØF	WT. (lbs.)
DF-1-100	REFER TO COATINGS TABLE	55-11/6"	30"	42-7/8"	23-1/8"	10-5/8"	14"	3,367

"In the absence of the gold standard, there is no way to protect savings from confiscation through inflation. There is no safe store of value."

—Alan Greenspan

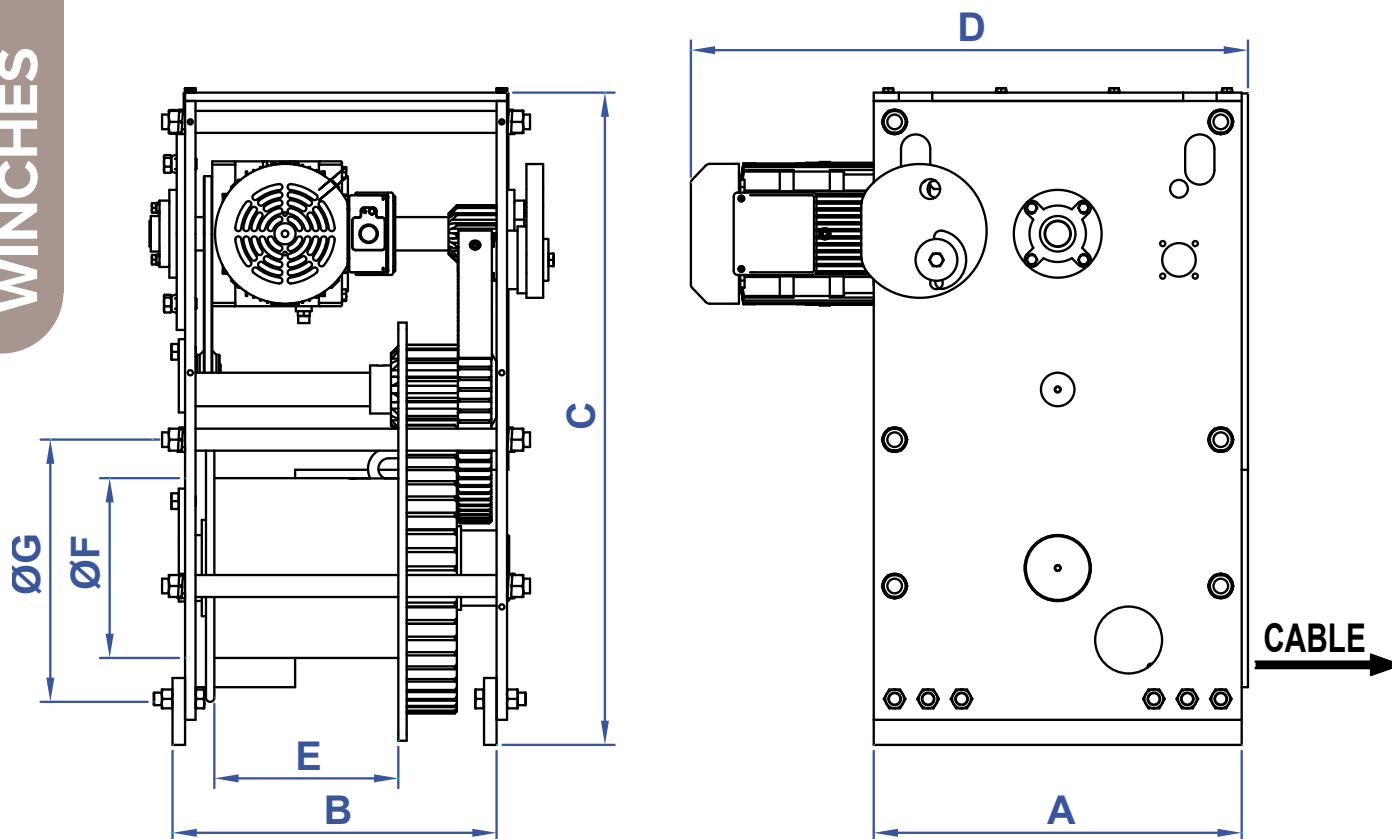
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30 TON HORIZONTAL ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83623	83622

MODEL No.	PART No.	A	B	C	D	E	ØF	ØG	WT. (lbs.)
DF-1-30	REFER TO COATINGS TABLE	22"	19-3/8"	39"	36"	11-1/4"	10-3/4"	16"	1700

"I guess I should warn you, if I turn out to be particularly clear, you've probably misunderstood what I've said."

—Alan Greenspan



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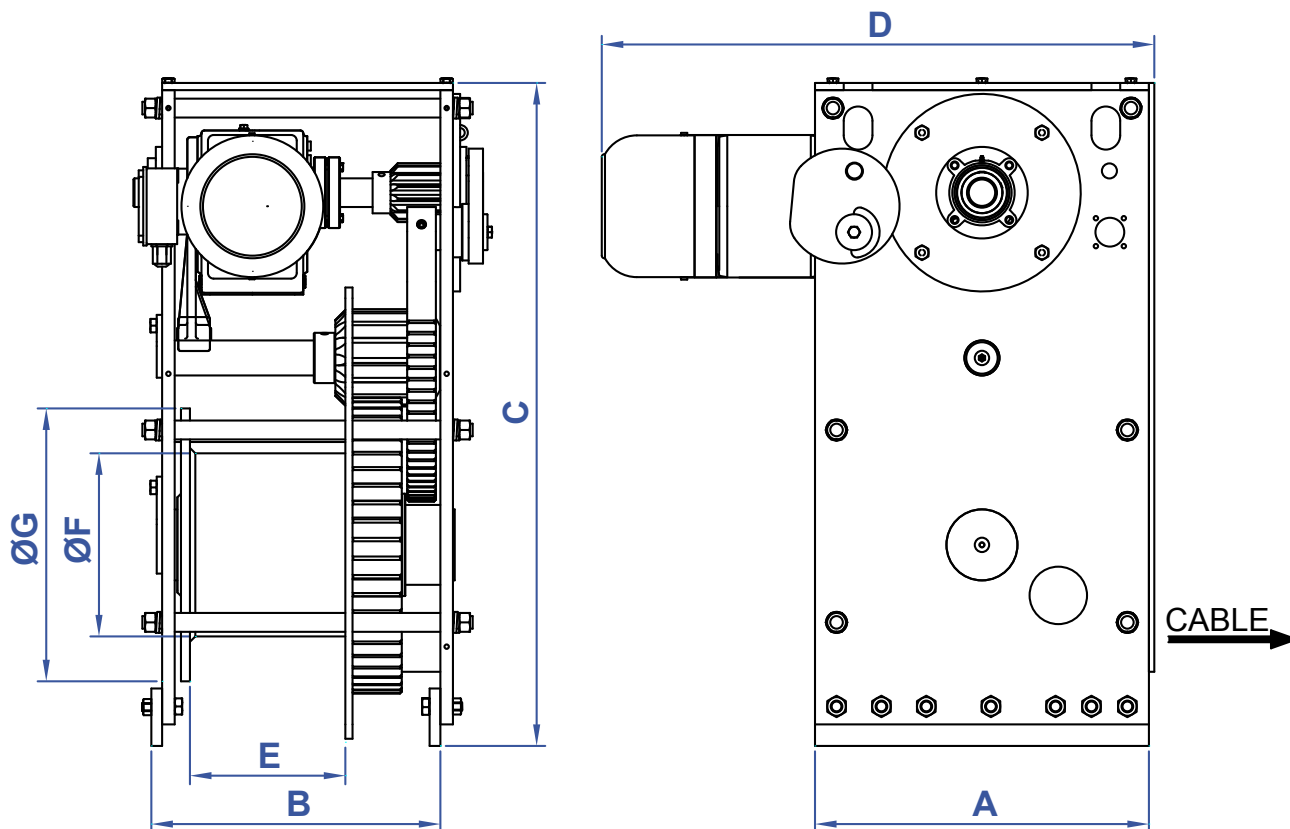
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40 TON HORIZONTAL ELECTRIC WINCH

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WINCHES



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83609	83608

MODEL No.	PART No.	A	B	C	D	E	ØF	ØG	WT. (lbs.)
DF-1-40	REFER TO COATINGS TABLE	23-1/4"	20-1/8"	46-1/8"	41"	11-1/4"	12-3/4"	19"	1800

"The true measure of a career is to be able to be content, even proud, that you succeeded through your own endeavors without leaving a trail of casualties in your wake."

—Alan Greenspan

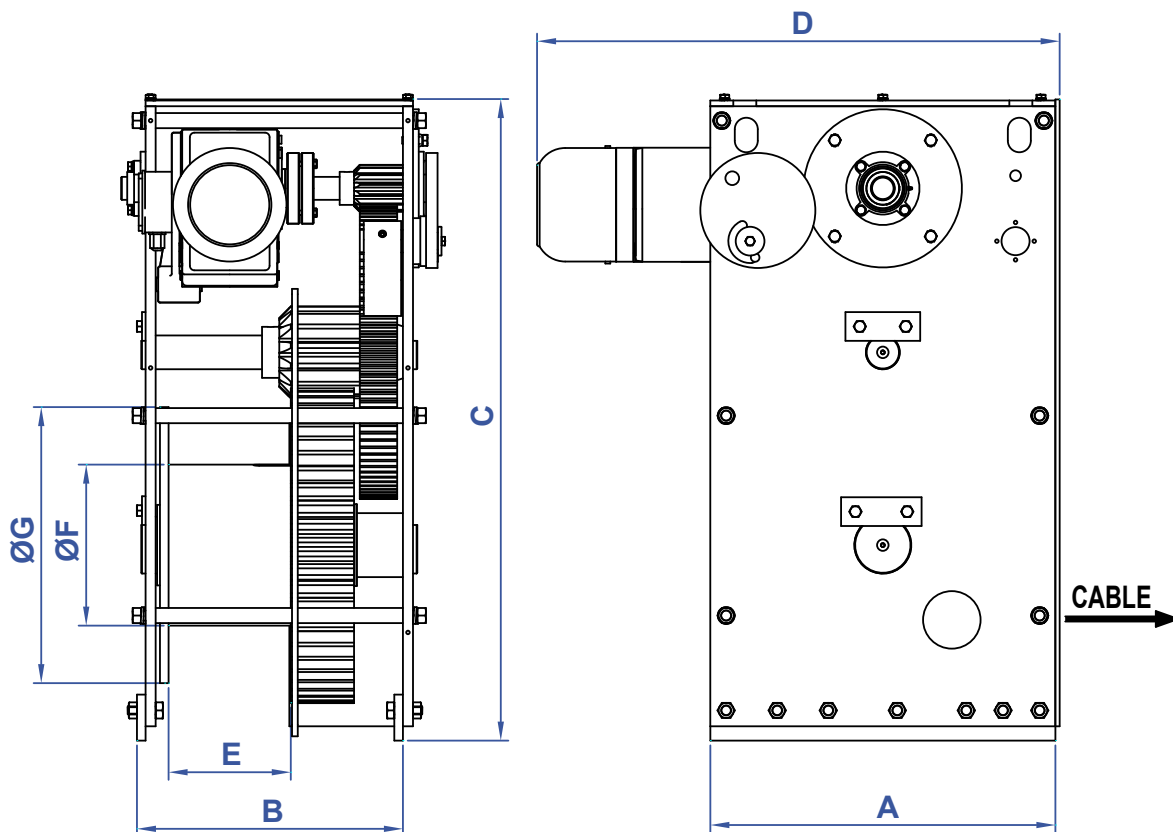
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65 TON HORIZONTAL ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83619	83618

MODEL No.	PART No.	A	B	C	D	E	ØF	ØG	WT. (lbs.)
DF-1-65	REFER TO COATINGS TABLE	30"	23-1/8"	55-1/2"	45-1/2"	10-5/8"	14"	24"	3200

"I was a good amateur but only an average professional. I soon realized that there was a limit to how far I could rise in the music business, so I left the band and enrolled at New York University."

—Alan Greenspan



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DF-1 LINE PULL AND SPEED OPTIONS

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WINCHES

MODEL	MOTOR SIZE (HP)	GEARBOX MODEL	GEARBOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-1-30	5	9032.1	23.91	60	11.1	14,131	42,394	64,427	60,000
DF-1-30	5	9022.1	22.41	60	11.8	13,245	39,734	60,385	60,000
DF-1-30	5	9032.1	20.23	60	13.1	11,956	35,869	54,511	60,000
DF-1-30	5	9022.1	19.93	60	13.3	11,779	35,337	53,702	60,000
DF-1-30	5	9022.1	17.52	60	15.1	10,355	31,064	47,209	60,000
DF-1-30	5	9032.1	17.08	60	15.5	10,095	30,284	46,023	60,000
DF-1-30	5	9022.1	16.3	60	16.3	9,634	28,901	43,921	60,000
DF-1-30	5	9032.1	15.73	60	16.9	9,297	27,890	42,385	60,000
DF-1-30	5	9022.1	14.56	60	18.2	8,605	25,816	39,233	60,000
DF-1-30	5	9032.1	13.49	60	19.7	7,973	23,919	36,350	60,000
DF-1-30	5	9032.1	12.68	60	20.9	7,494	22,482	34,167	60,000
DF-1-30	5	9022.1	12.51	60	21.2	7,394	22,181	33,709	60,000
DF-1-30	5	9022.1	11.13	60	23.8	6,578	19,734	29,990	60,000
DF-1-30	5	9032.1	10.73	60	24.7	6,342	19,025	28,913	60,000
DF-1-30	5	9032.1	8.48	60	31.3	5,012	15,036	22,850	60,000
DF-1-30	7.5	9032.1	8.48	100	31.3	7,518	22,553	38,083	60,000
DF-1-30	7.5	9032.1	10.73	100	24.7	9,512	28,537	48,188	60,000
DF-1-30	7.5	9032.1	12.68	100	20.9	11,241	33,724	56,945	60,000
DF-1-30	7.5	9032.1	13.49	100	19.7	11,959	35,878	60,583	60,000
DF-1-30	7.5	9032.1	15.73	60	16.9	13,945	41,835	42,385	60,000
DF-1-30	7.5	9032.1	17.08	60	15.5	15,142	45,426	46,023	60,000
DF-1-30	7.5	9032.1	20.23	60	13.1	17,934	53,803	54,511	60,000
DF-1-30	7.5	9032.1	23.91	60	11.1	21,197	63,591	64,427	60,000
DF-1-40	5	9032.1	23.91	60	13.2	11,915	35,744	54,960	80,000
DF-1-40	5	9022.1	22.41	60	14	11,167	33,501	51,512	80,000
DF-1-40	5	9032.1	20.23	60	15.5	10,081	30,242	46,501	80,000
DF-1-40	5	9022.1	19.93	60	15.8	9,931	29,794	45,811	80,000
DF-1-40	5	9022.1	17.52	60	18	8,730	26,191	40,272	80,000
DF-1-40	5	9032.1	17.08	60	18.4	8,511	25,533	39,260	80,000
DF-1-40	5	9022.1	16.3	60	19.3	8,122	24,367	37,467	80,000
DF-1-40	5	9032.1	15.73	60	20	7,838	23,515	36,157	80,000
DF-1-40	5	9022.1	14.56	60	21.6	7,255	21,766	33,468	80,000

■ - INDICATES STANDARD MODEL

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DF-1 LINE PULL AND SPEED OPTIONS

MODEL	MOTOR SIZE (HP)	GEARBOX MODEL	GEARBOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-1-40	5	9032.1	13.49	60	23.3	6,722	20,167	31,008	80,000
DF-1-40	5	9032.1	12.68	60	24.8	6,319	18,956	29,146	80,000
DF-1-40	5	9022.1	12.51	60	25.1	6,234	18,702	28,756	80,000
DF-1-40	5	9022.1	11.13	60	28.3	5,546	16,639	25,584	80,000
DF-1-40	5	9032.1	10.73	60	29.3	5,347	16,041	24,664	80,000
DF-1-40	5	9032.1	8.48	60	37.1	4,226	12,677	19,492	80,000
DF-1-40	7.5	9032.1	23.91	100	13.2	17,872	53,616	91,600	80,000
DF-1-40	7.5	9042.1	23.89	100	13.2	17,857	53,571	91,523	80,000
DF-1-40	7.5	9042.1	20.32	100	15.5	15,189	45,566	77,846	80,000
DF-1-40	7.5	9032.1	20.23	100	15.5	15,121	45,364	77,501	80,000
DF-1-40	7.5	9042.1	18.2	100	17.3	13,604	40,812	69,724	80,000
DF-1-40	7.5	9032.1	17.08	100	18.4	12,767	38,300	65,434	80,000
DF-1-40	7.5	9032.1	15.73	100	20	11,758	35,273	60,262	80,000
DF-1-40	7.5	9042.1	15.66	100	20.1	11,705	35,116	59,994	80,000
DF-1-40	7.5	9032.1	13.49	100	23.3	10,083	30,250	51,680	80,000
DF-1-40	7.5	9042.1	13.4	100	23.5	10,016	30,048	51,336	80,000
DF-1-40	7.5	9032.1	12.68	100	24.8	9,478	28,434	48,577	80,000
DF-1-40	7.5	9032.1	10.73	100	29.3	8,020	24,061	41,107	80,000
DF-1-40	7.5	9032.1	8.48	100	37.1	6,339	19,016	32,487	80,000
DF-1-40	10	9042.1	20.32	100	15.5	20,251	60,754	77,846	80,000
DF-1-40	10	9042.1	18.2	100	17.3	18,139	54,416	69,724	80,000
DF-1-40	10	9042.1	15.66	100	20.1	15,607	46,821	59,994	80,000
DF-1-40	10	9042.1	13.4	100	23.5	13,355	40,064	51,336	80,000
DF-1-40	10	9042.1	11.4	100	27.6	11,361	34,084	43,674	80,000
DF-1-40	10	9042.1	10.21	100	30.8	10,176	30,527	39,115	80,000
DF-1-40	10	9042.1	9.39	100	33.5	9,358	28,075	35,973	80,000
DF-1-40	10	9042.1	8.83	100	35.6	8,800	26,400	33,828	80,000
DF-1-65	7.5	9042.1	27.91	60	8.5	27,624	82,872	77,364	130,000
DF-1-65	7.5	9042.1	23.89	60	9.9	23,645	70,935	66,221	130,000
DF-1-65	7.5	9042.1	20.23	60	11.7	20,023	60,068	56,076	130,000
DF-1-65	7.5	9042.1	18.2	60	13.1	18,013	54,040	50,449	130,000
DF-1-65	7.5	9042.1	15.66	60	15.2	15,499	46,498	43,408	130,000



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DF-1 LINE PULL AND SPEED OPTIONS

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MODEL	MOTOR SIZE (HP)	GEARBOX MODEL	GEARBOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-1-65	7.5	9042.1	13.4	60	17.7	13,263	39,788	37,144	130,000
DF-1-65	10	9042.1	27.91	100	8.5	36,832	110,496	128,941	130,000
DF-1-65	10	9042.1	23.89	100	9.9	31,527	94,580	110,369	130,000
DF-1-65	10	9042.1	20.32	100	11.7	26,816	80,447	93,876	130,000
DF-1-65	10	9042.1	18.2	100	13.1	24,018	72,054	84,082	130,000
DF-1-65	10	9042.1	15.66	100	15.2	20,666	61,998	72,347	130,000
DF-1-65	10	9042.1	13.4	100	17.7	17,684	53,051	61,906	130,000
DF-1-65	10	9042.1	11.4	100	20.8	15,044	45,133	52,667	130,000
DF-1-65	10	9042.1	10.21	100	23.3	13,474	40,421	47,169	130,000
DF-1-65	10	9042.1	9.39	100	25.3	12,392	37,175	43,381	130,000
DF-1-65	10	9042.1	8.83	100	26.9	11,653	34,958	40,793	130,000
DF-1-65	15	9042.1	27.91	100	8.5	55,248	165,743	128,941	130,000
DF-1-65	15	9042.1	23.89	100	9.9	47,290	141,871	110,369	130,000
DF-1-65	15	9042.1	20.32	100	11.7	40,223	120,670	93,876	130,000
DF-1-65	15	9052.1	19.91	150	11.9	39,412	118,236	137,972	130,000
DF-1-65	15	9042.1	18.2	150	13.1	36,027	108,081	126,122	130,000
DF-1-65	15	9052.1	17.94	150	13.2	35,512	106,537	124,321	130,000
DF-1-65	15	9052.1	16.33	150	14.5	32,325	96,976	113,164	130,000
DF-1-65	15	9042.1	15.66	150	15.2	30,999	92,997	108,521	130,000
DF-1-65	15	9052.1	13.45	150	17.7	26,624	79,873	93,206	130,000
DF-1-65	15	9042.1	13.4	150	17.7	26,525	79,576	92,859	130,000
DF-1-65	15	9052.1	11.88	250	20	23,516	70,549	137,210	130,000
DF-1-65	15	9042.1	11.4	250	20.8	22,566	67,699	131,666	130,000
DF-1-65	15	9052.1	10.71	250	22.2	21,200	63,601	123,697	130,000
DF-1-65	15	9042.1	10.21	250	23.3	20,211	60,632	117,922	130,000
DF-1-65	15	9052.1	9.93	250	23.9	19,656	58,969	114,688	130,000
DF-1-65	15	9052.1	9.4	250	25.3	18,607	55,822	108,567	130,000
DF-1-65	15	9042.1	9.39	250	25.3	18,588	55,763	108,451	130,000
DF-1-65	15	9042.1	8.83	250	26.9	17,479	52,437	101,984	130,000
DF-1-65	15	9052.1	8.1	250	29.3	16,034	48,102	93,552	130,000
DF-1-100	15	9072.1	35.19	250	10	47,200	141,600	200,000	200,000

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DF-656 ELECTRIC WINCH

FEATURES

- Free-wheeling cable pull out.
- Handwheel provision for manual operation.
- Oversized sprockets and chain.
- Inverter/vector duty marine double coated epoxy dipped motor.
- Moisture resistant varnish dipped motor windings with tropical protection.
- Insulation system conforms NEMA MG1-1998, section 31.4.4.2.
- Mechanical locking dog.
- Minimal maintenance.
- Precision machined side plates, gears and shafts to maintain proper gear tooth engagement and minimize wear.
- Winch blasted near-white with a 3-part marine grade epoxy paint standard.
- Gearmotor painted with aliphatic polyurethane paint with 316 stainless steel flake and is very corrosion resistant.
- Galvanized coating in stock.



MODEL No.	LINE SPEED (FPM)	LINE PULL (LBS)	DOG HOLDING (LBS)	DRUM CAPACITIES (FT)				DIMENSIONAL DATA			WT.
				5/8"	3/4"	7/8"	1"	W	L	H	(lbs.)
DF-656-40	REFER TO DF-656 LINE PULL AND SPEED OPTIONS TABLE		80,000	287	180	130	100	27-3/4"	41-1/2"	39-1/4"	2,040
DF-656-65			120,000	572	325	262	200	30-3/4"	54"	46-1/2"	3,100

"To succeed, you will soon learn, as I did, the importance of a solid foundation in the basics of education - literacy, both verbal and numerical, and communication skills."

—Alan Greenspan

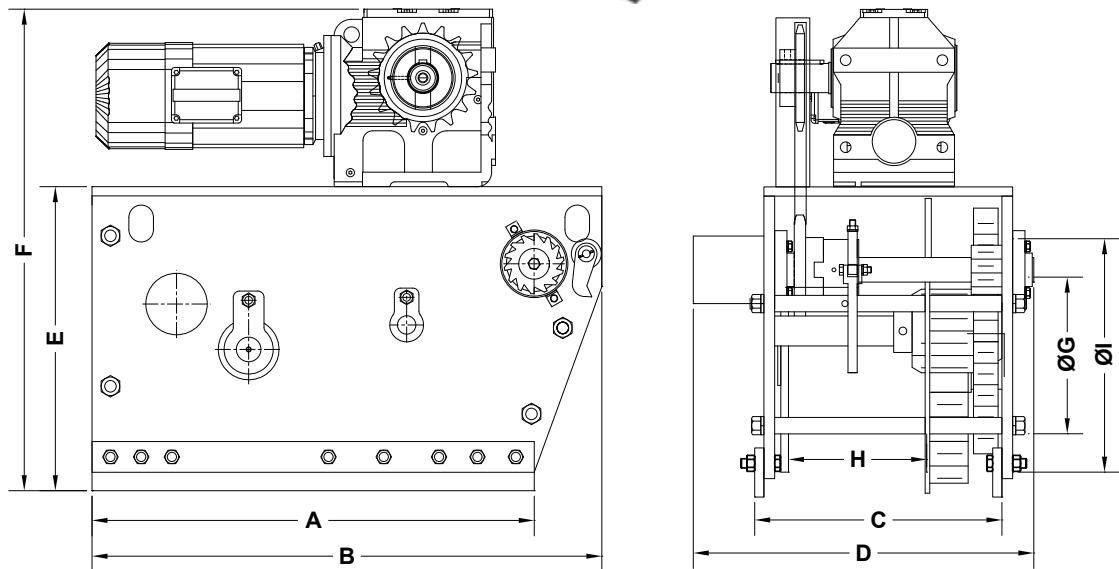
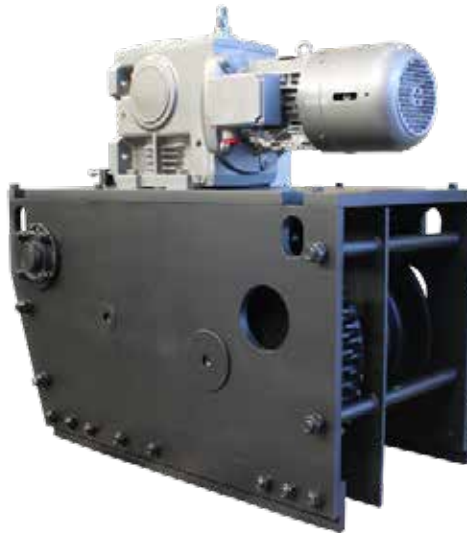


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DF-656 ELECTRIC WINCH



COATINGS	UNIVERSAL
PAINTED	65600
GALVANIZED	65603

MODEL No.	PART No.	A	B	C	D	E	F	ØG	H	ØI	WT. (lbs.)
DF-656-40-E	REFER TO COATINGS TABLE	36"	41-1/2"	20-1/8"	27-3/4"	24-3/4"	39-1/4"	12-3/4"	11-1/4"	19"	2040

"Whatever you tax, you get less of."

—Alan Greenspan

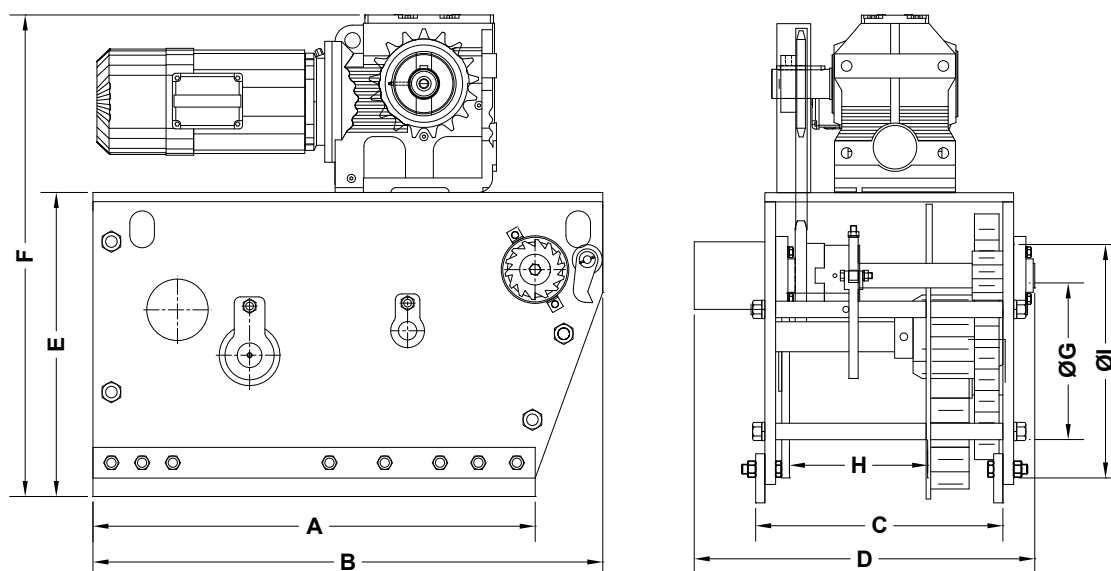
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DF-656 ELECTRIC WINCH



MODEL No.	A	B	C	D	E	F	ØG	H	ØI
DF-656-65-E	47"	54"	23-1/8"	30-3/4"	32"	46-1/2"	14"	10-5/8"	24"

"Anything that we can do to raise personal savings is very much in the interest of this country."

—Alan Greenspan



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DF-656 LINE PULL AND SPEED OPTIONS

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WINCHES

MODEL	MOTOR SIZE (HP)	GEAR-BOX MODEL	GEAR-BOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-656-40	5	SK 42125	31.82	40	9.3	15,074	45,222	57,904	80,000
DF-656-40	5	SK 42125	31.82	60	9.3	15,074	45,222	86,856	80,000
DF-656-40	5	SK 42125	25.83	40	11.5	12,236	36,709	47,004	80,000
DF-656-40	5	SK 42125	25.83	60	11.5	12,236	36,709	70,505	80,000
DF-656-40	5	SK 42125	22.11	40	13.4	10,474	31,422	40,234	80,000
DF-656-40	5	SK 42125	22.11	60	13.4	10,474	31,422	60,351	80,000
DF-656-40	5	SK 42125	18.80	40	15.7	8,906	26,718	34,211	80,000
DF-656-40	5	SK 42125	18.80	60	15.7	8,906	26,718	51,316	80,000
DF-656-40	5	SK 42125	15.92	40	18.6	7,542	22,625	28,970	80,000
DF-656-40	5	SK 42125	15.92	60	18.6	7,542	22,625	43,455	80,000
DF-656-40	5	SK 42125	12.93	40	22.9	6,125	18,376	23,529	80,000
DF-656-40	5	SK 42125	12.93	60	22.9	6,125	18,376	35,294	80,000
DF-656-40	7.5	SK 42125	25.83	60	11.5	12,236	36,709	70,505	80,000
DF-656-40	7.5	SK 42125	25.83	100	11.5	12,236	36,709	117,509	80,000
DF-656-40	7.5	SK 42125	22.11	60	13.4	10,474	31,422	60,351	80,000
DF-656-40	7.5	SK 42125	18.8	60	15.7	8,906	26,718	51,316	80,000
DF-656-40	7.5	SK 42125	18.8	100	15.7	8,906	26,718	85,527	80,000
DF-656-40	7.5	SK 42125	15.92	60	18.6	7,542	22,625	43,455	80,000
DF-656-40	7.5	SK 42125	15.92	100	18.6	7,542	22,625	72,425	80,000
DF-656-40	7.5	SK 42125	14.57	60	20.3	6,902	20,706	39,770	80,000
DF-656-40	7.5	SK 42125	14.57	100	20.3	6,902	20,706	66,284	80,000
DF-656-40	7.5	SK 42125	12.93	60	22.9	6,125	18,376	35,294	80,000
DF-656-40	7.5	SK 42125	12.93	100	22.9	6,125	18,376	58,823	80,000
DF-656-40	7.5	SK 42125	11.06	60	26.8	5,239	15,718	30,189	80,000
DF-656-40	7.5	SK 42125	11.06	100	26.8	5,239	15,718	50,316	80,000
DF-656-40	7.5	SK 42125	9.41	60	31.5	4,458	13,373	25,686	80,000
DF-656-40	7.5	SK 42125	9.41	100	31.5	4,458	13,373	42,809	80,000
DF-656-40	10	SK 42125	22.11	60	13.4	10,474	31,422	60,351	80,000
DF-656-40	10	SK 42125	18.8	60	15.7	8,906	26,718	51,316	80,000
DF-656-40	10	SK 42125	15.92	60	18.6	7,542	22,625	43,455	80,000
DF-656-40	10	SK 42125	15.92	100	18.6	7,542	22,625	72,425	80,000
DF-656-40	10	SK 42125	14.57	60	20.3	6,902	20,706	39,770	80,000
DF-656-40	10	SK 42125	14.57	100	20.3	6,902	20,706	66,284	80,000
DF-656-40	10	SK 42125	12.93	60	22.9	6,125	18,376	35,294	80,000
DF-656-40	10	SK 42125	12.93	100	22.9	6,125	18,376	58,823	80,000
DF-656-65	7.5	SK 42125	25.83	60	8.7	24,304	72,911	85,024	120,000
DF-656-65	7.5	SK 42125	22.11	60	10.1	20,804	62,411	72,779	120,000
DF-656-65	7.5	SK 42125	22.11	100	10.1	20,804	62,411	121,298	120,000
DF-656-65	7.5	SK 42125	18.80	60	11.9	17,689	53,068	61,883	120,000

■ - INDICATES STANDARD MODEL

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DF-656 LINE PULL AND SPEED OPTIONS

MODEL	MOTOR SIZE (HP)	GEAR-BOX MODEL	GEAR-BOX RATIO	BRAKE TORQUE (N-M)	LINE SPEED (FPM)	RATED LINE PULL (LBS)	STALL PULL (300%)	EST. BRAKE HOLDING (LBS)	DOG HOLDING (LBS)
DF-656-65	7.5	SK 42125	18.80	100	11.9	17,689	53,068	103,139	120,000
DF-656-65	7.5	SK 42125	15.92	60	14.0	14,979	44,938	52,403	120,000
DF-656-65	7.5	SK 42125	15.92	100	14.0	14,979	44,938	87,339	120,000
DF-656-65	7.5	SK 42125	14.57	60	15.3	13,709	41,127	47,959	120,000
DF-656-65	7.5	SK 42125	14.57	100	15.3	13,709	41,127	79,932	120,000
DF-656-65	7.5	SK 42125	12.93	60	17.3	12,166	36,498	42,561	120,000
DF-656-65	7.5	SK 42125	12.93	100	17.3	12,166	36,498	70,935	120,000
DF-656-65	10	SK 42125	25.83	60	8.7	24,304	72,911	85,024	120,000
DF-656-65	10	SK 42125	25.83	100	8.7	24,304	72,911	141,706	120,000
DF-656-65	10	SK 42125	22.11	60	10.1	20,804	62,411	72,779	120,000
DF-656-65	10	SK 42125	22.11	100	10.1	20,804	62,411	121,298	120,000
DF-656-65	10	SK 42125	18.8	60	11.9	17,689	53,068	61,883	120,000
DF-656-65	10	SK 42125	18.8	100	11.9	17,689	53,068	103,139	120,000
DF-656-65	10	SK 42125	15.92	60	14.0	14,979	44,938	52,403	120,000
DF-656-65	10	SK 42125	15.92	100	14.0	14,979	44,938	87,339	120,000
DF-656-65	10	SK 42125	14.57	60	15.3	13,709	41,127	47,959	120,000
DF-656-65	10	SK 42125	14.57	100	15.3	13,709	41,127	79,932	120,000
DF-656-65	10	SK 42125	12.93	60	17.3	12,166	36,498	42,561	120,000
DF-656-65	10	SK 42125	12.93	100	17.3	12,166	36,498	70,935	120,000
DF-656-65	10	SK 42125	11.06	60	20.2	10,407	31,220	36,406	120,000
DF-656-65	10	SK 42125	11.06	100	20.2	10,407	31,220	60,676	120,000
DF-656-65	10	SK 42125	9.41	60	23.8	8,854	26,562	30,975	120,000
DF-656-65	10	SK 42125	9.41	100	23.8	8,854	26,562	51,624	120,000
DF-656-65	15	SK 42125	22.11	100	10.1	20,804	62,411	121,298	120,000
DF-656-65	15	SK 42125	18.8	100	11.9	17,689	53,068	103,139	120,000
DF-656-65	15	SK 42125	15.92	100	14.0	14,979	44,938	87,339	120,000
DF-656-65	15	SK 42125	15.92	150	14.0	14,979	44,938	131,008	120,000
DF-656-65	15	SK 42125	14.57	100	15.3	13,709	41,127	79,932	120,000
DF-656-65	15	SK 42125	14.57	150	15.3	13,709	41,127	119,899	120,000
DF-656-65	15	SK 42125	12.93	100	17.3	12,166	36,498	70,935	120,000
DF-656-65	15	SK 42125	12.93	150	17.3	12,166	36,498	106,403	120,000
DF-656-65	15	SK 42125	11.06	100	20.2	10,407	31,220	60,676	120,000
DF-656-65	15	SK 42125	11.06	150	20.2	10,407	31,220	91,014	120,000
DF-656-65	15	SK 42125	9.41	100	23.8	8,854	26,562	51,624	120,000
DF-656-65	15	SK 42125	9.41	150	23.8	8,854	26,562	77,436	120,000
DF-656-65	15	SK 42125	8.43	100	26.5	7,932	23,796	46,248	120,000
DF-656-65	15	SK 42125	8.43	150	26.5	7,932	23,796	69,372	120,000
DF-656-65	15	SK 42125	7.76	100	28.8	7,301	21,904	42,572	120,000
DF-656-65	15	SK 42125	7.76	150	28.8	7,301	21,904	63,858	120,000

■ - INDICATES STANDARD MODEL

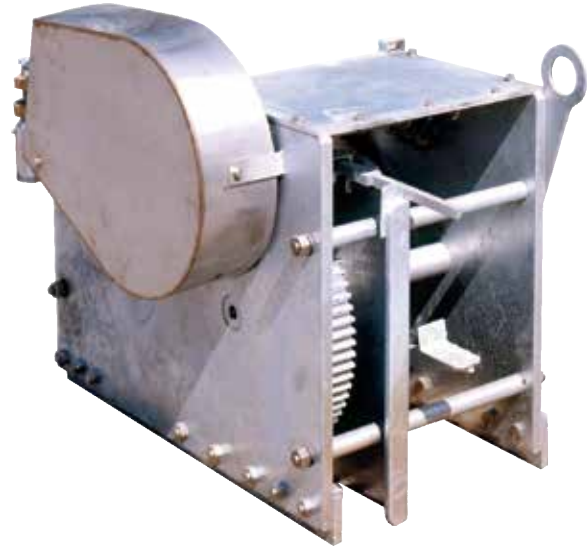


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HYDRA-ELECTRIC WINCH



- SELF-CONTAINED HYDRAULIC / ELECTRIC POWER UNIT WITH STAINLESS STEEL TANK.
- WINCH OPERATION CAN ALSO BE ACHIEVED BY CUSTOMER SUPPLIED HYDRAULIC POWER OR REMOTE MOUNTED POWER SUPPLY.
- FAIL-SAFE BRAKE.
- MECHANICAL DOG FOR EMERGENCY MANUAL OPERATION.
- HOT-DIPPED GALVANIZED STANDARD.
- FREE WHEELING FEATURE TO ALLOW FASTER CABLE PULL-OUT.
- STAINLESS STEEL COMPONENTS: GUARDS, TANKS AND FASTENERS.
- FULLY SYNTHETIC BIODEGRADABLE HYDRAULIC FLUID.
- TRUE LEFT OR RIGHT HAND MODELS FOR USE IN PAIRS.
- HYDRAULIC SYSTEM PREVENTS POWER SPIKES.

MODEL No.	HOLDING DOG &/OR BRAKE	LINE PULL @ FIRST LAYER (LBS)		DRUM CAPACITIES (FT)				LINE SPEED	WT	DIMENSIONAL DATA		
	S. TONS	HYDRA ELECTRIC	HANDWHEEL ONE MAN	5/8"	3/4"	7/8"	1"	FPM	LBS	W	L	H
DF-156-10-6-HE	10	3,150 LBS @ 1,100 PSI	7,000	174	129	-	-	23.5	897	10-5/16"	22-1/2"	42-3/8"
DF-156-20-7-HE	20	10,500 LBS @ 1,800 PSI	14,000	109	57	39	21	17.2	1,284	15-1/2"	30"	41"
DF-156-40-11-HE	40	23,000 LBS @ 1,800 PSI	15,000	287	176	130	84	12.8	1,930	20-1/8"	36"	40"
DF-156-40-18-HE	40	23,000 LBS @ 1,800 PSI	15,000	463	279	151	139	12.8	2,500	39-1/2"	36"	40"
DF-156-60-11-HE	60	33,480 LBS @ 2,200 PSI	24,000	572	325	262	200	9.9	3,460	23-1/8"	46-7/8"	51"

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HYDRA-ELECTRIC WINCH - REMOTE POWER PACK



SHUTTLE VALVE WINCH



CONTROL BOX



REMOTE POWER PACK

“We really can’t forecast all that well, and yet we pretend that we can, but we really can’t.”

—Alan Greenspan



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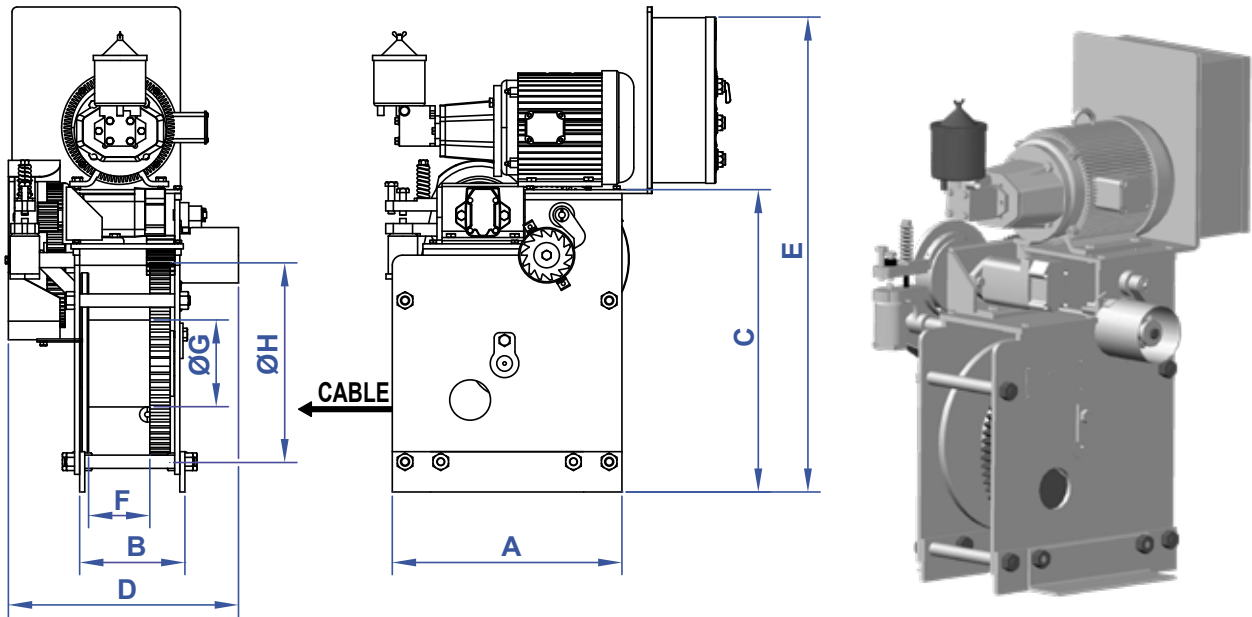
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10 TON HYDRA-ELECTRIC WINCH

BR

WINCHES



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	72478	72486

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-156-10	REFER TO COATINGS TABLE	22-1/2"	10-3/8"	25"	22-1/2"	40"	8-5/8"	6"	18"	900

"Fear is a far more dominant force in human behaviour than euphoria—I would never have expected that or given it a moment's thought before, but it shows up in the data in so many ways."

—Alan Greenspan

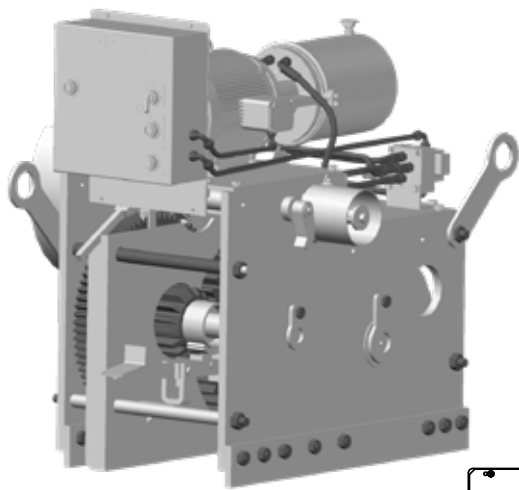
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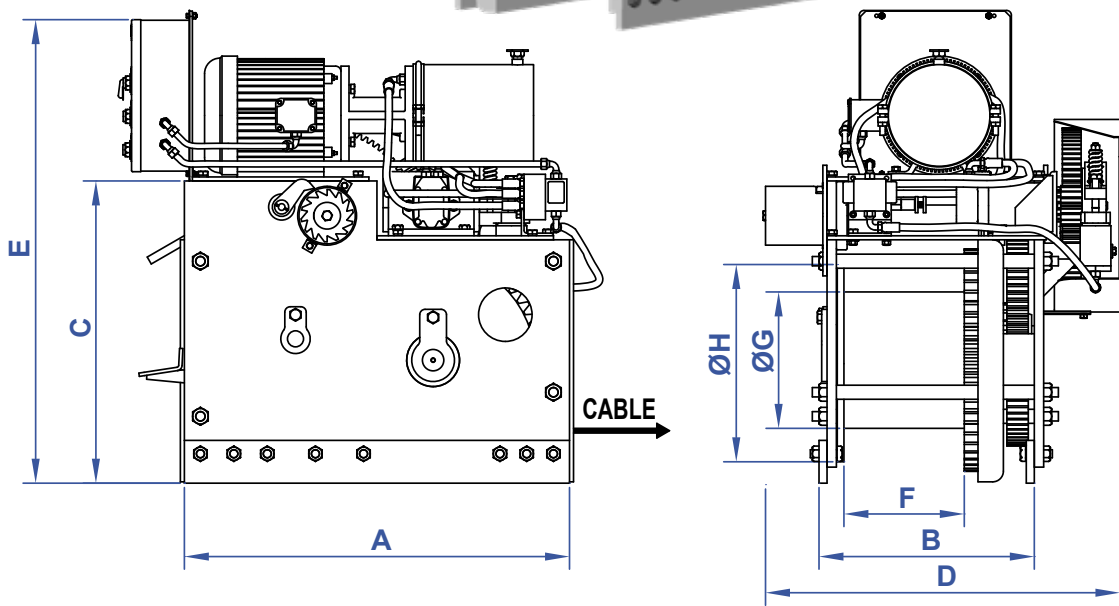


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20 TON HYDRA-ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	87580	87599

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-156-20	REFER TO COATINGS TABLE	30"	15-3/8"	25-3/4"	28"	41-1/4"	7-1/4"	10-3/4"	16"	1300

“I have found no greater satisfaction than achieving success through honest dealing and strict adherence to the view that, for you to gain, those you deal with should gain as well.”

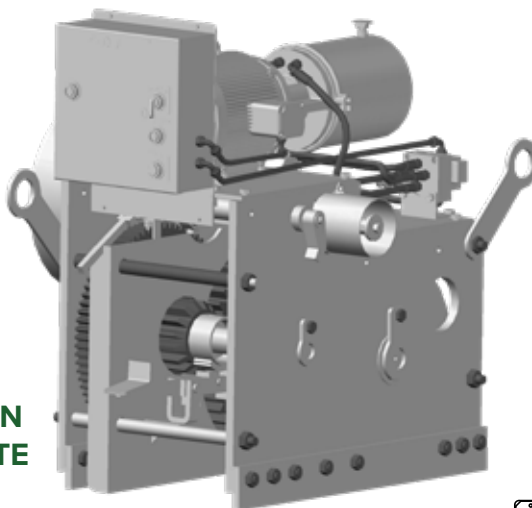
—Alan Greenspan



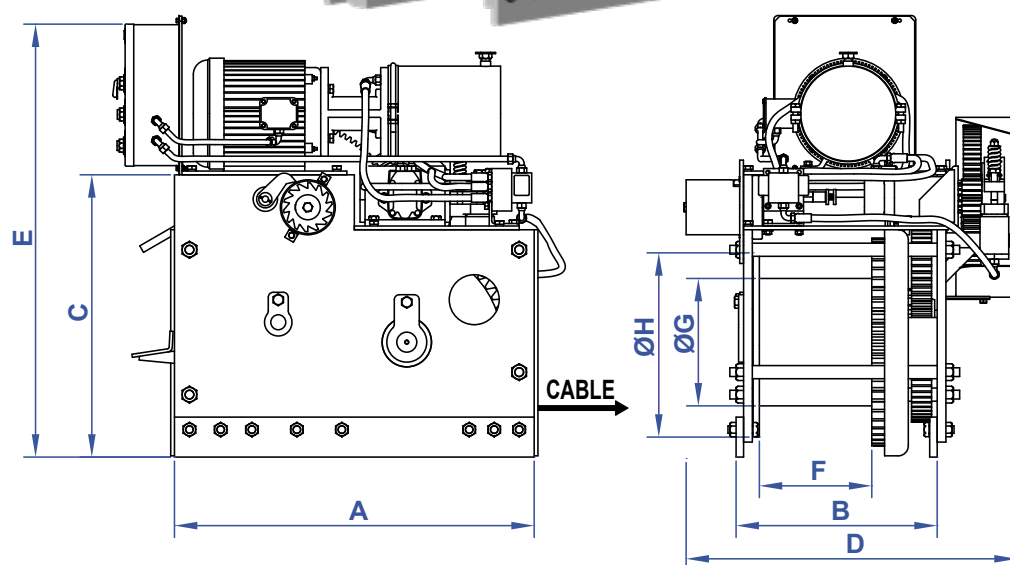
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40 TON HYDRA-ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	DRUM WIDTH	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	11-1/4"	87297	87300
GALVANIZED	18-1/8"	87273	87291

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-156-40-11	REFER TO COATINGS TABLE	36"	20-1/8"	28-5/8"	32-1/2"	44-1/8"	11-1/4"	12-3/4"	19"	2100
DF-156-40-18	REFER TO COATINGS TABLE	36"	27-1/4"	28-5/8"	39-1/2"	44-1/8"	18-1/4"	12-3/4"	19"	2,500

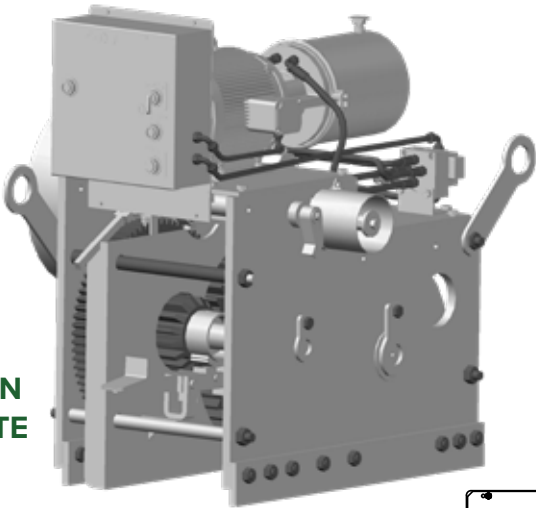
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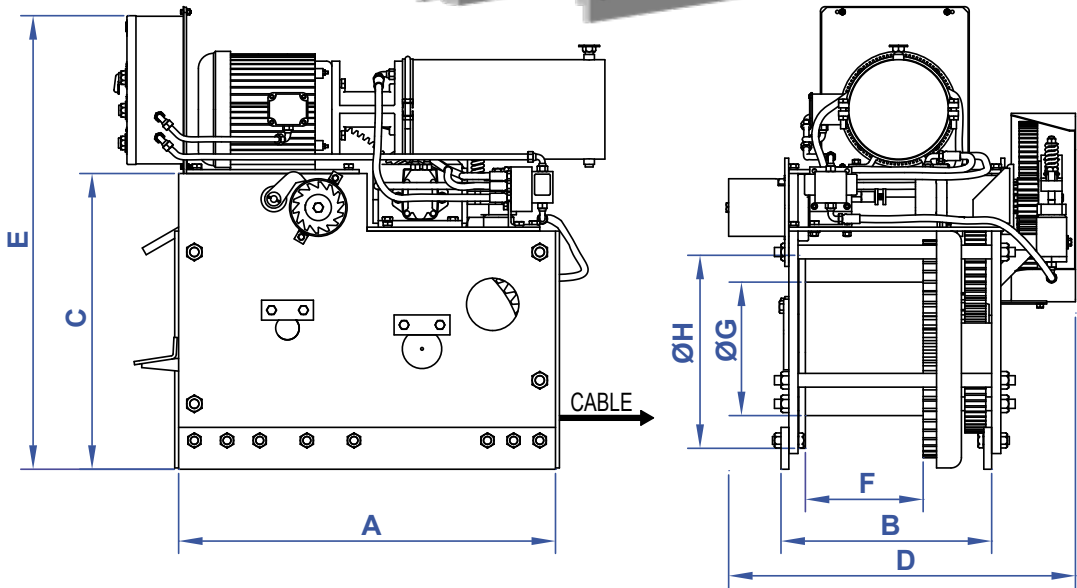


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60 TON HYDRA-ELECTRIC WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	87726	87734

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-156-60	REFER TO COATINGS TABLE	47"	23-1/8"	36-1/4"	36"	51-3/4"	10-5/8"	14"	24"	3460

“Markets do very weird things because it reacts to how people behave, and sometimes people are a little screwy.”

—Alan Greenspan

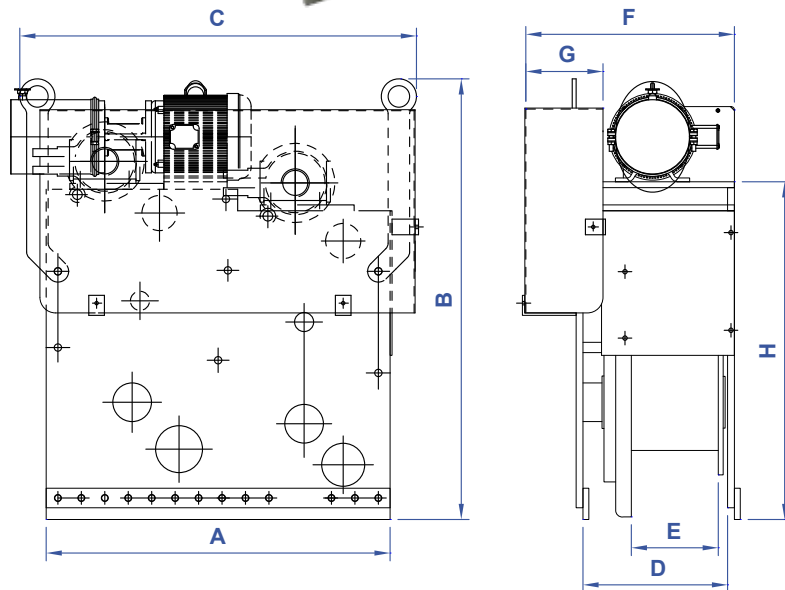


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40 TON DOUBLE DRUM WINCH



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	75159	75167

MODEL No.	PART No.	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-156-40-DD-HE	REFER TO COATING TABLE	44"	56-3/8"	50-3/4"	18-1/2"	11-1/8"	26-5/8"	9-7/8"	43-1/4"	3100

"Crony capitalism is essentially a condition in which... public officials are giving favours to people in the private sector in payment of political favours."

—Alan Greenspan

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SPUD WINCH



NABRICO's DF-1 Electric Spud winch has the same proven design as our DF-1 electric winch with some added features to handle the demands of a spud barge. A handwheel has been added to the winch for operation in the situations when the winch may not have power. In order to expedite lowering of the spud, a manual clutch has been installed along with a hand operated disc brake. This winch is available in our 40 and 65 ton styles. When ordering this winch, please specify length of spud travel, line speed and line pull required.

"The fundamental source of all your errors, sophisms, and false reasoning, is a total ignorance of the natural rights of mankind. Were you once to become acquainted with these, you could never entertain a thought, that all men are not, by nature, entitled to a parity of privileges. You would be convinced, that natural liberty is a gift of the beneficent Creator, to the whole human race; and that civil liberty is founded in that; and cannot be wrested from any people, without the most manifest violation of justice."

—Alexander Hamilton



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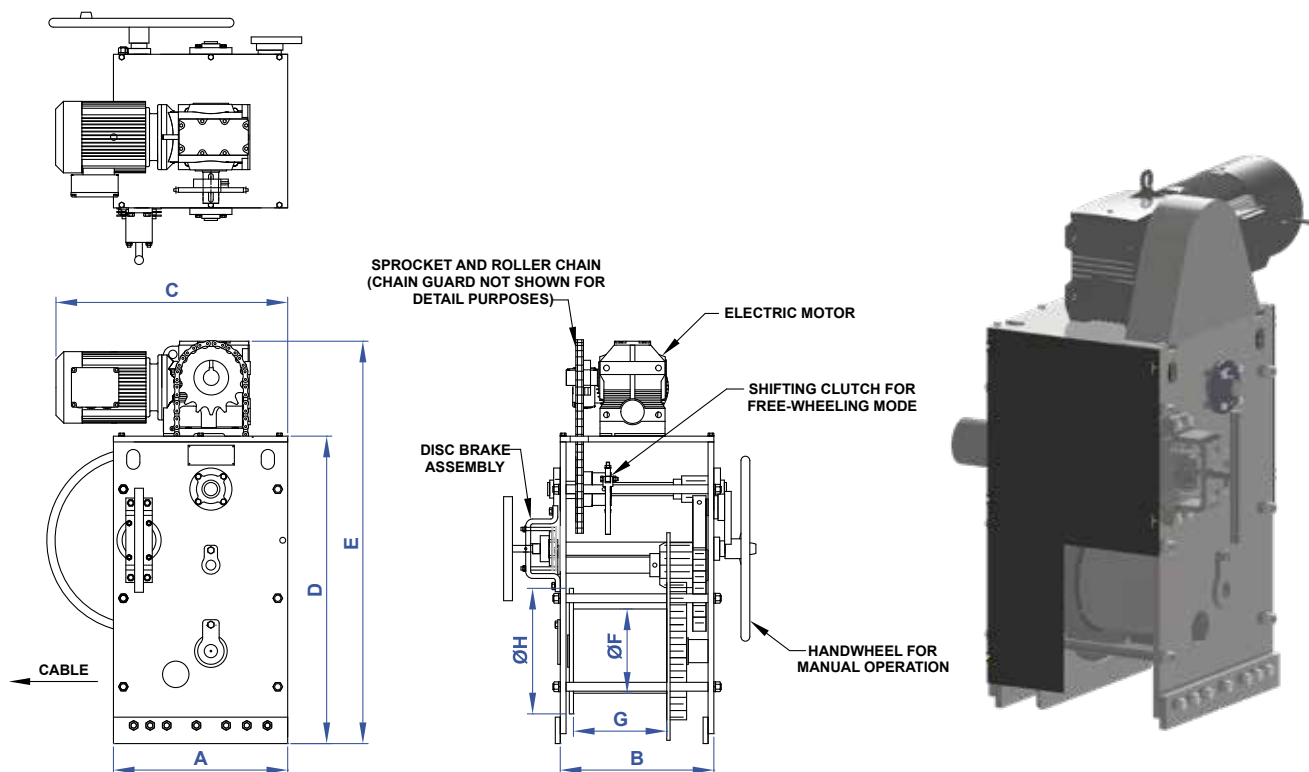
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40 TON UPRIGHT SPUD WINCH

BR

WINCHES



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	84023	84022

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-40	REFER TO COATINGS TABLE	26-3/8"	23-1/8"	34"	46-1/2"	61"	12-3/4"	14-1/8"	19"	2100

"The sacred rights of mankind are not to be rummaged for among old parchments or musty records. They are written, as with a sunbeam, in the whole volume of human nature, by the hand of the divinity itself, and can never be erased or obscured by mortal power."

—Alexander Hamilton

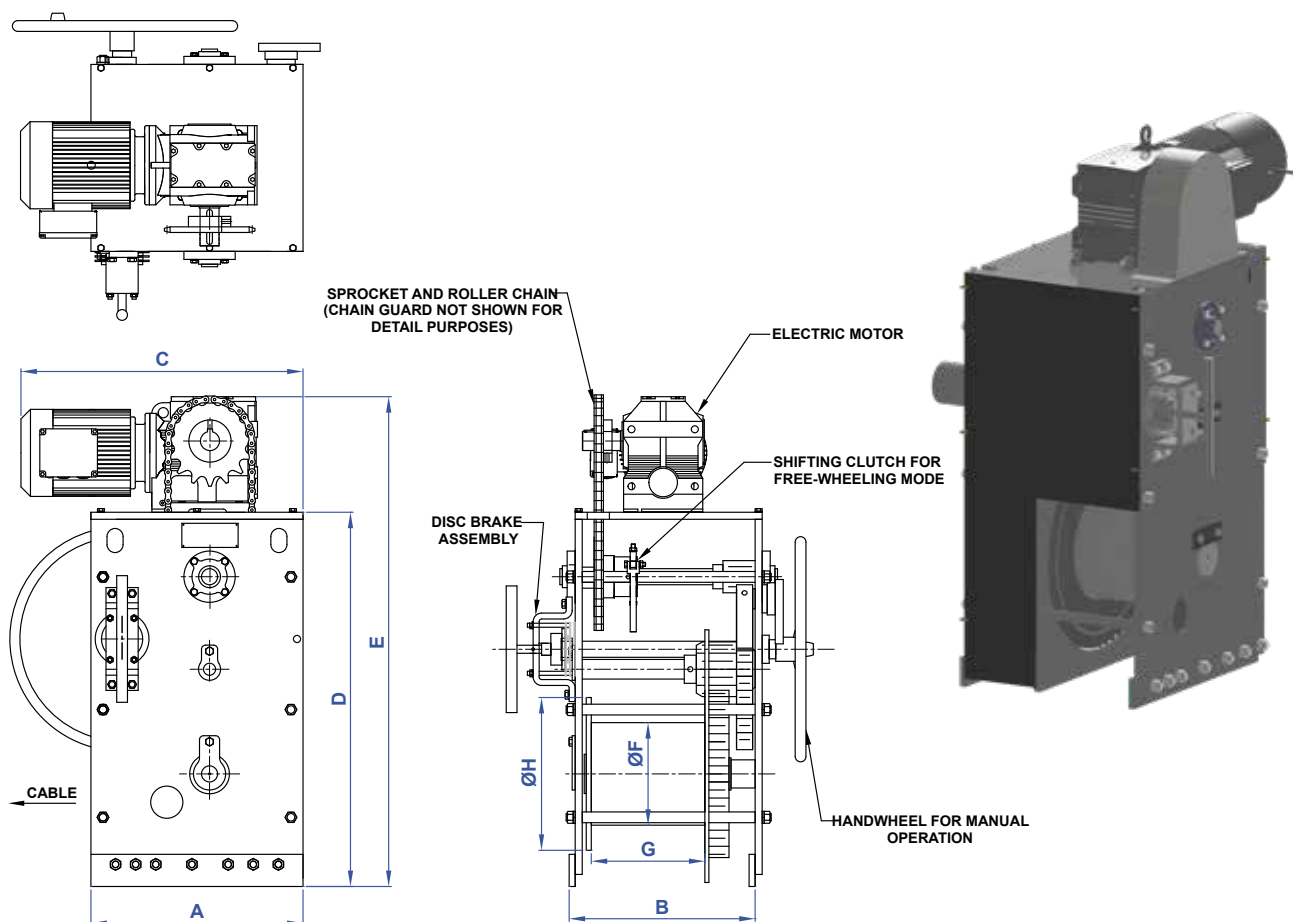
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65 TON UPRIGHT SPUD WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	83403	83402

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-1-65	REFER TO COATINGS TABLE	32"	26-1/8"	38-1/2"	56"	70-1/2"	14"	13-5/8"	24"	2800

"The best we can hope for concerning the people at large is that they be properly armed."

—Alexander Hamilton



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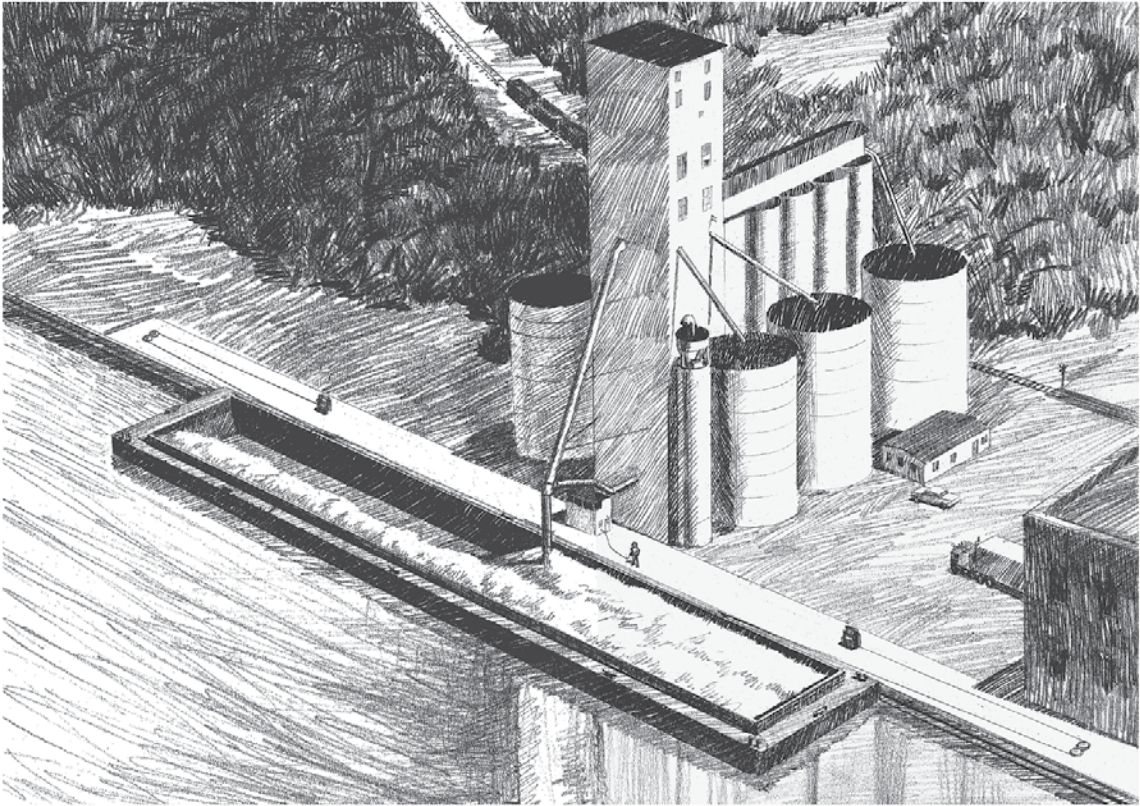
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BARGE POSITIONING SYSTEM

BR
T

WINCHES



NABRICO's all electric constant tension positioning winch system consists of two winches, two variable speed drives, variable speed motors, failsafe brakes and PLC (programmable logic controls). These components have been engineered to allow one winch to be in a drive mode, pulling, while the other winch is in a torque mode, holding. When the object being positioned is at rest, both drives are in the torque mode, and the load holds its position on the dock, letting out cable during loading, and taking in cable during unloading. This also allows cable in and out as required during tide movement. The amount of torque/pull and speed on the cable is controlled by two potentiometers mounted on the control panel. The positioning winch system is capable of maintaining the full horsepower load at zero speed indefinitely. If there should be a loss of power or the emergency stop is pressed, the failsafe brakes hold the load.

"Note, besides, that it is no more immoral to directly rob citizens than to slip indirect taxes into the price of goods that they cannot do without."

—Albert Camus

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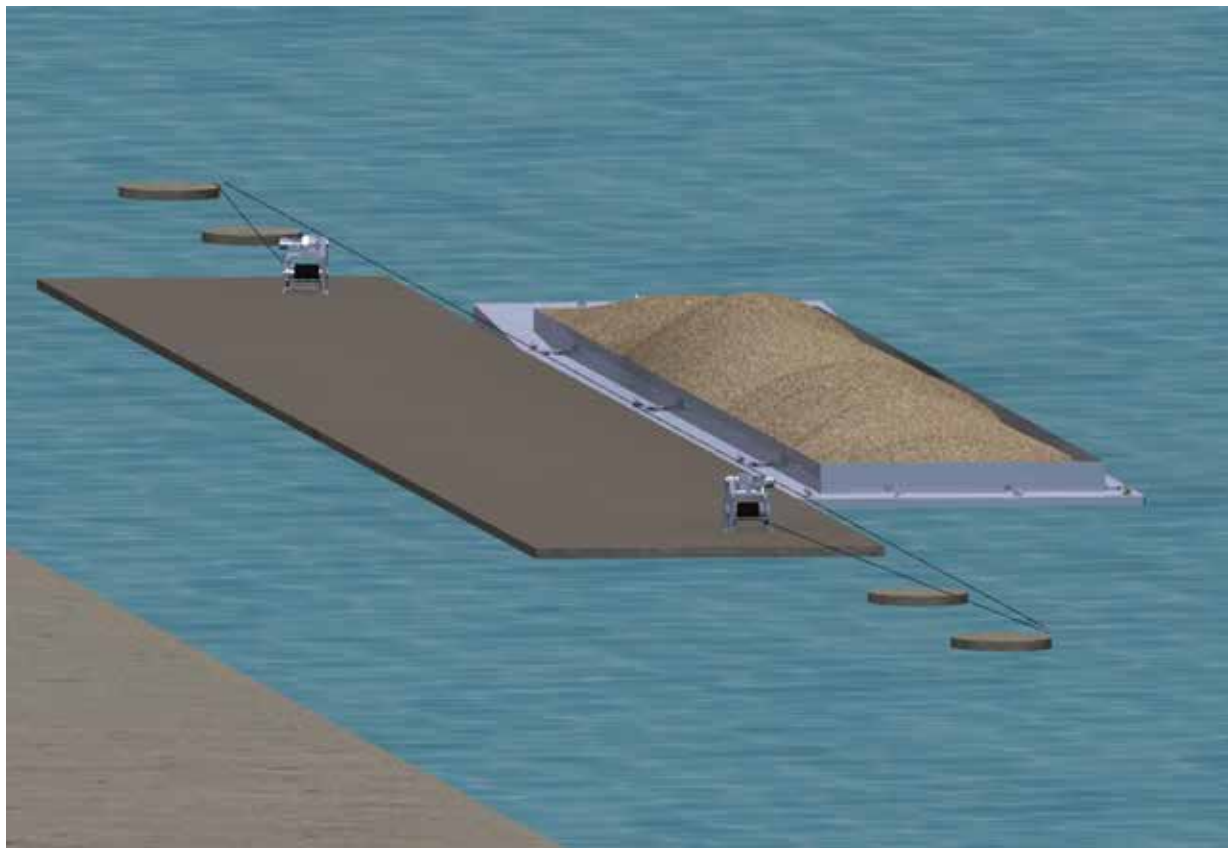
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BARGE POSITIONING SYSTEM

WINCHES



NABRICO has utilized proven winch designs with the latest drive and touch screen technology. Adjustable ramps have been programmed into the system to minimize the shock on the cable and hardware associated with starting and stopping. For additional information, drawings and specifications contact **NABRICO**.

NABRICO pioneered the positioning winch system. In addition to the standard model, the system is available in a larger 50 horsepower model and in a smaller 10 horsepower model. Using various motor and gearbox combinations, the line pull and speed can be changed since the basic engineering in the panel and winch remain the same. The positioning winch has industrial, marine and rail applications. The winch can produce a full horsepower load at zero speed indefinitely. If there should be a loss of power or the emergency stop is pressed, the fail-safe brakes hold the load.

“Taxation is the price which civilized communities pay for the opportunity of remaining civilized.”

—Albert Bushnell Hart



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BARGE POSITIONING SYSTEM



**36" Chain Drive
Positioning
Winch**

NABRICO's most technologically advanced winches, backed by more than a century of recognizing and meeting the needs of the towing and transportation industries, provide an infinite number of line pulls and line speeds. The standard model has a starting capacity of 24,000 lbs., with 16,000 lbs. of constant tension at 30 fpm. Drum capacity is substantial, varying from 572 to 1328 feet. Accessible, clearly marked controls are available in a wireless, wired remote or local configuration.



Control Cabinet for Winches



CABLE CAPACITY			LINE SPEED	LINE PULL
CABLE SIZE	24" DRUM WIDTH	36" DRUM WIDTH	STANDARD: INFINITELY VARIABLE FROM 0-30 FPM. CUSTOM APPLICATION UP TO 100 FPM.	STANDARD INFINITELY VARIABLE LINE PULL 48,000 LBS. AT MOTOR STALL; 24,000 LBS. STARTING AND 16,000 LBS. CONTINUOUS. CUSTOM APPLICATIONS ARE AVAILABLE.
3/4"	877'	1,328'		
7/8"	768'	1,165'		
1"	686'	1,043'		
1 1/8"	623'	948'		
1 1/4"	572'	872'		

NOTE: THE CAPACITIES GIVEN ABOVE ARE BASED ON UNIFORM ROPE WINDING TO FIVE (5) LAYERS. TENSION APPLIED DURING SPOOLING WILL ALSO AFFECT THE LENGTH.

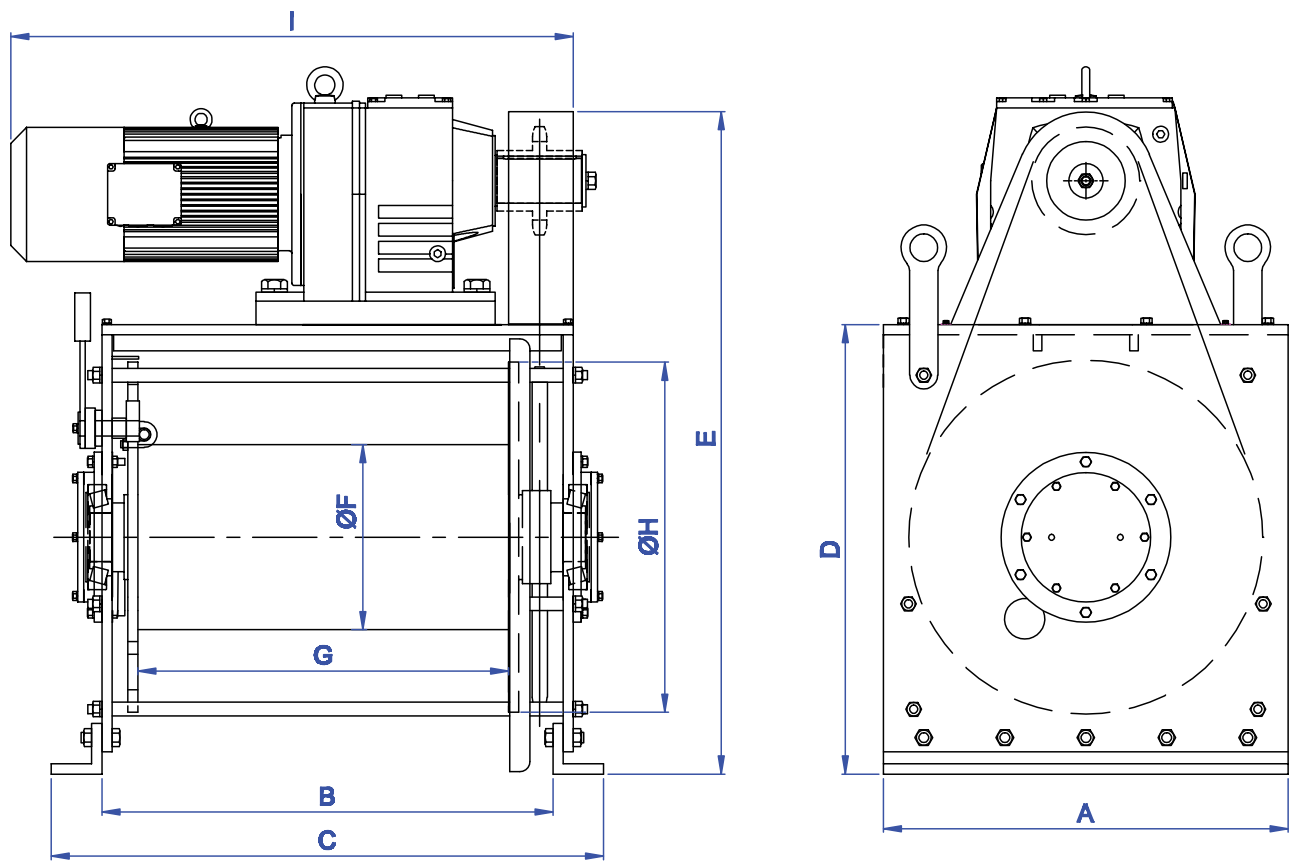
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BARGE POSITIONING WINCH (18" DRUM)



MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	I	WT. (lbs.)
DF-CD-BMW-18	40031	32"	26-3/8"	36-1/8"	34-5/8"	54-1/8"	14"	18"	30"	38-1/2"	3000

“The hardest thing in the world to understand is the income tax.”

—Albert Einstein

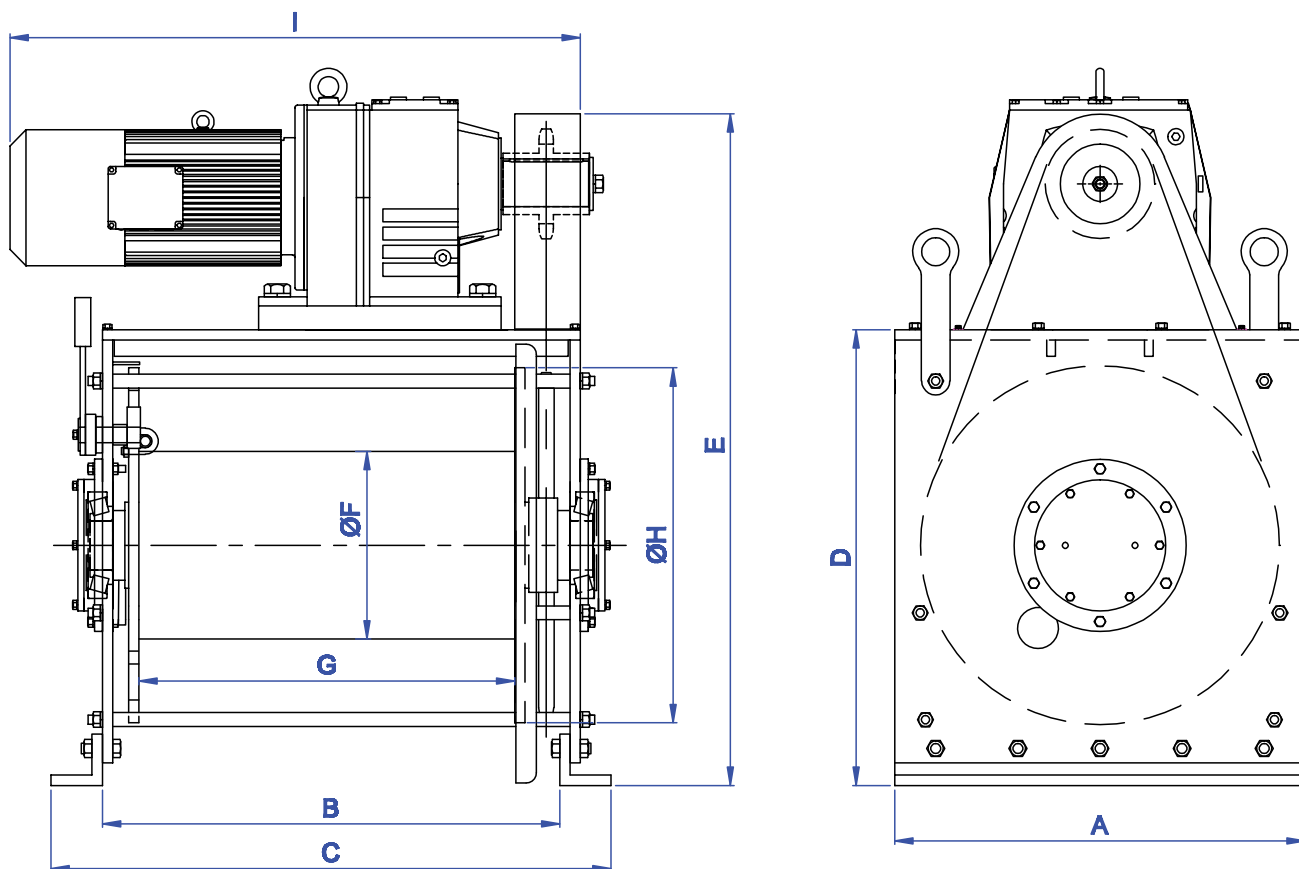


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BARGE POSITIONING WINCH (24" DRUM)



MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	I	WT. (lbs.)
DF-CD-BMW-24	40033	39-3/8"	31-7/8"	41-11/16"	43-3/4"	62-7/8"	18"	24"	34"	38-1/2"	4000

"I never graduated from Iowa. But I was only there for two terms—Truman's and Eisenhower's."

—Alex Karras

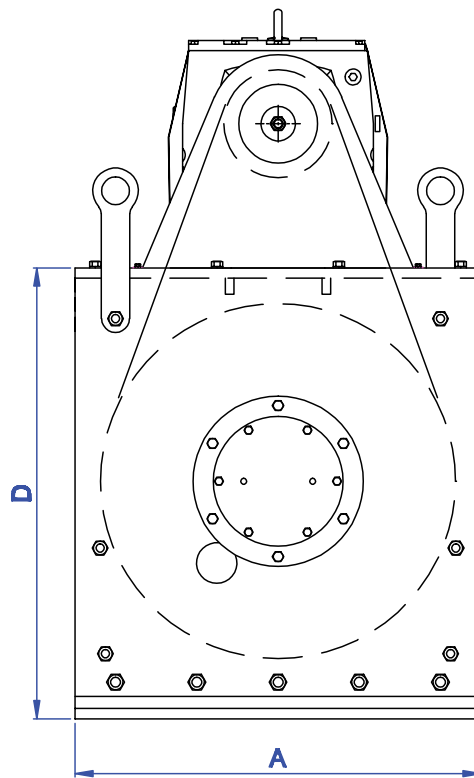
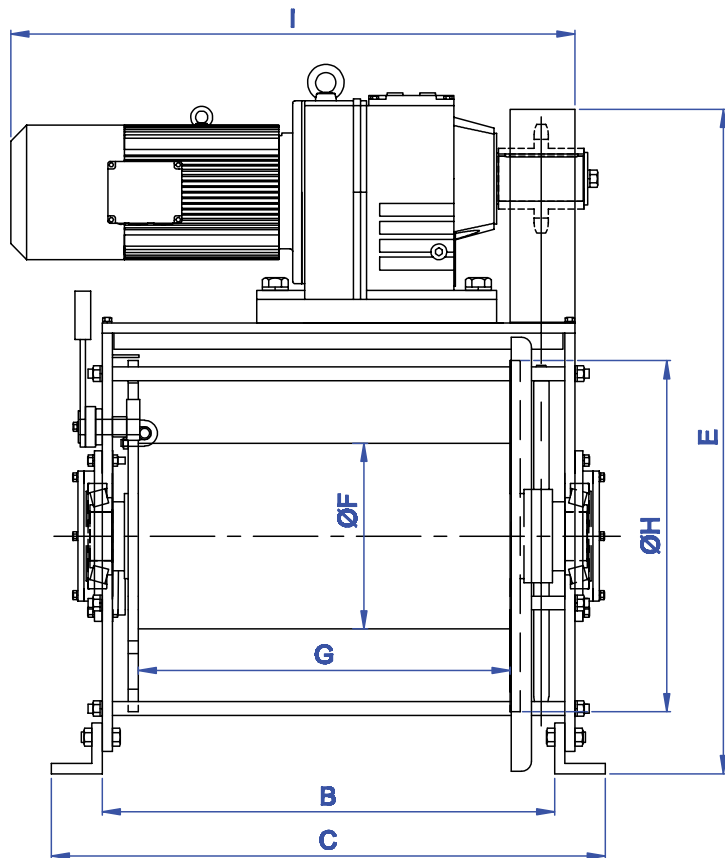
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BARGE POSITIONING WINCH (36" DRUM)



MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	I	WT. (lbs.)
DF-CD-BMW-36	40038	39-3/8"	43-7/8"	53-11/16"	43-3/4"	65-3/4"	18"	36"	34"	57-5/8"	4500

"Today, it takes more brains and effort to make out the income-tax form than it does to make the income."

—Alfred E. Neuman



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RAILCAR AND INDUSTRIAL WINCH



FEATURES

- Simple design.
- Solid Drum.
- Built for continuous service.
- Few parts.
- Pressure bar.
- Customizable to your specific job.
- Extends wire life by using a single layer and grooved drum.

“The loser is always a part of the problem; the winner is always a part of the answer. The loser always has an excuse; the winner always has a program. The loser says it may be possible, but it’s difficult; the winner says it may be difficult, but it’s possible.”

—Althea Gibson

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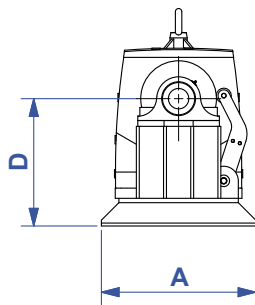
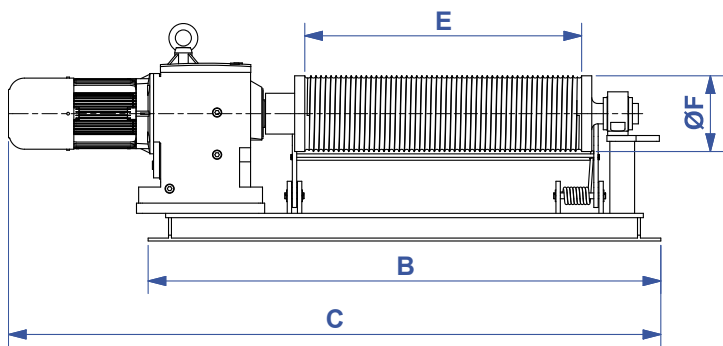
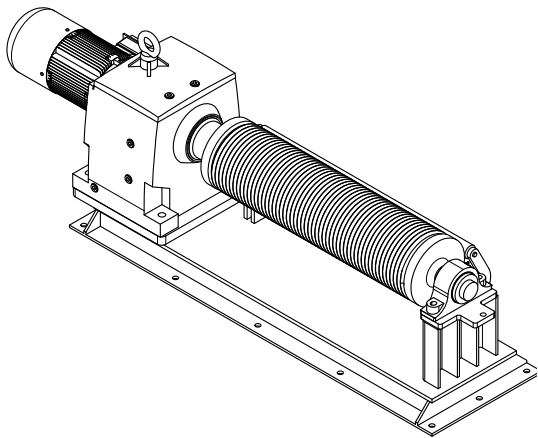
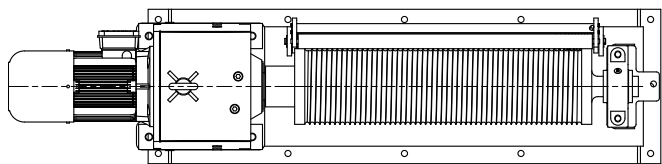
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RAILCAR AND INDUSTRIAL WINCH

WINCHES



PART No.	A	B	C	D	E	ØF	WT. (lbs)
19776	26-1/2"	88"	112"	21-7/8"	47-1/2"	13"	1,000

“Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.”

—Amendment I, The U.S. Bill of Rights

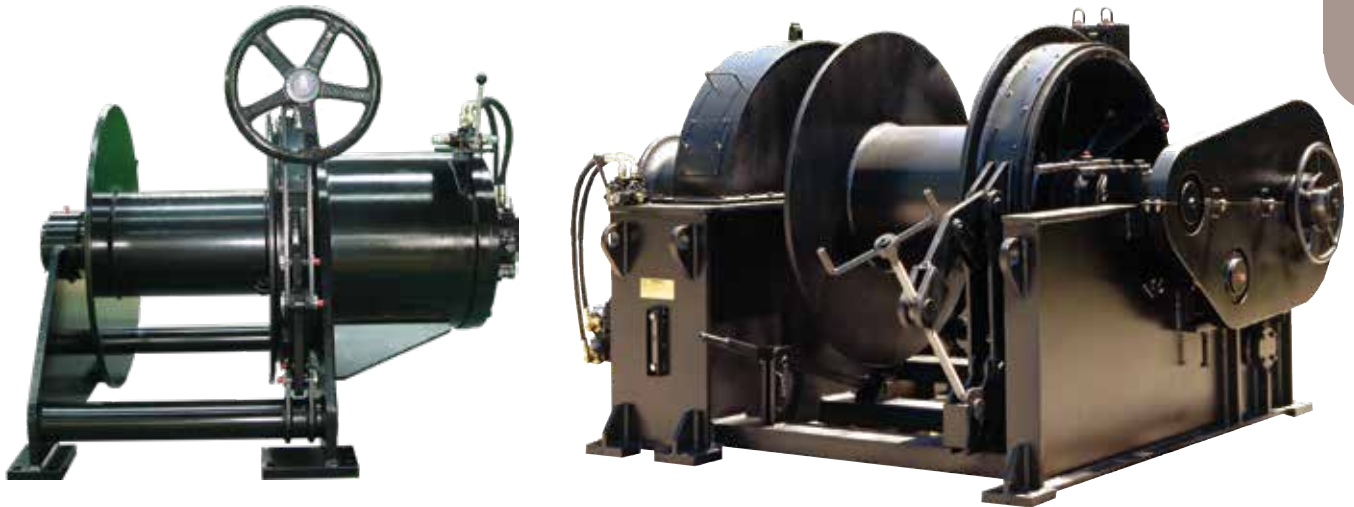


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ANCHOR WINCHES



NABRICO is a full line supplier of electric and hydraulic anchor winches, mooring winches and windlasses. We will custom fit each anchor winch, mooring winch or windlass to your specific application to ensure the best possible configuration. Our winches can be fitted with warping heads and level winds along with many of our other standard features such as a locking dog, drum band brake and a three coat zinc and epoxy paint system. **NABRICO's** hydraulic anchor winches can also be equipped with an electric auxiliary power source to operate the winch in case of a hydraulic failure. Please contact **NABRICO** for a quote specified to meet your requirements.

"New York State is upside down and backwards; high taxes and low performance."

—Andrew Cuomo

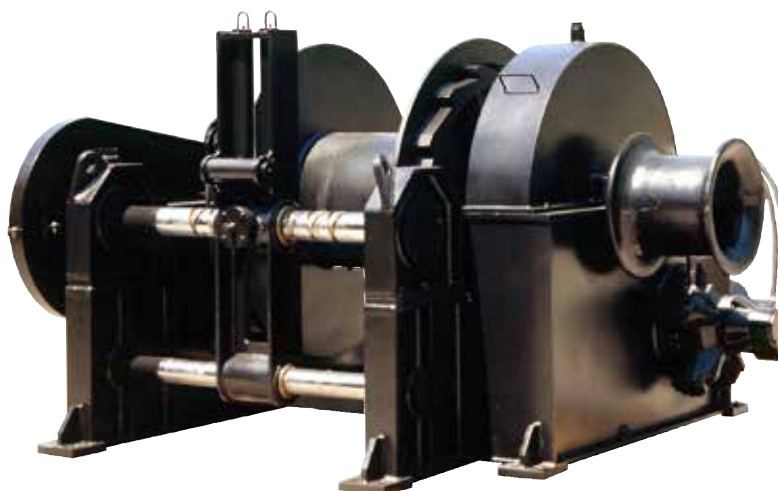
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ANCHOR WINCHES



**SPECIFY THE FOLLOWING INFORMATION
TO DETERMINE THE SIZE AND SPEED OF
YOUR ANCHOR WINCH:**

CABLE SIZE _____
DRUM CAPACITY _____
LINE PULL (FIRST LAYER) _____
LINE SPEED _____
MOTOR TYPE _____
OF GYPSY HEADS _____
GYPSY HEAD SIZE _____

MODEL SHOWN

MODELDF-AW-1200-30-2/16H
CABLE SIZE1-7/8 Inch
DRUM CAPACITY1200 Ft.
LINE PULL (FIRST LAYER)25,000 Lbs. @ 2400 PSI
LINE SPEED30 FPM
MOTOR TYPEHYDRAULIC
OF GYPSY HEADSTWO
GYPSY HEAD SIZE16 INCH

- HYDRAULIC OR ELECTRIC MOTOR WITH FAIL SAFE MOTOR BRAKE.
- 4-WAY CONTROL VALVE MOUNTED AND PIPED ON THE WINCH.
- BRAKE WITH STAINLESS STEEL BRAKE AND STEEL HAND WHEEL.
- LEVER OPERATED MACHINED JAW CLUTCH.
- OPTIONAL WIRE ROPE LEVEL WIND FOR UNIFORM LAY OF WIRE ON THE DRUM.
- RATCHET AND PAWL TYPE HOLDING DOG ON THE DRUM.
- FABRICATED STEEL CONSTRUCTION.
- THREE COAT ZINC AND EPOXY PAINT SYSTEM.
- ELECTRIC OR HYDRAULIC POWER.
- JAW CLUTCHED DRUM.
- SINGLE OR DOUBLE WARPING HEADS.
- HYDRAULIC MOTOR WITH FAIL SAFE MOTOR BRAKE.
- SPUR GEAR REDUCTION OPERATING IN OIL BATH.
- DRUM BAND BRAKE AND HOLDING DOG.
- DRUM CAPACITY AND LINE PULL TO MEET CUSTOMER REQUIREMENTS.
- OTHER SIZES AND FEATURES AVAILABLE.
- OTHER AVAILABLE OFFSHORE DECK MACHINERY: MOORING WINCHES, TOWING WINCHES, ANCHORS, CHAIN AND CAPSTANS.
- CONTACT NABRICO WITH YOUR SPECIFIC REQUIREMENTS.



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ALUMINUM ANCHOR WINCH

BR

WINCHES



ELECTRIC WINCH

- ANODIZED ALUMINUM FRAME AND COMPONENTS.
- STAINLESS STEEL SHAFTS.
- MANUAL DISC BRAKE SYSTEM WITH ALL STAINLESS STEEL COMPONENTS.
- NORD ALUMINUM GEARMOTOR WITH NSD-X3 PAINT AND CORROSION PROTECTED FAIL-SAFE BRAKE.
- DESIGNED TO DNV SPECIFICATIONS.



HYDRAULIC WINCH

- SYNCHRONOUS LEVELWIND SYSTEM.
- NO MAINTENANCE THORDON BEARINGS.
- WINDLASS IS APPROVED FOR CHAIN 16MM K2 AND 17.5MM K1 WITH MINIMUM BREAKING STRENGTHS OF 150 KN AND 125 KN.
- ALL STAINLESS FASTENERS AND SEPARATOR RODS.

MODEL No.	LINE PULL (LBS)	LINE SPEED (FPM)	DRUM SIZE (IN)	WEIGHT (LBS)
DF-AW-600-2-91-E-AL	1,872	34	3" x 19-1/2" x 15-3/4"	456
DF-AW-600-2-91-H-AL	1,872	34	3" x 19-1/2" x 15-3/4"	347

"One man with courage makes a majority."

—Andrew Jackson

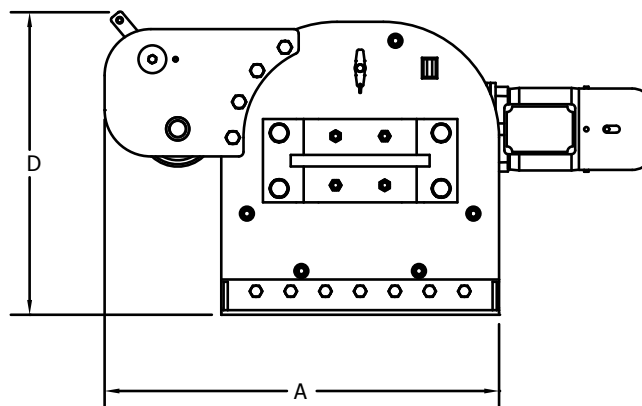
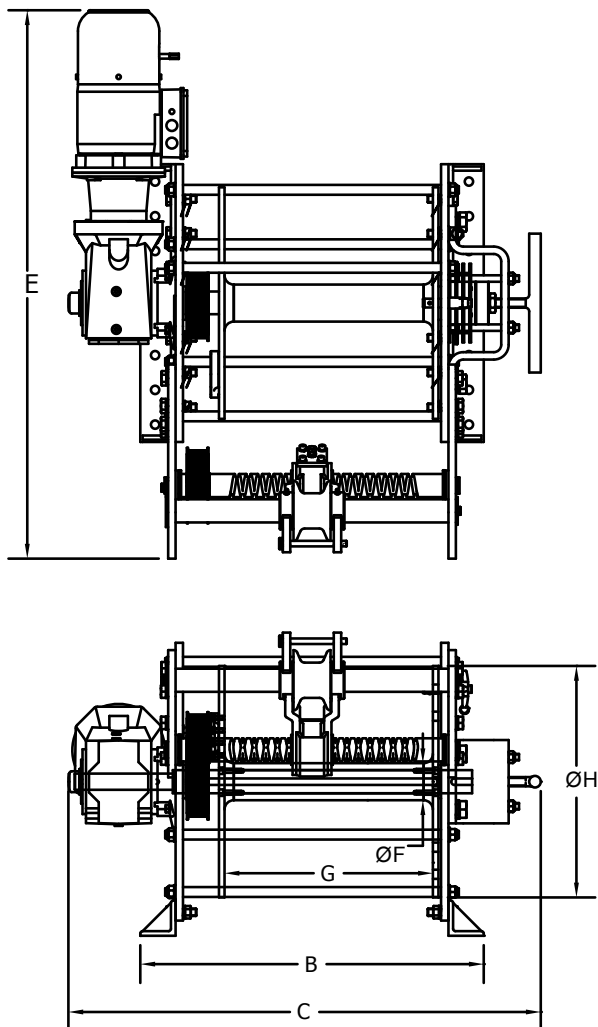
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ELECTRIC ALUMINUM ANCHOR WINCH



MODEL No.	A	B	C	D	E	ØF	G	ØH
DF-AW-600-2-91-E-AL	33-1/2"	29-1/4"	40-1/8"	25-3/4"	46-5/8"	3-1/8"	17-3/4"	19-5/8"

"John Calhoun, if you secede from my nation I will secede your head from the rest of your body."

—Andrew Jackson

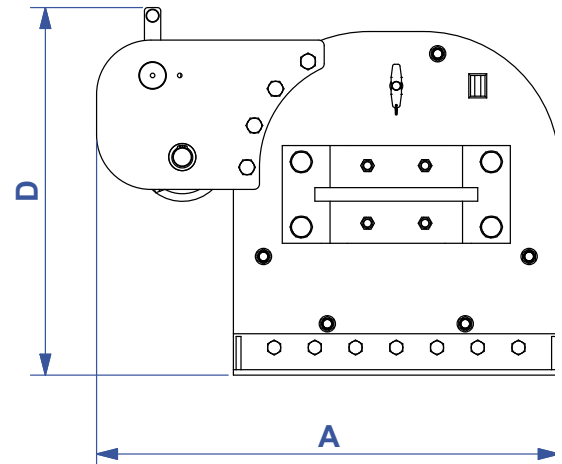
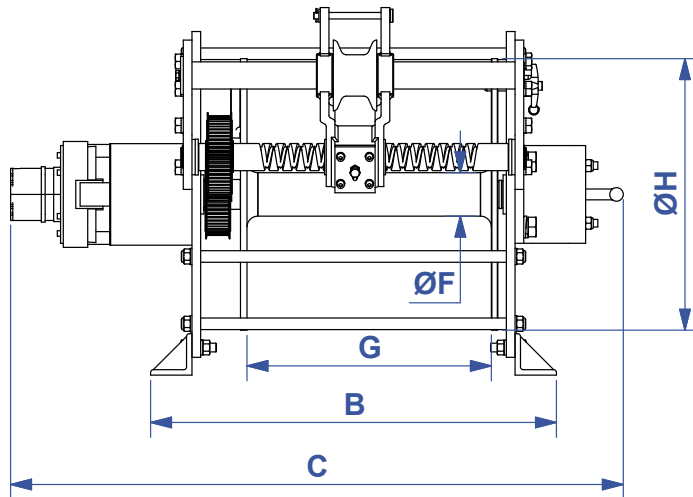
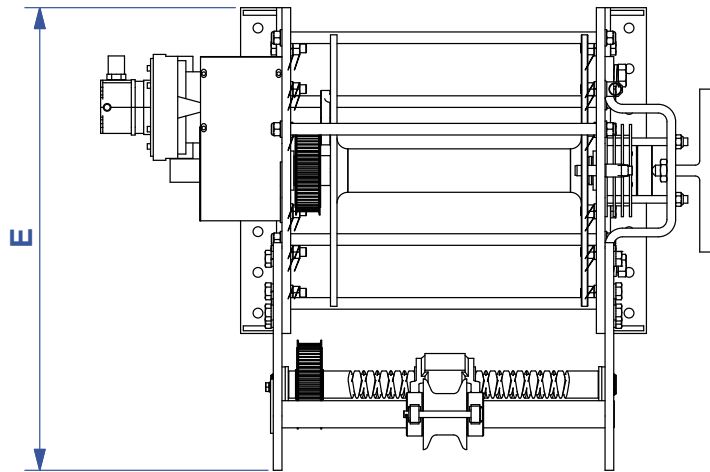


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HYDRAULIC ALUMINUM ANCHOR WINCH



MODEL No.	A	B	C	D	E	ØF	G	ØH
DF-AW-600-2-91-H-AL	33-1/2"	29-1/4"	44-1/2"	25-3/4"	33-1/2"	3-1/8"	17-3/4"	19-5/8"

"Washington, D.C., is twelve square miles bordered by reality."

—Andrew Johnson

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MANUAL WINCHES



NABRICO provides the extra hands you need for fast and sure tow make-up and breakdown with a complete line of hand winches in both left and right hand models (except 2/5 ton winches). Our DF-3 winch features the same trusted parts as our DF-156 winch in a more compact design. NABRICO manual winches are available in 2, 5, 10, 20, 30, 40 and 60 ton holding capacities. NABRICO has a hand winch to meet the particular needs of your job or installation.

Match a NABRICO hand winch to your needs and available space and you're ready to go to work. For installation purposes, all dimensions should be verified.

Winches portrayed in drawings, photographs and copy are not designed for lifting or lowering persons or equipment.

"The best measure of a man's honesty isn't his income tax return. It's the zero adjust on his bathroom scale."

—Arthur C. Clarke



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1 TON MANUAL WINCH



FEATURES

- All Stainless Steel Construction
- Bronze Oil Lite Bushings
- Fully Guarded w/ Stainless Steel Guards
- Stainless Steel Brake Band
- 2 Speed Operation
- Bronze Locking Dog

MODEL NO.	PART NO.	HOLDING CAPACITY (BRAKE &/ OR LOCKING DOG)	LINE PULL		DRUM CAPACITY (FT)				WEIGHT
		LBS	HIGH SPEED (LBS)	LOW SPEED (LBS)	1/8"	3/16"	1/4"	5/16"	LBS
DF-5	15670	2,000	1,000	2,000	360	150	85	50	32

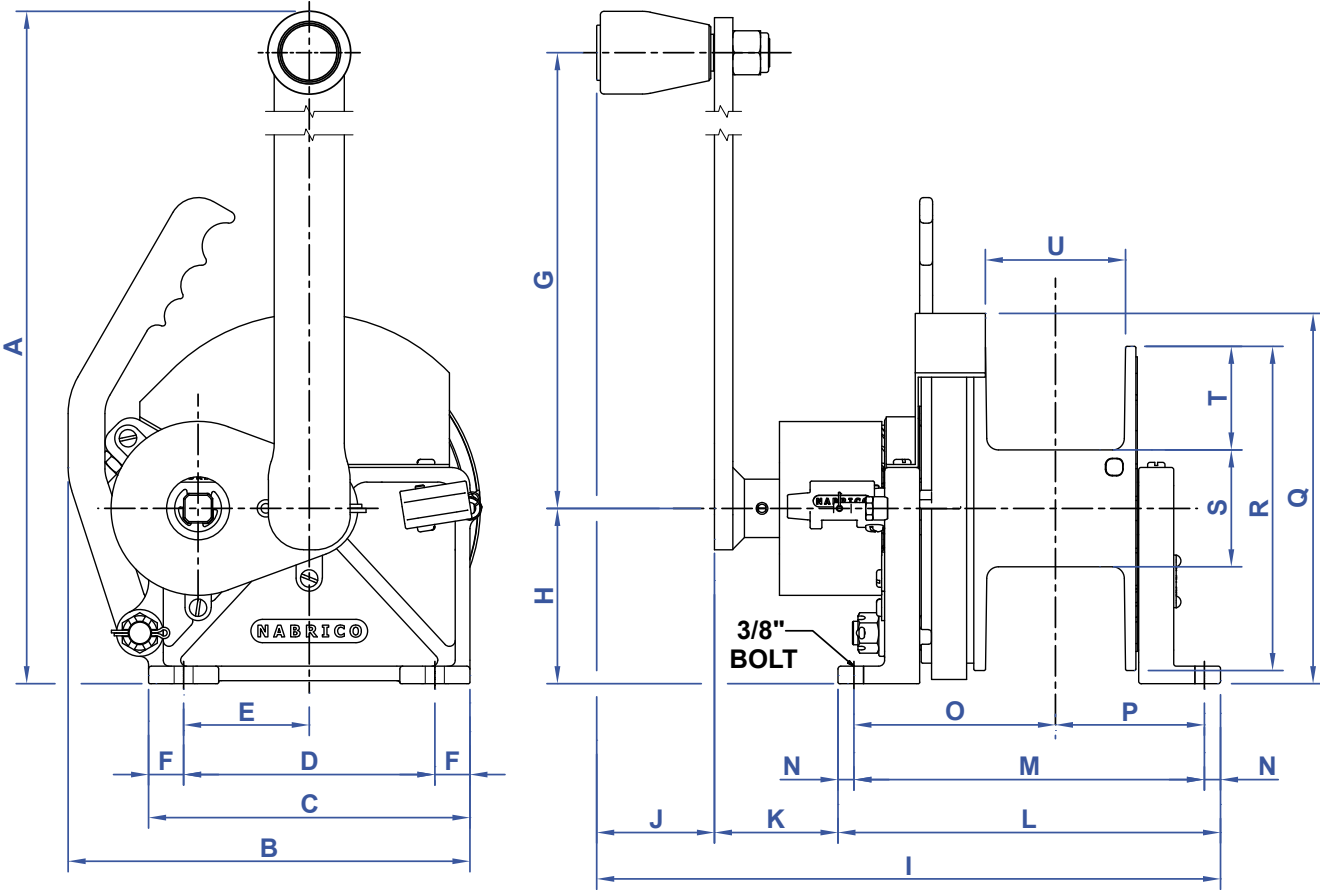
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1 TON MANUAL WINCH



MODEL NO.	PART NO.	A	B	C	D	E	F	G	H	I
DF-5	15670	16-5/8"	8-5/8"	6-7/8"	5-3/8"	2-11/16"	3/4"	12"	3-3/4"	13-3/8"

J	K	L	M	N	O	P	Q	ØR	ØS	T	U
2-1/2"	2-5/8"	8-3/16"	7-1/2"	3/8"	4-5/16"	3-3/16"	7-15/16"	6-15/16"	2-1/2"	2-1/4"	3"

“I’m proud to pay taxes in the United States; the only thing is, I could be just as proud for half the money.”

—Arthur Godfrey



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2 AND 5 TON MANUAL WINCH



MODEL No.	LINE PULL SLOW SPEED (LBS)	LINE PULL FAST SPEED (LBS)	SHOCK LOAD (LBS)	HAND BRAKE HOLDING (LBS)
2 Ton	4025	3500	3800 (3 foot drop)	6000
5 Ton	10000	8500	8250 (3 foot drop)	14000

CABLE CAPACITY (FULL DRUM)							
MODEL No.	DRUM WIDTH	1/4	5/16	3/8	7/16	1/2	WT (lbs)
2 Ton	6"	275	200	105	100	60	65
5 Ton	6"	-	-	300	200	170	116

"Government spending is taxation. When you look at this, I've never heard of a poor person spending himself into prosperity; let alone I've never heard of a poor person taxing himself into prosperity."

—Arthur Laffer

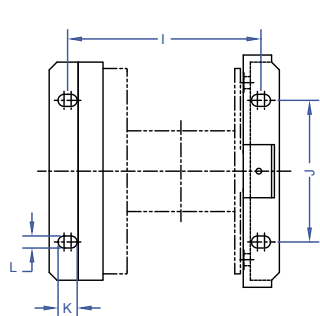
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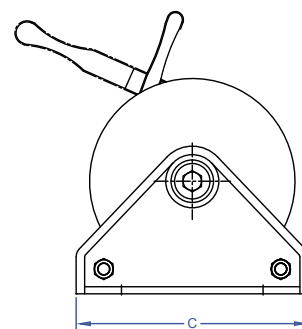
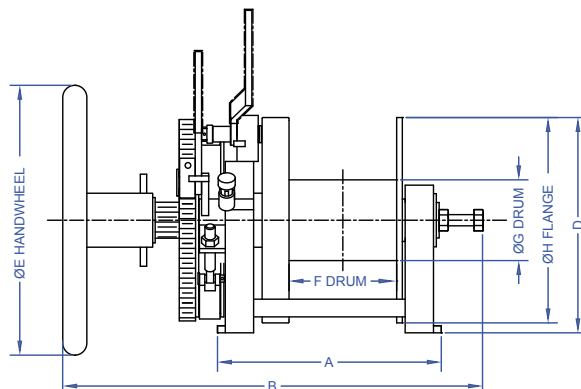
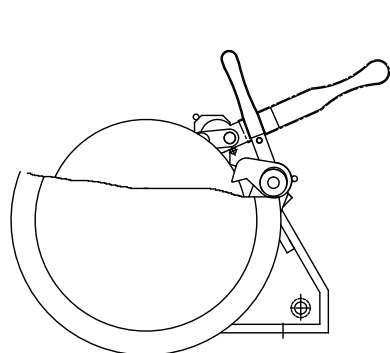
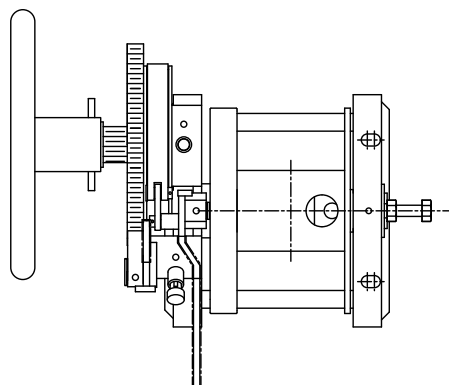


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2 AND 5 TON MANUAL WINCH



WINCH FOOTPRINT



MODEL No.	PART No.	A	B	C	D	ØE	F	ØG	ØH	MOUNTING DIMENSIONS			
										I	J	K	L
2 TON	15550	11-11/16"	23-1/4"	12"	9-5/16"	15"	6-3/32"	4"	9-1/4"	10-1/2"	7-1/2"	1-1/16"	21/32"
5 TON	15600	12-7/16"	23-3/8"	12-7/8"	12"	15"	5-15/16"	4-1/2"	11-3/8"	10-3/4"	7-7/8"	1-1/16"	21/32"

"Over the past 100 years, there have been three major periods of tax-rate cuts in the U.S.: the Harding-Coolidge cuts of the mid-1920s; the Kennedy cuts of the mid-1960s; and the Reagan cuts of the early 1980s. Each of these periods of tax cuts was remarkably successful as measured by virtually any public policy metric."

—Arthur Laffer

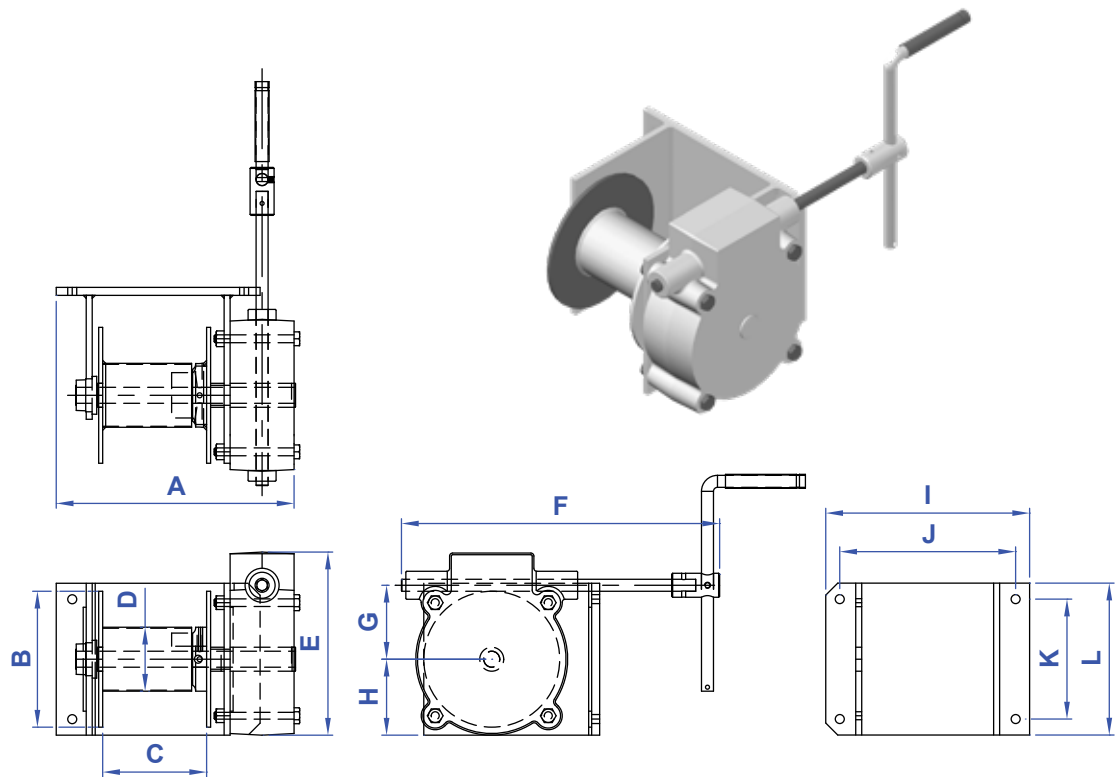


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2 TON MANUAL WINCH ASSY.



MODEL No.	PART No.	A	B	C	D	E	F	G	H	I	J	K	L	WT. (lbs.)
DF-7	15557	15"	8-1/2"	6-1/2"	4"	11-1/2"	19-7/8"	4-1/2"	4-3/4"	12-3/4"	11"	7-1/2"	9-1/2"	120

"Let me just try to give you sort of the intuitive one here on the stimulus funds. If you have a two-person economy—let's imagine we have two farms, and that's the whole world, just two farms. If one of those farmers gets unemployment benefits, who do you think pays for him? Am I going way over your heads today?"

—Arthur Laffer

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FASST WINDER™ WINCHES



NABRICO's patent-pending FASST Winder™ system is fast, easy and results in lower compressive forces and less stress on the body as you fully tighten a winch. Our FASST Winder™ system allows you to get rid of ratchets and still achieve similar line pulls to that of our comparable models. Without needing the assistance of an extension pipe, this system allows the deckhand to achieve final tensioning in almost half the time of a conventional winch. Call NABRICO today to schedule a live demonstration of this new revolutionary system.

"Sometimes, tax rate increases create the very problems that the spending is intended to cure. In other words, the tax rate increases reduce economic growth; they shrink the pie; they cause more poverty, more despair, more unemployment, which are all things government is trying to alleviate with spending."

—Arthur Laffer



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DF-356 W/ FASST WINDER™ WINCH



- Incorporates our powerful FASST Winder™ system.
- Patented high load release dog with secondary anti-backlash drag brake that is activated automatically with the release of the dog.
- Hot-dipped Galvanized coating.
- Uses standard 40-ton winch drive train.
- Ergonomic height.
- No hot work required: mounts to DF-3, DF-156 and some competitors models.
- Heaviest winch in its class at 1,650 lbs.
- No ratchet or ratchet handle extension.
- Fully guarded gears.
- High load release brake is a multi-disc system that incorporates all stainless steel moving parts.

MODEL NO.	HOLDING DOG & OR BRAKE	LINE PULL @ FIRST LAYER WITH ONE MAN (LBS)		DRUM CAPACITY (FT)					WT
DF-356-FST	S. TONS	HAND WHEEL	RATCHET W/ STD. EXT.	5/8"	3/4"	7/8"	1"	1-1/8"	LBS
40-11-M	40	8,000	17,800	340	219	132	115	60	1,650
40-18-M	40	8,000	17,800	563	363	224	198	107	1,875

"The linkage between tax rates and public services is, if not non-existent, negative."

—Arthur Laffer

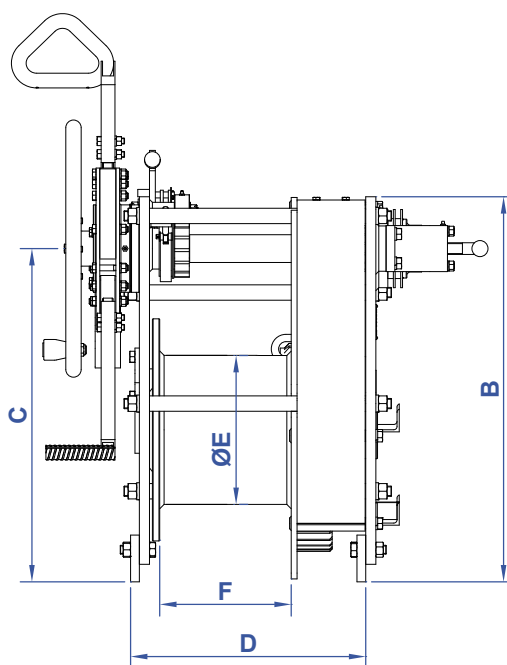
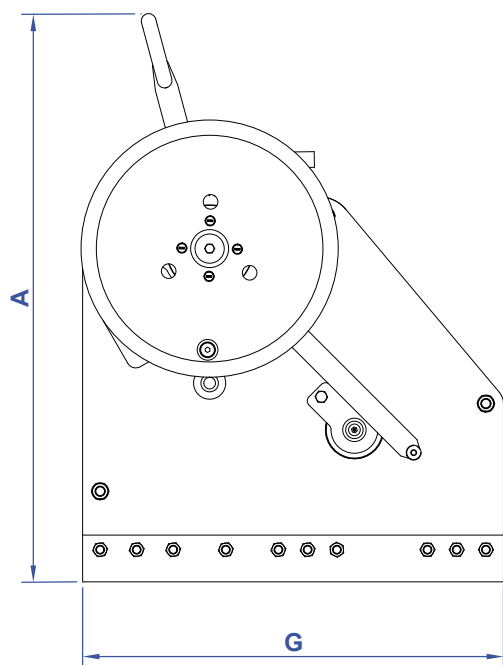
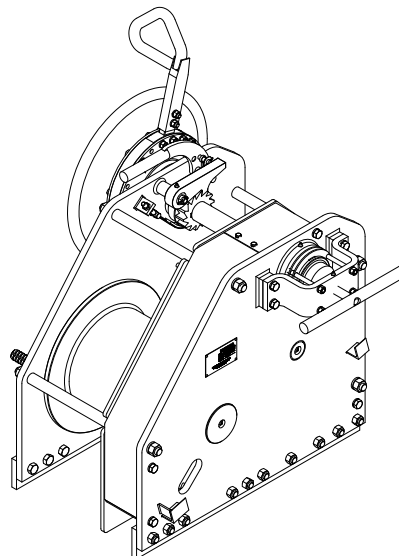
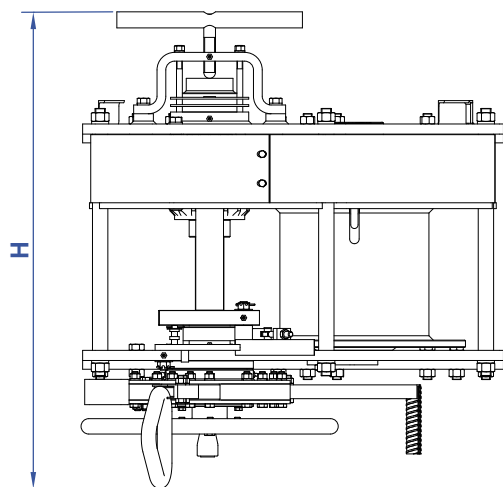
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DF-356 W/ FASST WINDER™ WINCH



MODEL NO.	A	B	C	D	ØE	F	G	H
DF-356-40-11-M	48-9/16"	33"	28-1/2"	20-1/8"	12-3/4"	11-1/4"	36"	40-3/4"
DF-356-40-18-M	48-9/16"	33"	28-1/2"	26-1/4"	12-3/4"	18-1/8"	36"	46-7/8"



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DF-629 W/ FASST WINDER™ WINCH



- No ratchet or ratchet handle extension.
- Fastest and easiest way to fully tighten a winch.
- Large D over D ratio 20:1 ANSI/ASME minimum is 15:1 for pulling and 18:1 for lifting.
- Hard chrome plated shafts, SS hardware and galvanized winch body.
- Patent pending, large, single layer drum.
- Tapered drum design eliminates multi-layer spooling causing crushing and inconsistent wire tensioning.
- Fully enclosed drivetrain to help protect the operator, wire and gearing.
- Simple operation, wire pulls out easily, takes up very little deck space.
- Requires almost no retightening with only one layer of wire.
- Open design drum allows for 100 percent wire inspection and no damaged wire overfilling the drum cavity.
- Patented drum and high load release dog with automatic brake make this winch easy to use and appreciate.
- Patented/Patent Pending (Publication # US 20140124719 A1)

MODEL NO.	HOLDING DOG & OR BRAKE	LINE PULL (LBS)	DRUM CAPACITY (FT)		WEIGHT LBS
	S. TONS		7/8"	1"	
DF-629-FST	40	15,000	30	25	1,177

"Taxes are the lifeblood of government and no taxpayer should be permitted to escape the payment of his just share of the burden of contributing thereto."

—Arthur Vanderbilt

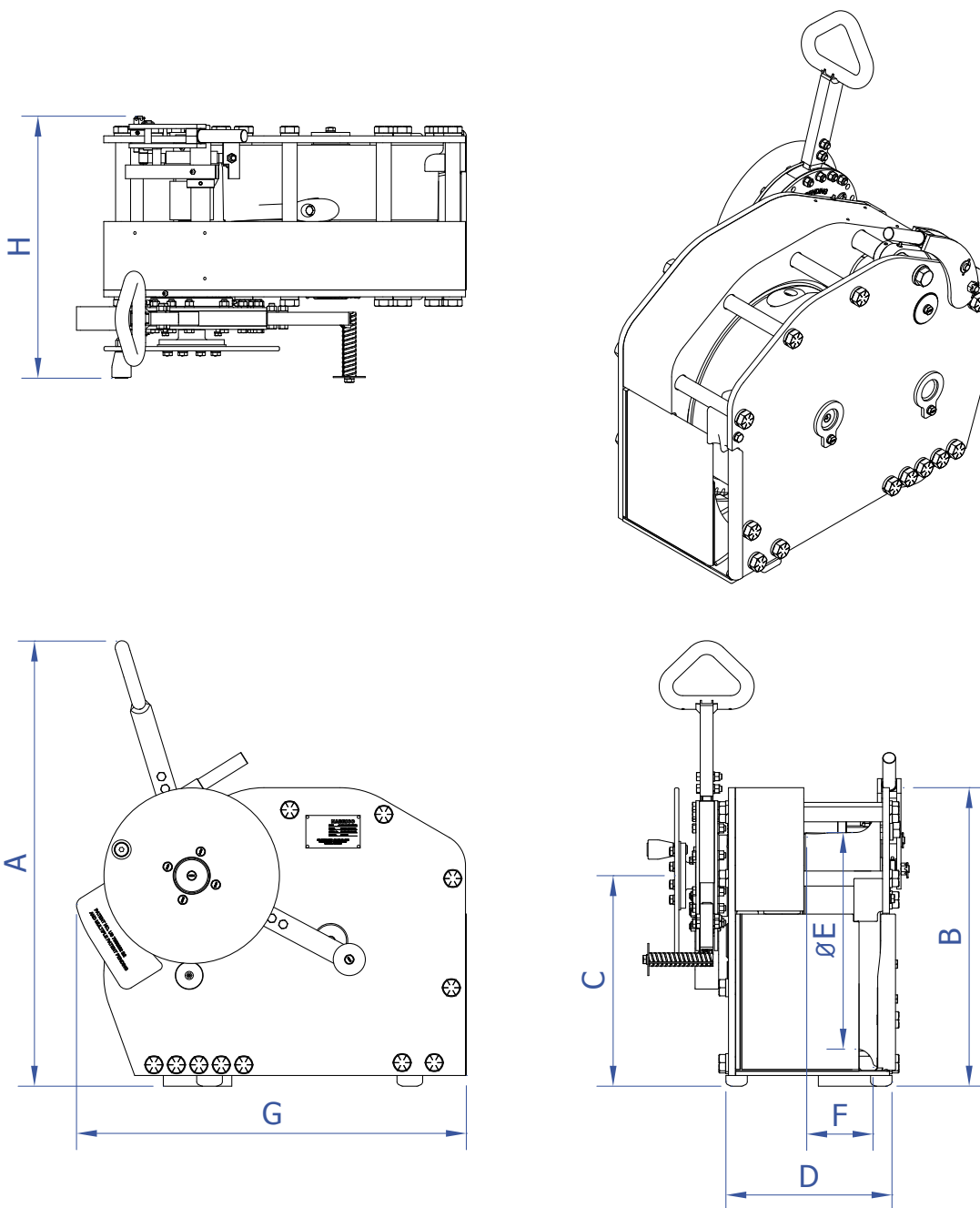
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DF-629 W/ FASST WINDER™ WINCH



MODEL NO.	A	B	C	D	ØE	F	G	H
DF-629-FST-40-6	40-15/16"	27-7/16"	19-3/8"	15-1/4"	19-7/8"	6"	35-7/8"	24"



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DF-629 SIDEWINDER WINCH



- Large D over D ratio 20:1 ANSI/ASME minimum is 15:1 for pulling and 18:1 for lifting.
- Hard chrome plated shafts, SS hardware and galvanized winch body.
- Simple operation, wire pulls out easily, takes up very little deck space.
- Tapered drum design eliminates multi-layer spooling causing crushing and inconsistent wire tensioning.
- Fully enclosed drivetrain to help protect the operator, wire and gearing.
- Patent pending, large, single layer drum.
- Requires almost no retightening with only one layer of wire.
- Open design drum allows for 100 percent wire inspection and no damaged wire overfilling the drum cavity.
- Patented drum and high load release dog with automatic brake make this winch easy to use and appreciate.
- Patented/Patent Pending (Publication # US 20140124719 A1).

MODEL No.	HOLDING DOG	LINE PULL - RATCHET	DRUM CAPACITY (FT)		WEIGHT
	LBS	LBS	7/8"	1"	LBS
DF-629	80,000	15,000	30	25	1,117

"In levying taxes and in shearing sheep it is well to stop when you get down to the skin."

—Austin O'Malley

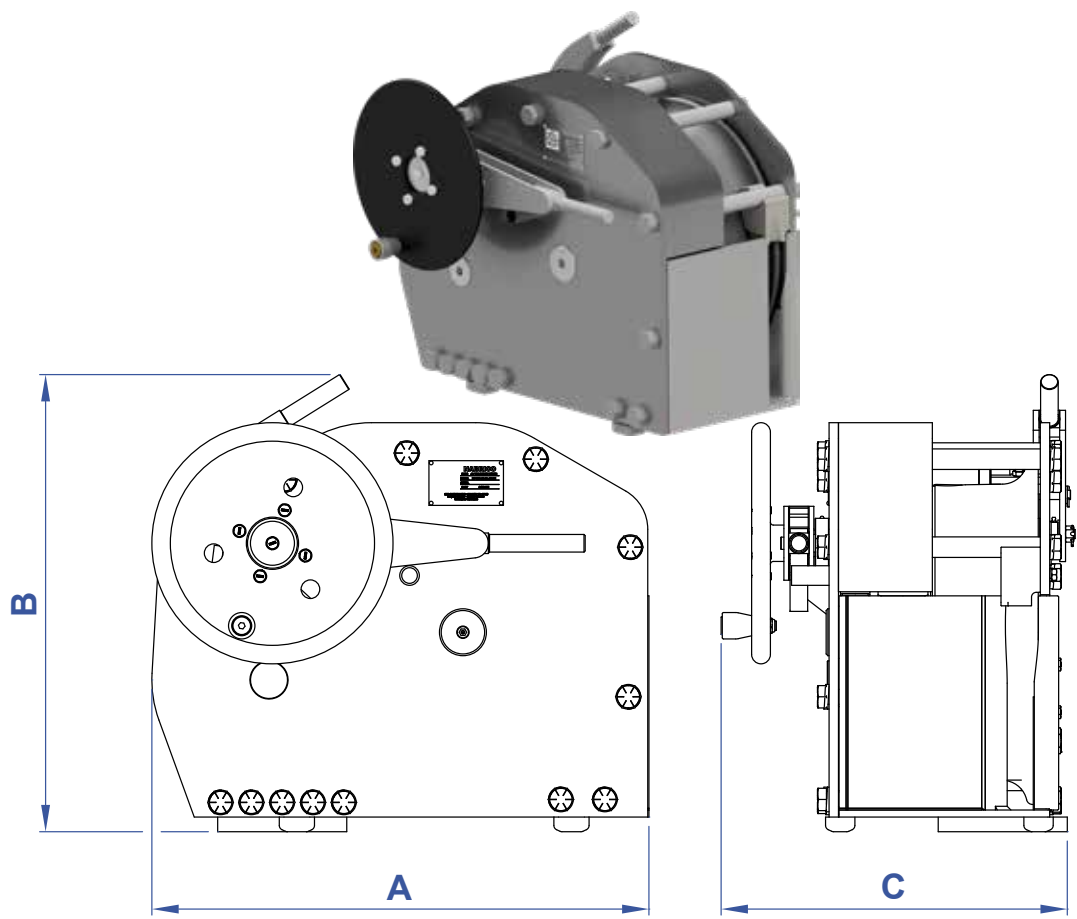
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DF-629 SIDEWINDER WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	62911	62910

MODEL No.	PART No.	A	B	C	WT. (LBS)
DF-629	REFER TO COATING TABLE	33-3/8"	30-5/8"	23-1/4"	1,177

“We have but a slender hold of our virtues; they ought, therefore, to be cherished with care, and practised with diligence.”

—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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DF-3 MANUAL WINCH



- Revolutionary new high load release dog system.
- High load release brake with secondary anti-backlash drag brake that is activated automatically with the release of the dog.
- High load release brake is a multi-disc system that incorporates all stainless steel parts.
- Fastest acting and most powerful brake available.
- 4 Bolt lug removable handwheel.
- New simpler heavy duty ratchet assembly with no springs or levers.
- Minimal maintenance.

- Easy to repair.
- All stainless steel and silicon bronze fasteners including separator rods.
- 3-Ply conveyor belt covers (damage and corrosion resistant).
- Galvanized coating available.
- Saltwater package standard with 3-part paint system.
- Heaviest winch in its class.
- True right and left hand models for use in pairs.
- Totally enclosed drive train with the smallest deck footprint in the industry.

MODEL No.	HOLDING-DOG &/OR BRAKE	LINE PULL @ FIRST LAYER WITH ONE MAN		DRUM CAPACITIES (FT)				WT	DIMENSIONAL DATA		
	S. TONS	HAND WHEEL	RATCHET W/ STD. EXT.	5/8"	3/4"	7/8"	1"	LBS	W	L	H
DF-3-30	30 TONS	5,000	22,000	233	141	123	67	1109	19-3/8"	22"	35-1/2"
DF-3-40	40 TONS	5,000	19,000	285	173	150	83	1567	20-1/8"	23-1/4"	43-1/2"

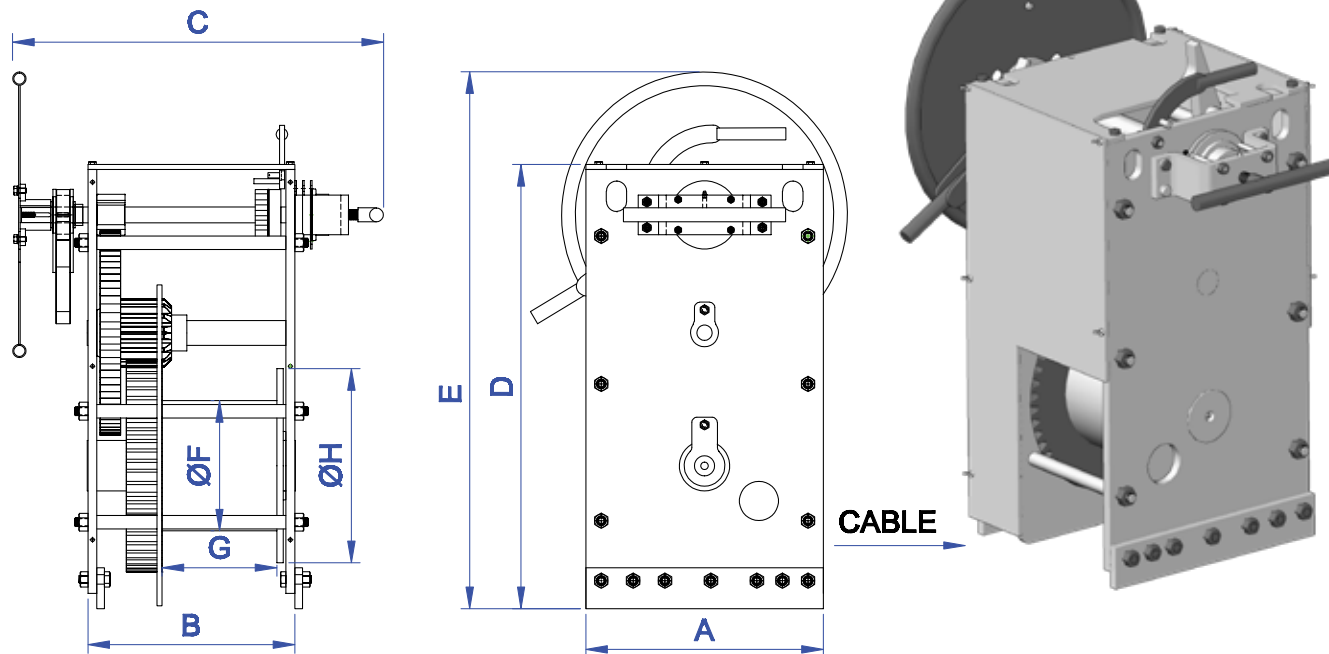
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30 TON UPRIGHT MANUAL WINCH



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	94241	94242
GALVANIZED	94243	94244

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-3-30	REFER TO COATING TABLE	22"	19-3/8"	33-1/2"	35-1/2"	44-9/16"	10-3/4"	11"	16"	1065

"America's abundance was created not by public sacrifices to 'the common good,' but by the productive genius of free men who pursued their own personal interests and the making of their own private fortunes. They did not starve the people to pay for America's industrialization. They gave the people better jobs, higher wages and cheaper goods with every new machine they invented, with every scientific discovery or technological advance—and thus the whole country was moving forward and profiting, not suffering, every step of the way."

—Ayn Rand



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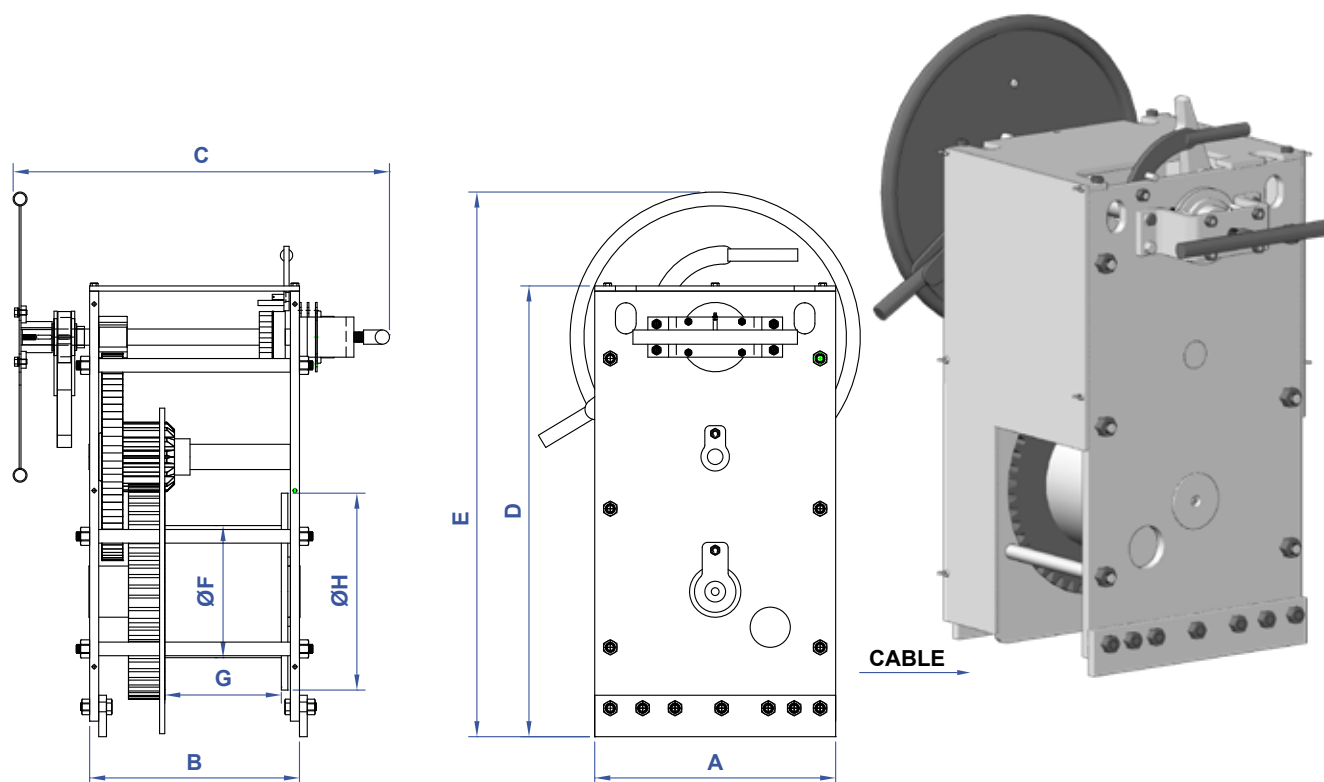
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40 TON UPRIGHT MANUAL WINCH

BR

WINCHES



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	94237	94238
GALVANIZED	94239	94240

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-3-40	REFER TO COATINGS TABLE	23-1/4"	20-1/8"	36-1/16"	43-1/2"	52-9/16"	12-3/4"	11-1/4"	19"	1525

"When more of the people's sustenance is exacted through the form of taxation than is necessary to meet the just obligations of government and expenses of its economical administration, such exaction becomes ruthless extortion and a violation of the fundamental principles of free government."

—Grover Cleveland

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DF-156 MANUAL WINCHES



FEATURES

- All steel construction.
- High load release brake is a multi-disc system that incorporates all stainless steel moving parts.³
- Fastest acting and most powerful brake available.
- 4 bolt hub removable handwheel.
- Simpler heavy duty ratchet assembly with no springs or levers.
- Bronze bushed bearings.
- Alemite fittings for proper lubrication.
- True left and right hand model for use in pairs.
- Blasted and painted, galvanized and other coatings available.
- All stainless steel and silicon bronze fasteners including separator rods.

MODEL	MOUNT	DOG HOLDING (1)	LINE PULL		GEAR RATIO	DRUM FLANGE DIAM.	DRUM	
			HAND WHEEL ONE MAN	RACHET W/ STANDARD EXTENSION			DIAM.	WIDTH (2)
DF-156		S.T.	LBS.	LBS.		IN.	IN.	IN.
10-6-M	Right/Left	10	3,000	7,000	5.57:1	18	8.625	6.0
20-7-M	Right/Left	20	8,000	19,000	18.57:1	16	10.75	7.25
40-11-M	Right/Left	40	6,000	17,800	18.57:1	19	12.75	11.25
40-18-M	Right/Left	40	6,000	17,800	18.57:1	19	12.75	18.125
60-11-M	Right/Left	60	7,500	28,800	27.0:1	24	14.00	10.625
75-11-M	Right/Left	75	7,500	28,800	27.0:1	24	14.00	10.625

MODEL	DRUM CAPACITIES (FT.)									WEIGHT (LBS.)
	CABLE SIZE									
	7/16	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2	
DF-156	7/16	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2	
10-6-M	353	317	174	129	-	-	-	-	-	500
20-7-M	270	186	109	57	39	21	-	-	-	850
40-11-M	-	-	287	176	130	84	36	26	-	1250
40-18-M	-	-	463	279	151	139	58	51	-	1350
60-11-M	-	-	572	325	262	200	119	111	62	2100
75-11-M	-	-	572	325	262	200	119	111	62	2800

1. HOLDING AND LINE PULL RATINGS ARE FOR FIRST LAYER OF CABLE.

2. WIDER DRUM WIDTHS AVAILABLE ON REQUEST.

3. DISC BRAKE OPTIONAL EXTRA FOR 10 TON MODEL.

Winches portrayed in drawings, photographs and copy are not designed for lifting or lowering persons or equipment.



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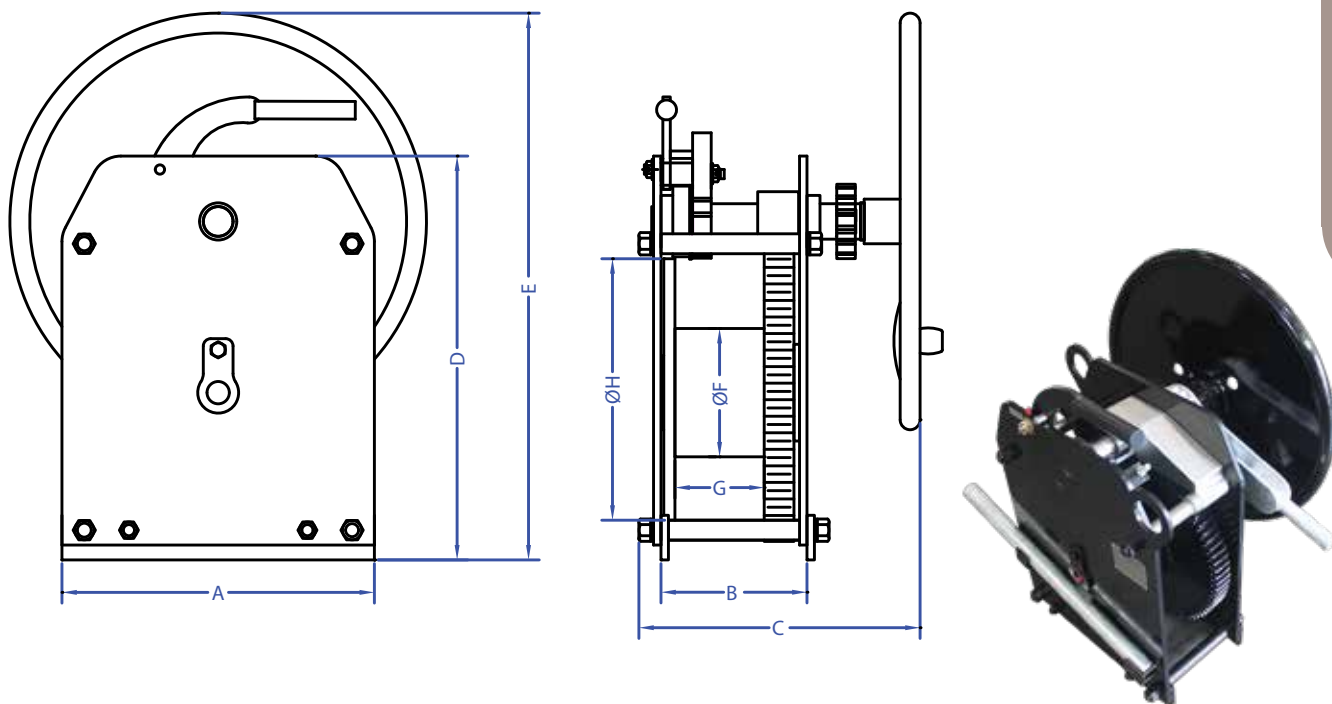
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10 TON MANUAL WINCH

BR

WINCHES



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	6593	6592
GALVANIZED	6591	6590

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-156-10	REFER TO COATINGS TABLE	21"	9-13/16"	19"	27-1/8"	36-3/4"	8-5/8"	6"	18"	500

"The income tax created more criminals than any other single act of government."

—Barry Goldwater

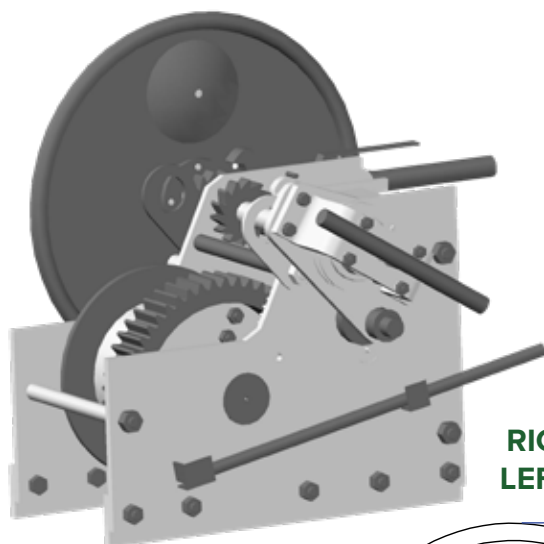
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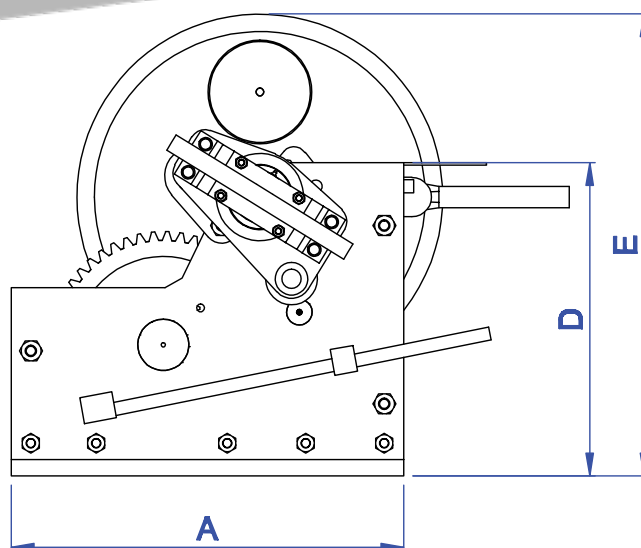
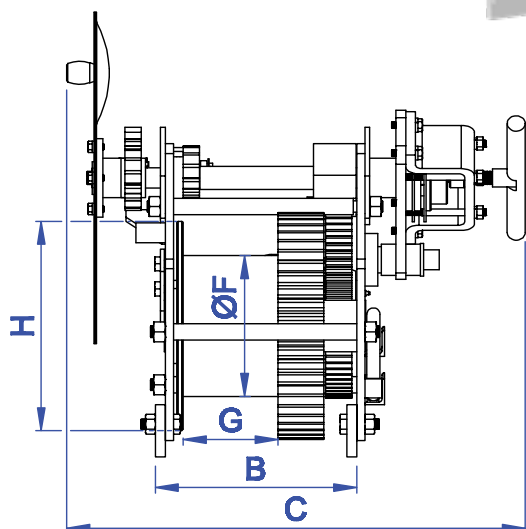


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20 TON MANUAL WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	71504	6600
GALVANIZED	87508	87508

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-156-20	REFER TO COATINGS TABLE	30"	15-3/8"	33"	24"	34"	10-3/4"	7-1/4"	16"	850

"Every culture has some ritual for joining two people together and making them stay that way, and ours is giving tax breaks."

—Bauvard

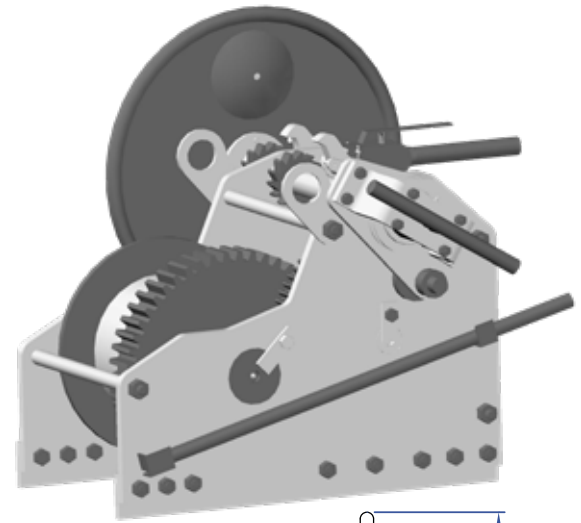


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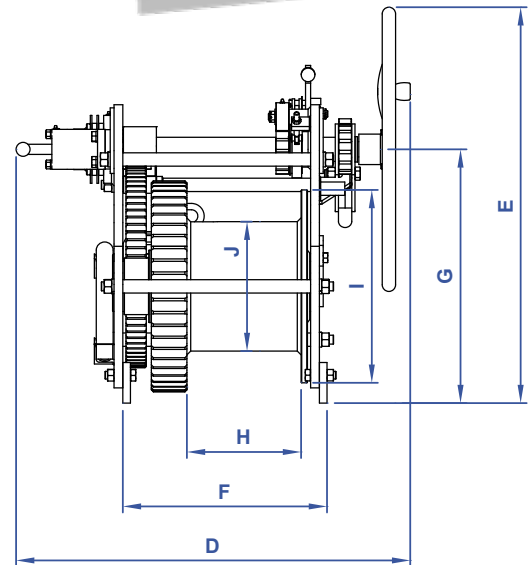
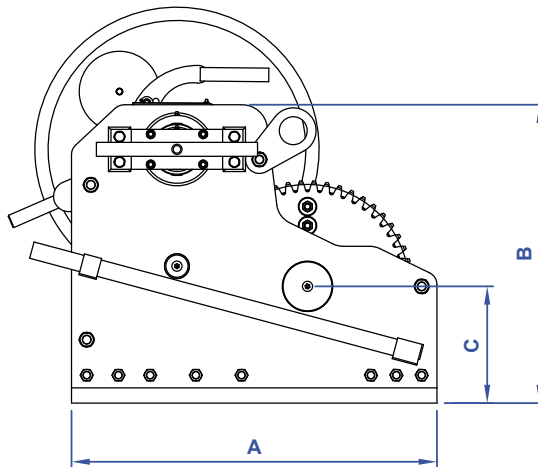
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40 TON MANUAL WINCH



RIGHT HAND WINCH SHOWN IN 3D MODEL
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	94201	94200
GALVANIZED	94207	94206

MODEL No.	PART No.	A	B	C	D	E	F	G	H	ØI	ØJ	WT. (lbs.)
DF-156-40	REFER TO COATINGS TABLE	36"	29-3/8"	11-1/2"	38-13/16"	39"	20-1/8"	25"	11-1/4"	19"	12-3/4"	1250

"I make my practices real hard because if a player is a quitter, I want him to quit in practice, not in a game."

—Bear Bryant

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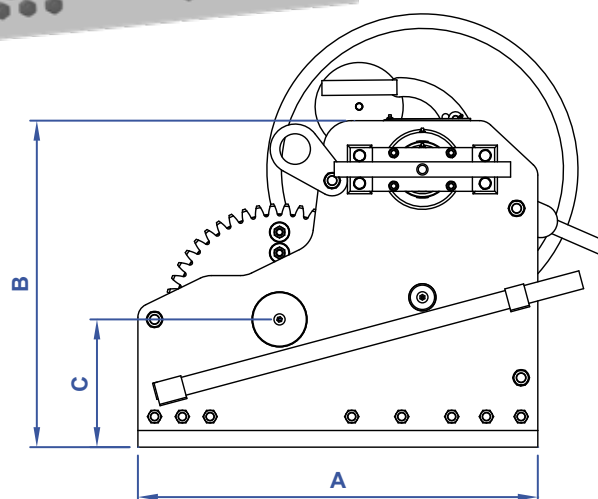
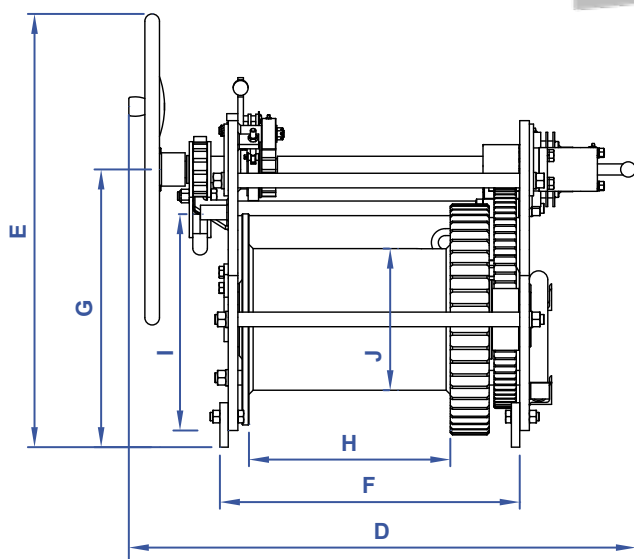
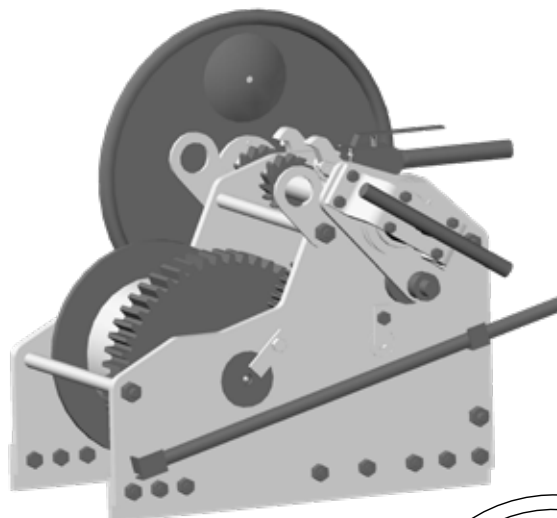
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40 TON 18" WIDE MANUAL WINCH

RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	94203	94202
GALVANIZED	94209	94208

MODEL No.	PART No.	A	B	C	D	E	F	G	H	ØI	ØJ	WT. (lbs.)
DF-156-40	REFER TO COATINGS TABLE	36"	29-3/8"	11-1/2"	45-5/8"	39"	27"	25"	18-1/8"	19"	12-3/4"	1350

"There is no similarity between golf and putting; they are two different games, one played in the air, and the other on the ground."

—Ben Hogan

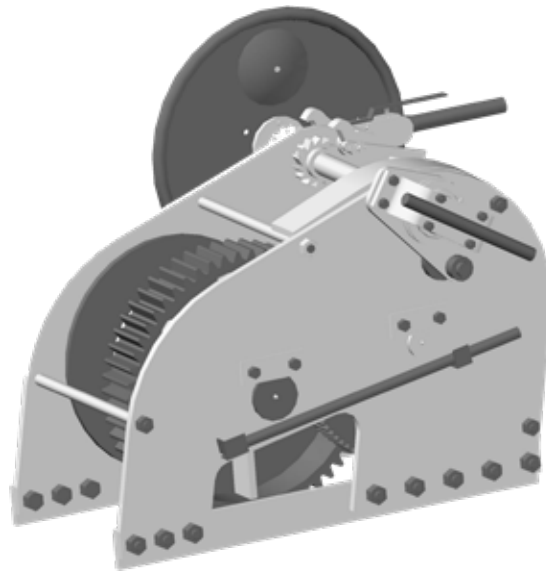


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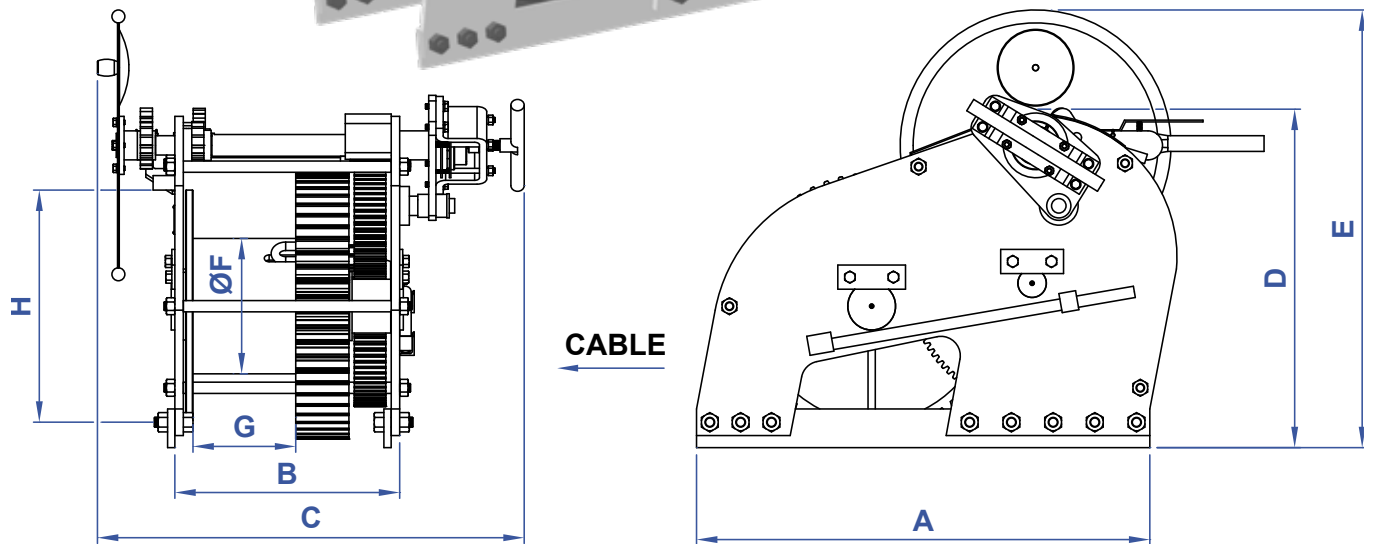
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60 TON MANUAL WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	72033	6518
GALVANIZED	72034	6519

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-156-60	REFER TO COATINGS TABLE	49-1/8"	23-1/4"	45"	35"	45-1/2"	14"	10-5/8"	24"	2300

"People say capitalism is selfishness. No, socialism is selfishness. The idea that I have to pay for you to paint watercolors in your basement is a selfish philosophy."

—Ben Shapiro

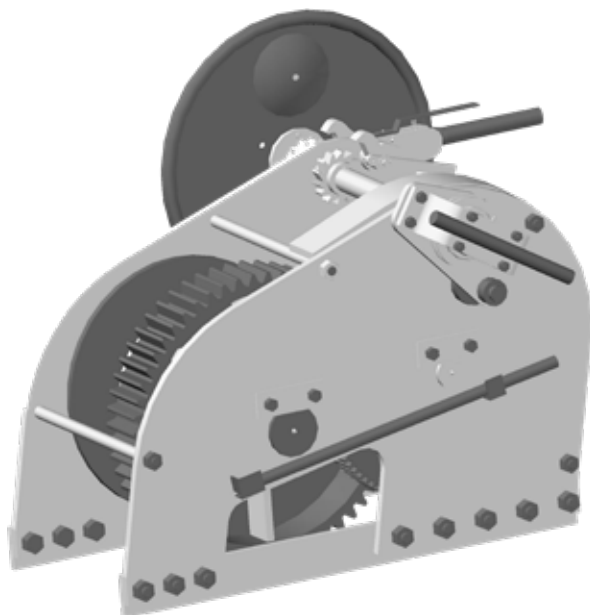
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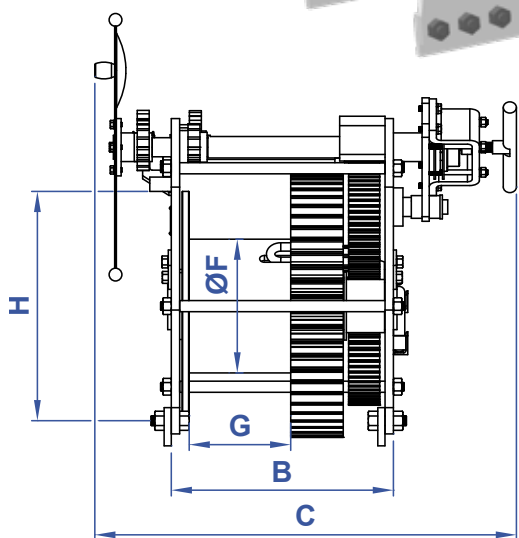


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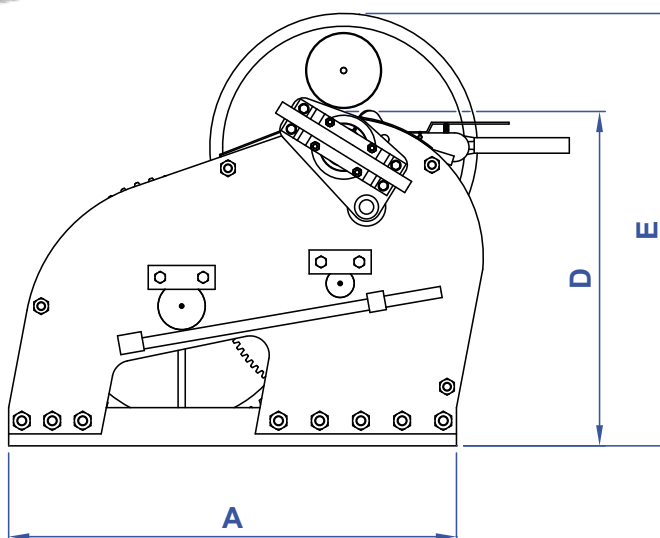
75 TON MANUAL WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



CABLE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	72053	72052

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-156-75	REFER TO COATINGS TABLE	49-1/8"	23-1/4"	45"	35"	45-1/2"	14"	10-5/8"	24"	2800

"Those that can give up essential liberty to gain a little temporary safety deserve neither liberty nor safety."

—Benjamin Franklin



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DF-529 LOW PROFILE WINCH



- Heavy duty springless, galvanized ratchet handles.
- Stainless steel brake drum and band.
- Chrome plated shafts.
- Bronze bushings with graphite inserts.
- Stainless / bronze hardware.
- Two-piece side plate for easy maintenance.
- “Easy off” handwheel.
- Doubler plate, base bar, d-ring or swivel mounting.
- Right and left hand models.
- Blasted and epoxy painted.
- Hot dipped galvanized option available.
- High load release dog.

MODEL No.	HOLDING DOG &/OR BRAKE	LINE PULL @ FIRST LAYER WITH ONE MAN (LBS)		DRUM FLANGE DIAM.	DRUM		DRUM CAPACITIES (FT)				DIMENSIONAL DATA (INCHES)		
	S. TONS	HAND WHEEL	RATCHET W/ STD. EXT.		DIAM	WIDTH	5/8"	3/4"	7/8"	1"	W	L	H
DF-529	40 TONS	2,000	8,000	14"	6.6"	6.89"	126	95	85	70	12-1/2"	19-3/4"	22-3/4"

“When the people find that they can vote themselves money, that will herald the end of the republic.”

—Benjamin Franklin

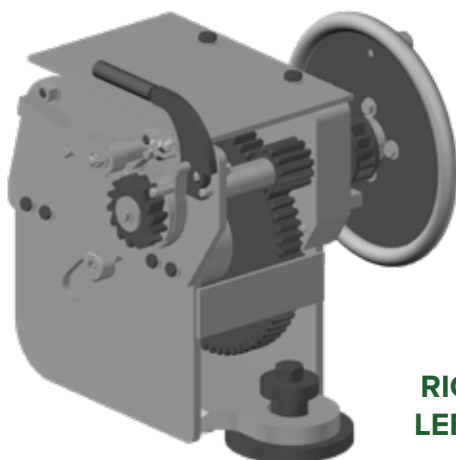
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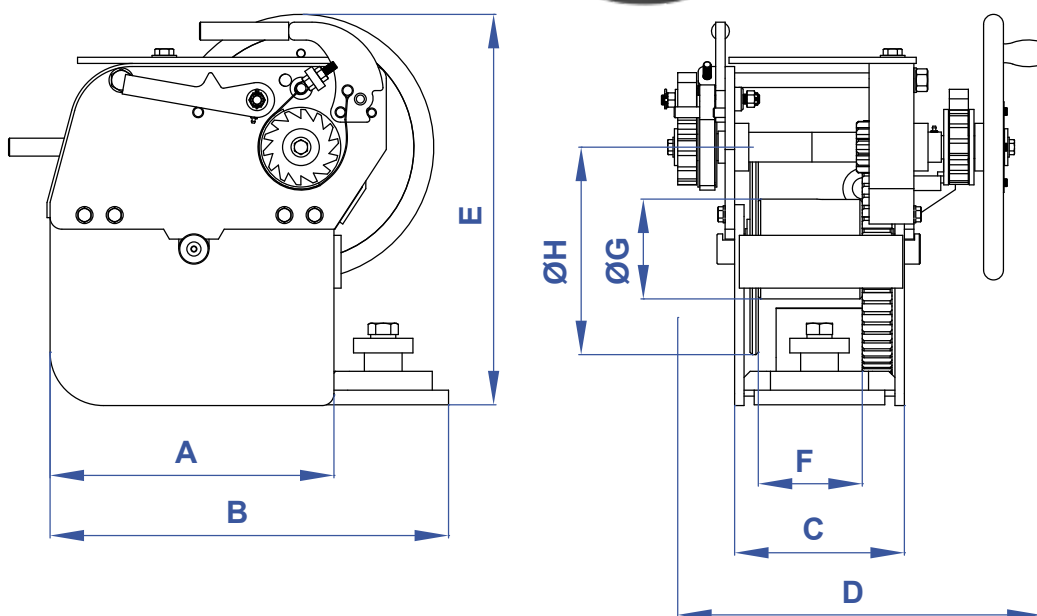


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40 TON LP BUTTON MOUNT WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	90088	90098
GALVANIZED	89101	89100

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-529	REFER TO COATINGS TABLE	18-3/4"	26-1/2"	11-1/4"	24"	25-1/2"	6-7/8"	6-5/8"	14"	550

"Where carcasses are, eagles will gather, And where good laws are, much people flock thither."

—Benjamin Franklin



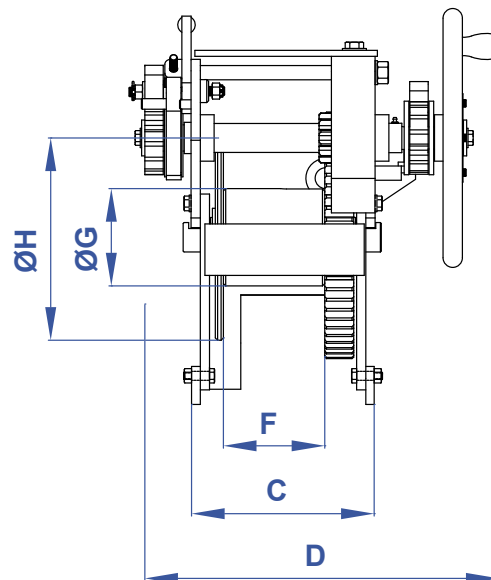
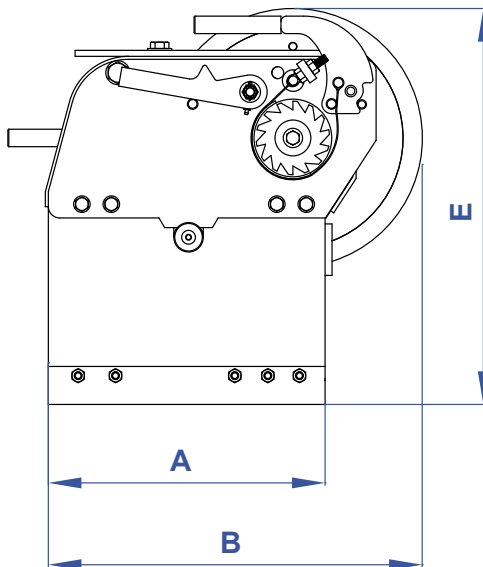
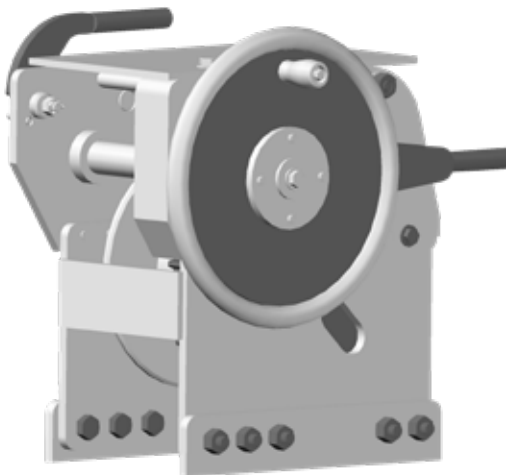
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40 TON LP BASE BAR MOUNT WINCH

RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	89081	89080
GALVANIZED	89103	89102

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-529	REFER TO COATINGS TABLE	19-11/16"	26-1/2"	12-1/2"	24"	25-1/2"	6-7/8"	6-5/8"	14"	480

"Our new Constitution is now established, everything seems to promise it will be durable; but, in this world, nothing is certain except death and taxes."

—Benjamin Franklin

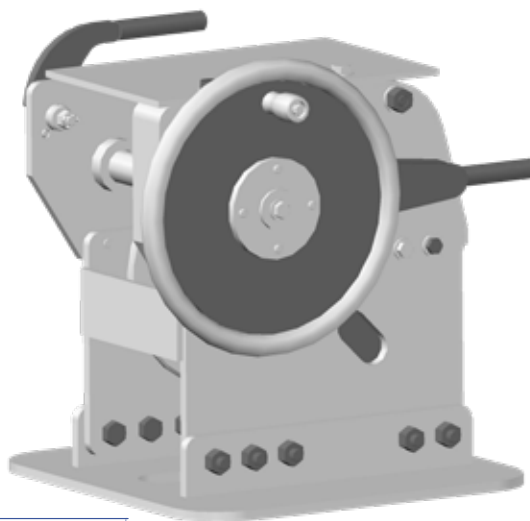
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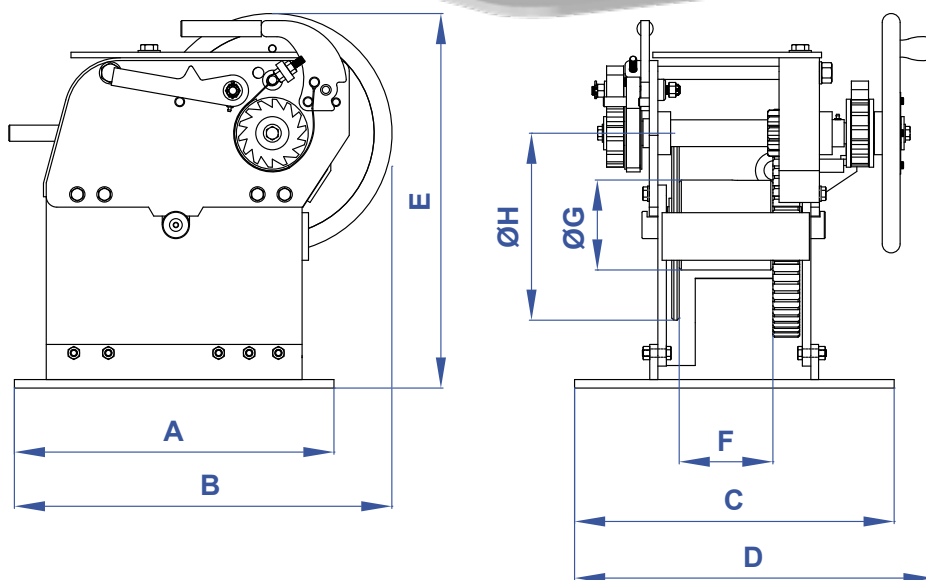


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40 TON LP DOUBLER PLATE MOUNT



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	89088	89098
GALVANIZED	89092	89093

MODEL No.	PART No.	A	B	C	D	E	ØF	G	ØH	WT. (lbs.)
DF-529	REFER TO COATINGS TABLE	23-1/2"	28-3/8"	23-1/2"	24-1/2"	25-1/2"	6-7/8"	6-5/8"	14"	550

"There never was a good war or a bad peace."

—Benjamin Franklin



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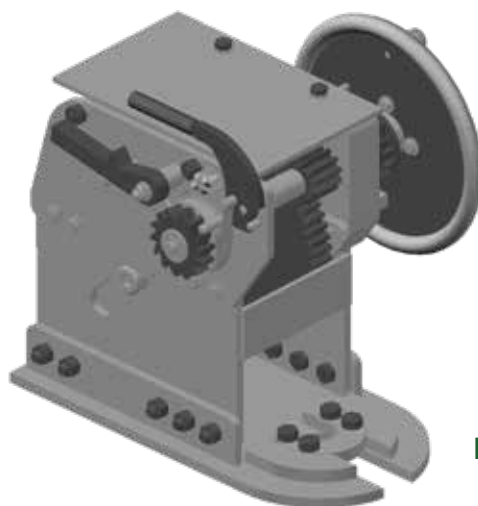
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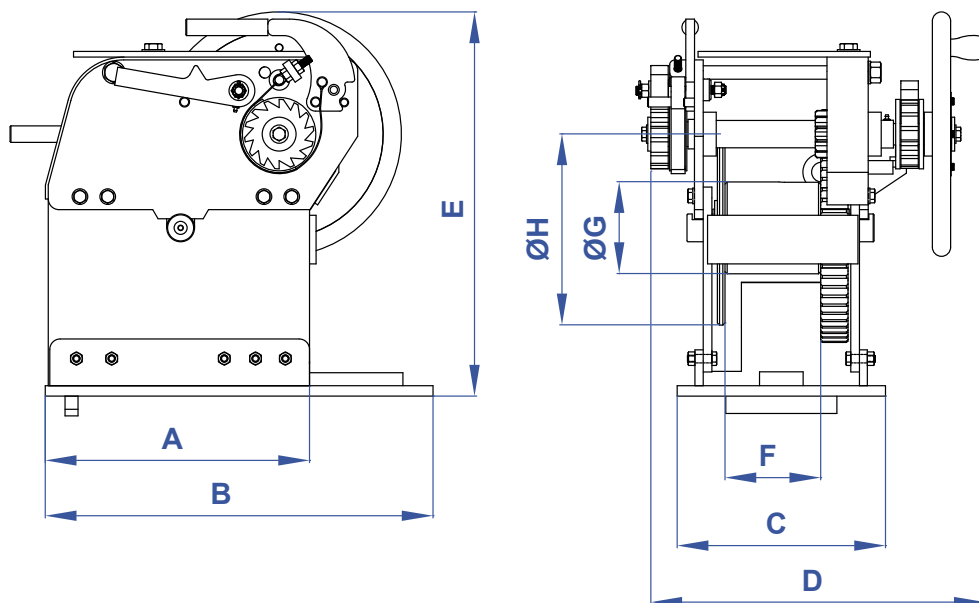
40 TON LP D-RING MOUNT WINCH

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WINCHES



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED BLACK	89083	89082
GALVANIZED	89090	89091

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-529	REFER TO COATINGS TABLE	19-11/16"	29-1/2"	15"	24"	25-1/2"	6-7/8"	6-5/8"	14"	550

"Where liberty dwells, there is my country."

—Benjamin Franklin

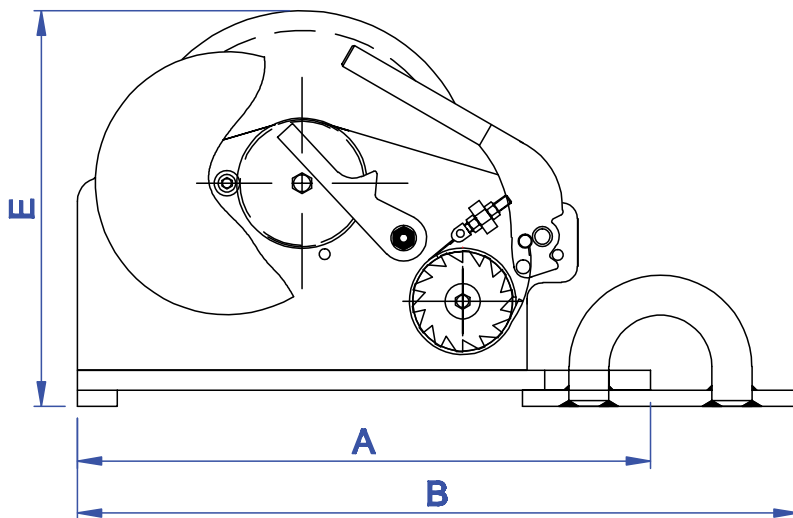
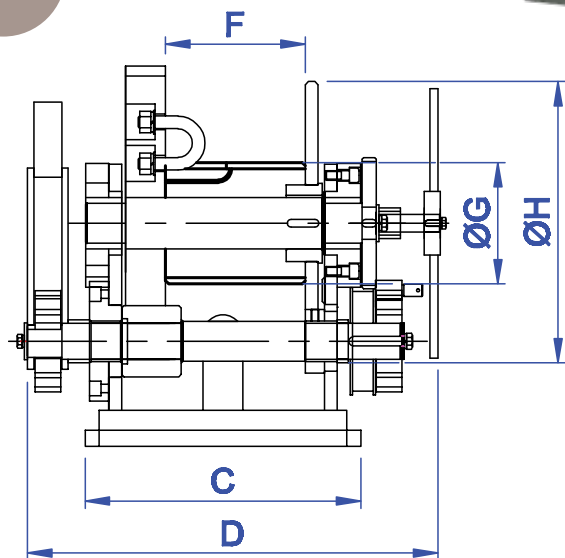
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40 TON COMPACT LOW PROFILE WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE

COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	89061	89060

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (lbs.)
DF-539	REFER TO COATINGS TABLE	28-5/16"	35-9/16"	13-9/16"	19-7/8"	19-1/2"	6-7/8"	6"	14"	500

"God grant, that not only the Love of Liberty, but a thorough Knowledge of the Rights of Man, may pervade all the Nations of the Earth, so that a Philosopher may set his Foot anywhere on its Surface, and say, 'This is my Country.'"

—Benjamin Franklin

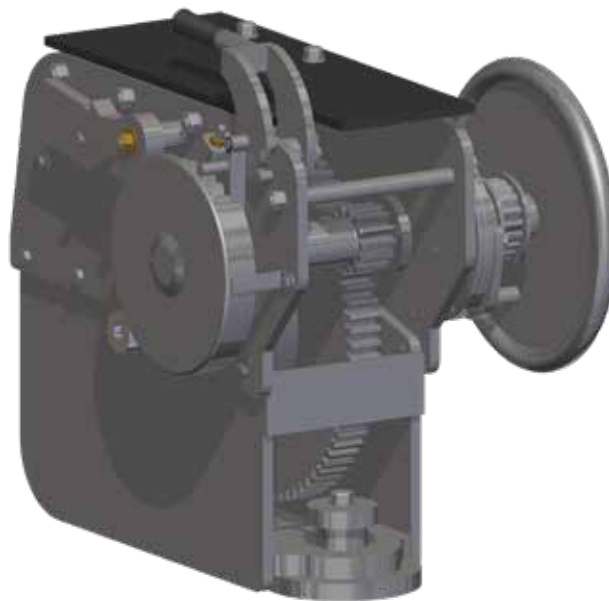


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DF-545 PLANETARY WINCH



- Lowest cost of ownership — SS parts and fasteners attach simple assemblies that are field replaceable.
- Full load release — Patented design. No need to ever beat out the locking dog and built with a stainless brake that will not corrode.
- Two-speed spooling — Fast 5:1 at the handwheel and Powerful 19:1 using the ratchet.
- Compact and easy to maneuver at 690 lbs.
- Wire control — Proven to reduce fouling with easy payout.
- Wire capacity — Drum will spool 70' of 1" wire.
- Durable enclosure — No flimsy guards to get in the way, we use plate and belting.

MODEL No.	HOLDING DOG	LINE PULL @ FIRST LAYER WITH ONE MAN (LBS)		DRUM CAPACITIES (FT)
	S. TONS	HAND WHEEL	RATCHET W/ STD. EXT.	1"
DF-545	40	2,000	18,000	70

Rebellion

"By gnawing through a dyke, even a rat may drown a nation."

—Edmund Burke

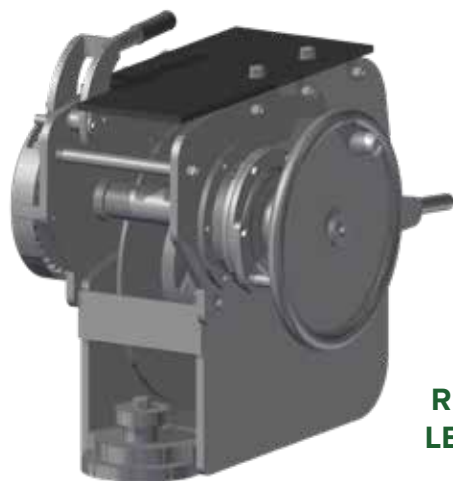
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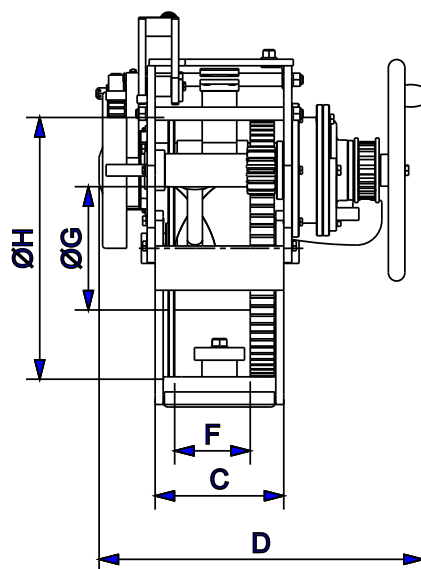
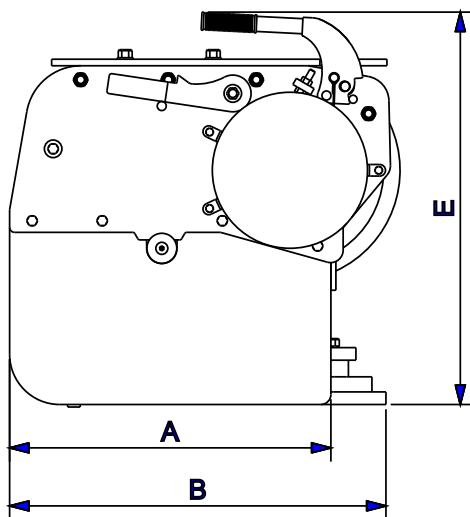


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DF-545 PLANETARY WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
GALVANIZED	88876	88875

MODEL No.	PART No.	A	B	C	D	E	F	ØG	ØH	WT. (LBS)
DF-545	REFER TO COATINGS TABLE	25-15/16"	29-5/8"	10-1/8"	25-1/2"	30-11/16"	6"	9-7/8"	20-1/2"	690

“Tis a Common Observation here that our Cause is the Cause of all Mankind; and that we are fighting for their Liberty in defending our own.”

—Benjamin Franklin



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DF-559 CAST DRUM WINCH



- Ultra low profile.
- Simple to use.
- Low cost, easy maintenance.
- Rope drum wedge wire attachment.
- Nodular iron drum.

- 4140 High strength steel drive system.
- Precision investment cast components.
- SS, bronze and hard chromed moving parts.
- Aftermarket parts for other winches in stock.

MODEL NO.	MOUNT	HOLDING DOG &/OR BRAKE	LINE PULL @ FIRST LAYER (LBS)	DRUM CAPACITY (FT)		WEIGHT
		S. TONS	RATCHET W/ STD. EXT.	7/8"	1"	LBS
DF-559-40	PADEYE	40	12,000 (est)	70	40	462

"Friends and neighbors complain that taxes are indeed very heavy, and if those laid on by the government were the only ones we had to pay, we might the more easily discharge them; but we have many others, and much more grievous to some of us. We are taxed twice as much by our idleness, three times as much by our pride, and four times as much by our folly."

—Benjamin Franklin

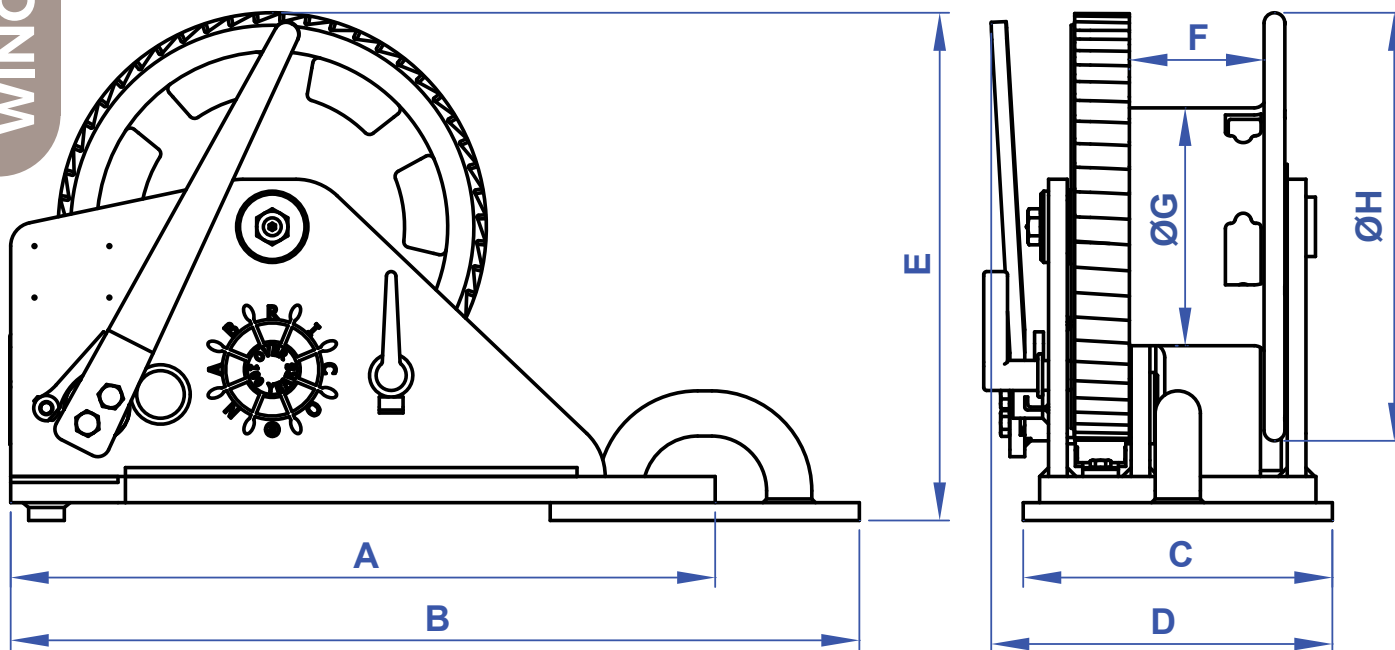
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DF-559 CAST DRUM WINCH



MODEL No.	PART No.	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-559	55900	29-5/8"	35-11/16"	13"	14-3/8"	21-3/8"	5-2/3"	10"	18"	462

"He who holds parley with vice and dishonor, is sure to become their slave and victim."

—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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PARKER WINCH



MODEL	HOLDING CAPACITY	LINE PULL @ FIRST LAYER OF CABLE			LINE SPEED @ FIRST LAYER OF CABLE	DRUM DIMENSIONS			DRUM CAPACITY (ft.)					MOTOR
		@ RATED AMPS	@ MOTOR STALL	HAND WHEEL		FLANGE DIAM.	DRUM DIAM.	DRUM WIDTH	CABLE SIZE (in.)					
	S. TONS	LBS.	LBS.	LBS.	FPM	IN.	IN.	IN.	1/2	5/8	3/4	7/8	1	HP
DF-170-25	25	5,800	7,500	7,000	25	14.75	8.00	7.63	230	195	125	90	65	5.4

Parker Towing Winches have been in the marine marketplace for more than fifty years. Still marketed under the Parker name but owned by NABRICO, they benefit from the added support of NABRICO's commitment to quality, inventory maintenance, continuing product improvement and customer service. We offer an electric model and have made it possible for all manual units to be retrofitted.

"Political freedom includes in it every other blessing. All the pleasures of riches, science, virtue, and even religion itself derive their value from liberty alone. No wonder therefore wise and prudent legislators have in all ages been held in such great veneration; and no wonder too those illustrious souls who have employed their pens and sacrificed their lives in defense of liberty have met with such universal applause. Their reputations, like some majestic river which enlarges and widens as it approaches its parent ocean, shall become greater and greater through every age and outlive the ruins of the world itself."

—Benjamin Rush*

* Founding Father of the United States and signer of the Declaration of Independence.

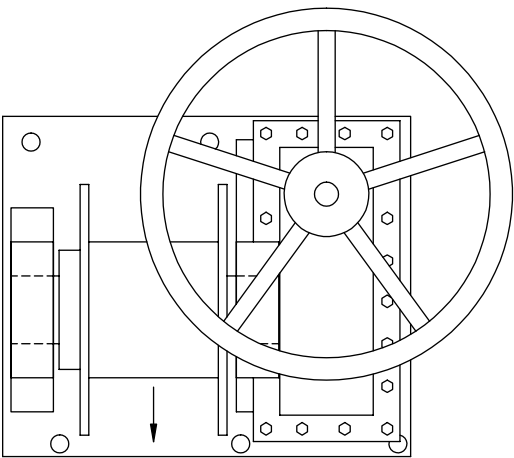
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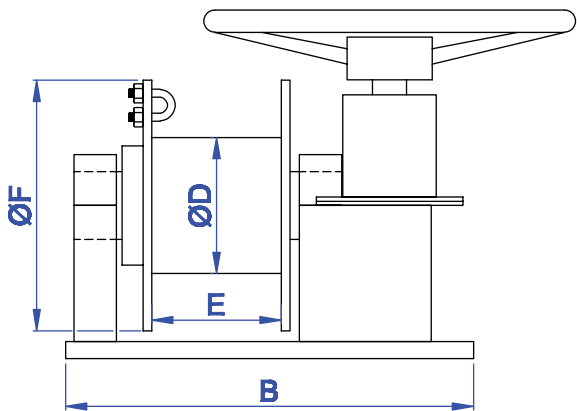
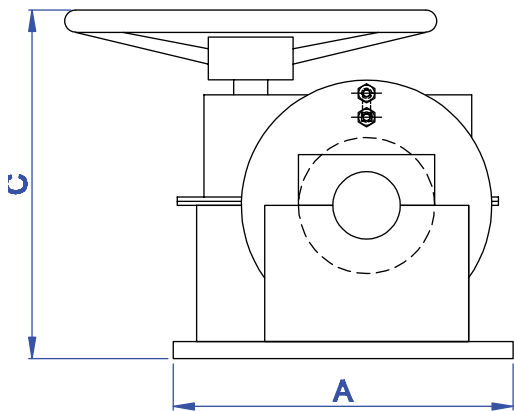


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25 TON PARKER WINCH



LEFT HAND WINCH SHOWN IN MODEL
RIGHT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED	100506	100501

MODEL No.	PART No.	A	B	C	ØD	E	ØF	WT. (lbs.)
DF-170-25-M	REFER TO COATINGS TABLE	20"	24"	20-1/2"	8"	7-5/8"	14-3/4"	680

“To force a man to pay for the violation of his own liberty is indeed an addition of insult to injury.”

—Benjamin Tucker

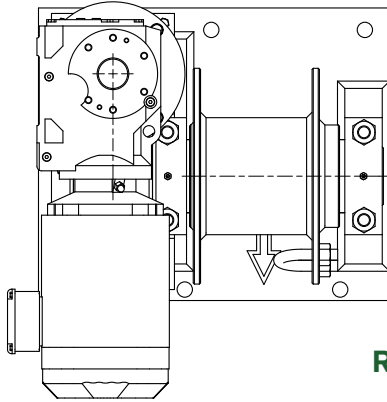


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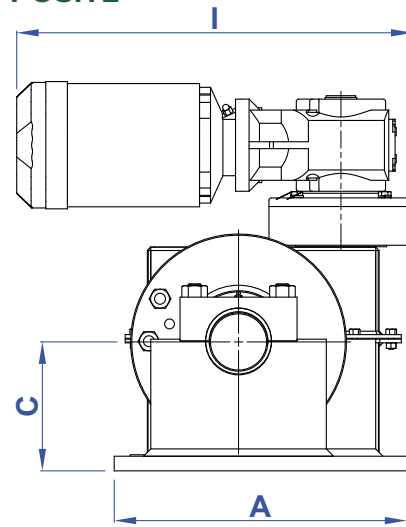
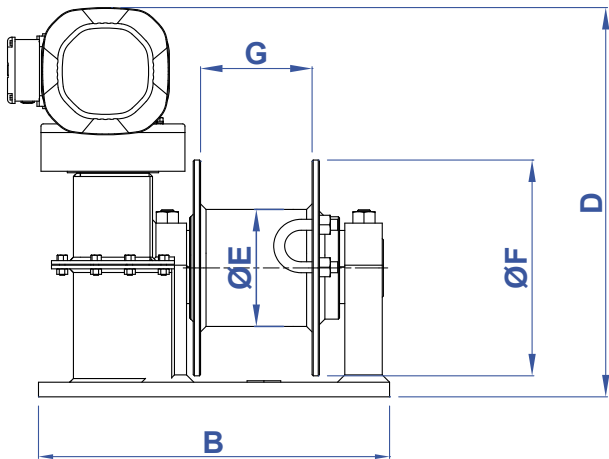
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25 TON PARKER ELECTRIC WINCH



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED	100507	100502

NOTE:

Electric motor replaces the manual handwheel and attaches to the winch by using the adapter shaft (PN 100708) and adapter ring (PN 100709).

MODEL No.	PART No.	A	B	C	D	ØE	ØF	G	H	WT. (lbs.)
DF-170-25-E	REFER TO COATINGS TABLE	20"	24"	8-13/16"	26-5/8"	8"	14-3/4"	7-5/8"	27"	840

"We must care for each other more, and tax each other less."

—Bill Archer

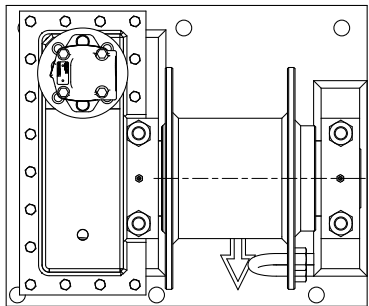
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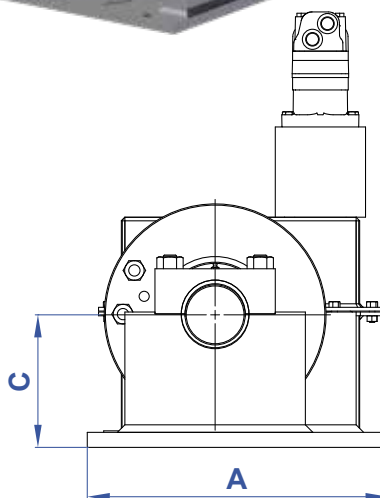
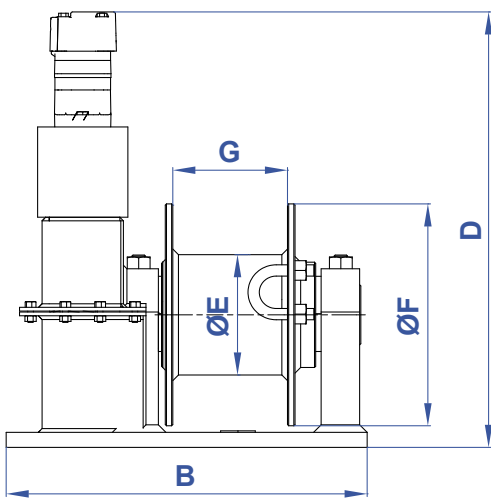


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25 TON PARKER HYDRAULIC WINCH



LEFT HAND
WINCH SHOWN
RIGHT HAND
WINCH OPPOSITE



COATINGS	RH WINCH PART No.	LH WINCH PART No.
PAINTED	100911	100910

NOTE:
Hydraulic motor replaces the manual handwheel and attaches to the winch by using the adapter shaft (PN 100908) and adapter ring (PN 100909).

MODEL No.	PART No.	A	B	C	D	ØE	ØF	G	WT. (lbs.)
DF-170-25-H	REFER TO COATINGS TABLE	20"	24"	8-13/16"	29"	8"	14-3/4"	7-5/8"	840

"The heart is more than half corrupted, that does not burn with indignation at the slightest attempt to seduce it."

—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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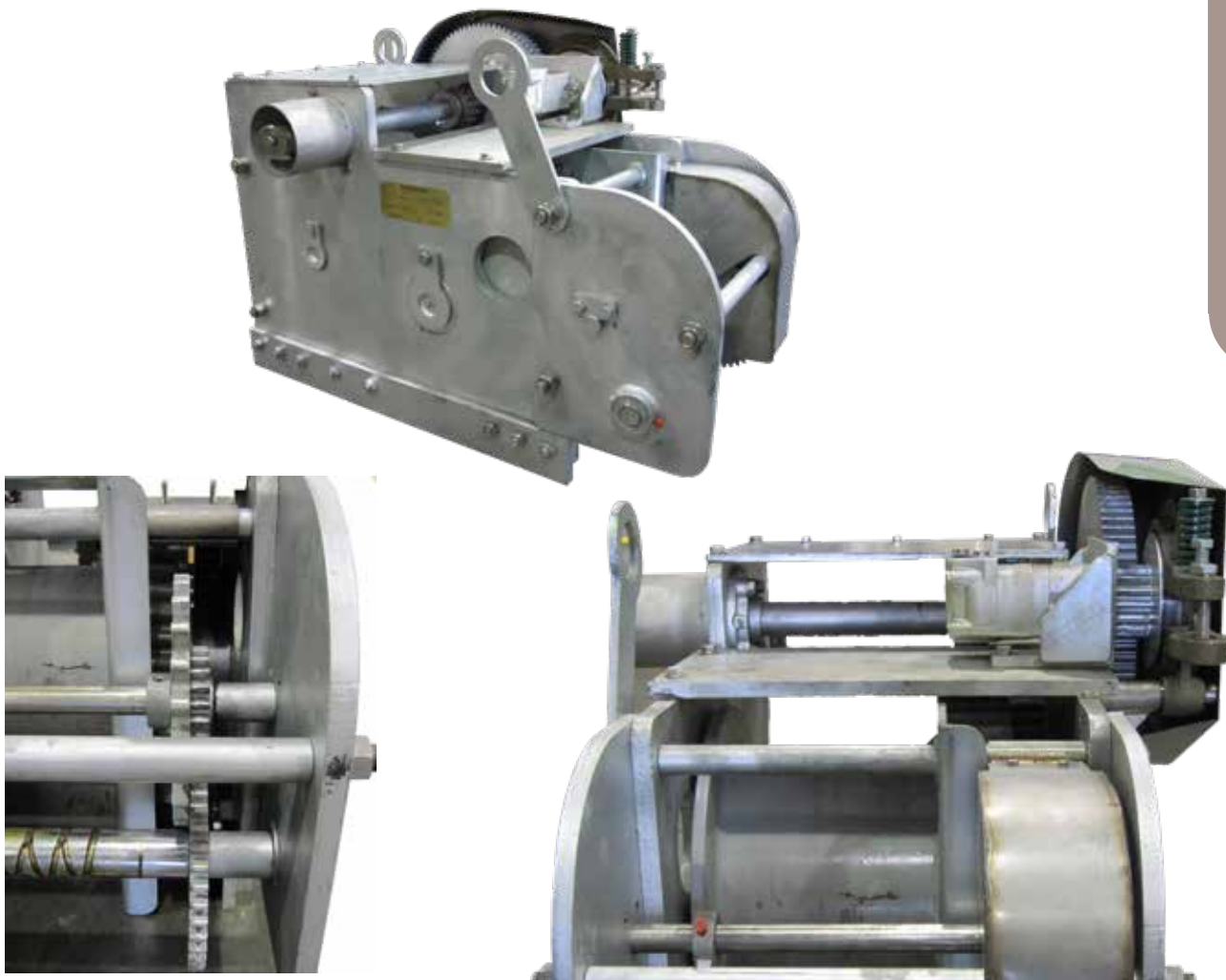
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LEVEL WIND KIT

BR
T

WINCHES



NABRICO's Level Wind Kit has the ability to turn our standard DF-156-40 Hydra-Electric or DF-1-40 Electric winches into a winch with a powered level wind. These kits are field retrofits with simple bolt-on replacement. When you purchase the Level Wind Kit, everything is included inside the box with no additional hardware needed. The Level Wind Kit is custom to each specific size of wire rope or synthetic rope to ensure the most uniform winding on the drum, so please let our sales team know what rope type and size you're using when ordering.

"I have discovered in 20 years of moving around the ball park that the knowledge of the game is usually in inverse proportion to the price of the seats."

—Bill Veeck

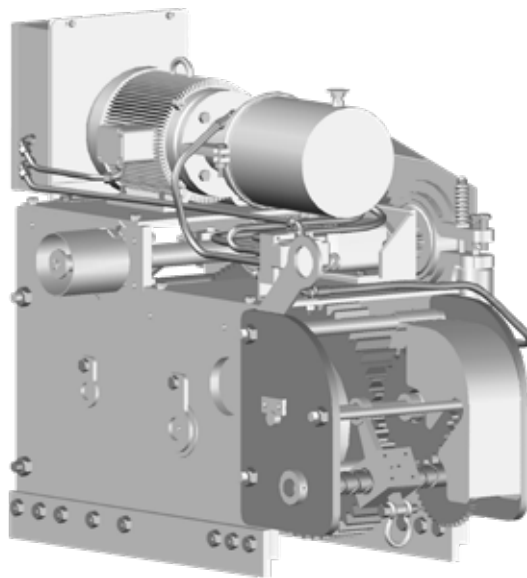
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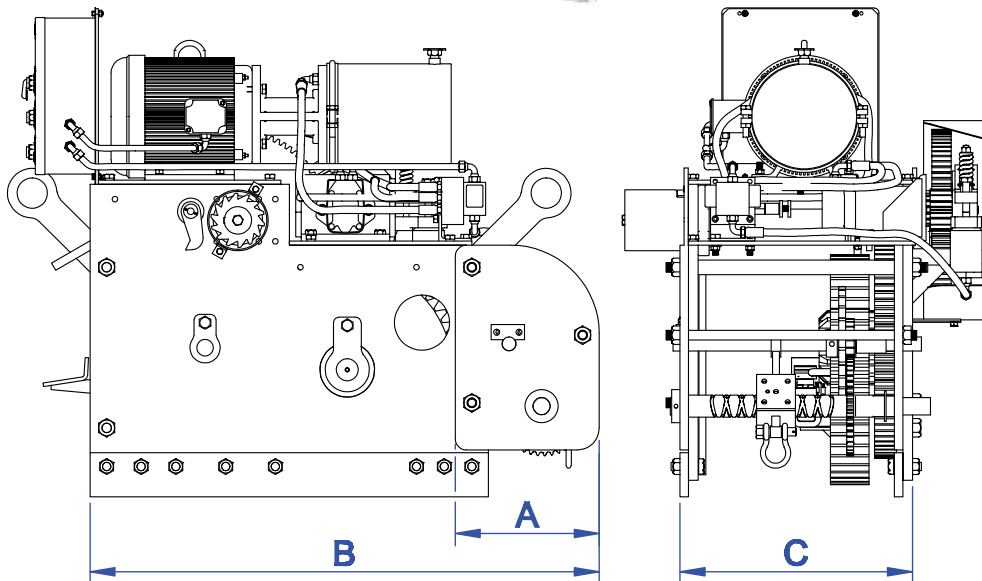


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LEVEL WIND KIT FOR DF-156 HE WINCH



RIGHT HAND WINCH SHOWN
LEFT HAND WINCH OPPOSITE



PART No.	SIZE	LENGTH A	LENGTH B	WIDTH C	WT. (lbs.)
82101-LH 82102-RH	40 TON	13"	46"	21-3/4"	190

"I learned a long time ago that 'minor surgery' is when they do the operation on someone else."

—Bill Walton



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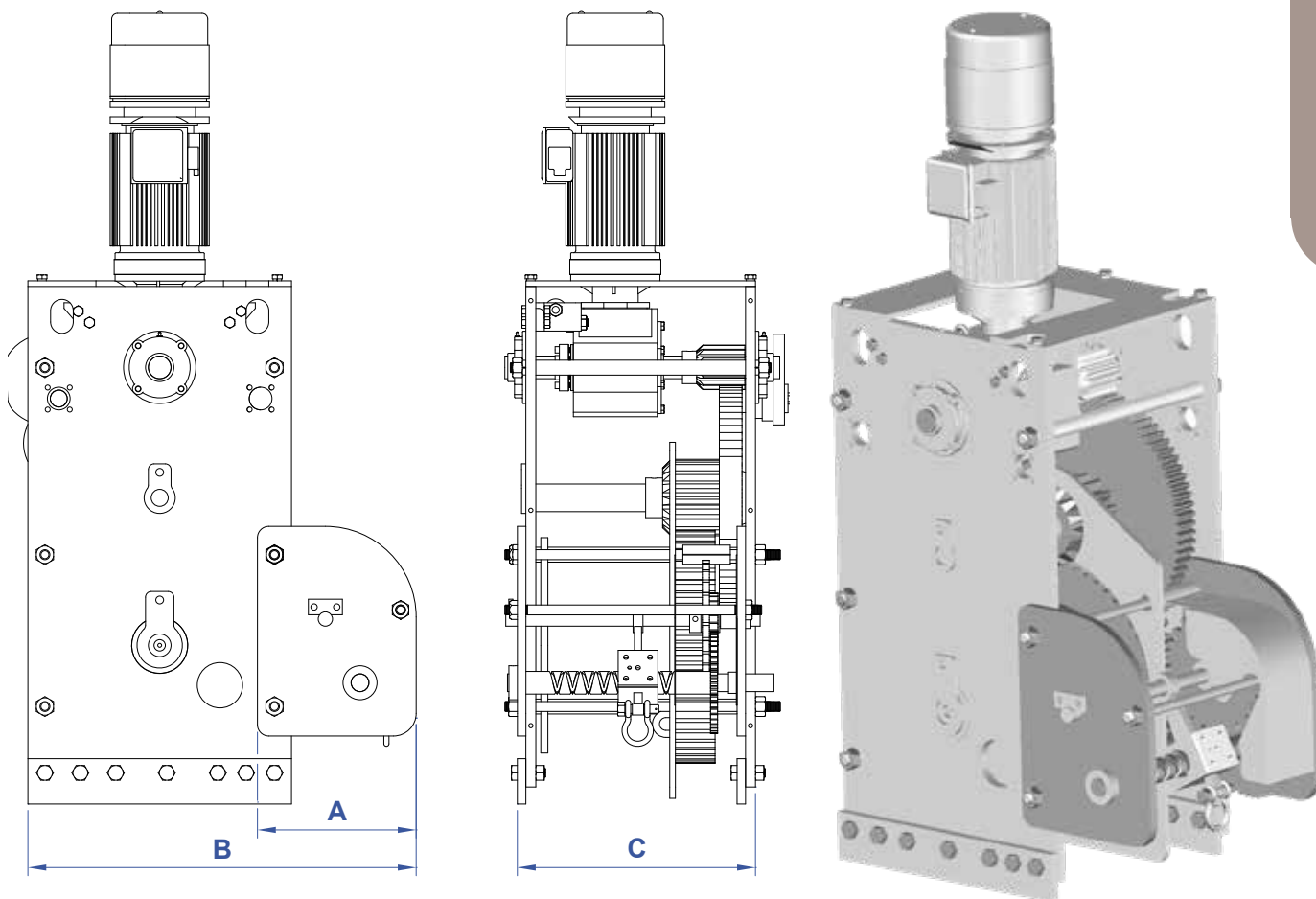
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LEVEL WIND KIT FOR 40 TON ELECTRIC

BR

WINCHES



LEFT HAND WINCH SHOWN
RIGHT HAND WINCH OPPOSITE

PART No.	SIZE	A	B	C	WT. (lbs.)
82097-LH 82098-RH	40 TON	14"	34-1/4"	21-3/4"	190

The Lord answers my prayers everywhere except on the golf course.

—Billy Graham

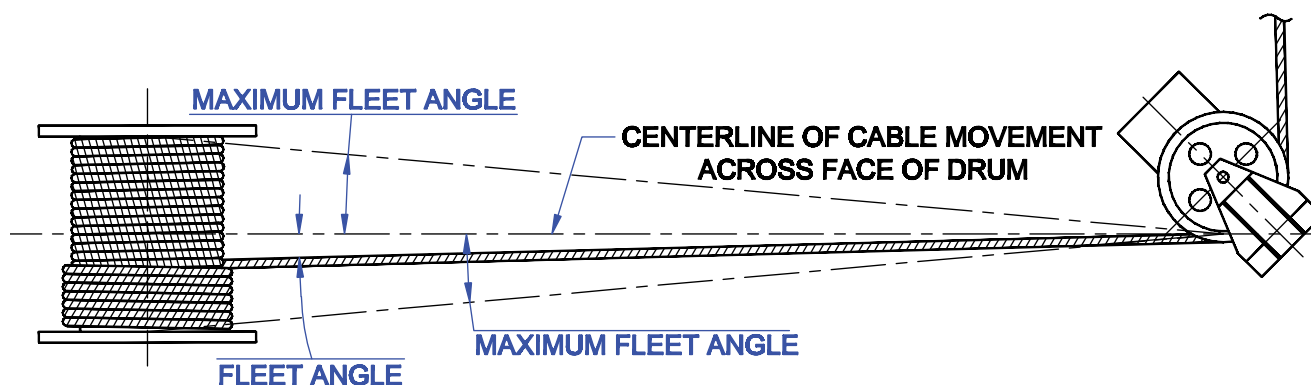
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FLEET ANGLE



Fleet Angle:

In order to insure proper wrapping on the drum and no undue wear of the wire rope, the fleet angle should be kept as small as practical. This is important to consider during the planning of a winch installation. Sheaves and drums should be placed so that the fleet angle will be equal on each side of the centerline of rope travel.

For a smooth drum a maximum fleet angle of 1-1/2 degrees is recommended. When the drum is grooved to suit the wire rope, the fleet angle should not exceed 2 degrees.

Example: Fleet Angle Calculation for 36" Chain Drive Barge Moving Winch

36" Chain Drive Moving Winch

$$a=18"$$

$$b=x \text{ (distance to be determined)}$$

$$A^\circ=1.5^\circ \text{ (maximum for a smooth drum)}$$

$$\tan A = a/b$$

$$\tan 1.5^\circ = 18"/x$$

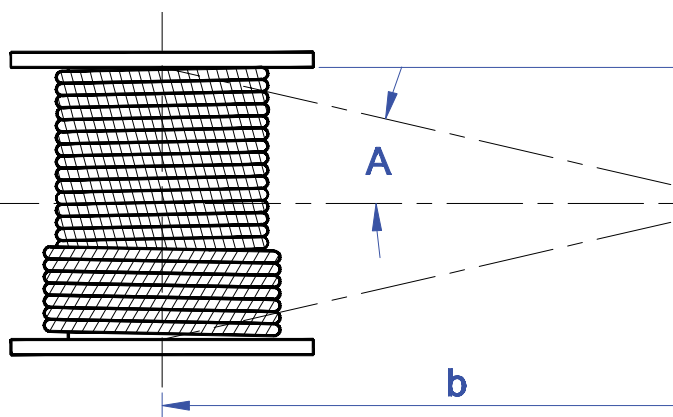
$$.02619 = 18"/x$$

$$x = 18"/.02619$$

$$x \sim 688" \text{ (rounded up to next whole number)}$$

$$x \sim 688" / 12 \text{ (convert to feet)}$$

$$x \sim 58'$$



"I don't expect to win enough games to be put on NCAA probation. I just want to win enough to warrant an investigation."

—Bob Devaney



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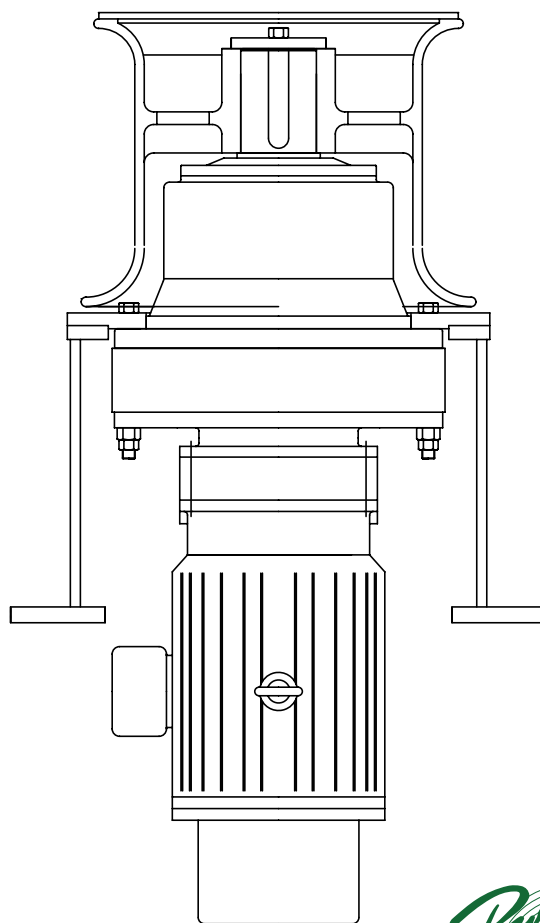
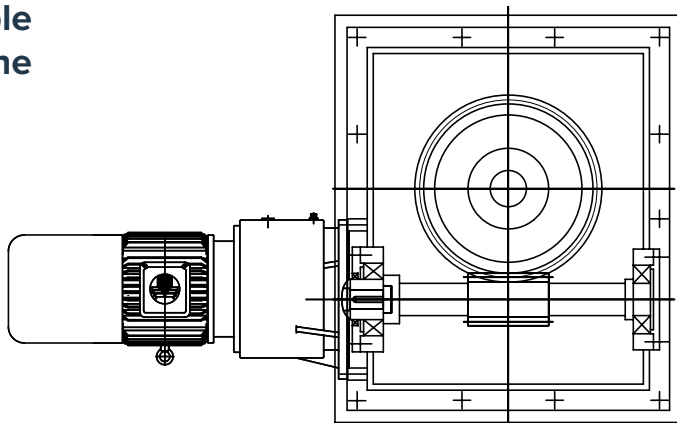
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CAPSTANS

NABRICO provides a variety of capstan options to meet your specific requirements. Whether your needs require a thru-deck, above deck, electric or hydraulic capstan, our engineers and sales people will provide a capstan to meet the demands of your applications.

CAPSTANS

HI-CAP	84
CAPSTAN WINCH	88
ELECTRIC / HYDRAULIC	90



HI-CAP CAPSTAN



- Class defining 80,000 pounds of bollard pull.
- Straightforward simple design.
- High tensile alloy shaft.
- Oversized bearing surfaces.
- Blasted near-white with a 3-part marine grade epoxy paint.
- Design your own to meet your specifications.
- Ductile iron high strength gearbox.
- Gearbox has extraordinarily high shock load and efficiency.
- Big performance at a low cost.

MODEL No.	PART No.	SIZE	LINE PULL (RUNNING)	LINE PULL (STARTING)	LINE SPEED	MOTOR POWER	BOLLARD CAPACITY
DF-HC-12-3-50-E	197107	C12	3,200 LBS	6,400 LBS	50 FT/MIN	5.0 HP	80,000 LBS
DF-HC-12-7-33-E	197505	D12	7,000 LBS	14,000 LBS	33 FT/MIN	7.5 HP	80,000 LBS
DF-HC-12-11-29-3	197502	E12	10,900 LBS	21,800 LBS	29 FT/MIN	10 HP	80,000 LBS
DF-HE-18-13-35-E	197507	F18	13,450 LBS	26,900 LBS	35 FT/MIN	15 HP	80,000 LBS

“I’ve always found that anything worth achieving will always have obstacles in the way and you’ve got to have that drive and determination to overcome those obstacles on route to whatever it is that you want to accomplish.”

—Chuck Norris



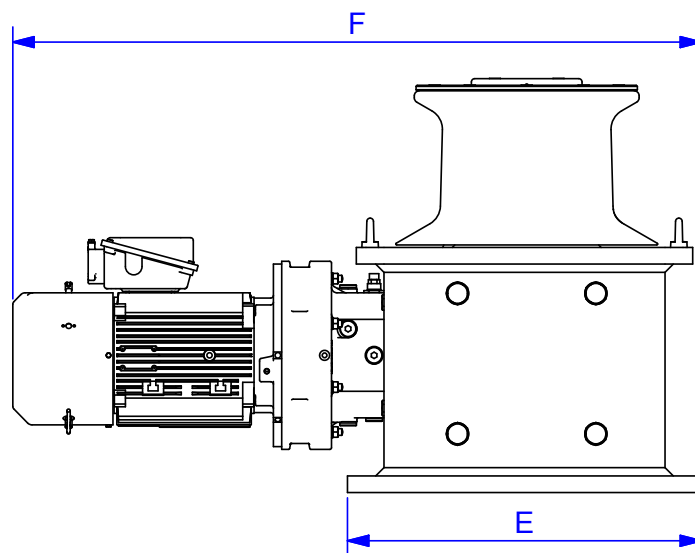
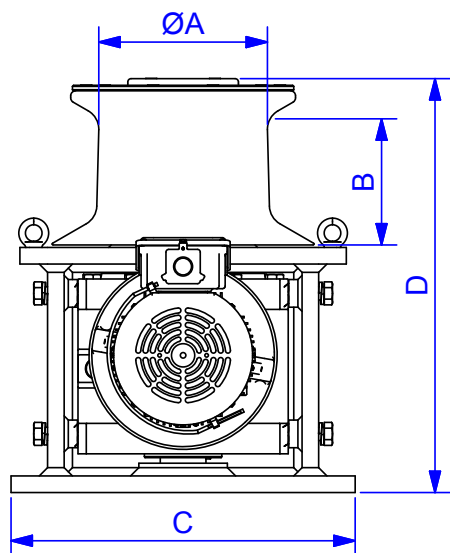
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HI-CAP CAPSTAN

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CAPSTANS

MODEL No.	PART No.	ØA	B	C	D	E	F	WT. (lbs.)
DF-HC-12-3-50-E	197107	12"	9"	22-1/2"	27-9/32"	21-3/4"	40-7/16"	1,240
DF-HC-12-5-50-E	197505	12"	9"	24-1/2"	29-7/16"	25-3/16"	47-13/32"	1,800
DF-HC-12-11-29-E	197502	12"	9"	29-1/8"	31-5/8"	30-1/8"	52-7/16"	3,100
DF-HC-18-13-35-E	197507	18"	15"	31-1/8"	39-1/4"	32-3/8"	58-9/16"	4,100

"America is the only country ever founded on an idea. The only country that is not founded on race or even common history. It's founded on an idea and the idea is liberty. That is probably the rarest phenomena in the political history of the world; this has never happened before. And not only has it happened, but it's worked. We are the most flourishing, the most powerful, most influential country on Earth with this system, invented by the greatest political geniuses probably in human history."

—Charles Krauthammer

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HI-CAP LINE PULL AND SPEED OPTIONS

MODEL	HEAD DIAMETER (IN)	MOTOR SIZE (HP)	GEARBOX RPM	RUNNING LINE PULL (LBS)	STARTING LINE PULL (LBS)	RUNNING LINE SPEED (FPM)	RATIO	BOX SIZE
DF-HC-12-2-58-E	12	3	17.16	1,611	3,221	58.39	102	C140
DF-HC-12-2-53-E	12	3	15.63	1,769	3,537	53.18	112	C140
DF-HC-12-2-48-E	12	3	14.23	1,942	3,884	48.42	123	C140
DF-HC-12-2-39-E	12	3	11.59	2,384	4,769	39.44	151	C140
DF-HC-12-3-33-E	12	3	9.78	2,827	5,653	33.27	179	C140
DF-HC-12-3-29-E	12	3	8.45	3,269	6,537	28.77	207	C145
DF-HC-12-4-24-E	12	3	7.0	3,932	7,864	23.92	249	C160
DF-HC-12-5-20-E	12	3	5.7	4,816	9,632	19.53	305	D160
DF-HC-12-3-58-E	12	5	17.2	2,684	5,369	58.39	102	C140
DF-HC-12-3-53-E	12	5	15.6	2,948	5,895	53.18	112	C140
DF-HC-12-3-48-E	12	5	14.2	3,237	6,474	48.42	123	C140
DF-HC-12-4-39-E	12	5	11.6	3,974	7,948	39.44	151	C145
DF-HC-12-5-33-E	12	5	9.8	4,711	9,422	33.27	179	D160
DF-HC-12-5-29-E	12	5	8.5	5,448	10,896	28.77	207	D165
DF-HC-12-7-24-E	12	5	7.0	6,553	13,106	23.92	249	D165
DF-HC-12-8-20-E	12	5	5.7	8,027	16,054	19.53	305	D180
DF-HC-12-4-58-E	12	7.5	17.2	4,027	8,053	58.39	102	C160
DF-HC-12-6-39-E	12	7.5	11.6	5,961	11,922	39.44	151	D160
DF-HC-12-7-33-E	12	7.5	9.8	7,066	14,133	33.27	179	D170
DF-HC-12-8-29-E	12	7.5	8.5	8,172	16,343	28.77	207	D180
DF-HC-12-5-58-E	12	10	17.2	5,369	10,738	58.39	102	D160
DF-HC-12-6-53-E	12	10	15.6	5,895	11,790	53.18	112	D165
DF-HC-12-6-48-E	12	10	14.2	6,474	12,948	48.42	123	D165
DF-HC-12-8-39-E	12	10	11.6	7,948	15,896	39.44	151	D180
DF-HC-12-8-58-E	12	15	17.2	8,053	16,106	58.39	102	D180
DF-HC-12-9-53-E	12	15	15.6	8,843	17,686	53.18	112	D180
DF-HC-15-2-60-E	15	3	14.23	1,578	3,156	59.60	123	C140
DF-HC-15-2-49-E	15	3	11.59	1,937	3,875	48.55	151	C140
DF-HC-15-2-41-E	15	3	9.78	2,297	4,593	40.95	179	C140
DF-HC-15-3-35-E	15	3	8.45	2,656	5,312	35.41	207	C145
DF-HC-15-3-29-E	15	3	7.0	3,195	6,389	29.44	249	C160
DF-HC-15-4-24-E	15	3	5.7	3,913	7,826	24.03	305	D160
DF-HC-15-3-60-E	15	5	14.2	2,630	5,260	59.60	123	C140
DF-HC-15-3-49-E	15	5	11.6	3,229	6,458	48.55	151	C145
DF-HC-15-4-41-E	15	5	9.8	3,828	7,655	40.95	179	D160
DF-HC-15-4-35-E	15	5	8.5	4,426	8,853	35.41	207	D165

■ - INDICATES STANDARD MODEL



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MODEL	HEAD DIAMETER (IN)	MOTOR SIZE (HP)	GEARBOX RPM	RUNNING LINE PULL (LBS)	STARTING LINE PULL (LBS)	RUNNING LINE SPEED (FPM)	RATIO	BOX SIZE
DF-HC-15-5-29-E	15	5	7.0	5,324	10,649	29.44	249	D165
DF-HC-15-7-24-E	15	5	5.7	6,522	13,044	24.03	305	D180
DF-HC-15-5-49-E	15	7.5	11.6	4,843	9,687	48.55	151	D165
DF-HC-15-6-41-E	15	7.5	9.8	5,741	11,483	40.95	179	D170
DF-HC-15-7-35-E	15	7.5	8.5	6,639	13,279	35.41	207	D180
DF-HC-15-8-29-E	15	7.5	7.0	7,987	15,973	29.44	249	E180
DF-HC-15-10-24-E	15	7.5	5.7	9,783	19,566	24.03	305	F185
DF-HC-15-4-72-E	15	10	17.2	4,362	8,724	71.87	102	D160
DF-HC-15-5-65-E	15	10	15.6	4,790	9,580	65.45	112	D165
DF-HC-15-5-60-E	15	10	14.2	5,260	10,521	59.60	123	D165
DF-HC-15-6-49-E	15	10	11.6	6,458	12,915	48.55	151	D180
DF-HC-15-8-41-E	15	10	9.8	7,655	15,310	40.95	179	E175
DF-HC-15-9-35-E	15	10	8.5	8,853	17,705	35.41	207	E185
DF-HC-15-11-29-E	15	10	7.0	10,649	21,298	29.44	249	F190
DF-HC-15-13-24-E	15	10	5.7	13,044	26,087	24.03	305	F190
DF-HC-15-8-60-E	15	15	14.2	7,890	15,781	59.60	123	E180
DF-HC-15-10-49-E	15	15	11.6	9,687	19,373	48.55	151	F185
DF-HC-15-11-41-E	15	15	9.8	11,483	22,965	40.95	179	F190
DF-HC-15-13-35-E	15	15	8.5	13,279	26,558	35.41	207	F195
DF-HC-15-16-29-E	15	15	7.0	15,973	31,946	29.44	249	F195
DF-HC-15-11-60-E	15	20	14.2	10,521	21,041	59.60	123	F185
DF-HC-15-13-49-E	15	20	11.6	12,915	25,831	48.55	151	F195
DF-HC-15-15-41-E	15	20	9.8	15,310	30,621	40.95	179	F195
DF-HC-18-7-35-E	18	7.5	7.0	6,726	13,451	34.96	249	E180
DF-HC-18-8-29-E	18	7.5	5.7	8,238	16,476	28.54	305	F185
DF-HC-18-6-49-E	18	10	9.8	6,446	12,893	48.63	179	E175
DF-HC-18-7-42-E	18	10	8.5	7,455	14,910	42.05	207	E185
DF-HC-18-9-35-E	18	10	7.0	8,967	17,935	34.96	249	F190
DF-HC-18-11-29-E	18	10	5.7	10,984	21,968	28.54	305	F190
DF-HC-18-8-58-E	18	15	11.6	8,157	16,314	57.65	151	F185
DF-HC-18-10-49-E	18	15	9.8	9,670	19,339	48.63	179	F190
DF-HC-18-11-42-E	18	15	8.5	11,182	22,365	42.05	207	F195
DF-HC-18-13-35-E	18	15	7.0	13,451	26,902	34.96	249	F195
DF-HC-18-11-58-E	18	20	11.6	10,876	21,752	57.65	151	F195
DF-HC-18-13-49-E	18	20	9.8	12,893	25,786	48.63	179	F195

■ - INDICATES STANDARD MODEL

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CAPSTAN WINCH



FEATURES

- High strength ductile iron gear case.
- Simple, durable, space saving design.
- For use in the harshest working conditions.
- For use in marine, rail and other material movement applications.
- Electric or hydraulic designs.
- Available with or without rope guard in picture above.
- Cyclo or planetary input provides a high overload capacity and exceptional reliability.
- 4 Bolt mounting structure.
- Electric or hydraulic designs.
- Available with or without rope guard in picture above.
- Cyclo or planetary input provides a high overload capacity and exceptional reliability.
- 4 Bolt mounting structure.

MODEL No.	PART No.	SIZE	LINE PULL (RUNNING)	LINE PULL (STARTING)	LINE SPEED	MOTOR POWER	BOLLARD CAPACITY
DF-FC-9-2.8-58-E	197602	C9	2,800 LBS	5,600 LBS	58 FT/ MIN	5.0 HP	7,000 LBS

“A lot of people give up just before they’re about to make it. You know you never know when that next obstacle is going to be the last one.”

—Chuck Norris



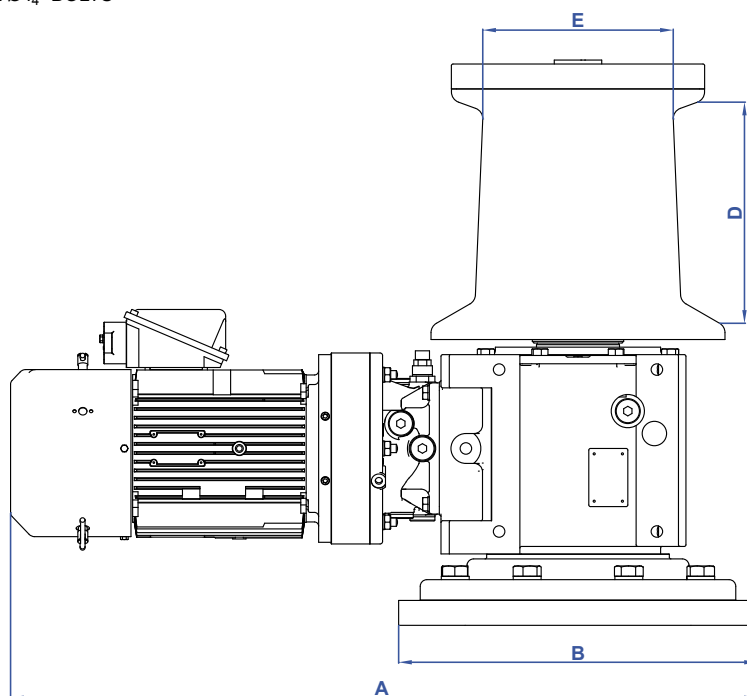
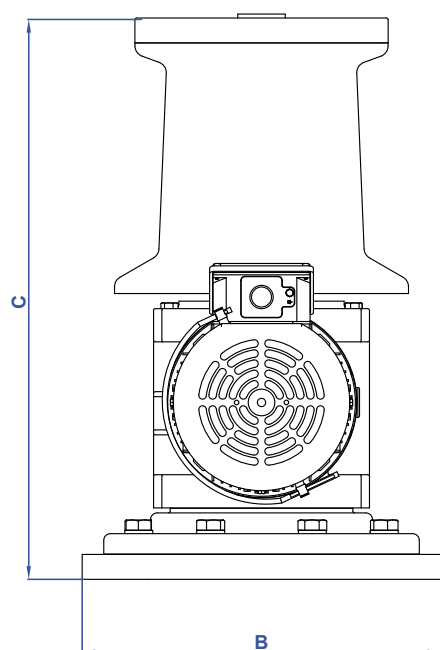
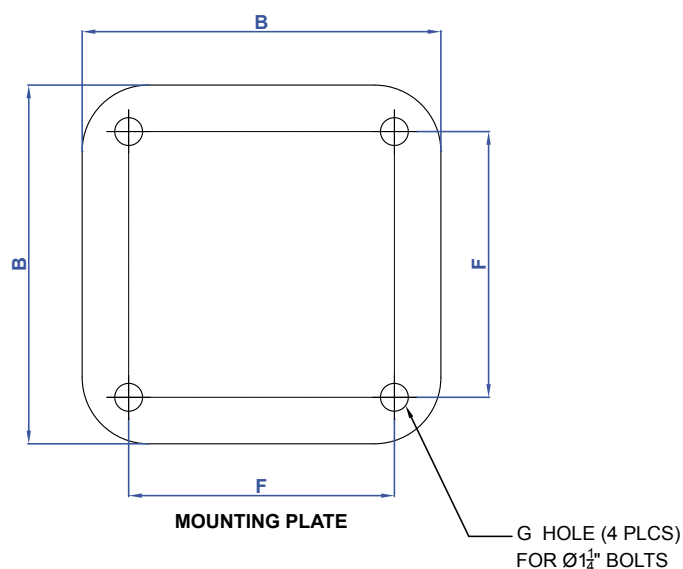
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CAPSTAN WINCH

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MODEL No.	PART No.	A	B	C	D	E	F	WT. (lbs.)
DF-FC-9-2.8-58-E	197602	35-7/16"	17"	26-1/4"	10-1/2"	9"	12-5/8"	731

"You don't pay taxes—they take taxes."

—Chris Rock

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ELECTRIC / HYDRAULIC CAPSTANS



SPECIFY THE FOLLOWING INFORMATION TO DETERMINE THE SIZE AND SPEED OF YOUR CAPSTANS:

HEAD SIZE _____
 No. OF SPEEDS _____
 LINE PULL _____
 LINE SPEED _____
 DRIVE _____

MODEL SHOWN

MODELDF-C-18-5-30-H
 HEAD SIZE18 INCH
 No. OF SPEEDSONE
 LINE PULL5,000 Lbs.
 LINE SPEED30 FPM
 DRIVEHYDRAULIC

- VERTICAL THRU-DECK OR ABOVE DECK MODELS.
- FABRICATED STEEL CONSTRUCTION.
- POLISHED STEEL CAPSTAN HEAD.
- HEAD SIZES AVAILABLE TO 36" DIAMETER.
- SINGLE OR VARIABLE SPEEDS AVAILABLE.
- LINE PULL UP TO 100,000 Lbs.
- STATIC OR BOLLARD PULL UP 300,000 Lbs.
- THREE COAT ZINC AND EPOXY PAINT SYSTEM.
- PLANETARY OR WORM AND SPUR GEARING.
- AVAILABLE WITH AN ELECTRIC OR HYDRAULIC DRIVE.

"He who plans for this life only is wise for the moment and a fool forever."

—Anonymous



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DOORS

NABRICO doors are made from a zinc primed mild steel and are offered in several styles including 4 dog, 6 dog, quick acting and lever arm. Any of our doors can be customized to fit your needs. Some options include aluminum or stainless steel construction, varied custom sizing or different portlight options. Our standard listing of steel dogged doors are ABS Type Approved and typically in stock for a fast turnaround. Every door NABRICO makes is built to meet ABS standards and can be ABS Type Approved as well.

DOORS

4 DOG.....	92
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ORIENTATION

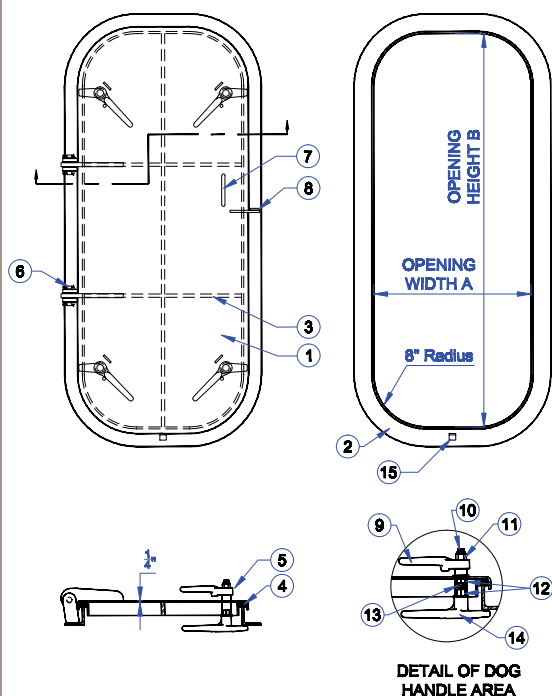
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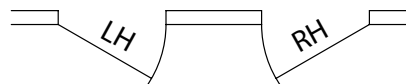
4 DOG WEATHERTIGHT DOOR



The door shown in the drawing is considered a left hand door with the hinge area positioned on the left side.

A right hand door would be the opposite with the hinge area positioned on the right side.

A standard door has a 3/8" frame and 1/4" panel. Most doors are available as BW (blue water), which has a 3/8" frame and 5/16" panel.



LEFT HAND 4 DOG DOOR SPECIFICATION TABLE

MODEL No.	PART No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
					A	B	RAD.	
DF-605-2460	100875	24x60	24"	60"	27"	63"	9.5"	290
DF-605-2464	100980	24x64	24"	64"	27"	67"	9.5"	310
DF-605-2472	100877	24x72	24"	72"	27"	75"	9.5"	330
DF-605-2660	100185	26x60	26"	60"	29"	63"	9.5"	320
DF-605-2866	100851	28x66	28"	66"	31"	69"	9.5"	350
DF-605-2872	100977	28x72	28"	72"	31"	75"	9.5"	385
DF-605-3054	100856	30x54	30"	54"	33"	57"	9.5"	310
DF-605-3060	100193	30x60	30"	60"	33"	63"	9.5"	350
DF-605-3072	100990	30x72	30"	72"	33"	75"	9.5"	400
DF-605-3666	100862	36x66	36"	66"	39"	69"	9.5"	410
DF-605-3672	100868	36x72	36"	72"	39"	75"	9.5"	450

RIGHT HAND 4 DOG DOOR SPECIFICATION TABLE

MODEL No.	PART No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
					A	B	RAD.	
DF-605-2460	100182	24x60	24"	60"	27"	63"	9.5"	290
DF-605-2464	100981	24x64	24"	64"	27"	67"	9.5"	310
DF-605-2472	100878	24x72	24"	72"	27"	75"	9.5"	330
DF-605-2660	100186	26x60	26"	60"	29"	63"	9.5"	320
DF-605-2866	100852	28x66	28"	66"	31"	69"	9.5"	350
DF-605-2872	100978	28x72	28"	72"	31"	75"	9.5"	385
DF-605-3054	100857	30x54	30"	54"	33"	57"	9.5"	310
DF-605-3060	100194	30x60	30"	60"	33"	63"	9.5"	350
DF-605-3072	100991	30x72	30"	72"	33"	75"	9.5"	400
DF-605-3666	100863	36x66	36"	66"	39"	69"	9.5"	410
DF-605-3672	100869	36x72	36"	72"	39"	75"	9.5"	450

No.	DESCRIPTION	MATERIAL
1	DOOR PANEL ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	STIFFENER BAR	STEEL
4	DOOR GASKET	NEOPRENE
5	DOGGING HANDLE ASSEMBLY	STEEL
6	HINGE PIN ASSEMBLY	STAINLESS
7	GRAB HANDLE	STEEL
8	LOCKING HASP	STEEL
9	STRAIGHT HANDLE	STEEL
10	HANDLE SHAFT	STEEL
11	JAM NUT	STEEL
12	BUSHING	NYLON
13	PACKING	GRAPHITE
14	DOGGING HANDLE	STEEL
15	DOOR CENTERING LUG	STEEL

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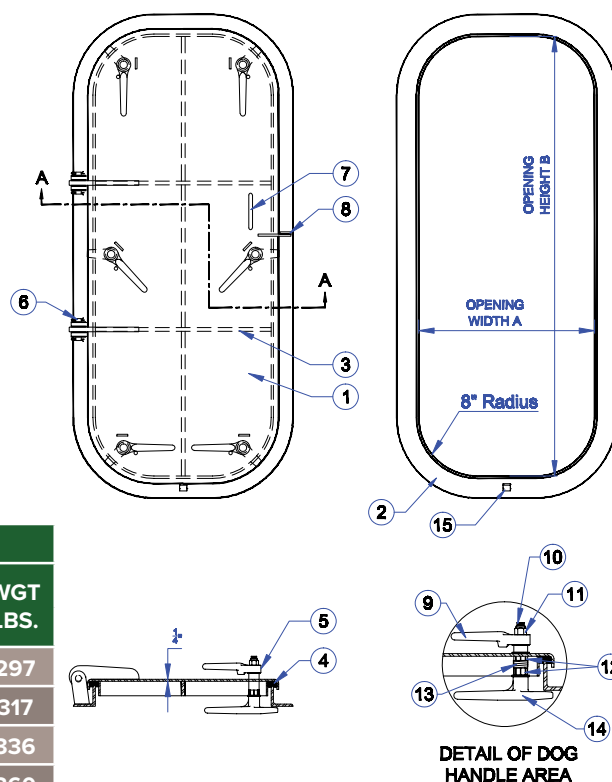
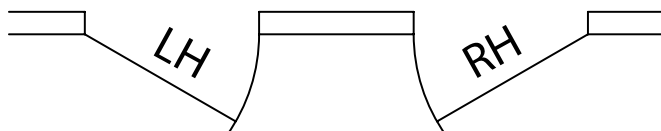
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6 DOG WEATHERTIGHT DOOR

The door shown in the drawing is considered a left hand door with the hinge area positioned on the left side.

A right hand door would be the opposite with the hinge area positioned on the right side.



LEFT HAND 6 DOG DOOR SPECIFICATION TABLE								
MODEL No.	PART No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
					A	B	RAD	
DF-600-2454	100114	24x54	24"	54"	27"	57"	9.5"	297
DF-600-2460	100116	24x60	24"	60"	27"	63"	9.5"	317
DF-600-2472	100120	24x72	24"	72"	27"	75"	9.5"	336
DF-600-2866	100127	28x66	28"	66"	31"	69"	9.5"	360
DF-600-2872	100131	28x72	28"	72"	31"	75"	9.5"	392
DF-600-3054	100134	30x54	30"	54"	33"	57"	9.5"	315
DF-600-3060	100138	30x60	30"	60"	33"	63"	9.5"	360
DF-600-3066	100197	30x66	30"	66"	33"	69"	9.5"	370
DF-600-3072	100143	30x72	30"	72"	33"	75"	9.5"	410
DF-600-3666	100148	36x66	36"	66"	39"	69"	9.5"	420
DF-600-3672	100152	36x72	36"	72"	39"	75"	9.5"	460

RIGHT HAND 6 DOG DOOR SPECIFICATION TABLE								
MODEL No.	PART No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
					A	B	RAD	
DF-600-2454	100115	24x54	24"	54"	27"	57"	9.5"	297
DF-600-2460	100117	24x60	24"	60"	27"	63"	9.5"	317
DF-600-2472	100121	24x72	24"	72"	27"	75"	9.5"	336
DF-600-2866	100128	28x66	28"	66"	31"	69"	9.5"	360
DF-600-2872	100132	28x72	28"	72"	31"	75"	9.5"	392
DF-600-3054	100135	30x54	30"	54"	33"	57"	9.5"	315
DF-600-3060	100139	30x60	30"	60"	33"	63"	9.5"	360
DF-600-3066	100142	30x66	30"	66"	33"	69"	9.5"	370
DF-600-3072	100144	30x72	30"	72"	33"	75"	9.5"	410
DF-600-3666	100149	36x66	36"	66"	39"	69"	9.5"	420
DF-600-3672	100153	36x72	36"	72"	39"	75"	9.5"	460

No.	DESCRIPTION	MATERIAL
1	DOOR PANEL ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	STIFFENER BAR	STEEL
4	DOOR GASKET	NEOPRENE
5	DOGGING HANDLE ASSEMBLY	STEEL
6	HINGE PIN ASSEMBLY	STAINLESS
7	GRAB HANDLE	STEEL
8	LOCKING HASP	STEEL
9	STRAIGHT HANDLE	STEEL
10	HANDLE SHAFT	STEEL
11	JAM NUT	STEEL
12	BUSHING	NYLON
13	PACKING	GRAPHITE
14	DOGGING HANDLE	STEEL
15	DOOR CENTERING LUG	STEEL

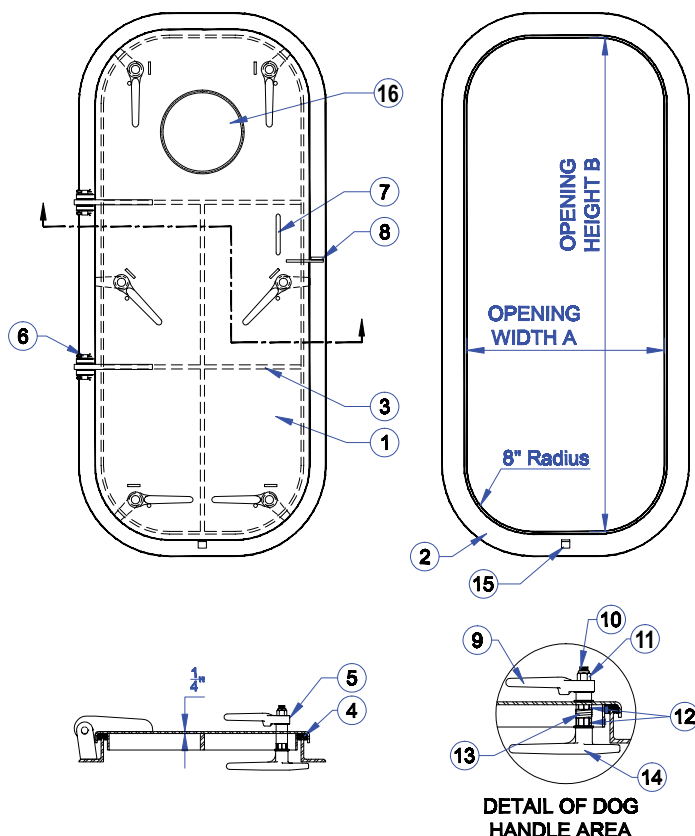
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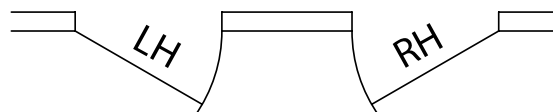


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DOOR WITH FIXED PORTLIGHT



No.	DESCRIPTION	MATERIAL
1	DOOR PANEL ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	STIFFENER BAR	STEEL
4	DOOR GASKET	NEOPRENE
5	DOGGING HANDLE ASSEMBLY	STEEL
6	HINGE PIN ASSEMBLY	STAINLESS
7	GRAB HANDLE	STEEL
8	LOCKING HASP	STEEL
9	STRAIGHT HANDLE	STEEL
10	HANDLE SHAFT	STEEL
11	JAM NUT	STEEL
12	BUSHING	NYLON
13	PACKING	GRAPHITE
14	DOGGING HANDLE	STEEL
15	DOOR CENTERING LUG	STEEL
16	10" FIXED PORTLIGHT	STEEL



The door shown in the drawing is considered a left hand door with the hinge area positioned on the left side.

A right hand door would be the opposite with the hinge area positioned on the right side.

RIGHT HAND 6 DOG DOOR SPECIFICATION TABLE

MODEL No.	PART No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
					A	B	RAD	
DF-600-3054	100191	30x54	30"	54"	33"	57"	9.5"	330
DF-600-3060	100196	30x60	30"	60"	33"	63"	9.5"	380

LEFT HAND 6 DOG DOOR SPECIFICATION TABLE

MODEL No.	PART No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
					A	B	RAD	
DF-600-3054	100190	30x54	30"	54"	33"	57"	9.5"	330
DF-600-3060	100195	30x60	30"	60"	33"	63"	9.5"	380

All nabrico door styles are available with a variety of different types and sizes of portlights. A few of the most common types are listed in the tables below but are in no way restricted to what is called out on this page. Some of the available options include: weld-in or bolt-on, fixed or non-fixed and with covers. Please refer to the portlight section of this catalog for all types and sizes available from nabrico.

"If you watch a game, it's fun. If you play at it, it's recreation. If you work at it, it's golf."

—Bob Hope



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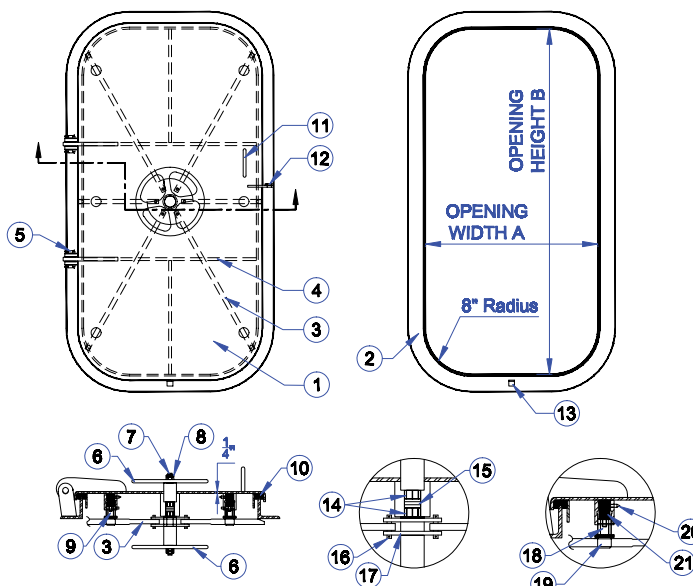
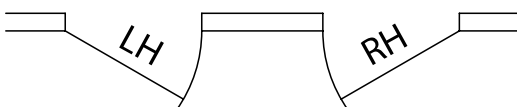
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QUICK ACTING WEATHERTIGHT DOOR

The door shown in the drawing is considered a left hand door with the hinge area positioned on the left side.

A right hand door would be the opposite with the hinge area positioned on the right side.



DETAIL OF DOG ARM
HINGE AREA

DETAIL OF SWIVEL
GUIDE AREA

LEFT HAND QUICK ACTING DOOR SPECIFICATION TABLE								
MODEL No.	PART No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
					A	B	RAD	
DF-610-2460	100118	24x60	24"	60"	27"	63"	9.5"	437
DF-610-2472	100122	24x72	24"	72"	27"	75"	9.5"	451
DF-610-2866	100129	28x66	28"	66"	31"	69"	9.5"	448
DF-610-2872	100133	28x72	28"	72"	31"	75"	9.5"	526
DF-610-3054	100136	30x54	30"	54"	33"	57"	9.5"	433
DF-610-3060	100140	30x60	30"	60"	33"	63"	9.5"	480
DF-610-3072	100198	30x72	30"	72"	33"	75"	9.5"	500
DF-610-3666	100150	36x66	36"	66"	39"	69"	9.5"	535
DF-610-3672	100154	36x72	36"	72"	39"	75"	9.5"	579

RIGHT HAND QUICK ACTING DOOR SPECIFICATION TABLE								
MODEL No.	PART No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
					A	B	RAD	
DF-610-2460	100119	24x60	24"	60"	27"	63"	9.5"	437
DF-610-2472	100124	24x72	24"	72"	27"	75"	9.5"	451
DF-610-2866	100130	28x66	28"	66"	31"	69"	9.5"	448
DF-610-2872	100187	28x72	28"	72"	31"	75"	9.5"	526
DF-610-3054	100192	30x54	30"	54"	33"	57"	9.5"	433
DF-610-3060	100141	30x60	30"	60"	33"	63"	9.5"	480
DF-610-3072	100145	30x72	30"	72"	33"	75"	9.5"	500
DF-610-3666	100151	36x66	36"	66"	39"	69"	9.5"	535
DF-610-3672	100155	36x72	36"	72"	39"	75"	9.5"	579

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

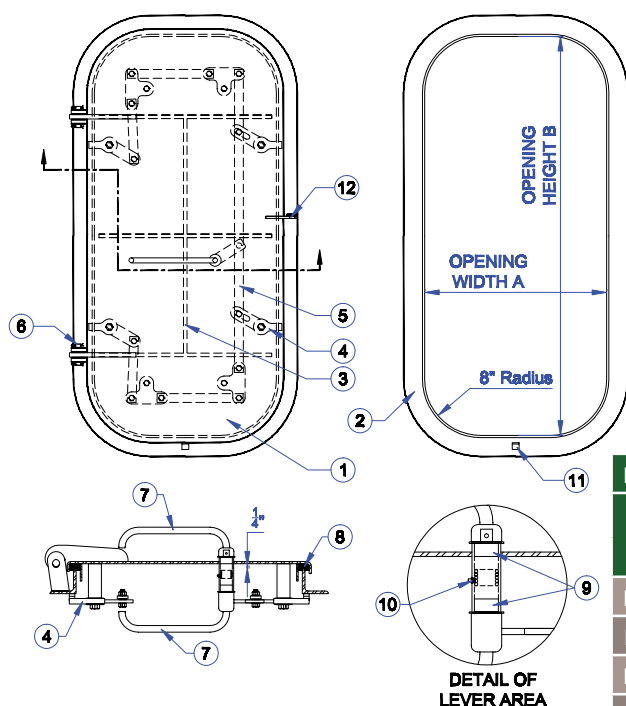
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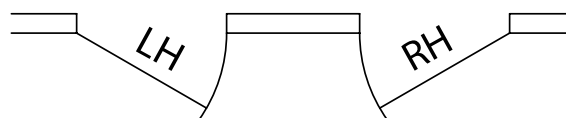
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SINGLE LEVER (4 DOG) WEATHERTIGHT



The door shown in the drawing is considered a left hand door with the hinge area positioned on the left side.

A right hand door would be the opposite with the hinge area positioned on the right side.



LEFT HAND SINGLE LEVER (4 DOG) DOOR SPECIFICATION TABLE

MODEL No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
				A	B	RAD	
DF-635-2460	24x60	24"	60"	27"	63"	9.5"	432
DF-635-2472	24x72	24"	72"	27"	75"	9.5"	446
DF-635-2866	28x66	28"	66"	31"	69"	9.5"	443
DF-635-2872	28x72	28"	72"	31"	75"	9.5"	521
DF-635-3054	30x54	30"	54"	33"	57"	9.5"	428
DF-635-3060	30x60	30"	60"	33"	63"	9.5"	475
DF-635-3072	30x72	30"	72"	33"	75"	9.5"	495
DF-635-3666	36x66	36"	66"	39"	69"	9.5"	530
DF-635-3672	36x72	36"	72"	39"	75"	9.5"	574

RIGHT HAND SINGLE LEVER (4 DOG) DOOR SPECIFICATION TABLE

MODEL No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
				A	B	RAD	
DF-635-2460	24x60	24"	60"	27"	63"	9.5"	432
DF-635-2472	24x72	24"	72"	27"	75"	9.5"	446
DF-635-2866	28x66	28"	66"	31"	69"	9.5"	443
DF-635-2872	28x72	28"	72"	31"	75"	9.5"	521
DF-635-3054	30x54	30"	54"	33"	57"	9.5"	428
DF-635-3060	30x60	30"	60"	33"	63"	9.5"	475
DF-635-3072	30x72	30"	72"	33"	75"	9.5"	495
DF-635-3666	36x66	36"	66"	39"	69"	9.5"	530
DF-635-3672	36x72	36"	72"	39"	75"	9.5"	574

No.	DESCRIPTION	MATERIAL
1	DOOR PANEL ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	STIFFENER BAR	STEEL
4	DOG LEVER ASSEMBLY	STAINLESS
5	DOG CONNECTOR BAR	STAINLESS
6	HINGE PIN ASSEMBLY	STAINLESS
7	HAND LEVER ASSEMBLY	STAINLESS
8	DOOR GASKET	NEOPRENE
9	BUSHING	NYLON
10	GREASE FITTING	STAINLESS
11	DOOR CENTERING LUG	STEEL
12	LOCKING HASP	STEEL

"I don't know if I can live on my income or not--the government won't let me try it."

—Bob Thaves



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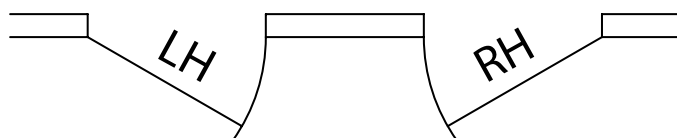
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SINGLE LEVER (6 DOG) WEATHERTIGHT

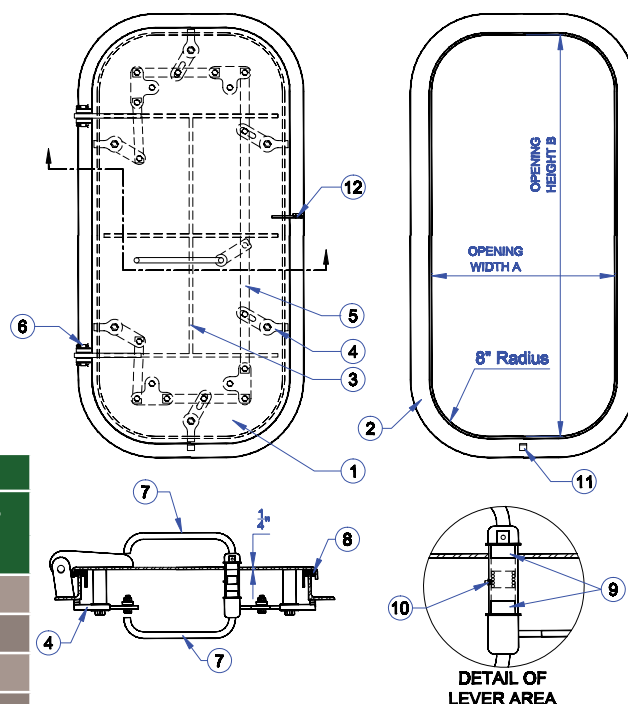
The door shown in the drawing is considered a left hand door with the hinge area positioned on the left side.

A right hand door would be the opposite with the hinge area positioned on the right side.



LEFT HAND SINGLE LEVER (6 DOG) DOOR SPECIFICATION TABLE							
MODEL No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
				A	B	RAD	
DF-630-2460	24x60	24"	60"	27"	63"	9.5"	437
DF-630-2472	24x72	24"	72"	27"	75"	9.5"	451
DF-630-2866	28x66	28"	66"	31"	69"	9.5"	448
DF-630-2872	28x72	28"	72"	31"	75"	9.5"	526
DF-630-3054	30x54	30"	54"	33"	57"	9.5"	433
DF-630-3060	30x60	30"	60"	33"	63"	9.5"	480
DF-630-3072	30x72	30"	72"	33"	75"	9.5"	500
DF-630-3666	36x66	36"	66"	39"	69"	9.5"	535
DF-630-3672	36x72	36"	72"	39"	75"	9.5"	579

RIGHT HAND SINGLE LEVER (6 DOG) DOOR SPECIFICATION TABLE							
MODEL No.	SIZE	A	B	CUT-OUT DIMS.			WGT LBS.
				A	B	RAD	
DF-630-2460	24x60	24"	60"	27"	63"	9.5"	437
DF-630-2472	24x72	24"	72"	27"	75"	9.5"	451
DF-630-2866	28x66	28"	66"	31"	69"	9.5"	448
DF-630-2872	28x72	28"	72"	31"	75"	9.5"	526
DF-630-3054	30x54	30"	54"	33"	57"	9.5"	433
DF-630-3060	30x60	30"	60"	33"	63"	9.5"	480
DF-630-3072	30x72	30"	72"	33"	75"	9.5"	500
DF-630-3666	36x66	36"	66"	39"	69"	9.5"	535
DF-630-3672	36x72	36"	72"	39"	75"	9.5"	579



No.	DESCRIPTION	MATERIAL
1	DOOR PANEL ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	STIFFENER BAR	STEEL
4	DOG LEVER ASSEMBLY	STAINLESS
5	DOG CONNECTOR BAR	STAINLESS
6	HINGE PIN ASSEMBLY	STAINLESS
7	HAND LEVER ASSEMBLY	STAINLESS
8	DOOR GASKET	NEOPRENE
9	BUSHING	NYLON
10	GREASE FITTING	STAINLESS
11	DOOR CENTERING LUG	STEEL
12	LOCKING HASP	STEEL

"Son, you've got a good engine, but your hands aren't on the steering wheel."

—Bobby Bowden

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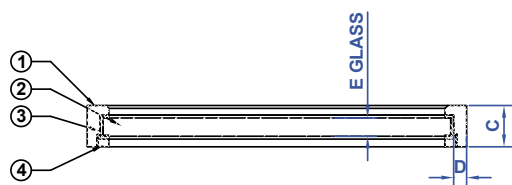
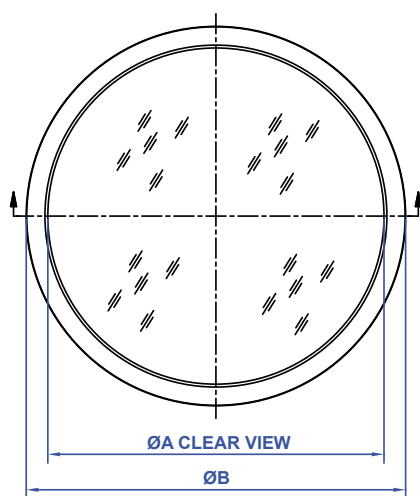


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MODEL 400 - WELD IN FIXED LIGHT

PIECE No.	DESCRIPTION	STEEL LIGHT	SS LIGHT	ALUMINUM LIGHT
1	FRAME	STEEL	STAINLESS	ALUMINUM
2	GLASS	TEMPERED SAFETY GLASS		
3	GASKET	NEOPRENE		
4	RETAINING RING	BRASS		

MODEL No.	SIZE	ØA	ØB (STEEL AND SS)	ØB (ALUM)	C (STEEL AND SS)	C (ALUM)	D (STEEL AND SS)	D (ALUM)	E
400	8"	7-7/8"	9-1/4"	9-3/8"	1-1/2"	1-45/64"	19/64"	23/64"	3/4"
400	10"	9-27/32"	11-7/32"	11-11/32"	1-1/2"	1-45/64"	19/64"	23/64"	3/4"
400	12"	11-13/16"	13-15/32"	13-19/32"	1-1/2"	1-45/64"	11/32"	25/64"	3/4"
400	14"	13-25/32"	15-7/16"	15-9/16"	1-1/2"	1-45/64"	11/32"	25/64"	3/4"
400	16"	15-3/4"	17-13/32"	17-17/32"	1-1/2"	1-45/64"	11/32"	25/64"	3/4"
400	18"	17-23/32"	19-3/8"	19-1/2"	1-1/2"	1-45/64"	11/32"	25/64"	3/4"



"The purpose of a tax cut is to leave more money where it belongs: in the hands of the working men and working women who earned it in the first place."

—Bob Dole



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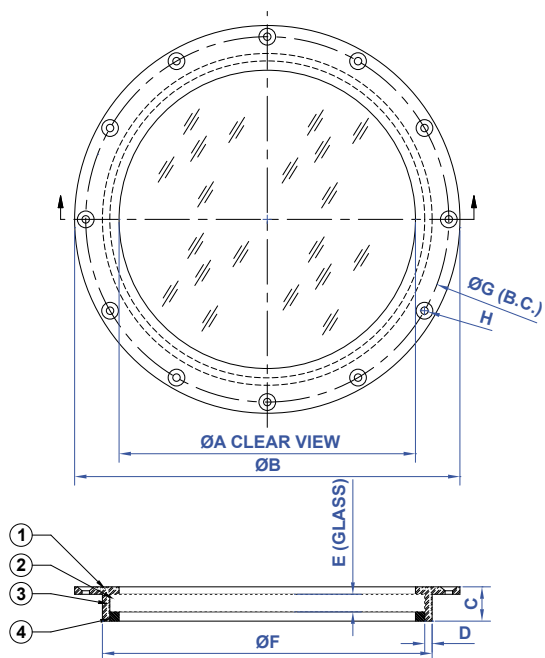
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MODEL 500 - BOLT-ON FIXED LIGHT

PIECE No.	DESCRIPTION	STEEL LIGHT	SS LIGHT	ALUM LIGHT	BRASS LIGHT
1	FRAME	STEEL	STAINLESS	ALUMINUM	BRASS
2	GLASS	TEMPERED SAFETY GLASS			
3	GASKET	NEOPRENE			
4	RETAINING RING	BRASS			

MODEL No.	SIZE	ØA	ØB	C (STEEL, SS, BRASS)	C (ALUM)	D (STEEL, SS, BRASS)	D (ALUM)	E	ØF (STEEL, SS, BRASS)	ØF (ALUM)	ØG	H (HOLES & SIZE)
500	4"	3-15/16"	6-11/16"	1-9/16"	1-21/32"	15/64"	19/64"	3/4"	5-13/64"	5-21/64"	5-55/64"	6, 5/16"
500	6"	5-29/32"	8-1/2"	1-9/16"	1-21/32"	15/64"	19/64"	3/4"	7-5/32"	7-9/32"	7-33/64"	6, 5/16"
500	7"	7-5/64"	9-3/4"	1-9/16"	1-21/32"	15/64"	19/64"	3/4"	8-23/64"	8-15/32"	8-55/64"	6, 5/16"
500	8"	7-7/8"	11"	1-9/16"	1-21/32"	15/64"	19/64"	3/4"	9-1/8"	9-1/4"	10-3/8"	8, 5/16"
500	10"	9-27/32"	13-7/32"	1-9/16"	1-21/32"	15/64"	19/64"	3/4"	11-7/64"	11-7/32"	12-1/4"	8, 5/16"
500	12"	11-13/16"	15-15/64"	1-9/16"	1-21/32"	15/64"	19/64"	3/4"	13-17/64"	13-3/8"	14-1/4"	12, 5/16"
500	14"	13-25/32"	18-15/64"	1-9/16"	1-21/32"	15/64"	19/64"	3/4"	15-15/64"	15-23/64"	17"	12, 5/16"
500	16"	15-3/4"	20-5/8"	1-9/16"	1-21/32"	15/64"	19/64"	3/4"	17-13/64"	17-21/64"	18-7/8"	12, 3/8"
500	18"	17-23/32"	22-41/64"	1-9/16"	1-21/32"	15/64"	19/64"	3/4"	19-11/64"	19-19/64"	20-7/8"	16, 3/8"



"Socialism is when government's taking care of you, you send all your money to the government, the government decides how to spend it instead of letting the people spend it and make all those decisions."

—Bob Latta

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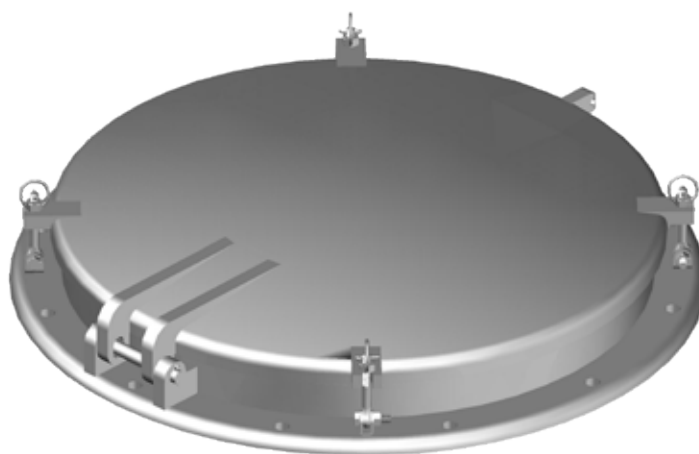
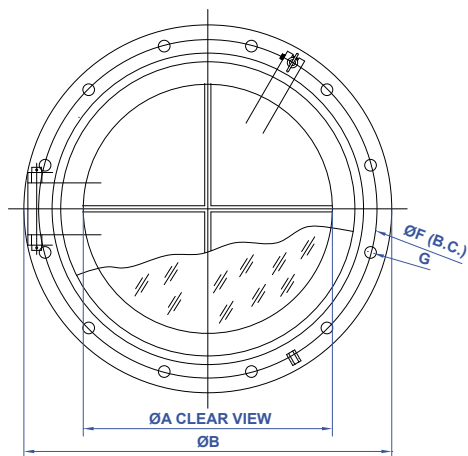


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MODEL 600 - BOLT-ON FIXED LIGHT W/ COVER

PIECE No.	DESCRIPTION	STEEL LIGHT	SS LIGHT	ALUMINUM LIGHT	BRASS LIGHT
1	COVER	SPECIFY			
2	COVER GASKET	NEOPRENE			
3	RETAININ G RING	BRASS			
4	HINGE PIN	STAINLESS			
5	GLASS GASKET	NEOPRENE			
6	GLASS	TEMPERED SAFETY GLASS			
7	FRAME ASSEMBLY	STEEL	STAINLESS	ALUMINUM	BRASS
8	BELL NUT	BRASS, CHROME PL			
9	DROP BOLT	BRASS, CHROME PL			
10	DROP BOLT PIN	STAINLESS			

MODEL No.	SIZE	ØA	ØB	C	ØD	E	ØF	G (#HOLES & SIZE)
600	8"	7-7/8"	13-25/32"	1/2"	9-55/64"	3/4"	12-13/64"	8, 35/64"
600	10"	9-27/32"	15-3/4"	1/2"	12"	3/4"	14-21/64"	8, 35/64"
600	12"	11-13/16"	17-23/32"	1/2"	14-11/64"	3/4"	16-19/64"	12, 35/64"
600	14"	13-25/32"	19-11/16"	5/8"	16-9/64"	3/4"	18-17/64"	12, 45/64"
600	16"	15-3/4"	21-21/32"	5/8"	18-7/64"	3/4"	20-15/64"	12, 45/64"
600	18"	17-23/32"	23-5/8"	5/8"	20-1/16"	3/4"	22-13/64"	12, 55/64"



"I don't fear death, but I sure don't like those three-footers for par."

—Chi Chi Rodriguez



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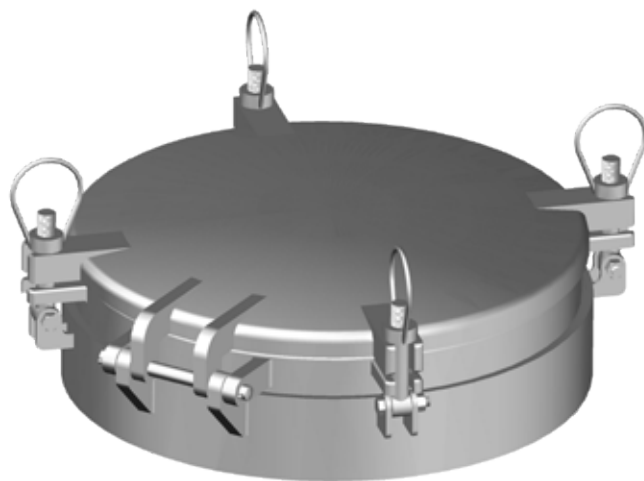
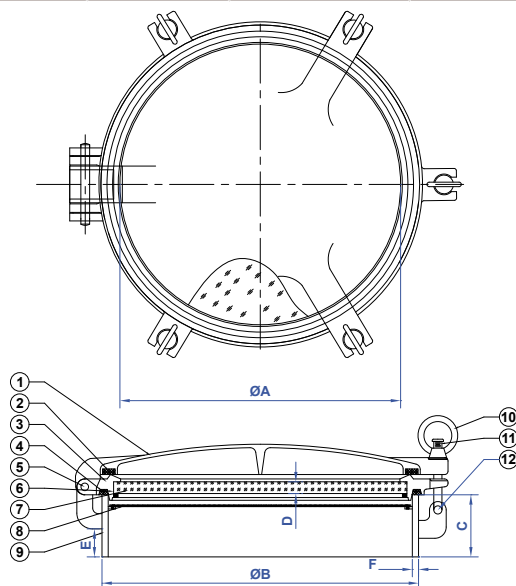
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MODEL 700 - WELD IN PORTLIGHT

PIECE No.	DESCRIPTION	STEEL LIGHT	SS LIGHT	ALUMINUM LIGHT	BRASS LIGHT
1	COVER	ALUMINUM			
2	COVER GASKET	NEOPRENE			
3	GLASS FRAME ASSEMBLY	STEEL	STAINLESS	ALUMINUM	BRASS
4	GLASS FRAME GASKET	NEOPRENE			
5	HINGE PIN	STAINLESS			
6	GLASS GASKET	NEOPRENE			
7	VIEWING GLASS	TEMPERED SAFETY GLASS			
8	REMOVABLE SCREEN	BRASS			
9	COAMING ASSEMBLY	STEEL	STAINLESS	ALUMINUM	BRASS
10	BELL NUT	BRASS, CHROME PL			
11	DROP BOLT	BRASS, CHROME PL			
12	DROP BOLT PIN	STAINLESS			

MODEL No.	SIZE	ØA	ØB	C	D	E	F
700	8"	7-7/8"	9-27/32"	4"	3/4"	1-1/4"	25/64"
700	10"	9-27/32"	12"	4"	3/4"	1-1/4"	25/64"
700	12"	11-13/16"	14-11/64"	4"	3/4"	1-1/4"	25/64"
700	14"	13-25/32"	16-9/64"	4"	3/4"	1-1/4"	25/64"
700	16"	15-3/4"	18-7/64"	4"	3/4"	1-1/4"	25/64"
700	18"	17-23/32"	20"	4"	3/4"	1-1/4"	25/64"



"The film looks suspiciously like the game itself."

—Bum Phillips

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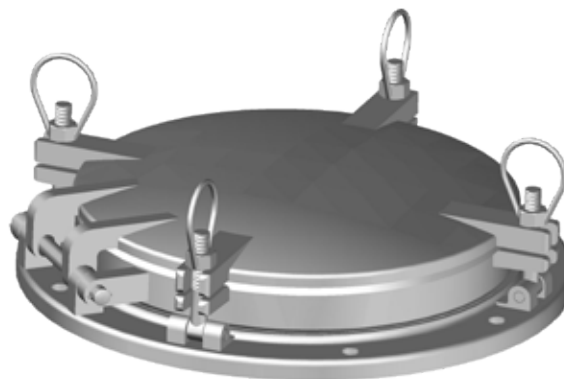
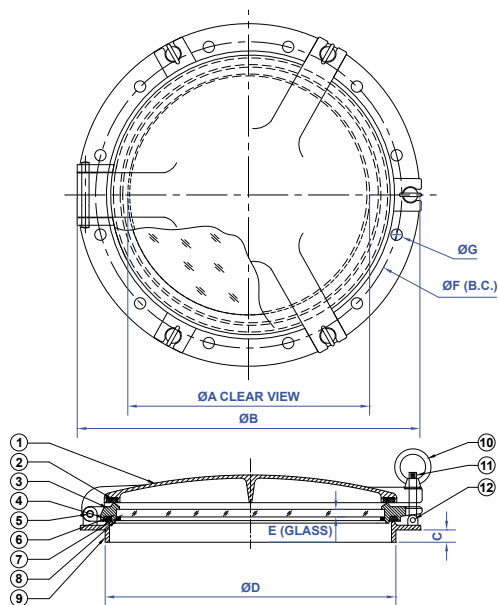


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MODEL 800 - BOLT-ON PORTLIGHT

PIECE No.	DESCRIPTION	STEEL LIGHT	SS LIGHT	ALUM LIGHT	BRASS LIGHT
1	COVER	SPECIFY			
2	COVER GASKET	NEOPRENE			
3	GLASS FRAME ASSEMBLY	STEEL	STAINLESS	ALUMINUM	BRASS
4	GLASS FRAME GASKET	NEOPRENE			
5	HINGE PIN	STAINLESS			
6	GLASS GASKET	NEOPRENE			
7	VIEWING GLASS	TEMPERED SAFETY GLASS			
8	RETAINING RING	BRASS			
9	COAMING ASSEMBLY	STEEL	STAINLESS	ALUMINUM	BRASS
10	BELL NUT	BRASS, CHROME PL			
11	DROP BOLT	BRASS, CHROME PL			
12	DROP BOLT PIN	STAINLESS			

MODEL No.	SIZE	ØA CLEAR VIEW	ØB	C	ØD	E	ØF (B.C.)	G (#HOLES & SIZE)
800	8"	7-7/8"	13-25/32"	1/2"	9-55/64"	3/4"	12-13/64"	8 HOLES, 35/64"
800	10"	9-27/32"	15-3/4"	1/2"	12"	3/4"	14-21/64"	8 HOLES, 35/64"
800	12"	11-13/16"	17-23/32"	1/2"	14-11/64"	3/4"	16-19/64"	12 HOLES, 35/64"
800	14"	13-25/32"	19-11/16"	5/8"	16-9/64"	3/4"	18-17/64"	12 HOLES, 45/64"
800	16"	15-3/4"	21-21/32"	5/8"	18-7/64"	3/4"	20-15/64"	12 HOLES, 45/64"
800	18"	17-23/32"	23-5/8"	5/8"	20-1/16"	3/4"	22-13/64"	12 HOLES, 55/64"



"My advice to defensive players is to take the shortest route to the ball, and arrive in a bad humor."

—Bowden Wyatt



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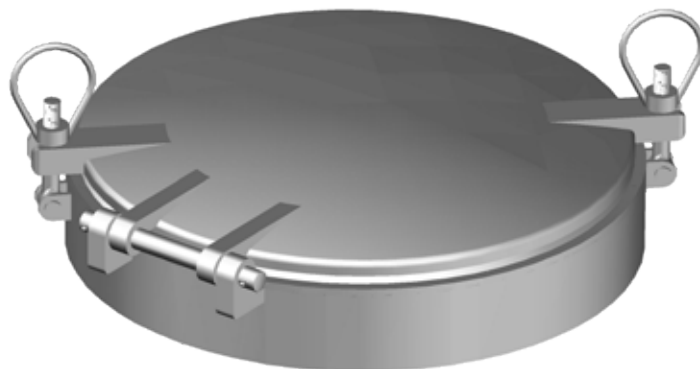
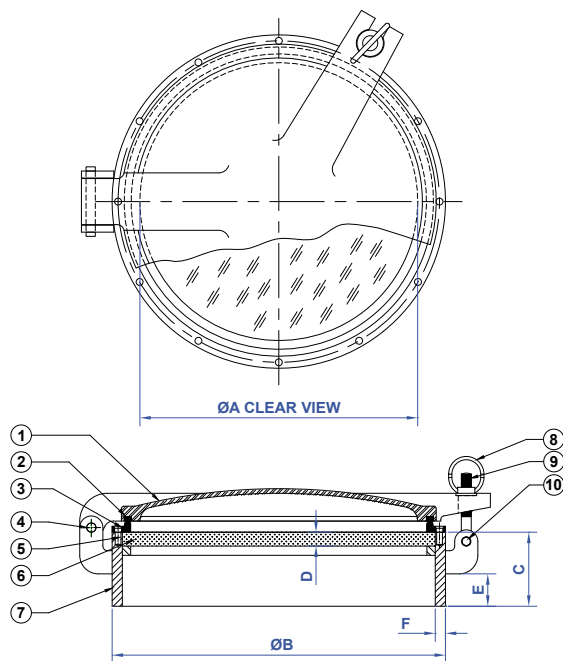
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MODEL 900 - WELD – IN FIXED LIGHT W/ COVER

BR

PIECE No.	DESCRIPTION	STEEL LIGHT	SS LIGHT	ALUMINUM LIGHT	BRASS LIGHT
1	COVER	SPECIFY			
2	COVER GASKET	NEOPRENE			
3	RETAINING RING	BRASS			
4	HINGE PIN	STAINLESS			
5	GLASS GASKET	NEOPRENE			
6	GLASS	TEMPERED SAFETY GLASS			
7	FRAME ASSEMBLY	STEEL	STAINLESS	ALUMINUM	BRASS
8	BELL NUT	BRASS, CHROME PL			
9	DROP BOLT	BRASS, CHROME PL			
10	DROP BOLT PIN	STAINLESS			

MODEL No.	SIZE	ØA	ØB	C	D	E	F
900	8"	7-7/8"	9-27/32"	4"	3/4"	1-1/4"	25/64"
900	10"	9-27/32"	12"	4"	3/4"	1-1/4"	25/64"
900	12"	11-13/16"	14-11/64"	4"	3/4"	1-1/4"	25/64"
900	14"	13-25/32"	16-9/64"	4"	3/4"	1-1/4"	25/64"
900	16"	15-3/4"	18-7/64"	4"	3/4"	1-1/4"	25/64"
900	18"	17-23/32"	20"	4"	3/4"	1-1/4"	25/64"



DOORS

"Solar power is the last energy resource that isn't owned yet--nobody taxes the sun yet."

—Bonnie Raitt

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“If it were not for the reporters, I would tell you the truth.”

—Chester A. Arthur



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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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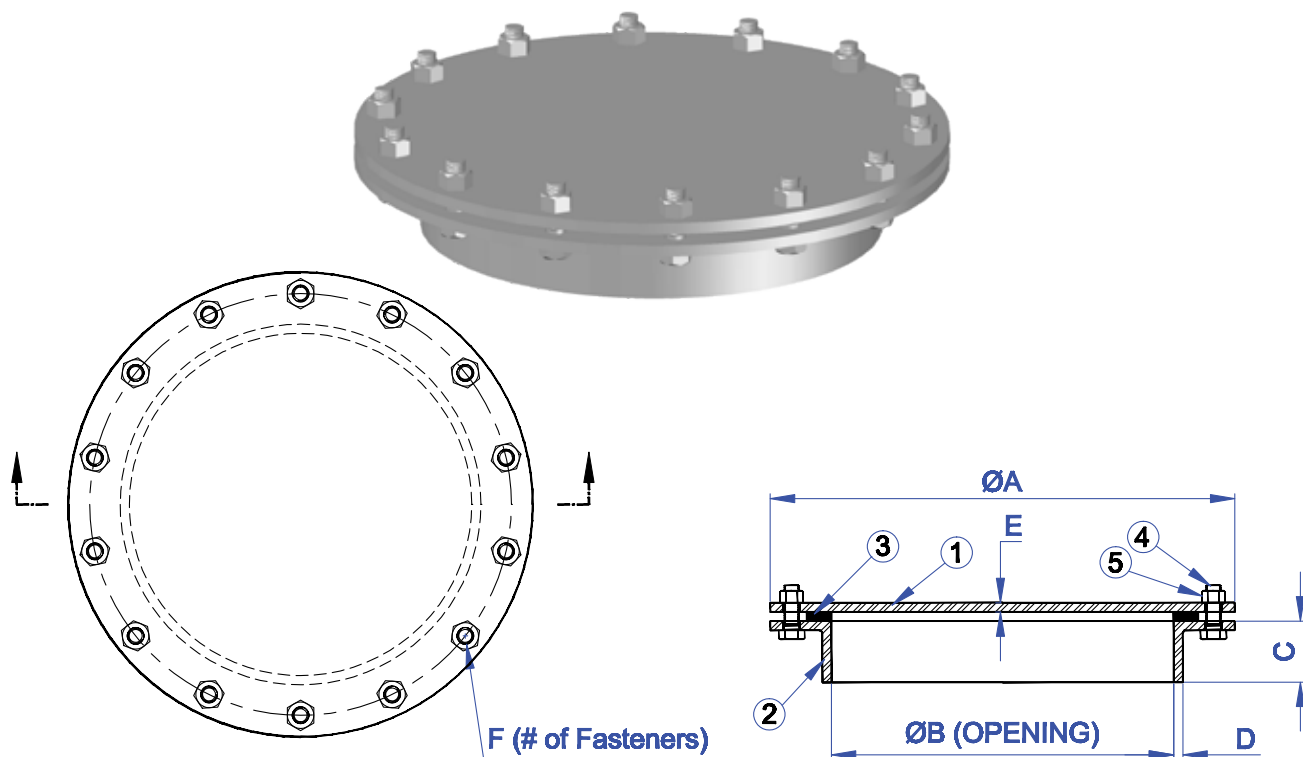
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8 DOG SQUARE	146
2 BOLT OVAL	147

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

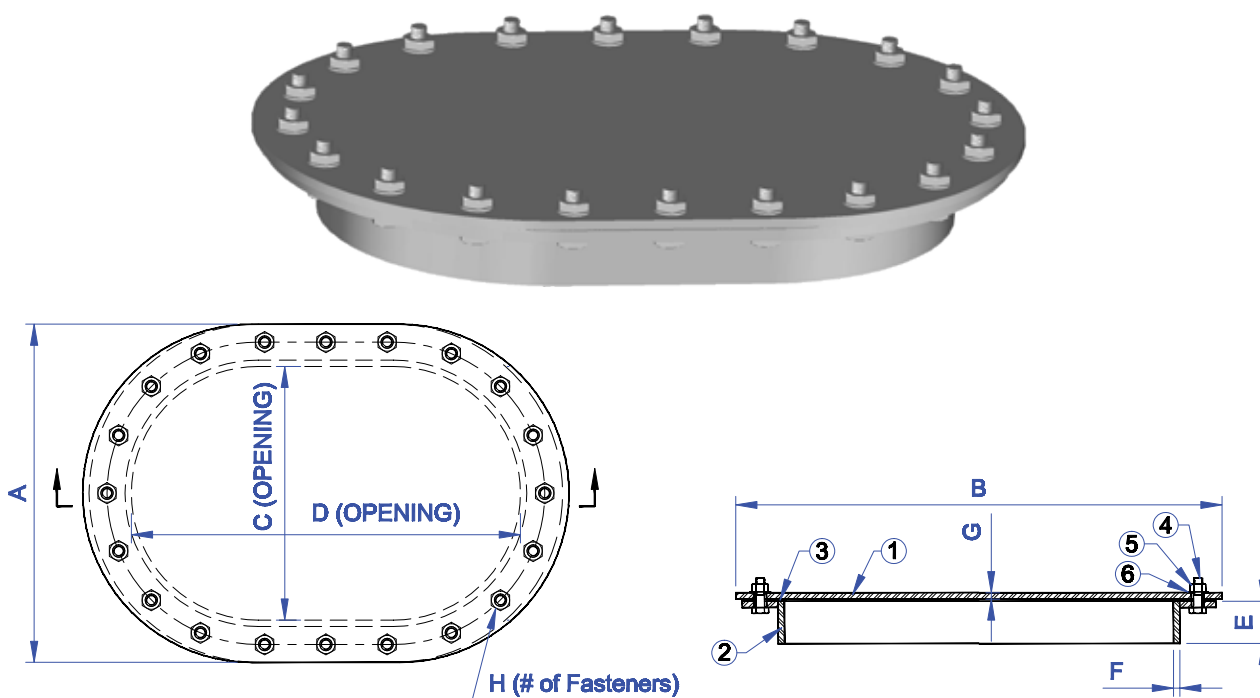


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RAISED MULTI-BOLT OVAL HATCH



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

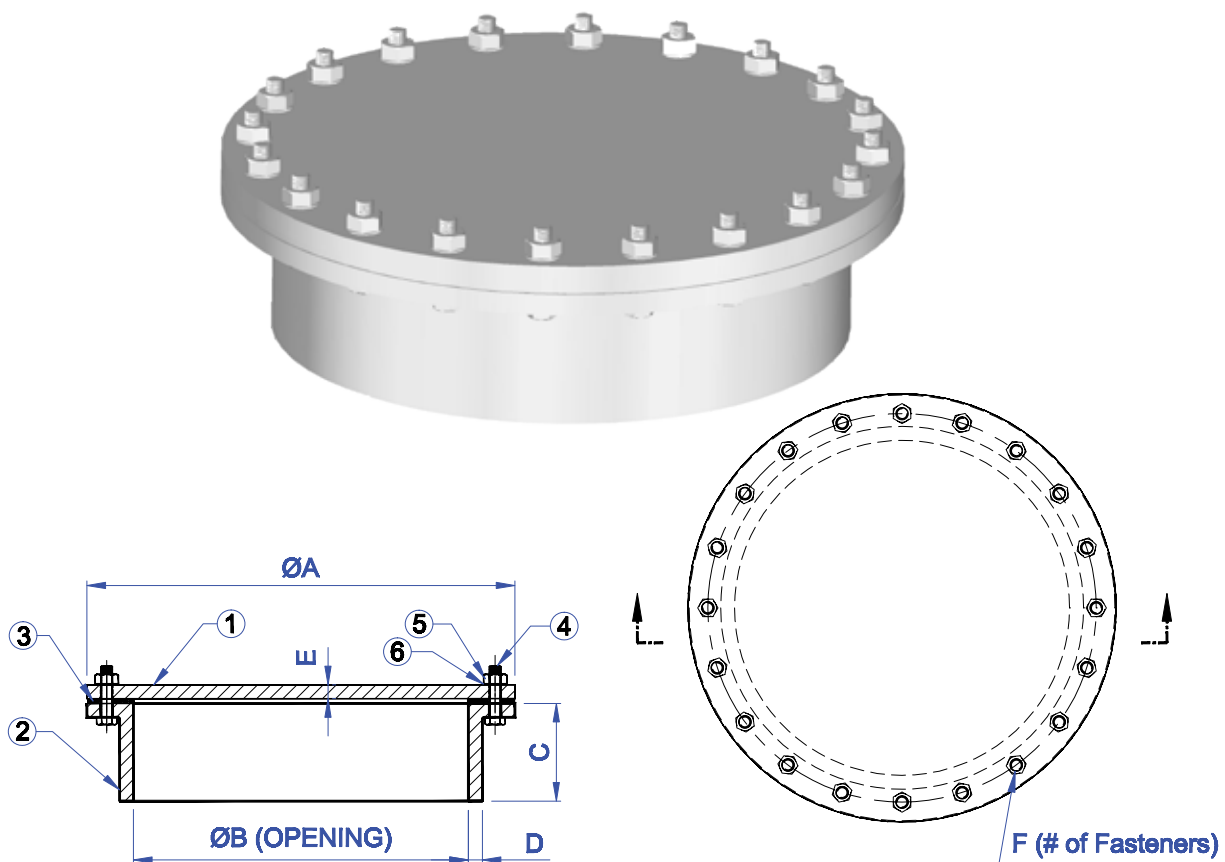
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RAISED (6 PSI) MULTI-BOLT HATCH



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



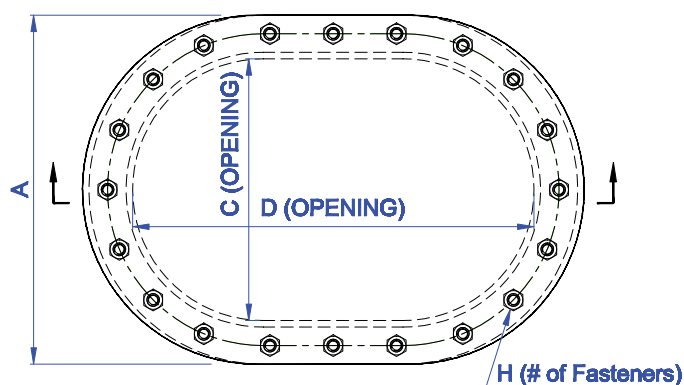
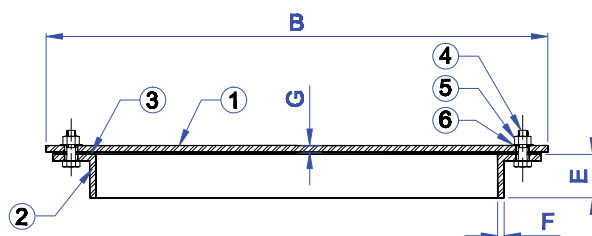
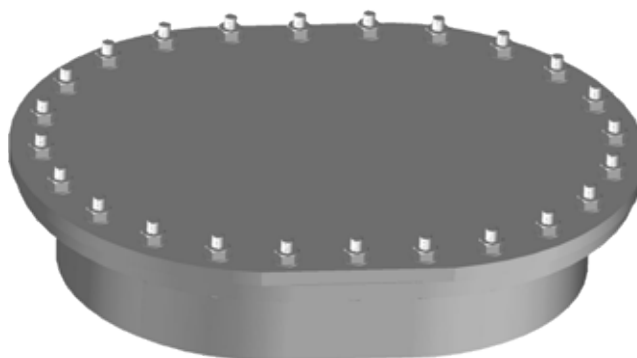
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RAISED (6 PSI) MULTI-BOLT OVAL HATCH

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

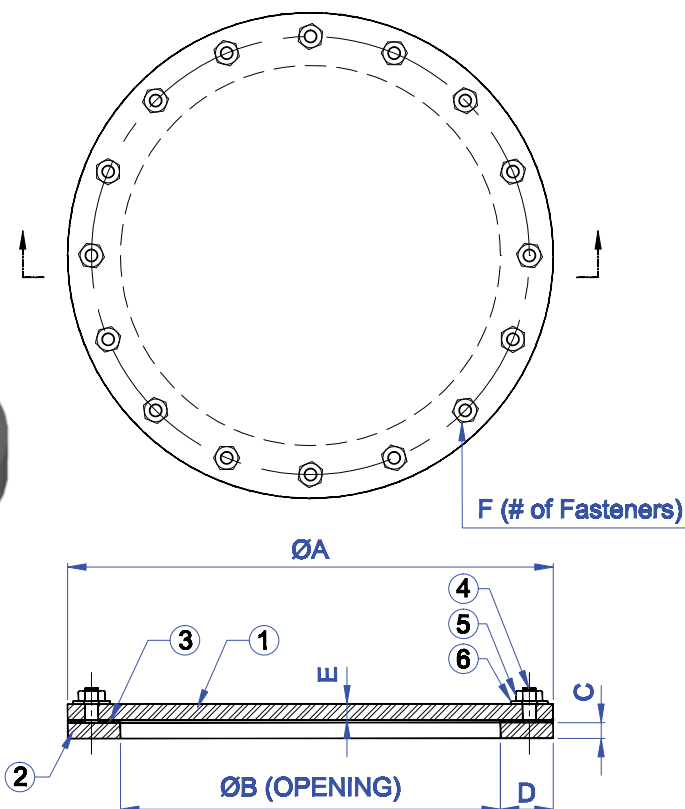
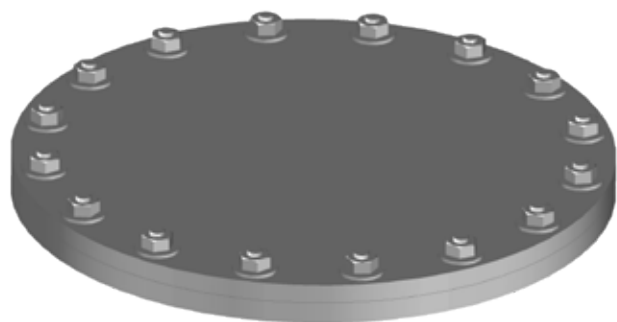
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RAISED MULTI-STUD ROUND HATCH



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

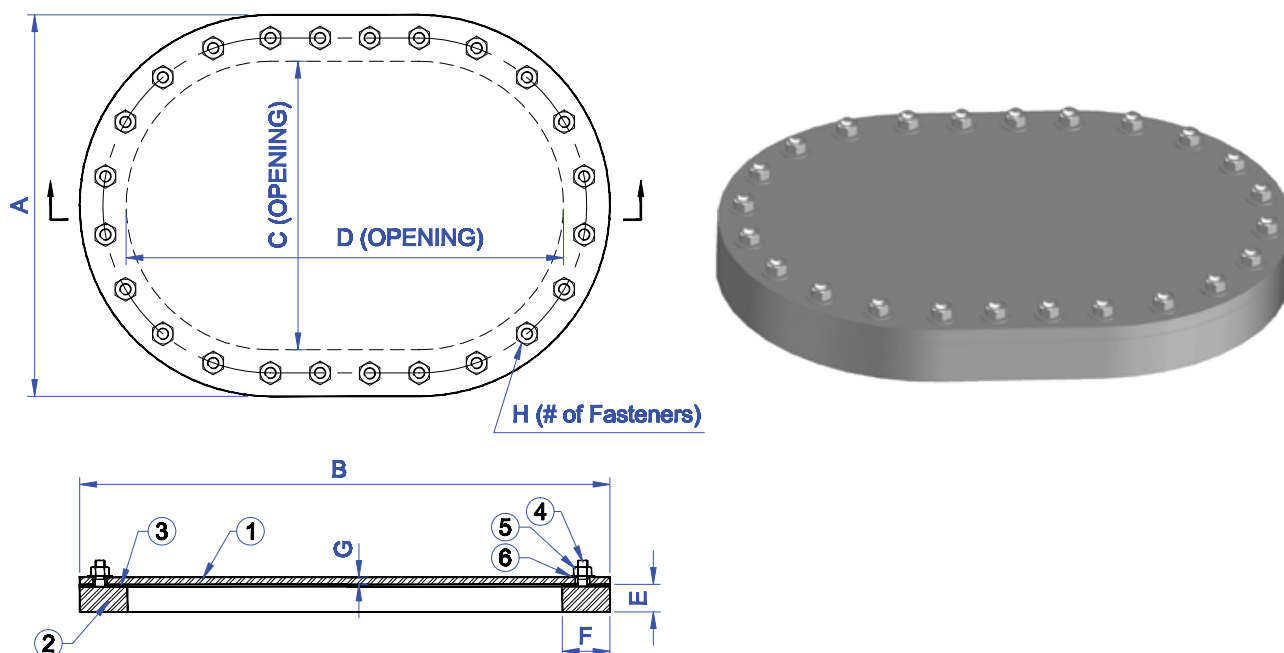


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RAISED MULTI-STUD OVAL HATCH



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.

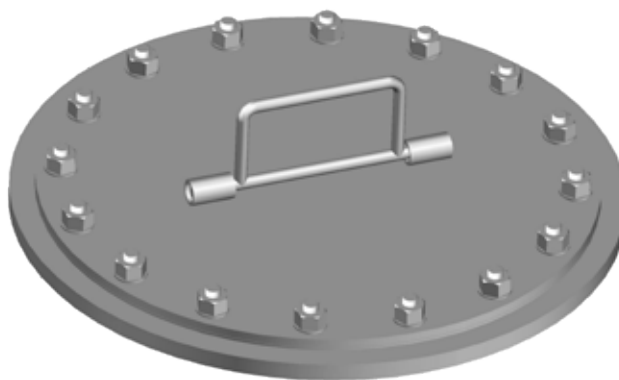
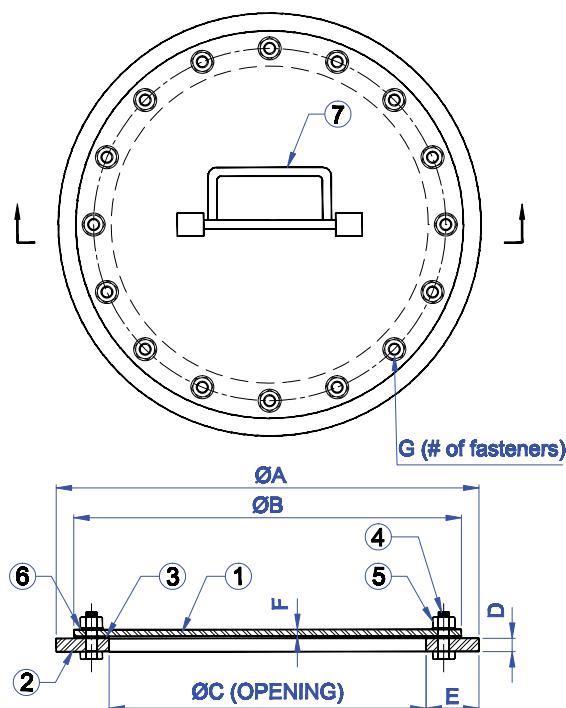
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FLUSH MULTI-BOLT CLEAN OUT HATCH



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

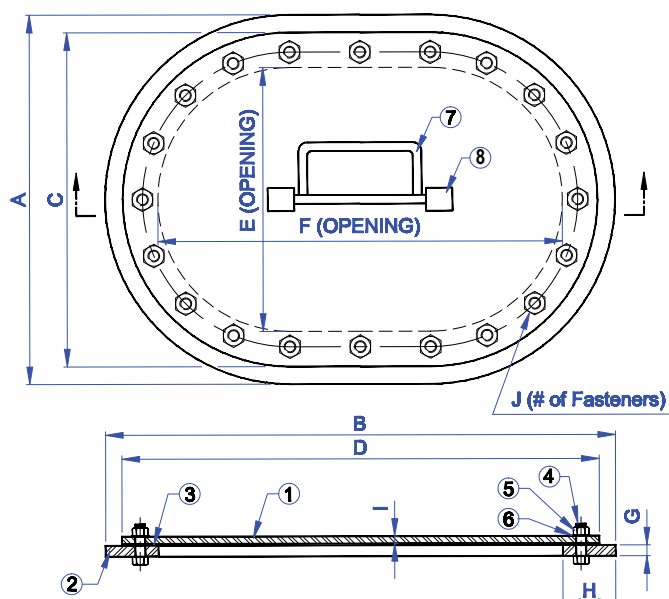


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FLUSH MULTI-BOLT OVAL HATCH



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

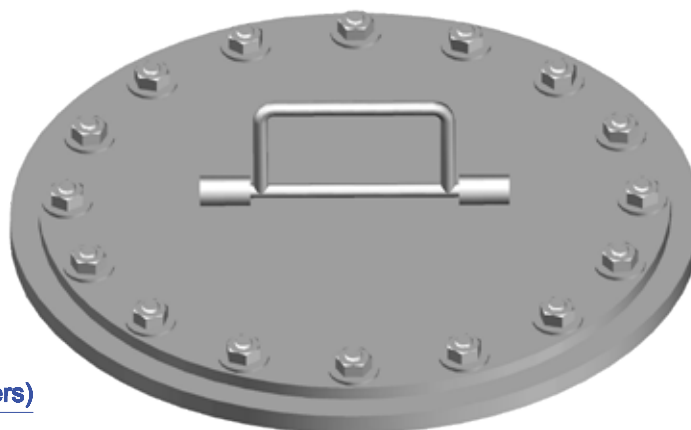
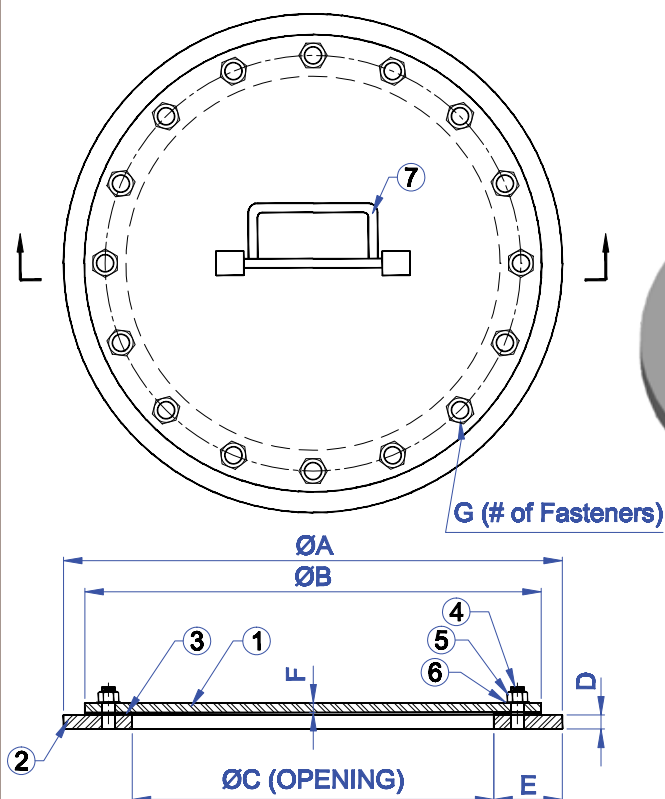
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FLUSH MULTI-STUD ROUND HATCH



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

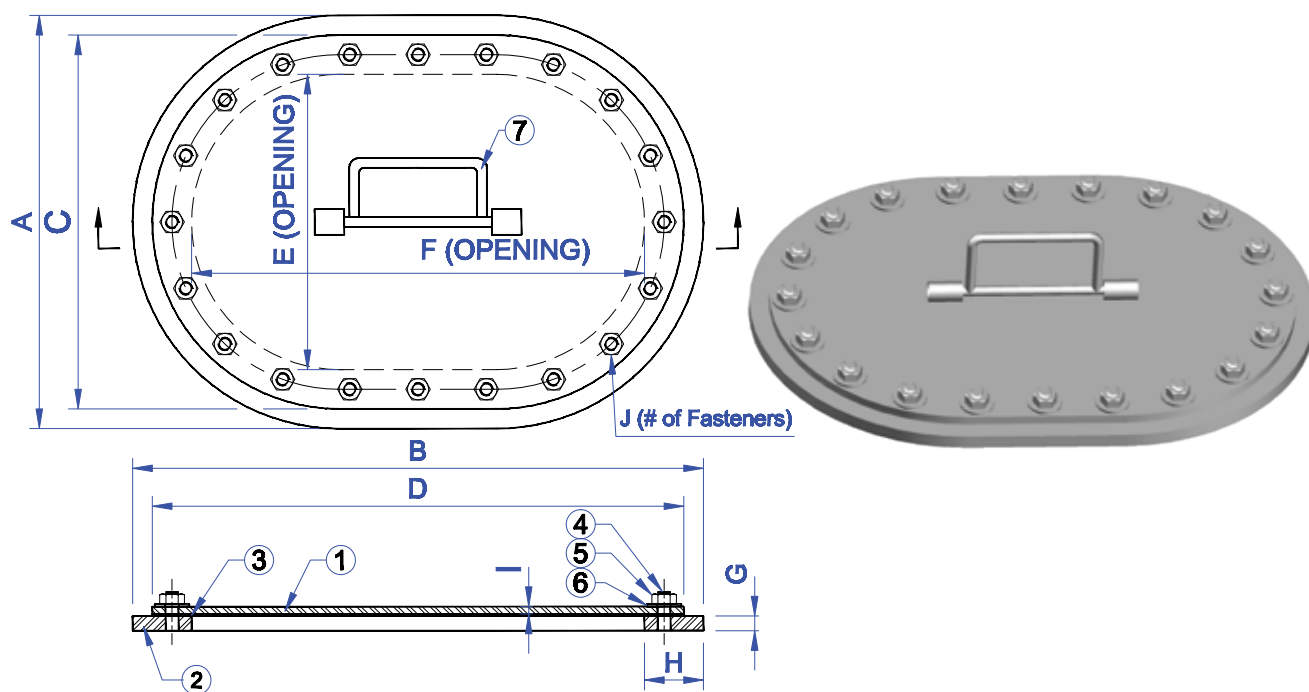


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FLUSH MULTI-STUD OVAL HATCH



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

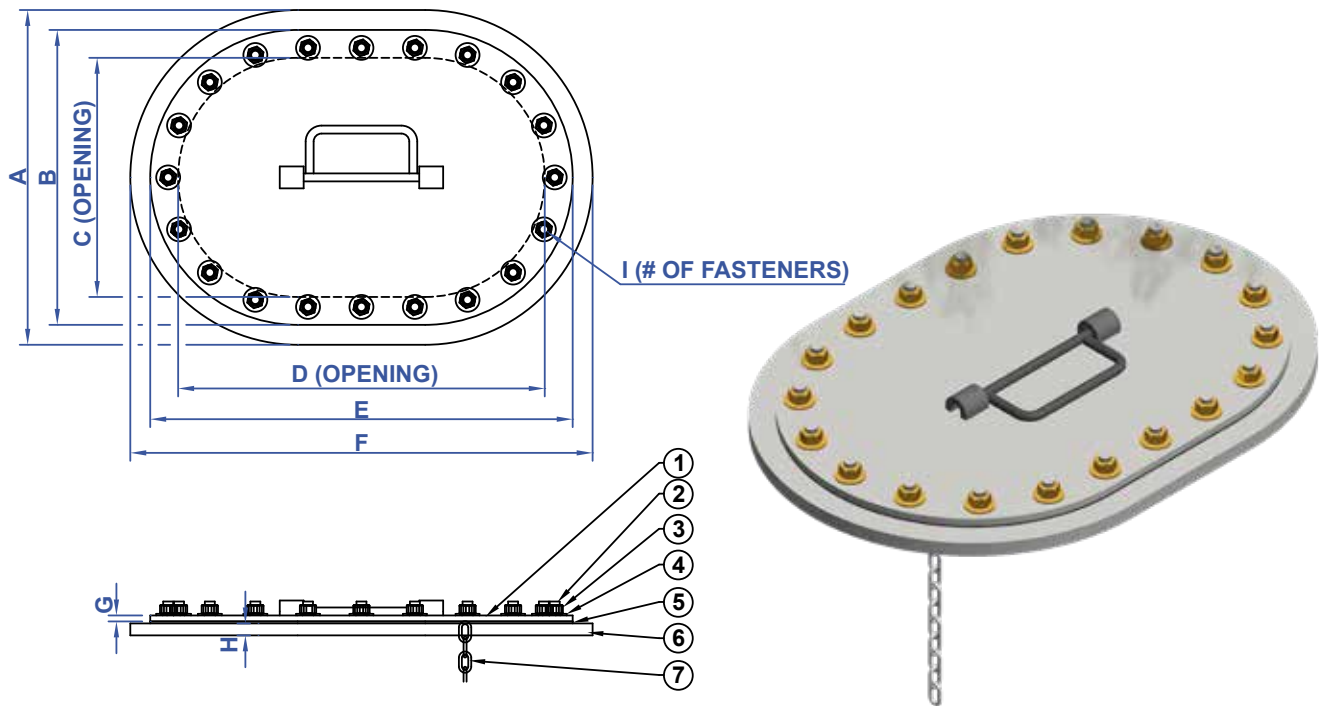
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FLUSH MULTI-STUD OVAL HATCH



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

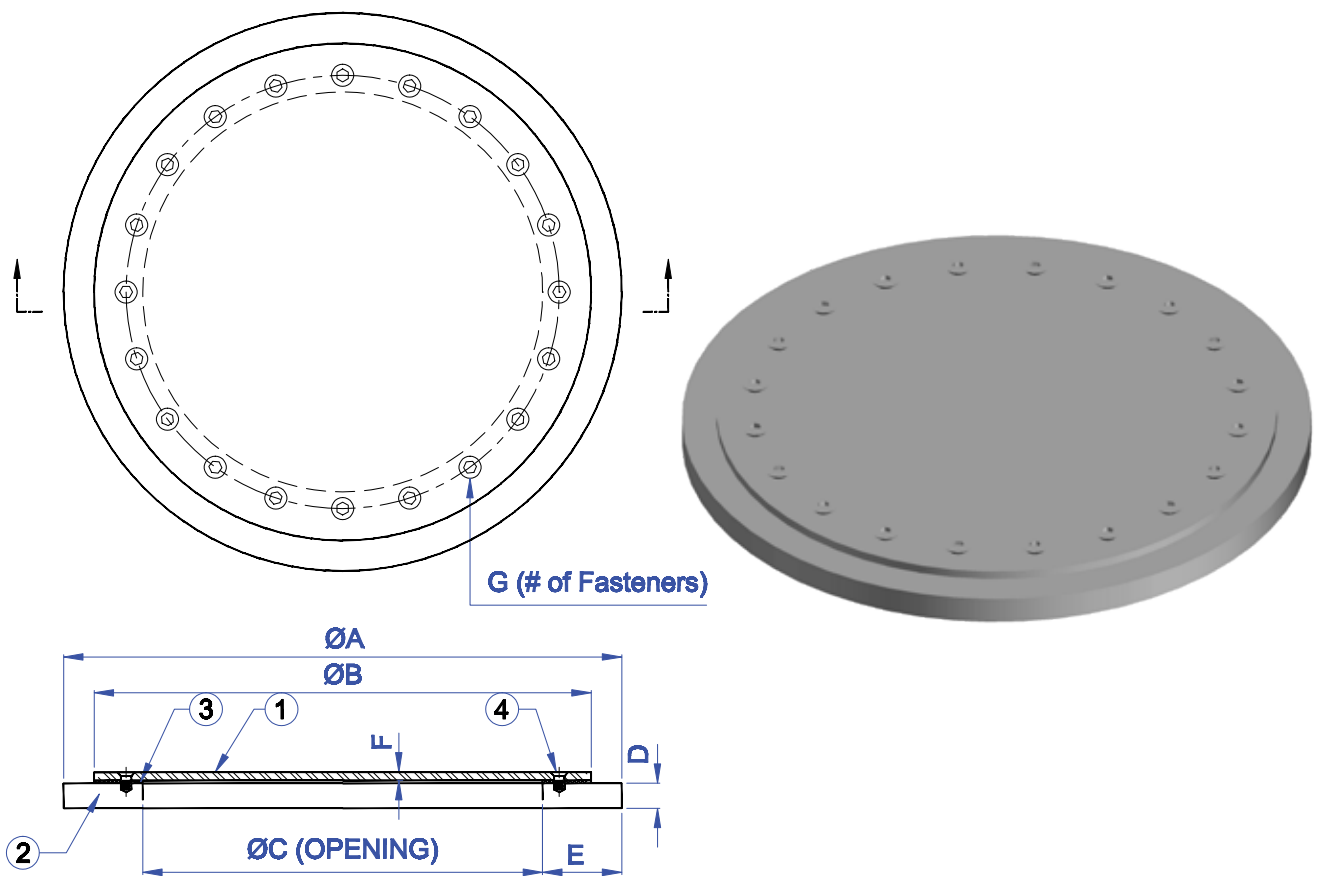


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FLUSH MULTI-SCREW ROUND HATCH



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

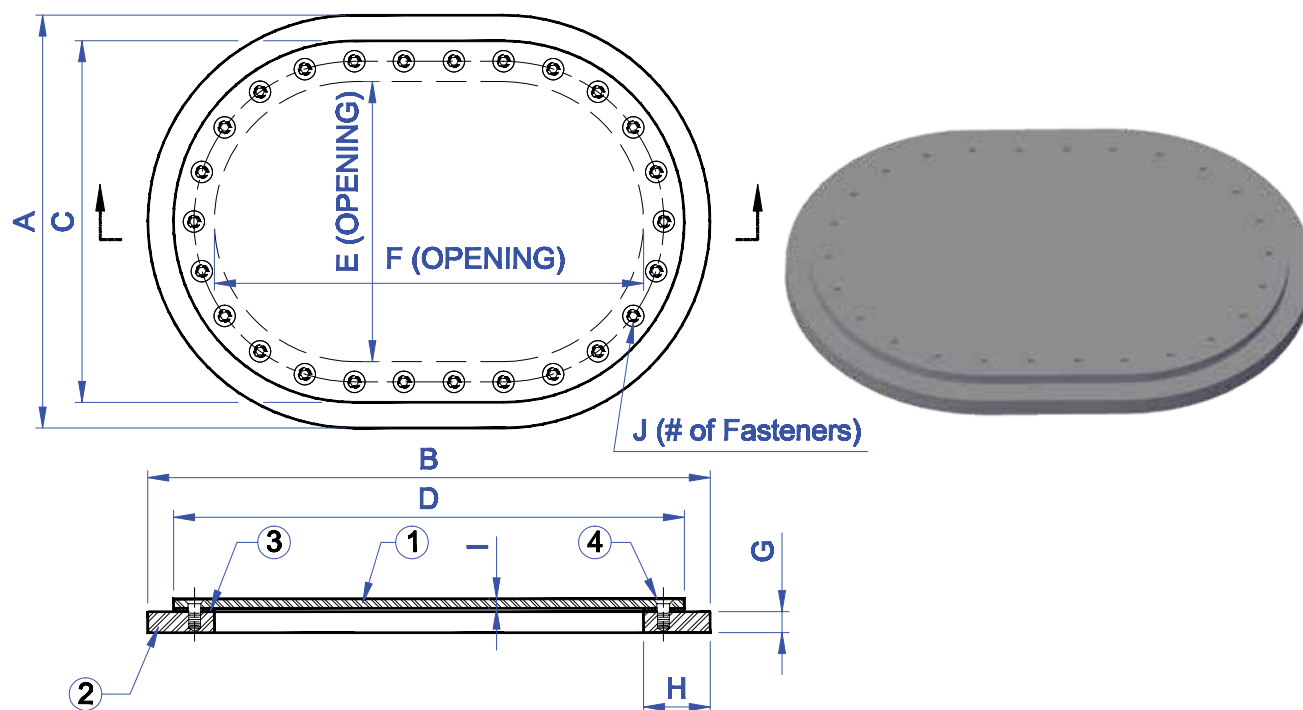
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FLUSH MULTI-SCREW OVAL HATCH



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

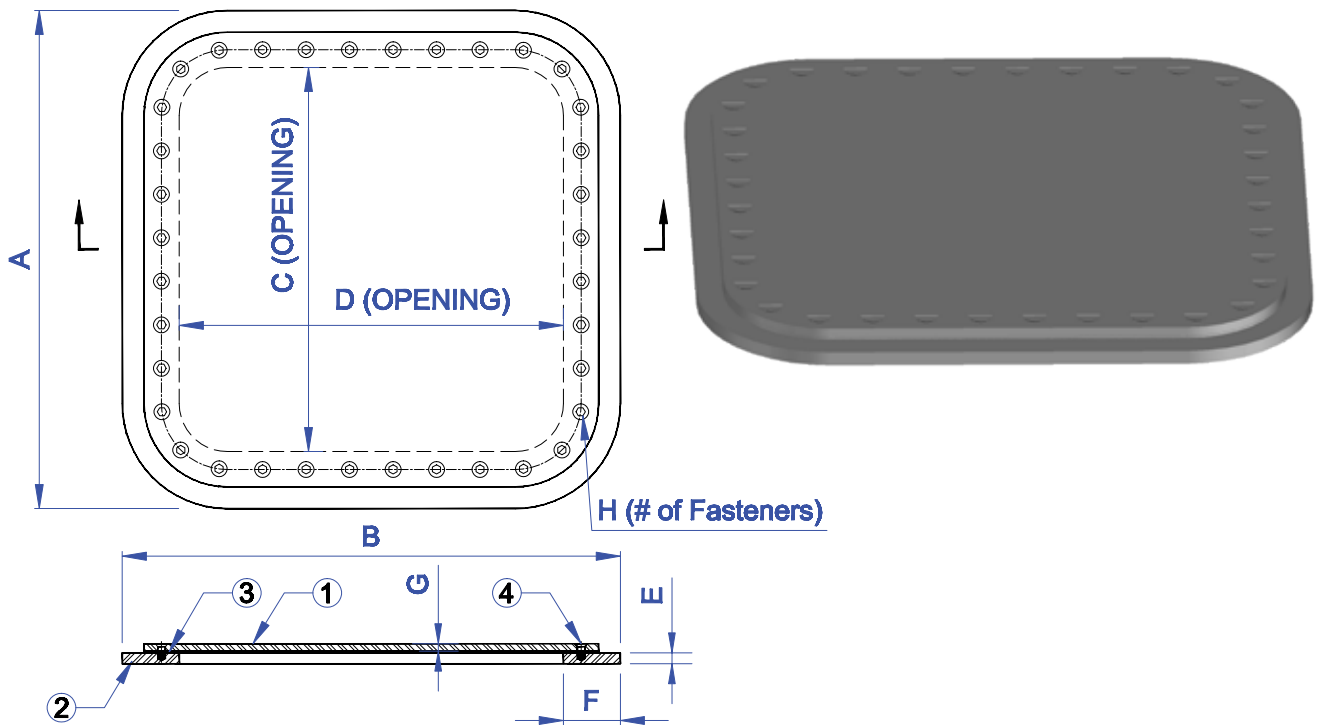


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FLUSH MULTI-SCREW SQUARE HATCH



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.

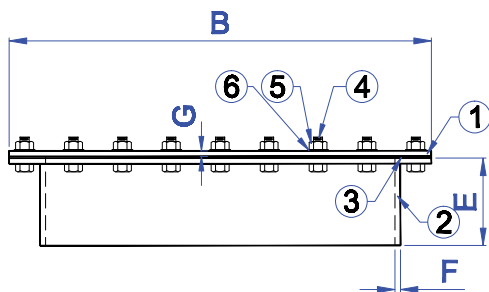
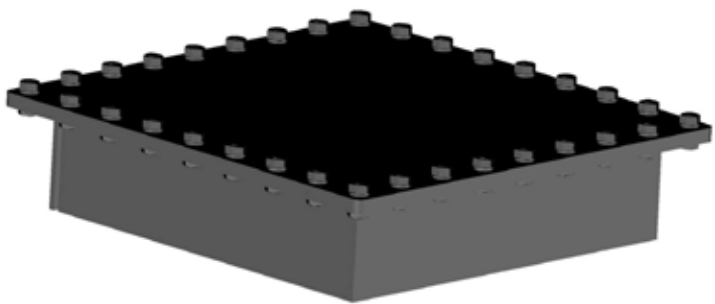
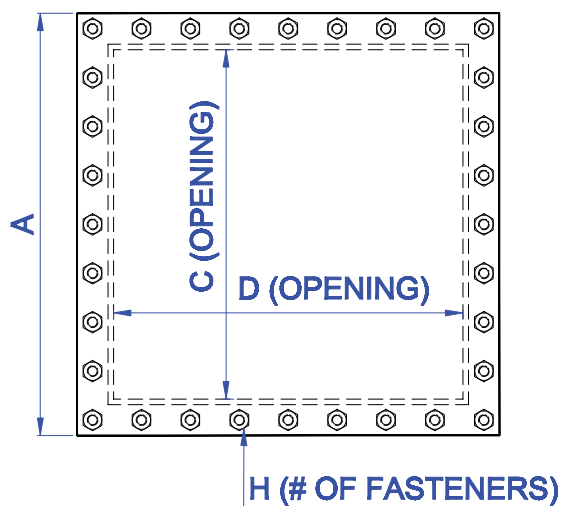
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VALVE REMOVAL HATCH



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

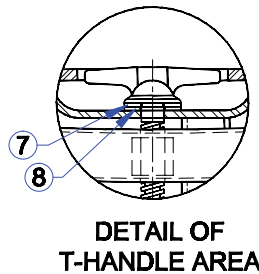
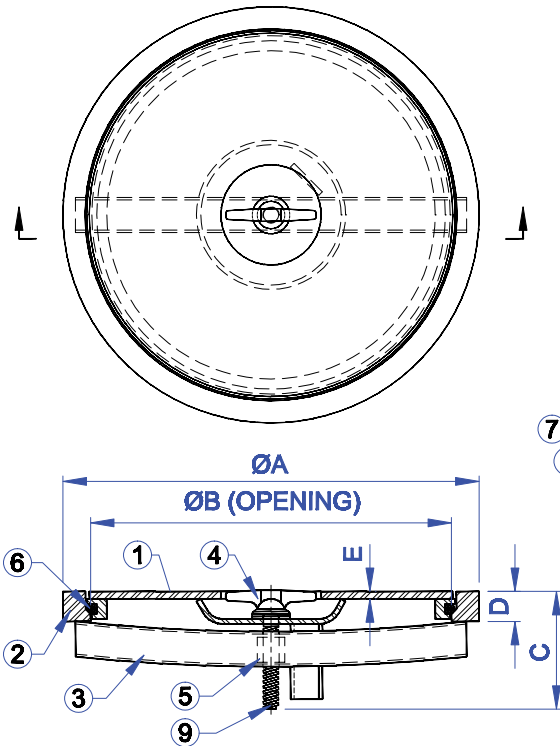


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FLUSH WATERTIGHT T-HANDLE HATCH



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

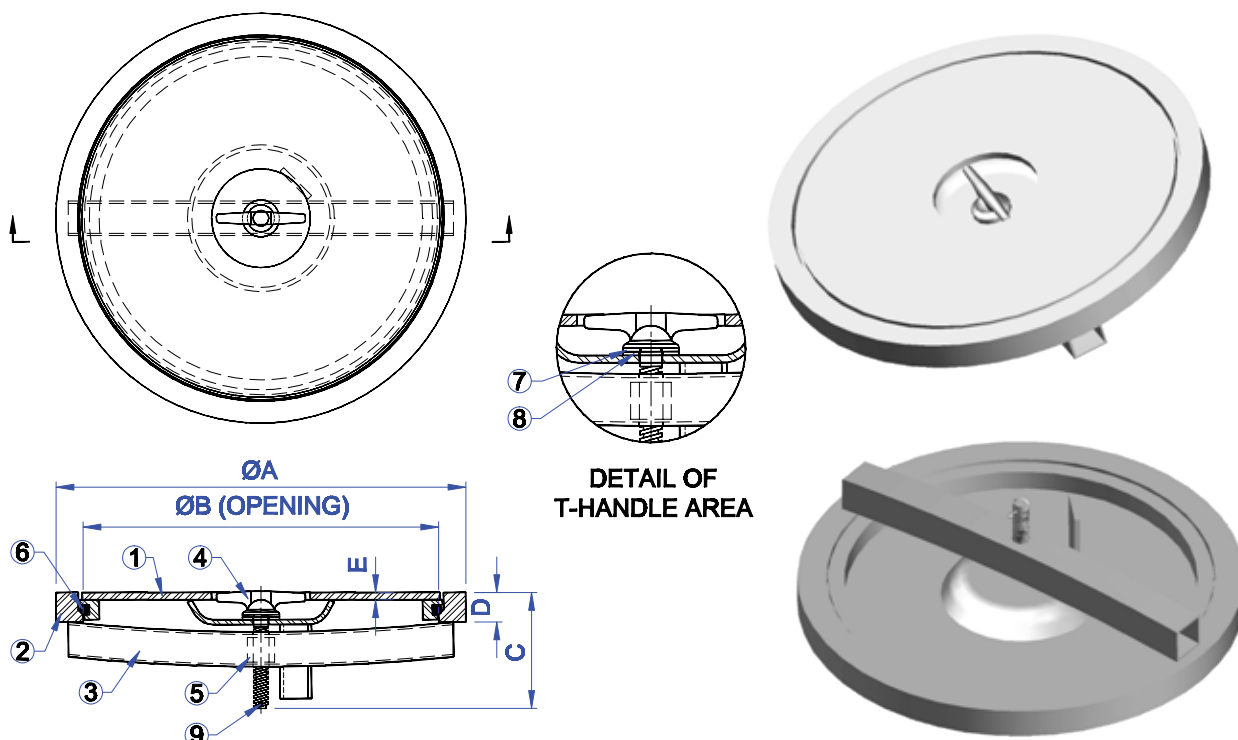
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FLUSH GALV. WATERTIGHT T-HANDLE HATCH



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

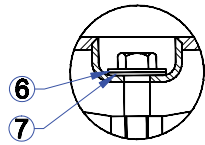
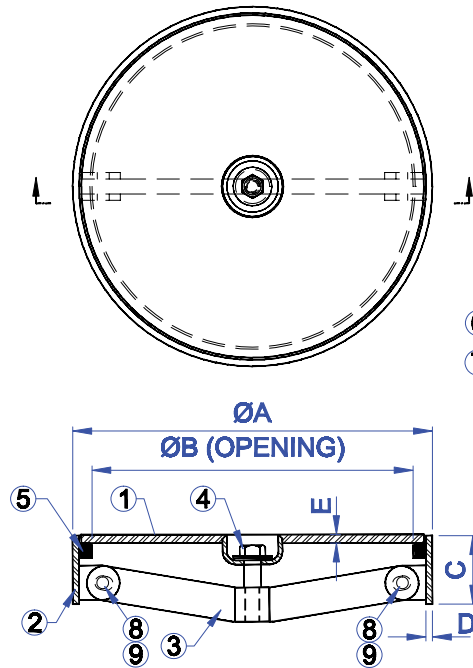


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SINGLE BOLT ROUND HATCH



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	ØA	ØB	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.

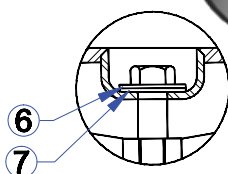
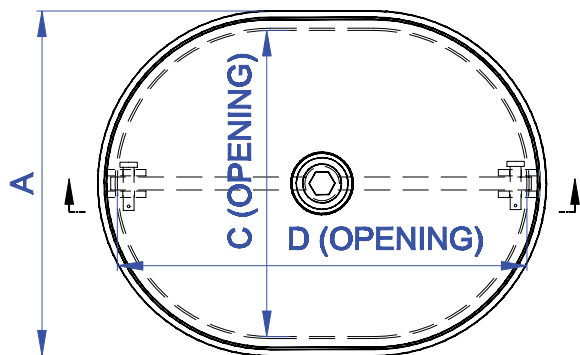
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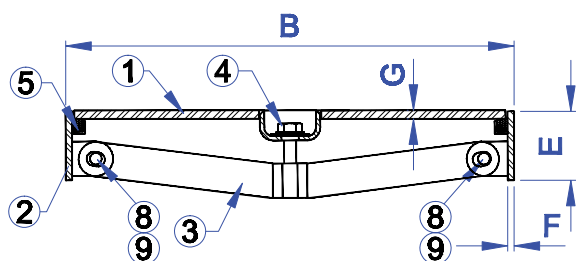


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SINGLE BOLT OVAL HATCH



DETAIL OF
BOLT AREA



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



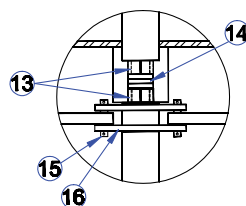
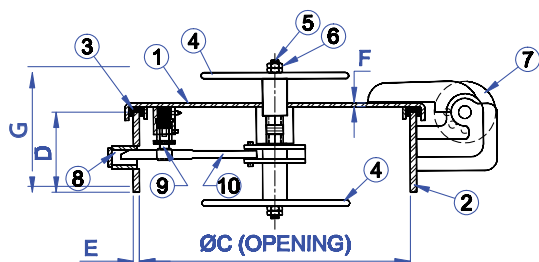
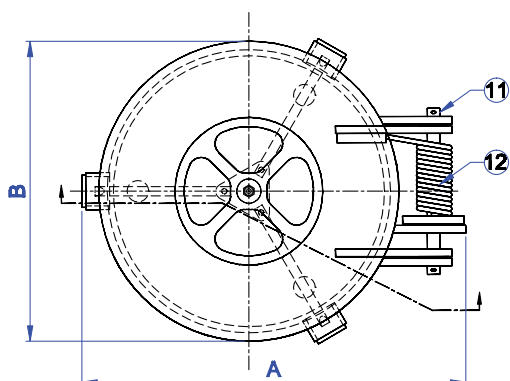
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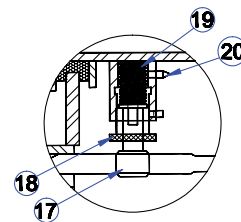
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RAISED WATERTIGHT QUICK ACTING ESCAPE HATCH

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.

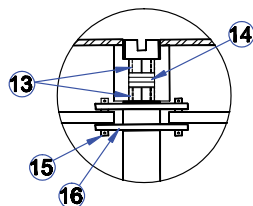
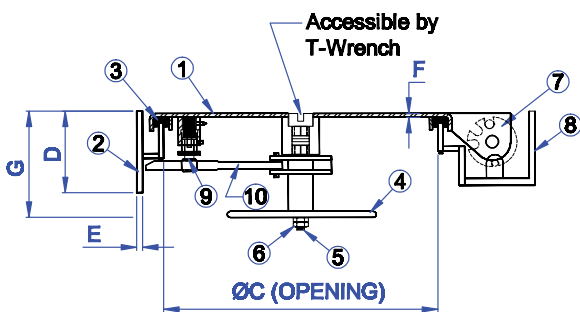
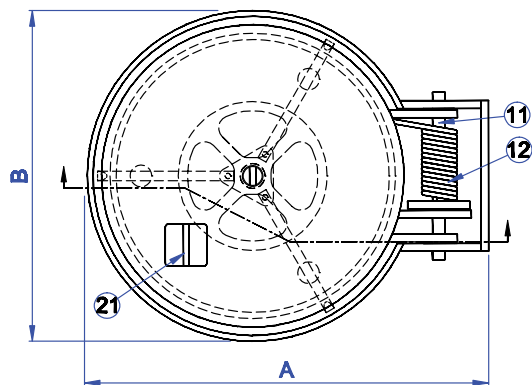
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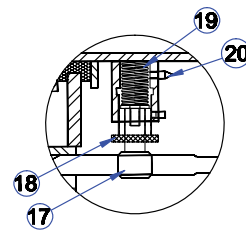


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FLUSH WATERTIGHT QUICK ACTING ESCAPE HATCH



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

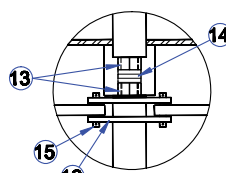
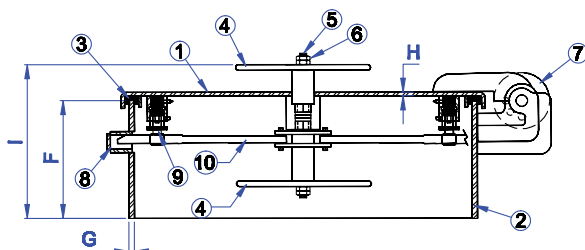
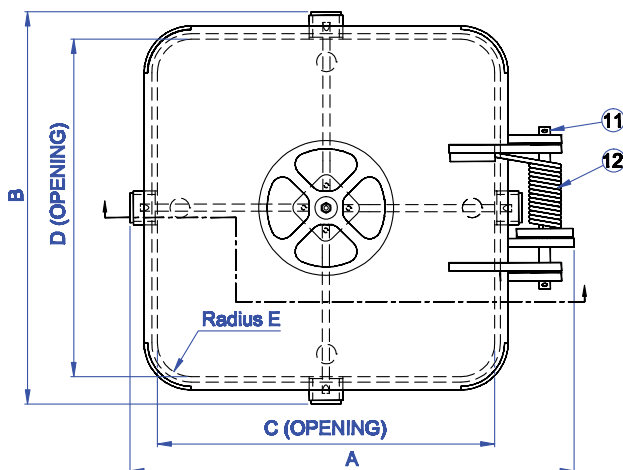


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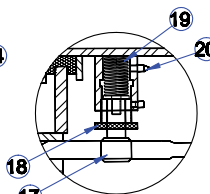
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RAISED WATERTIGHT QUICK ACTING HATCH



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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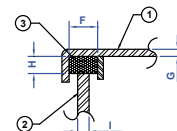
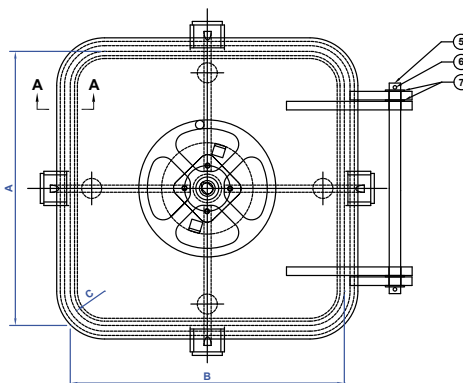
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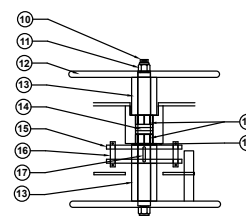
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RAISED WATERTIGHT QUICK ACTING HATCH

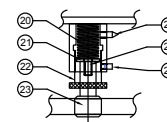
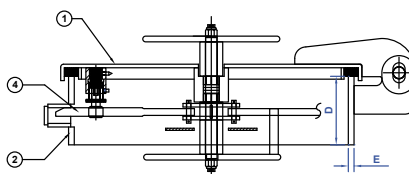
No.	DESCRIPTION	MATERIAL
1	HATCH COVER ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	GASKET	NEOPRENE
4	DOG ARM ROD	STAINLESS
5	HINGE PIN	STAINLESS
6	COTTER PIN	STAINLESS
7	FLAT WASHER	BRASS
8	-	-
9	-	-
10	CENTER SHAFT	STAINLESS
11	HEX LOCK NUT	316 SS
12	HANDWHEEL	GALV'D STEEL
13	HANDWHEEL HUB	STEEL
14	PACKING	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.

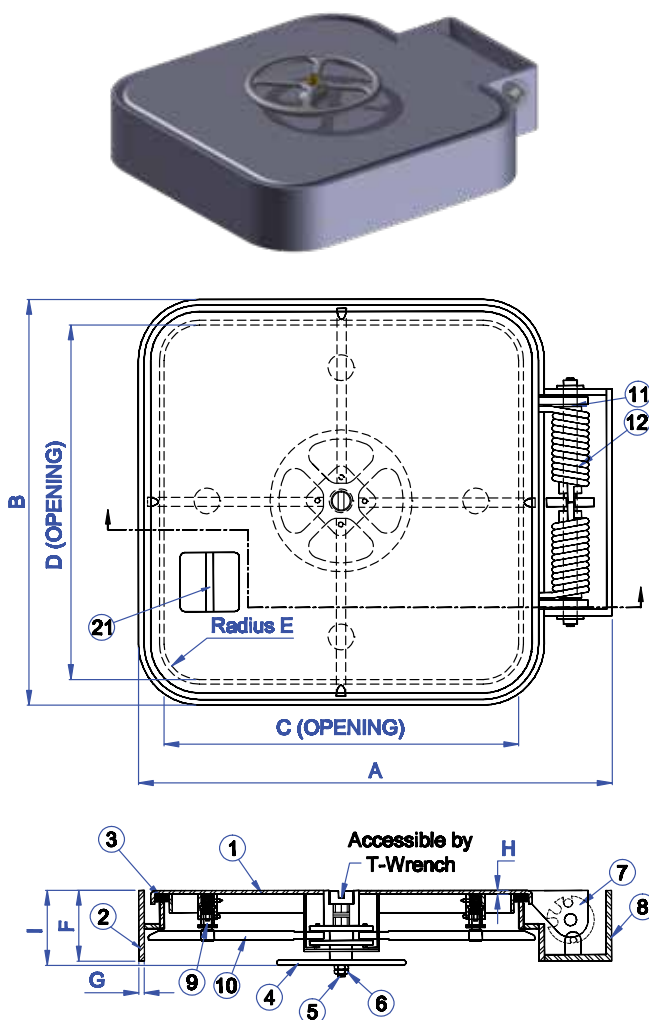
2. ADDITIONAL OPENING DIMENSIONS AVAILABLE.

3. OTHER GASKET MATERIALS AVAILABLE.

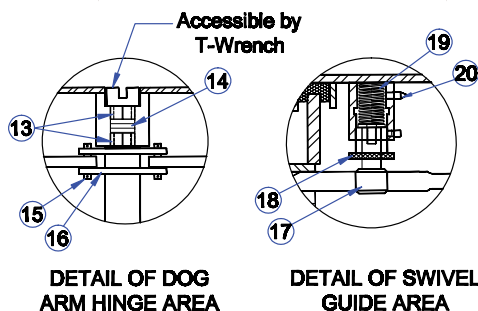
"From Stettin in the Baltic to Trieste in the Adriatic, an 'iron curtain' has descended across the Continent. Behind that line lie all the capitals of the ancient states of Central and Eastern Europe. Warsaw, Berlin, Prague, Vienna, Budapest, Belgrade, Bucharest and Sofia, all these famous cities and 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

FLUSH WATERTIGHT QUICK ACTING HATCH



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

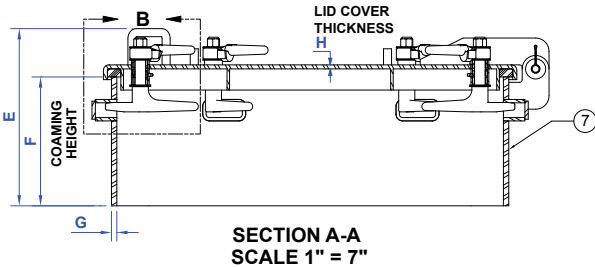
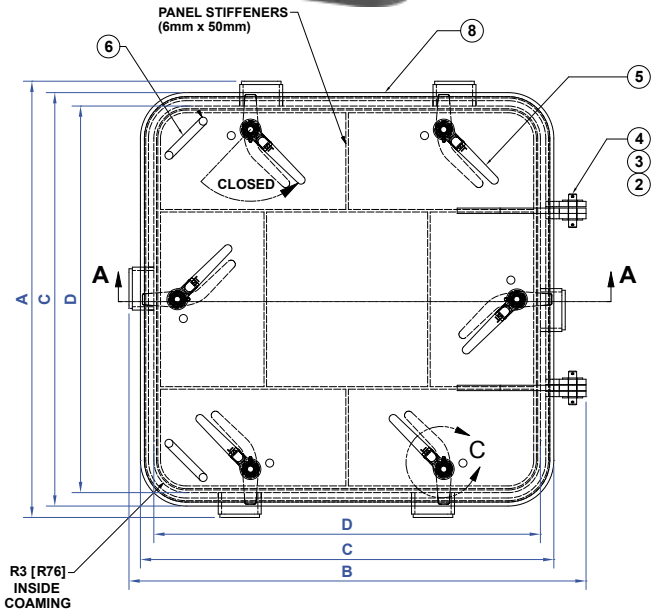
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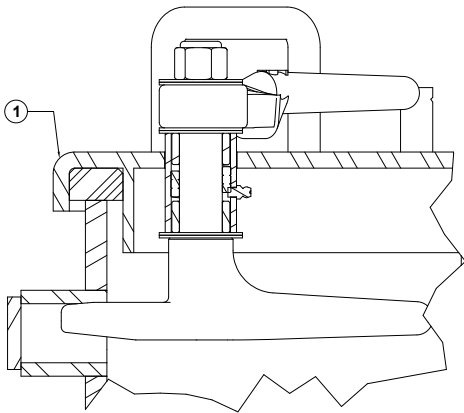


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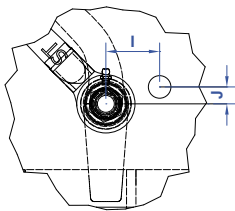
RAISED WATERTIGHT FIXED DOG HATCH



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

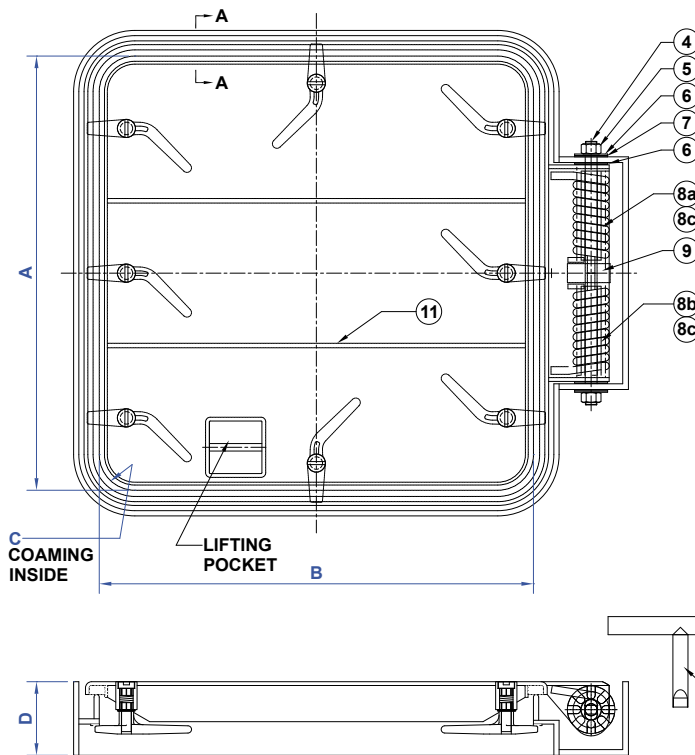
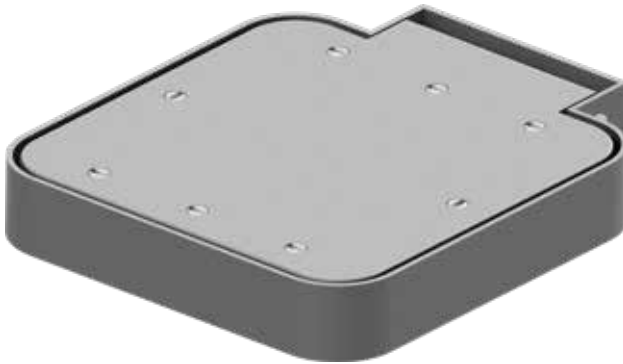


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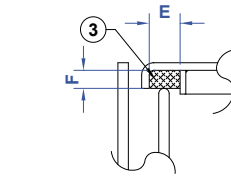
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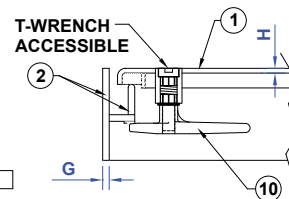
FLUSH WATERTIGHT FIXED DOG HATCH



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

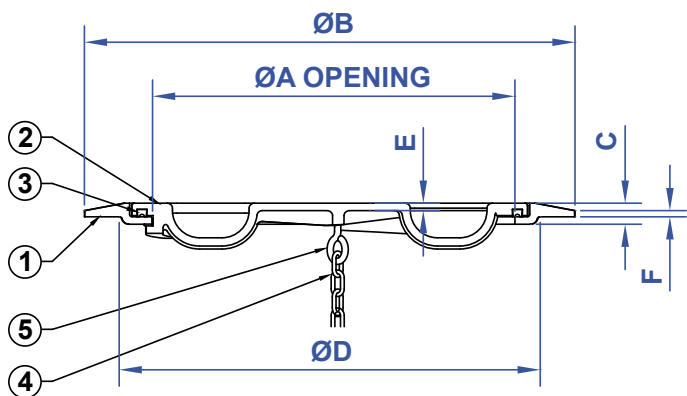
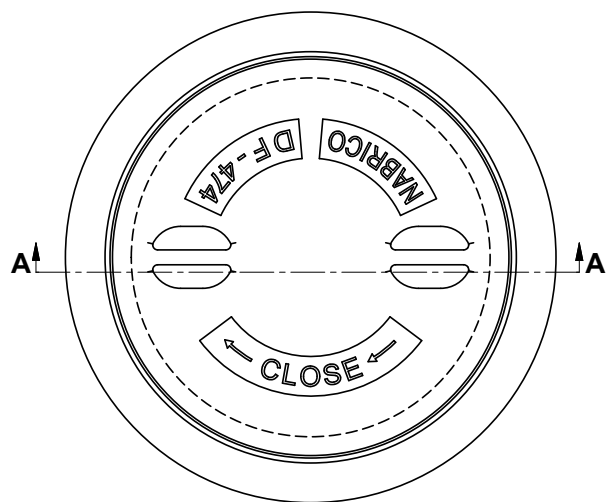
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DF-474 TWIST LOCK HATCH



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

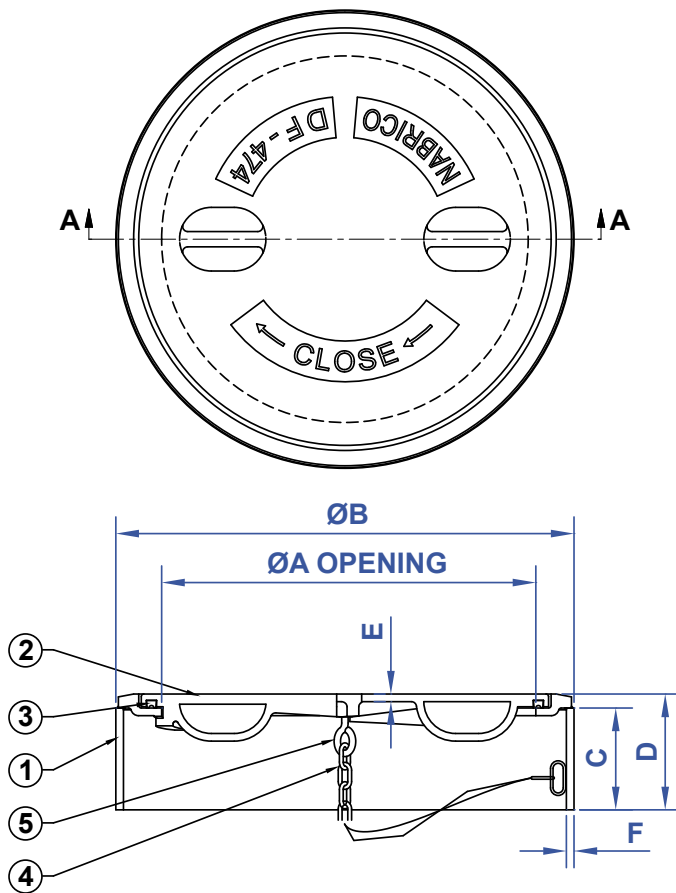


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DF-474-5 TWIST LOCK HATCH



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

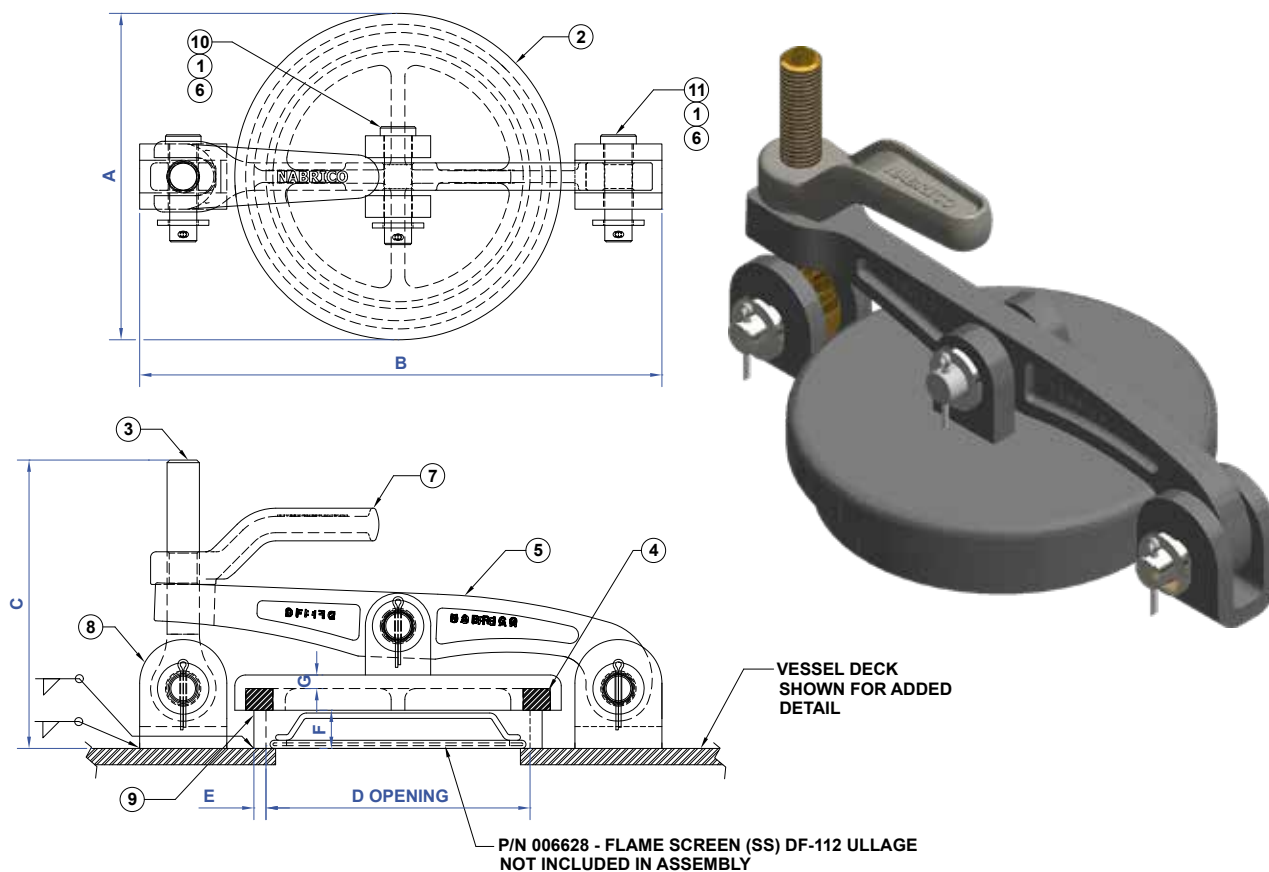
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SINGLE DOG ULLAGE HATCH



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

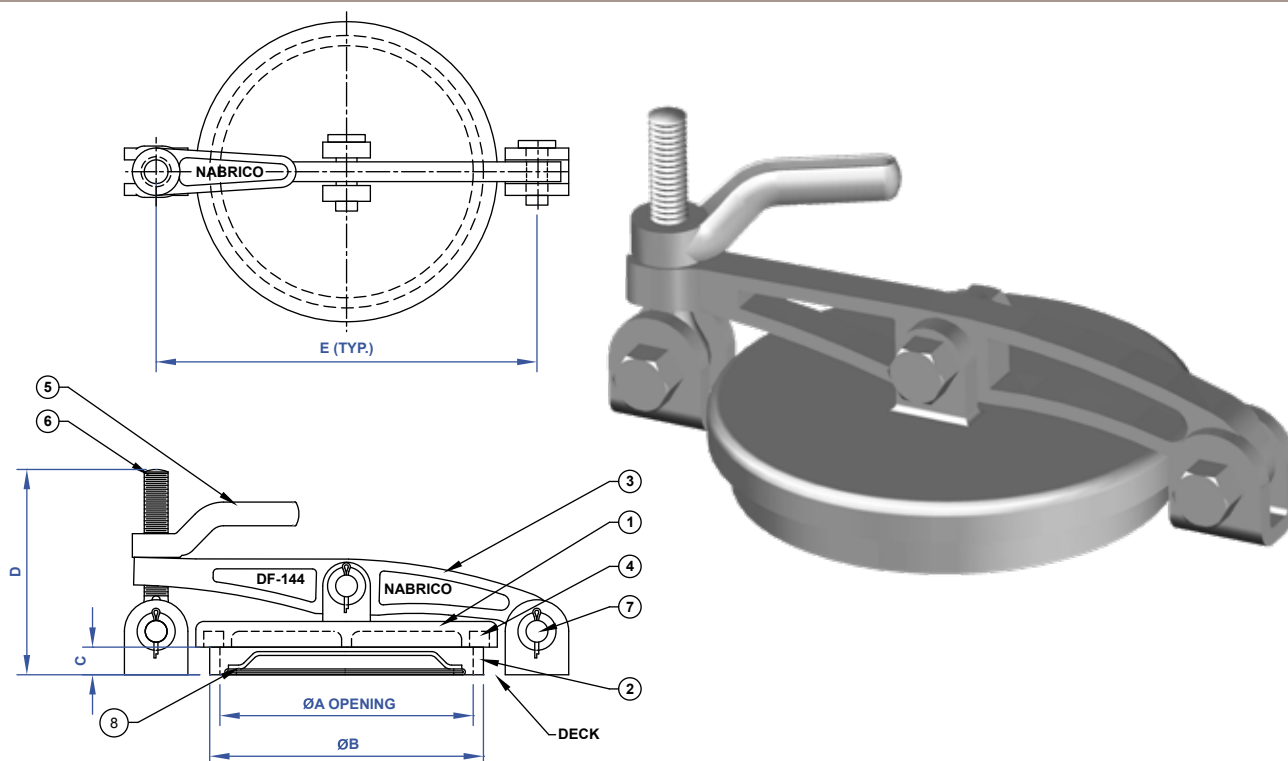


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SINGLE DOG ULLAGE HATCH



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

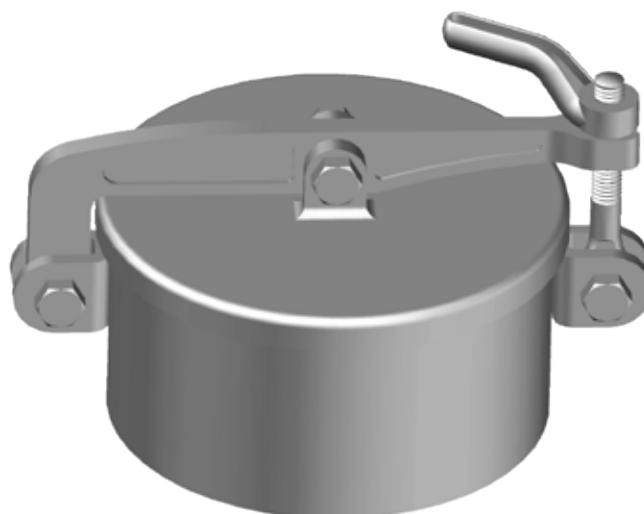
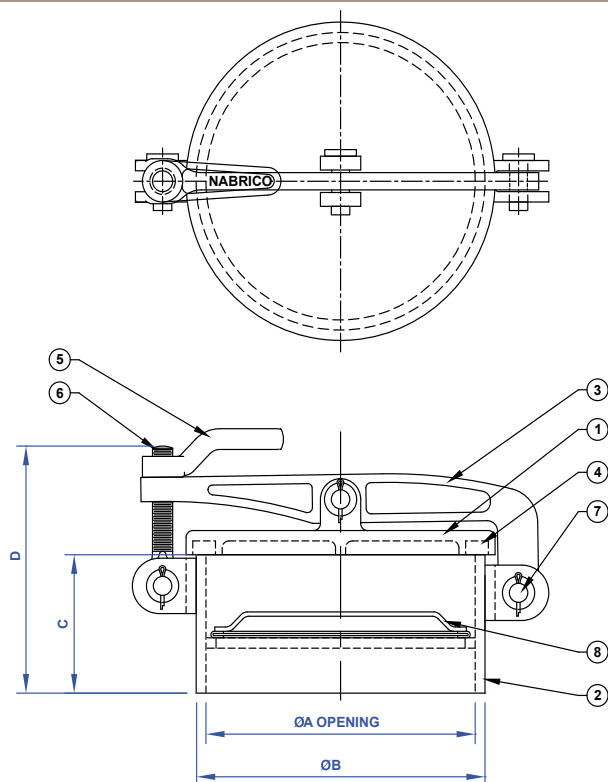
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SINGLE DOG ULLAGE HATCH



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

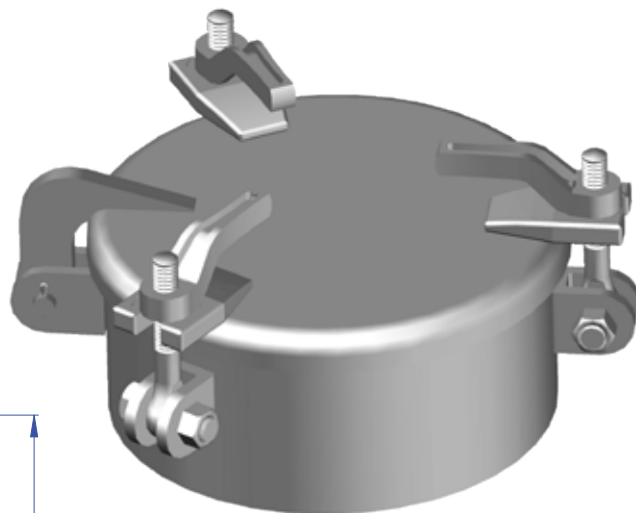
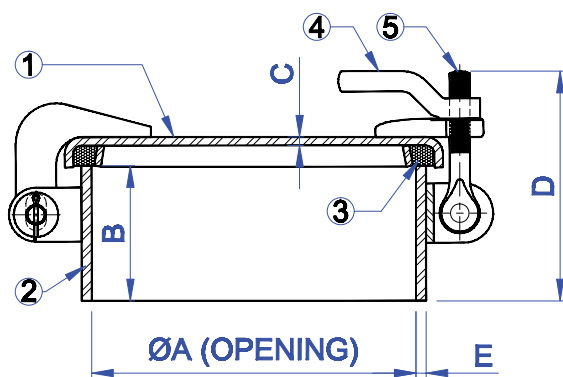
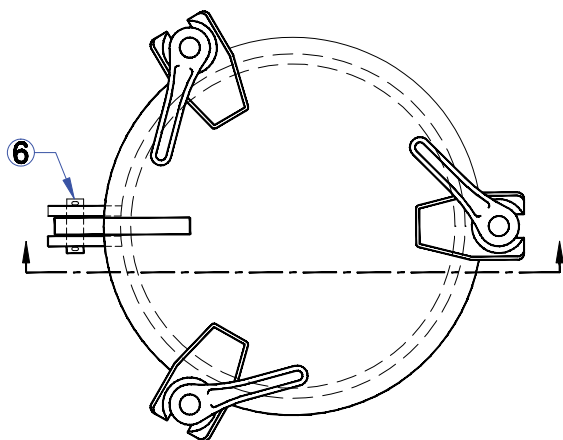


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3 DOG RAISED WATERTIGHT HATCH



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

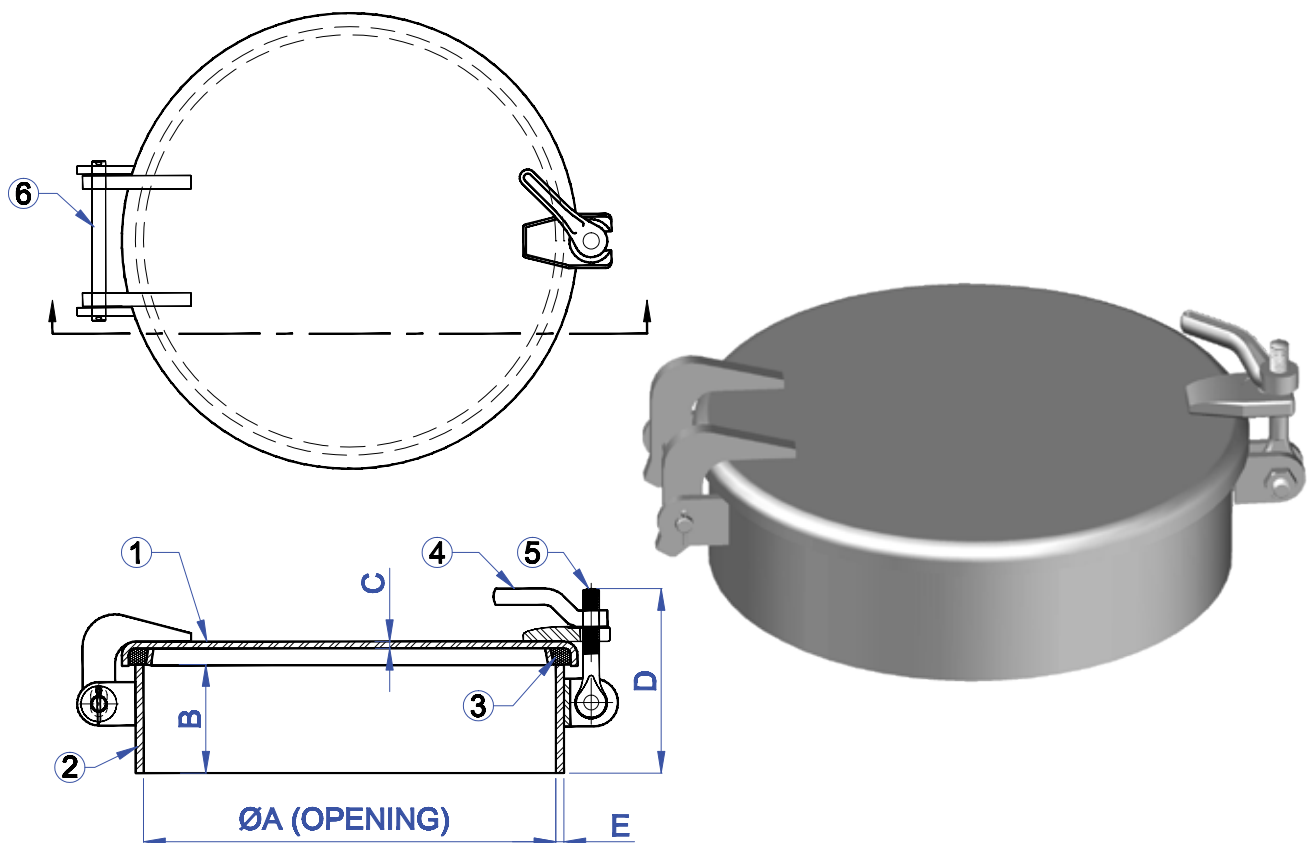
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SINGLE DOG RAISED WATERTIGHT HATCH



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

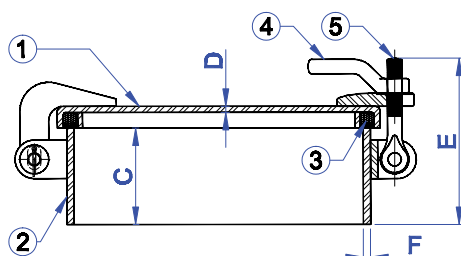
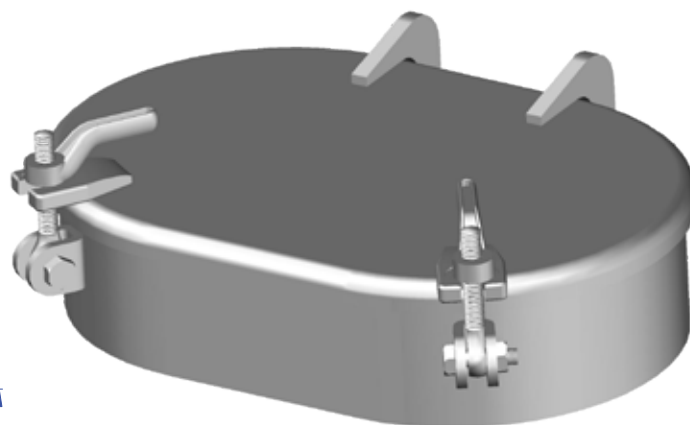
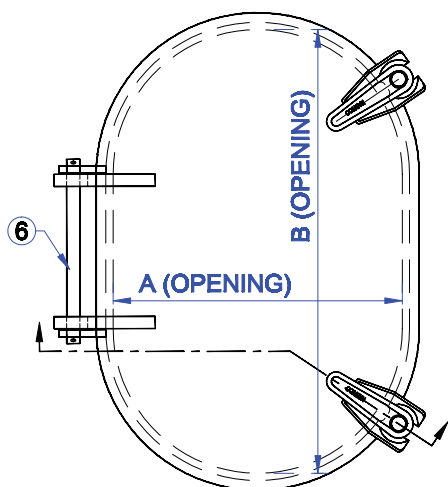


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2 DOG RAISED WATERTIGHT HATCH



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

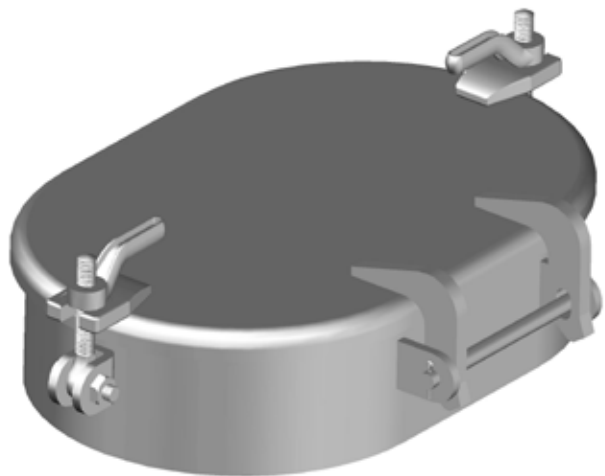
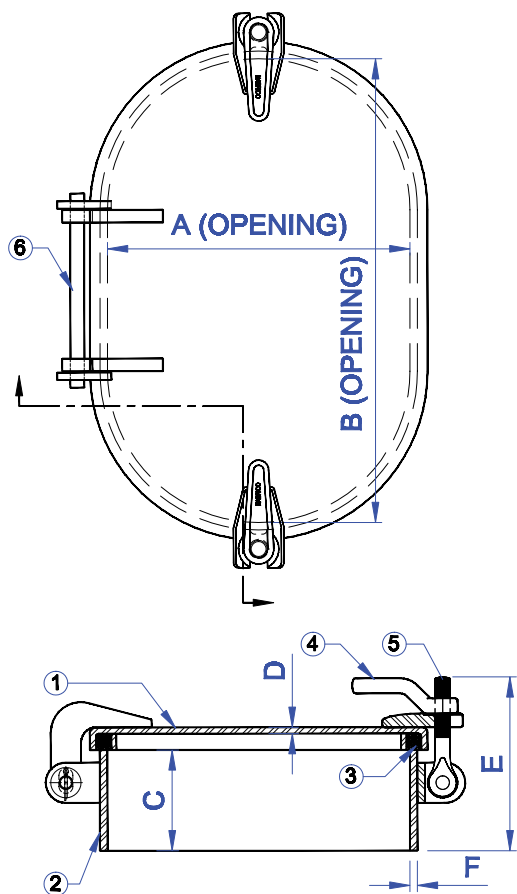
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2 DOG RAISED WATERTIGHT HATCH



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

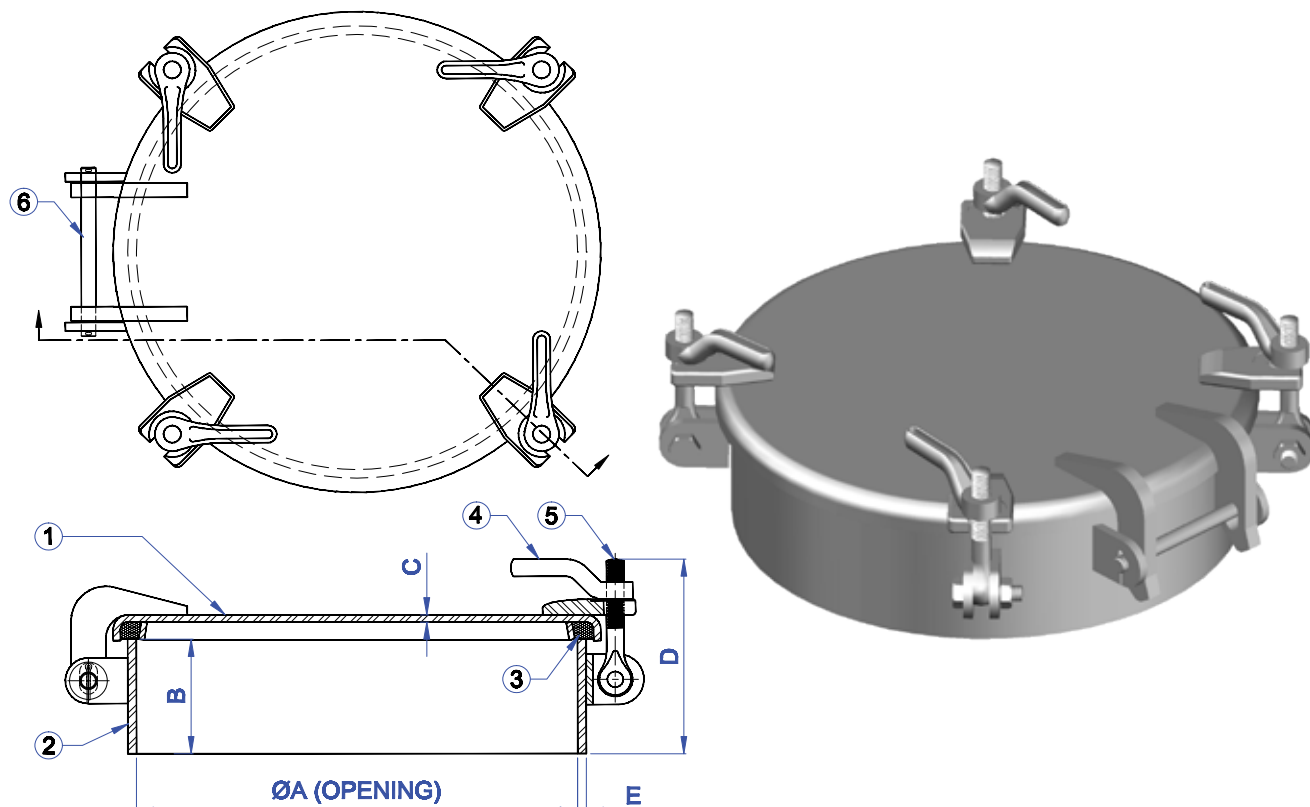


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4 DOG RAISED WATERTIGHT HATCH



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

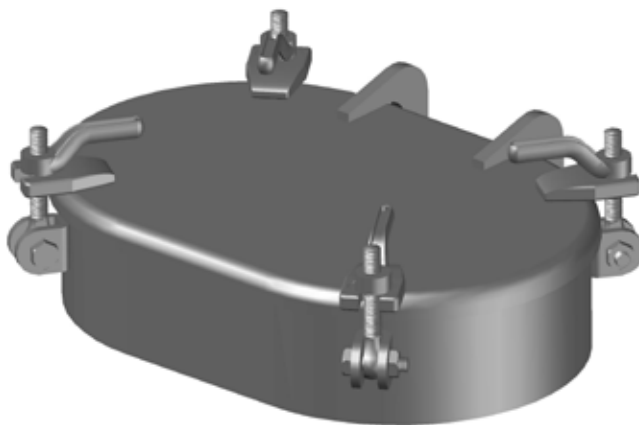
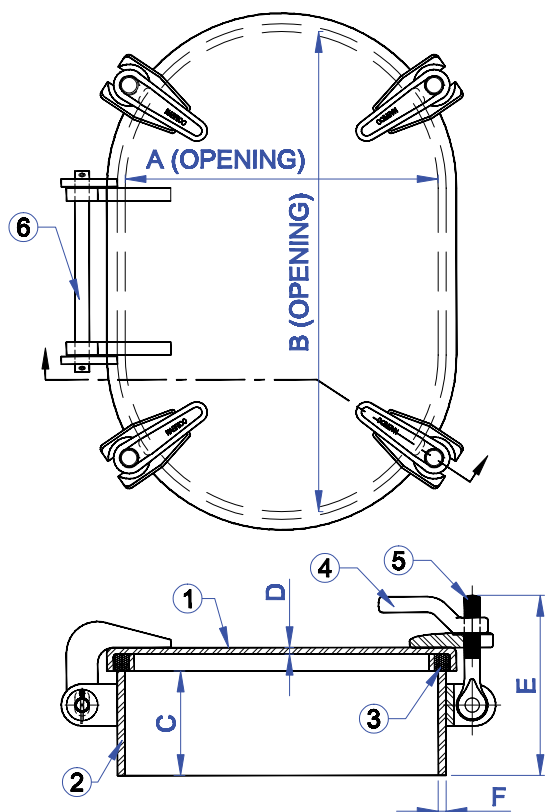
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4 DOG RAISED WATERTIGHT HATCH



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

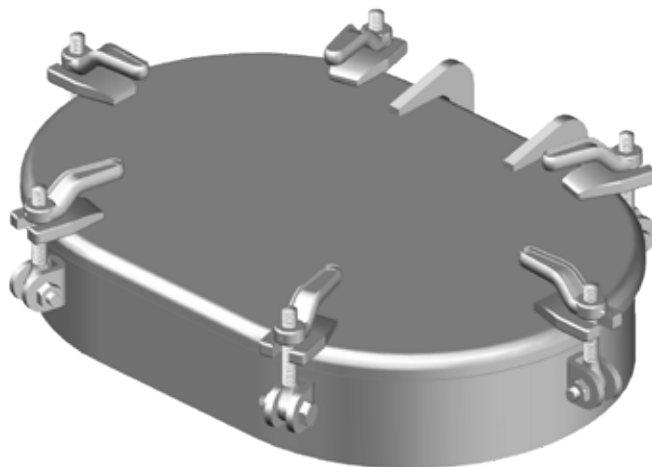
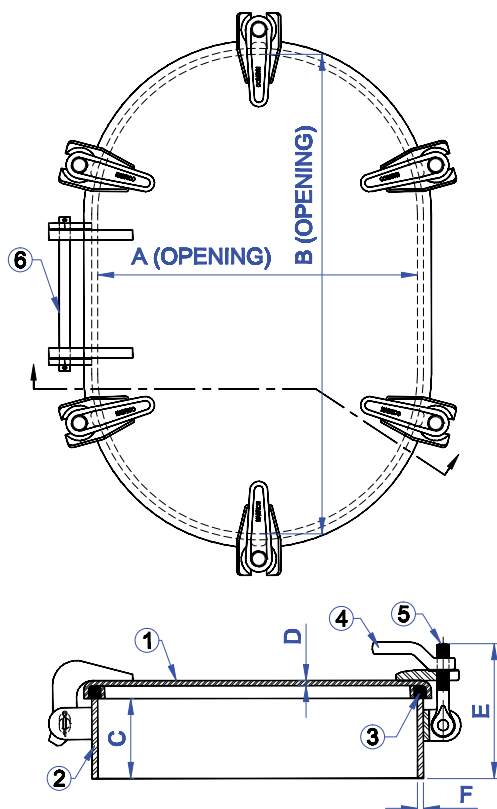


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6 DOG RAISED WATERTIGHT HATCH



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

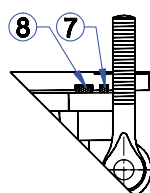
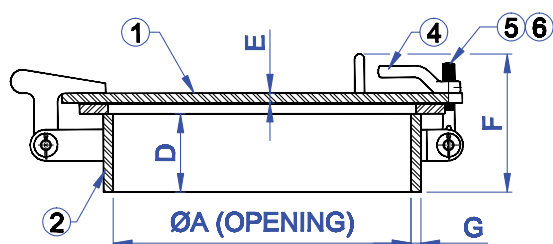
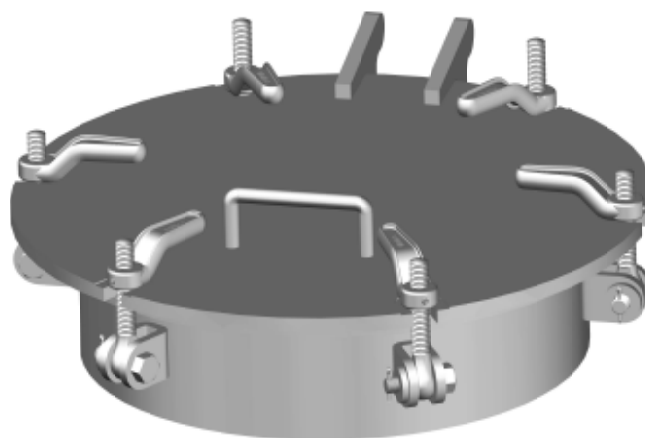
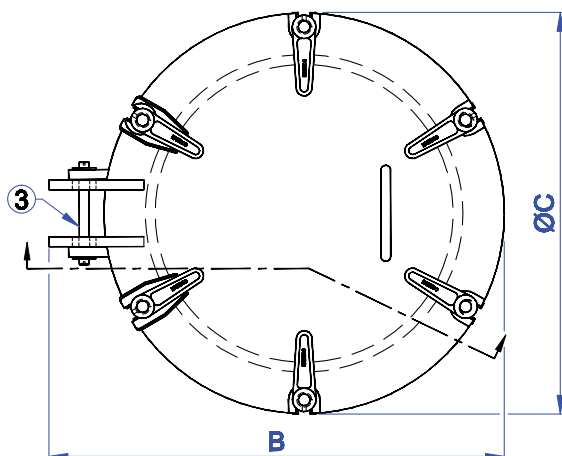
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6 DOG RAISED (6 PSI) ROUND HATCH



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

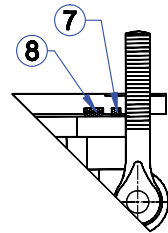
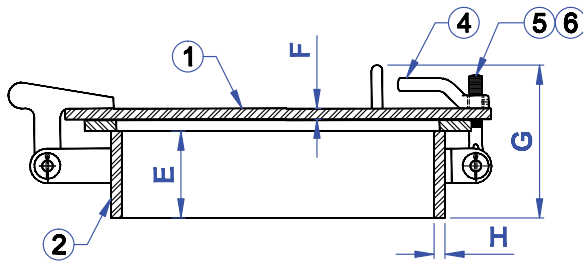
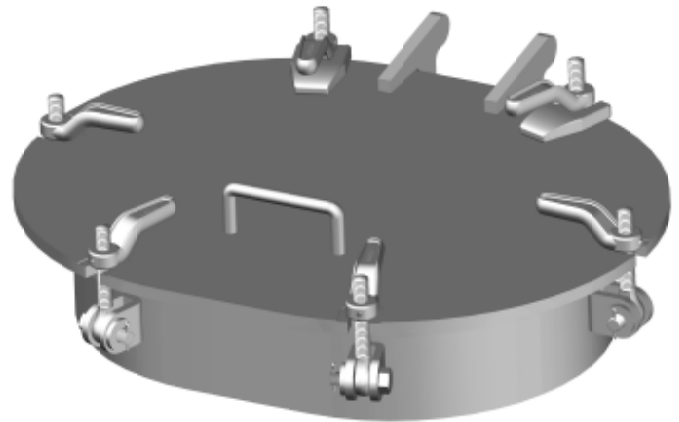
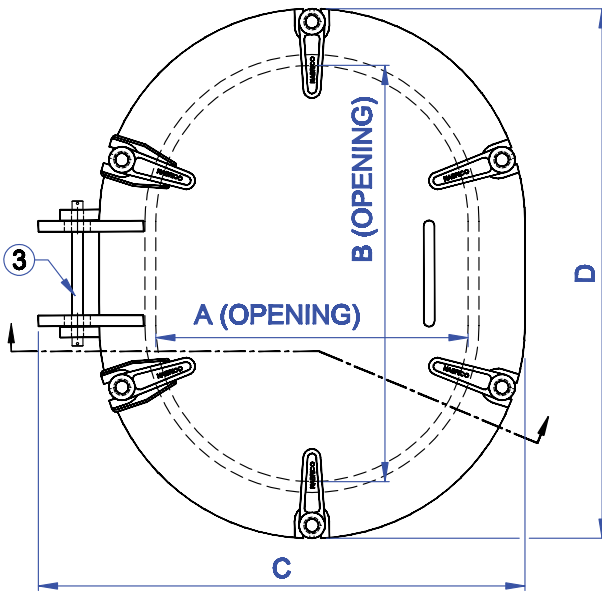


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6 DOG RAISED (6 PSI) OVAL HATCH



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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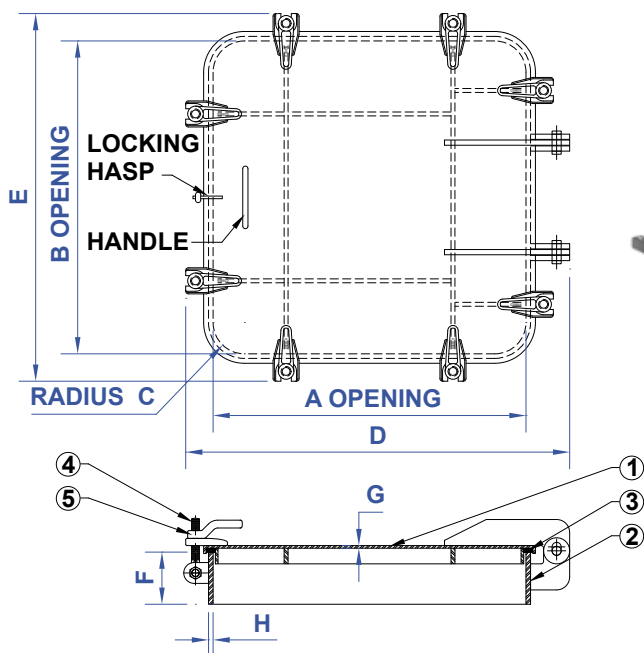
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8 DOG RAISED WATERTIGHT HATCH



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



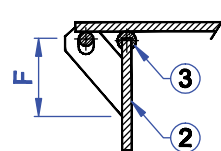
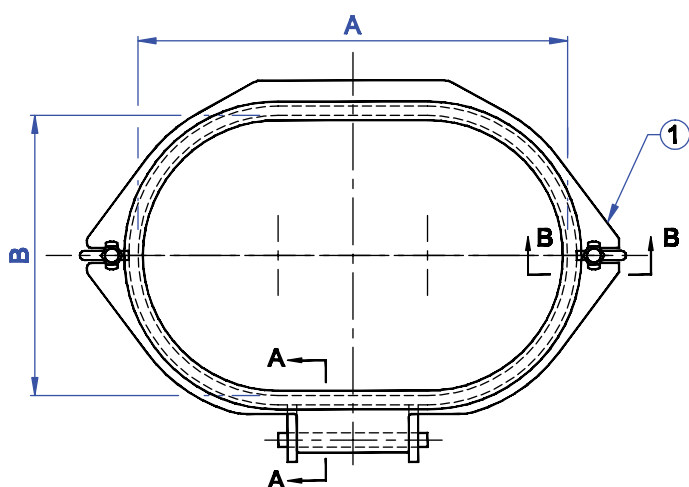
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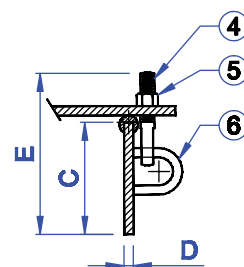
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TWO BOLT MANHOLE

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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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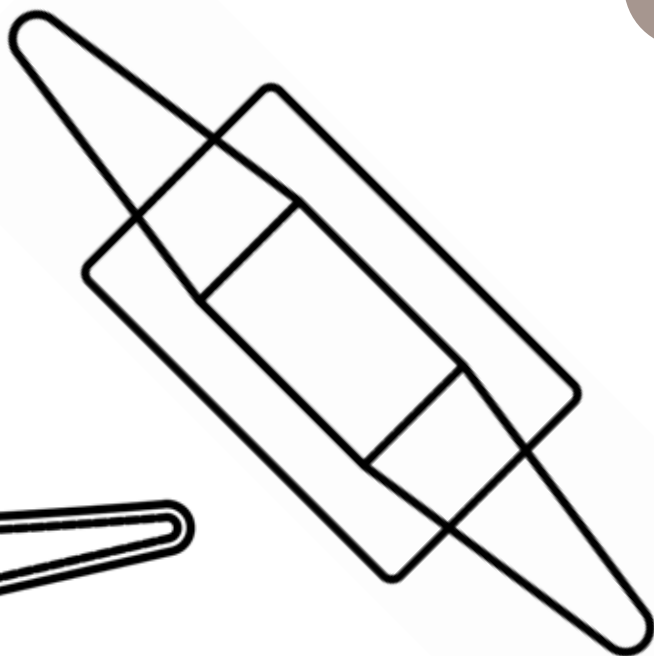
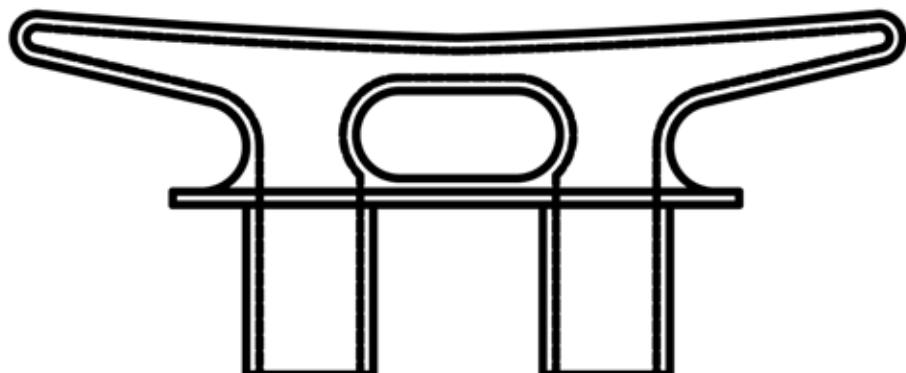
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KEVELS

NABRICO offers a wide range of cast steel kevel chocks needed for proper and efficient marine duties. All castings are produced using A27 cast steel and are normally supplied raw from the foundry. While castings are usually preferred in this state, NABRICO has the capability to blast and paint with a zinc primer or provide most castings in Stainless Steel. Kevels are available in a variety of styles and sizes that include: steel kevel chocks in 24", 36", 42" and 48", cast steel in 18", 36", 42" and 48", cast steel heavy in 30" and 48", cast steel raised in 48" and cast steel thru deck in 42" and 48". Whatever the job, NABRICO has a kevel that meets your needs.

KEVELS

CAST STEEL.....	150
CAST STEEL HEAVY.....	151
CAST STEEL KEVEL CHOCK.....	152
CAST STEEL THRU DECK.....	153
CAST STEEL RAISED.....	154
CAST STEEL RSD THRU DECK.....	155



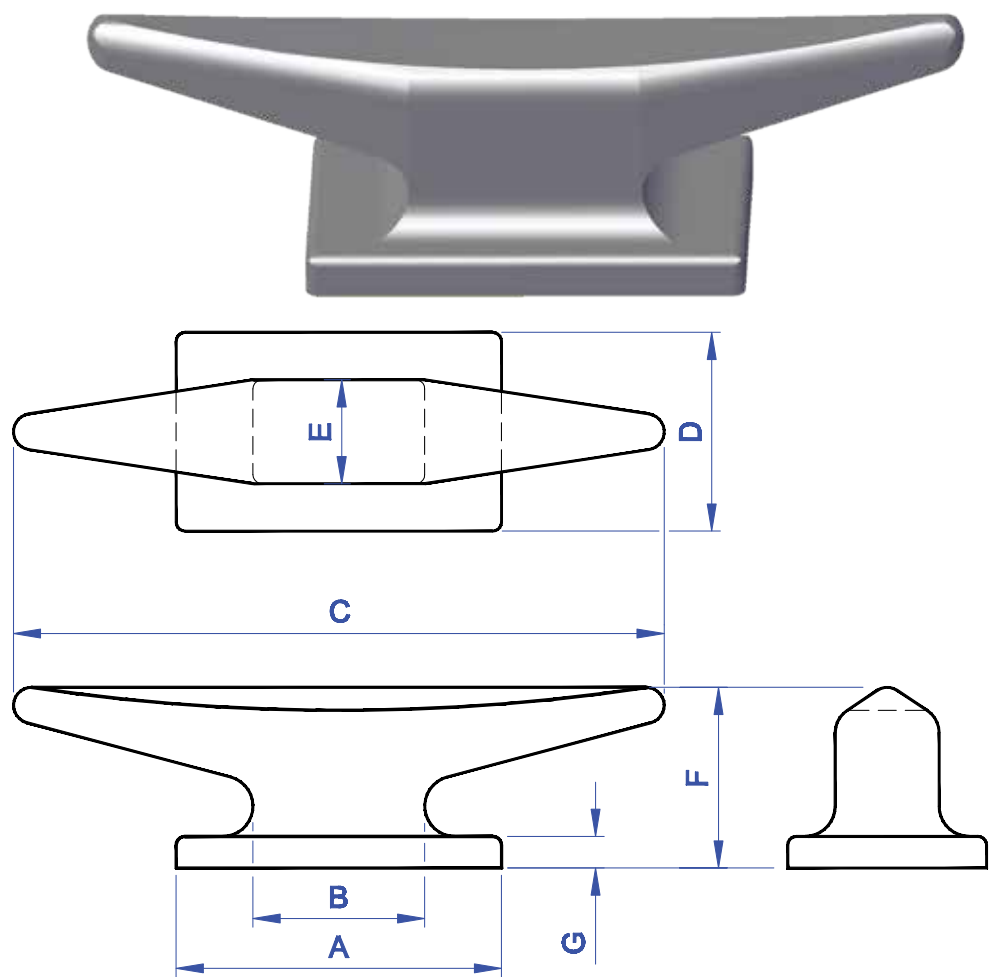
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CAST STEEL KEVEL



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	WT. (lbs.)
DF-518	87920	18"	9"	4-3/4"	18"	5-1/2"	2-7/8"	5"	7/8"	34

“In practice, socialism didn’t work. But socialism could never have worked because it is based on false premises about human psychology and society, and gross ignorance of human economy. In the vast library of socialist theory (and in all of Marx’s compendious works), there is hardly a chapter devoted to the creation of wealth to what will cause human beings to work and to innovate, or to what will make their efforts efficient. Socialism is a plan of morally sanctioned theft. It is about dividing up what others have created. Consequently, socialist economies don’t work; they create poverty instead of wealth. This is unarguable historical fact now...”

—David Horowitz



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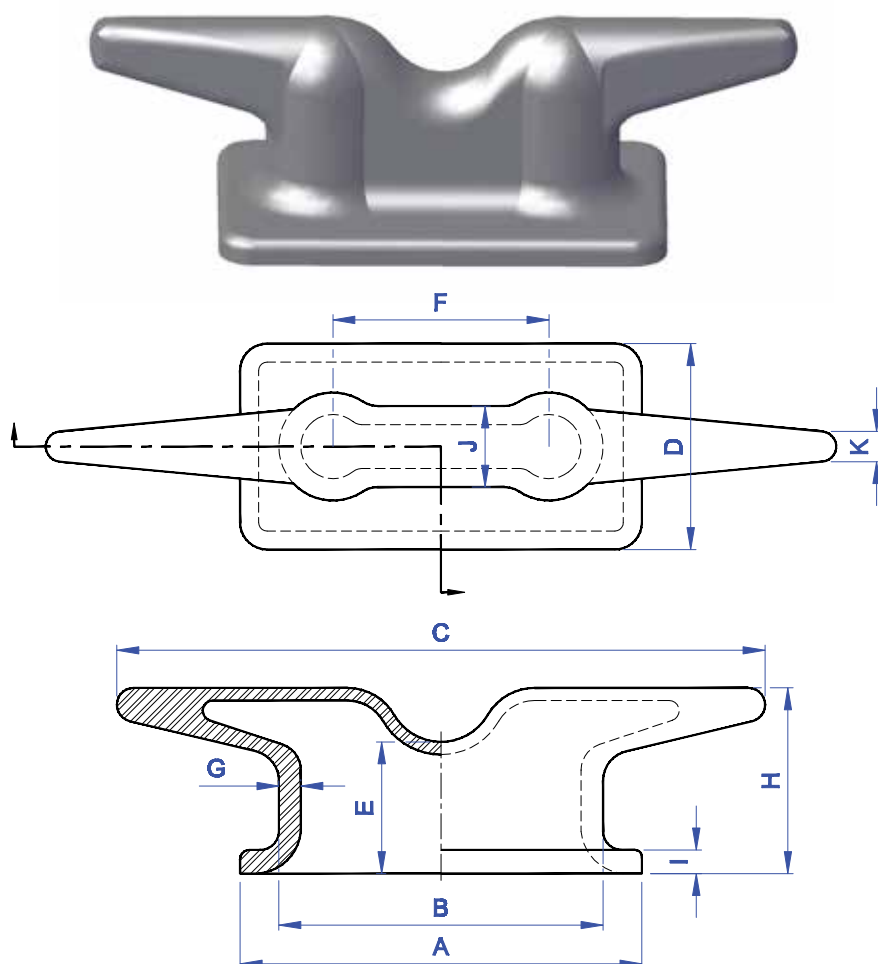
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CAST STEEL HEAVY KEVEL

BR

KEVELS



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	J	ØK	WT. (lbs.)
DF-488	89338	30"	19"	15"	30"	11-1/4"	6-3/8"	10"	1-1/4"	8-7/8"	1-3/8"	3-3/4"	1-3/4"	180
DFSK-HC48	89340	48"	29-3/4"	24"	48"	15-1/4"	9-3/4"	16"	1-5/8"	13-3/4"	1-3/4"	6"	2-1/4"	440

"This isn't new. Those who favor socialism always make the moral case for it. The truth is, maybe they actually believe in it, but in the real world, socialism harms, it weakens the economies of countries that have tried it. It just does. Weaker economies hurt everybody in them. Socialism kills incentive, opportunity, freedom. It is the opposite of what America is all about. Look, socialism always harms the people it claims to help the most. It handicaps them, leaving them weaker, less self-determined, less free."

—Bobby Jindal

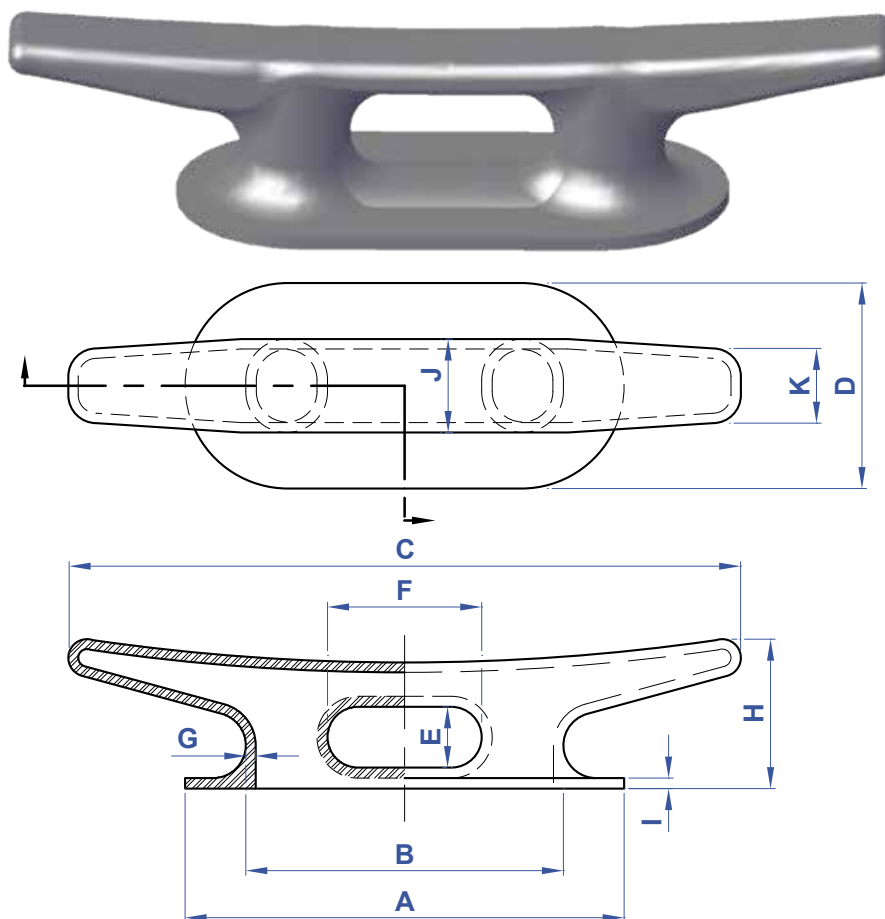
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CAST STEEL KEVEL CHOCK



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	J	K	WT. (lbs.)
DF-30	18562	24"	10-1/2"	9"	24"	7-1/2"	2-1/4"	3-1/4"	1/2"	5-5/8"	1/2"	4"	3"	50
DF-482	20265	36"	23-1/2"	17"	36"	11"	3-1/4"	8-1/4"	9/16"	8"	9/16"	5"	4"	104
DF-483	20273	42"	26-3/4"	20"	42"	12-1/2"	4-1/8"	9-5/8"	5/8"	9"	5/8"	6"	4-3/4"	160
DF-484	20257	48"	30"	23"	48"	14"	5"	11"	3/4"	10"	3/4"	7"	5-1/2"	220

"Some taxpayers close their eyes, some stop their ears, some shut their mouths, but all pay through the nose."

—Evan Esar

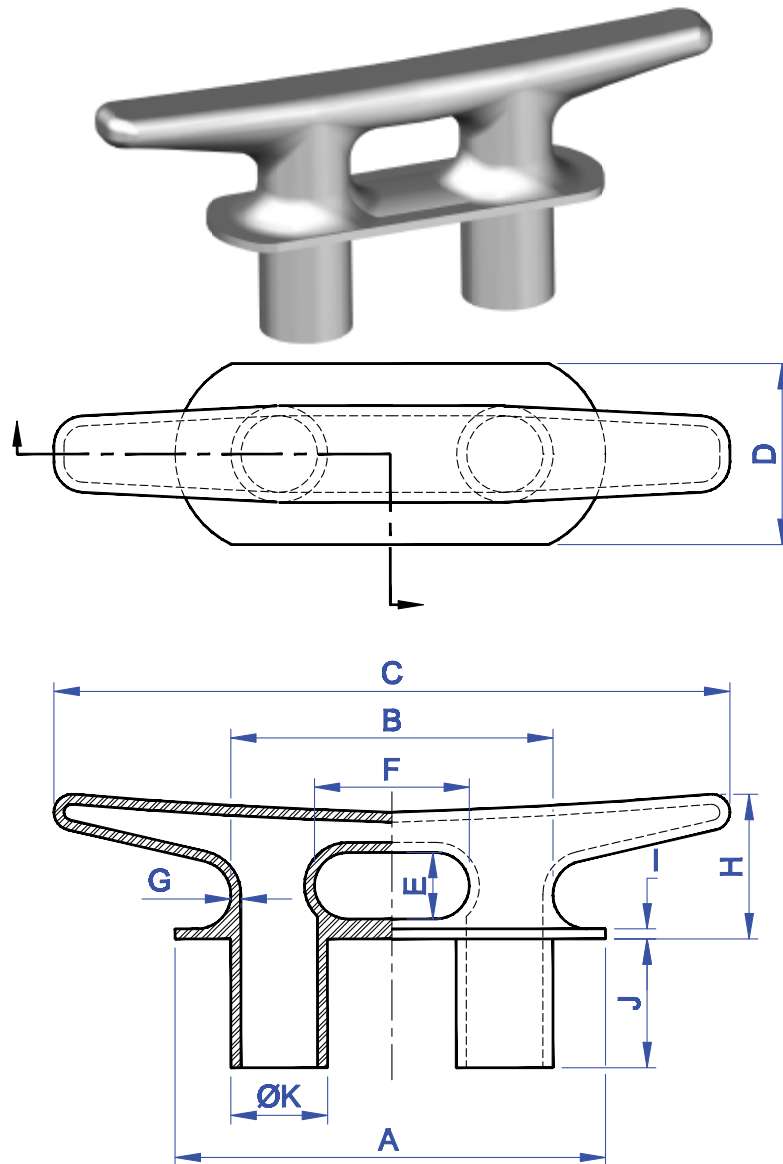


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CAST STEEL THRU DECK KEVEL CHOCK



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	J	ØK	WT. (lbs.)
DF-535	21849	42"	26-3/4"	20"	42"	12-1/2"	4-1/8"	9-5/8"	5/8"	9"	5/8"	8"	6"	200

"A claim for equality of material position can be met only by a government with totalitarian powers."

—F.A. Hayek

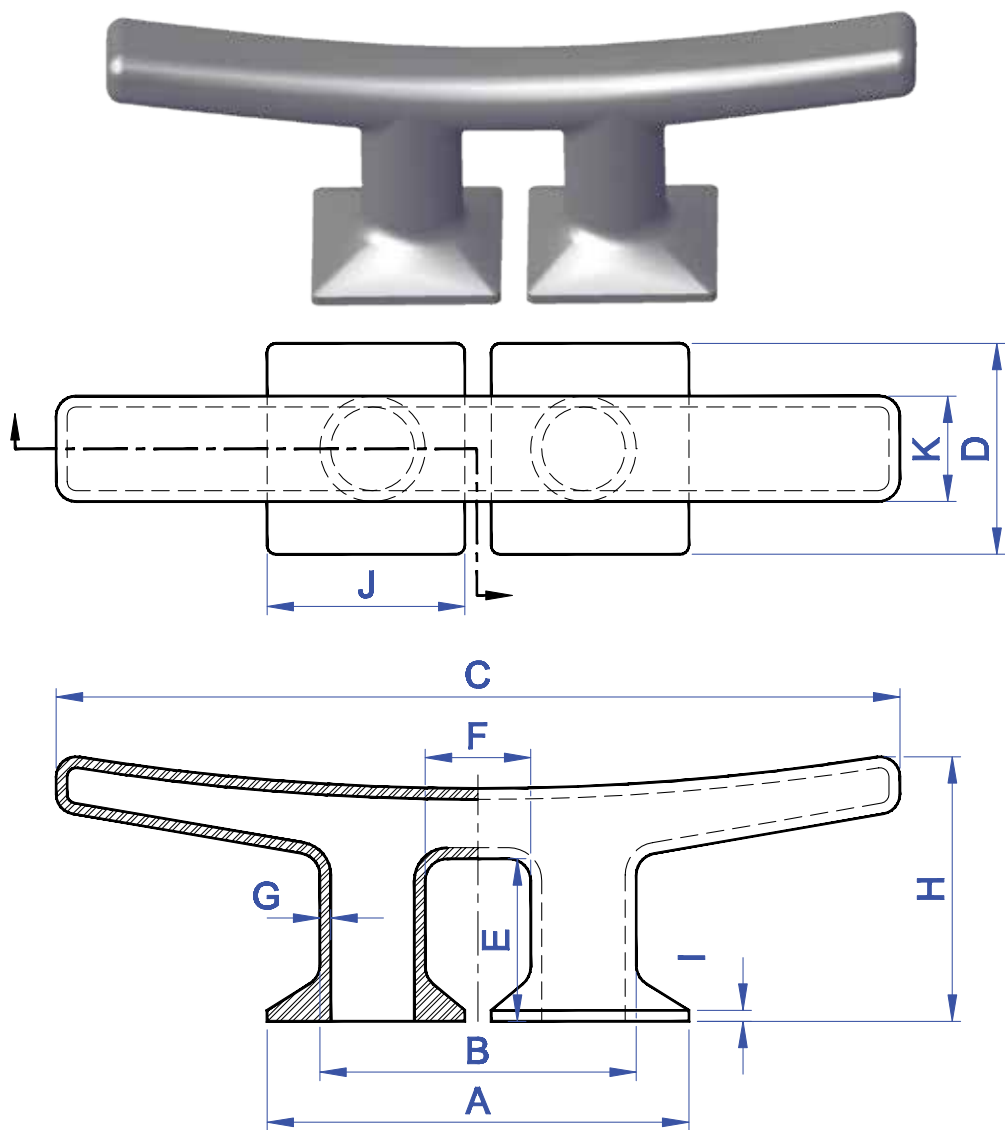
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CAST STEEL RAISED KEVEL



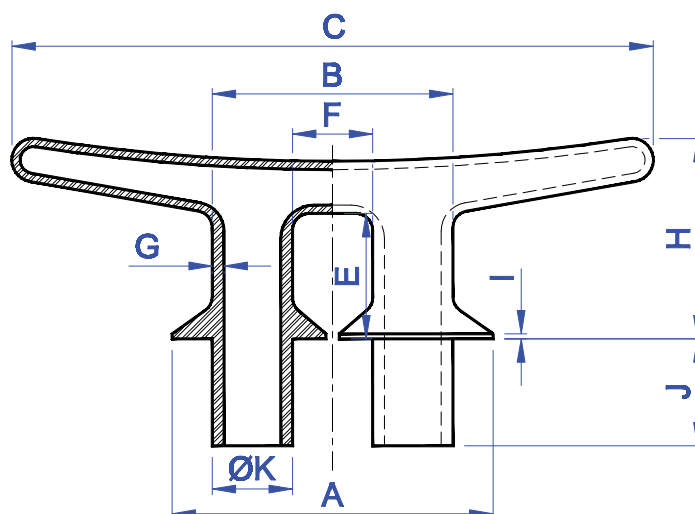
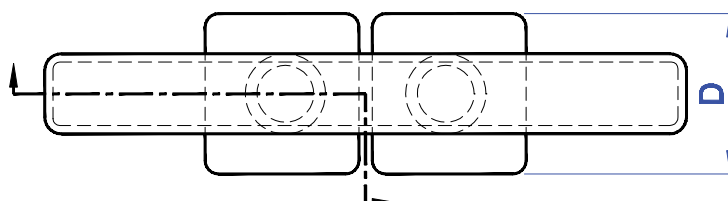
MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	J	K	WT. (lbs.)
DF-544	90026	48"	24"	18"	48"	12"	9-1/4"	6"	5/8"	15-1/4"	5/8"	11-1/4"	6"	200

“The legal right of a taxpayer to decrease the amount of what otherwise would be his taxes, or altogether to avoid them, by means which the law permits, cannot be doubted.”

—George Sutherland



CAST STEEL THRU DECK RAISED KEVEL



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	J	ØK	WT. (lbs.)
DFSK- 48TDKC	90027	48"	24"	18"	48"	12"	9"	6"	7/8"	15"	3/8"	8"	6"	300

"We have no government armed with power capable of contending with human passions unbridled by morality and religion... Our Constitution was made only for a moral and religious people. It is wholly inadequate to the government of any other."

—John Adams

NOTES



“Taxation with representation ain’t so hot either.”

—Gerald Barzan

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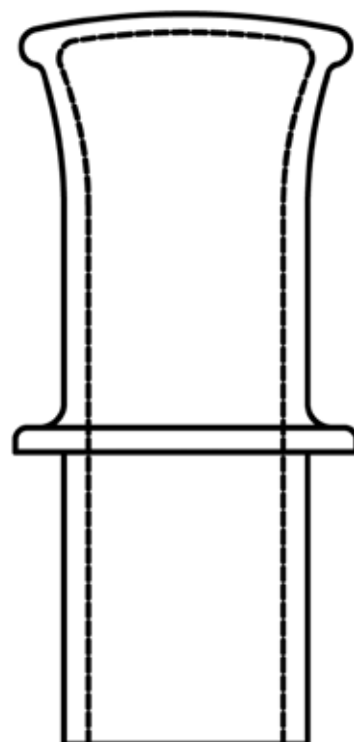
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BITTS

NABRICO offers a wide range of cast steel bitts needed for proper and efficient marine duties. All castings are produced using A27 cast steel and are normally supplied raw from the foundry. While castings are usually preferred in this state, NABRICO has the capability to blast and paint with a zinc primer or provide most castings in Stainless Steel. Bitts are available in a variety of styles and sizes that include: single bitt, single thru deck, single thru deck with horn, fabricated single, fabricated cruciform and double bitts with or without horns. Whatever the job, NABRICO has a bitt that meets your needs.

BITTS

SINGLE	158
SINGLE THRU DECK	160
SINGLE THRU DECK W/ HORN	161
FABRICATED SINGLE	162
FABRICATED CRUCIFORM	163
DOUBLE	164



BITTS

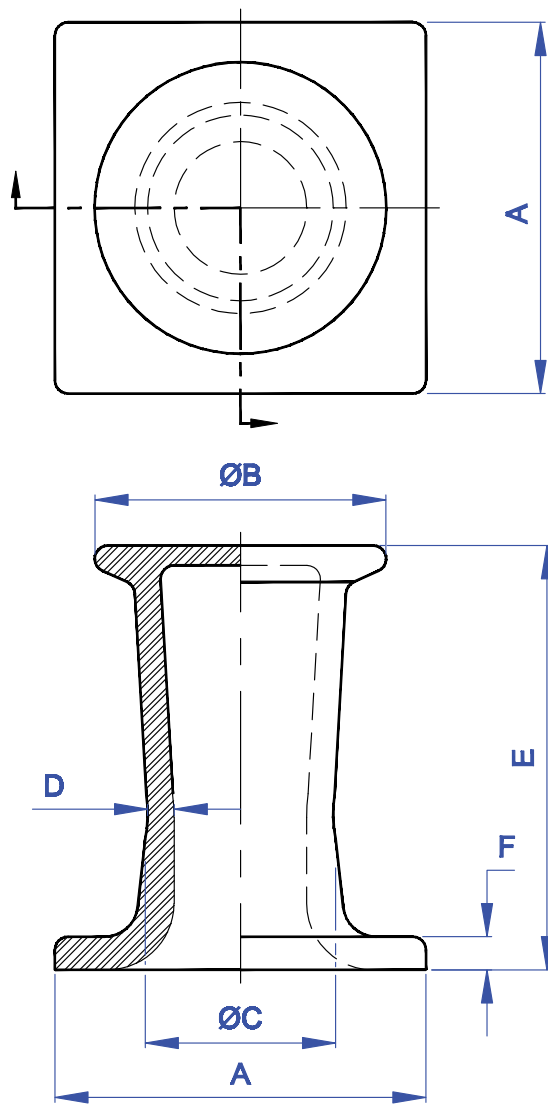
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CAST STEEL SINGLE BITT



MODEL No.	PART No.	SIZE	A	ØB	ØC	D	E	F	WT. (lbs.)
DF-SB8	87971	8"	14"	11"	7"	1"	16"	1-1/4"	160

"The Bible is the best of all books, for it is the word of God and teaches us the way to be happy in this world and in the next. Continue therefore to read it and to regulate your life by its precepts."

—John Jay*

*Founding Father of the United States, first Chief Justice of the Supreme Court, and second Governor of New York.



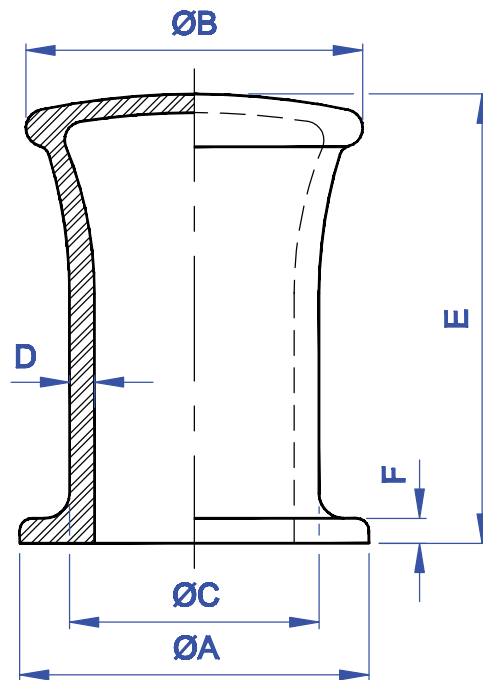
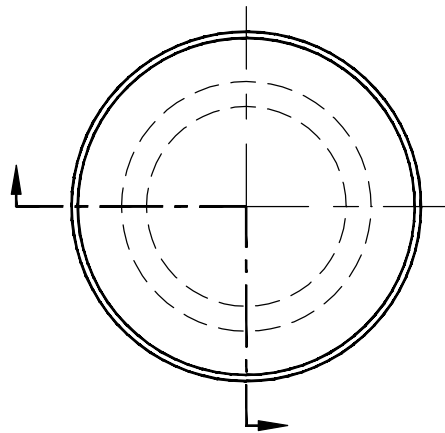
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CAST STEEL SINGLE BITT

BR



BITTS

MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	WT. (lbs.)
DF-SB10	20230	10"	14"	13-1/2"	10"	1"	18"	1"	190

"I'm also a conscious capitalist—I believe economic freedom and entrepreneurship are the best ways to end poverty, increase prosperity, and evolve humanity upward. I believe that all forms of socialism have been proven over time to result in a loss of both economic and civil liberties, with increasing poverty."

—John Mackey

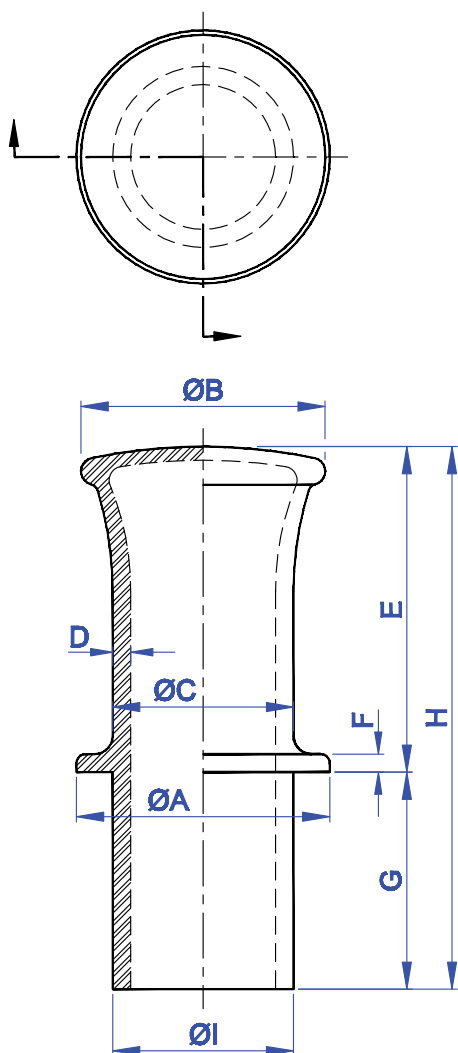
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CAST STEEL THRU DECK SINGLE BITT



MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	H	ØI	WT. (lbs.)
DF-530	21555	8"	14"	12"	8"	1"	16"	1"	11"	27"	10-1/4"	260
DF-530	20231	10"	14"	13-1/2"	10"	1"	18"	1"	12"	30"	10"	300

"Liberty cannot be preserved without a general knowledge among the people, who have a right...and a desire to know; but besides this, they have a right, an indisputable, unalienable, indefeasible, divine right to that most dreaded and envied kind of knowledge, I mean of the characters and conduct of their rulers."

—John Adams



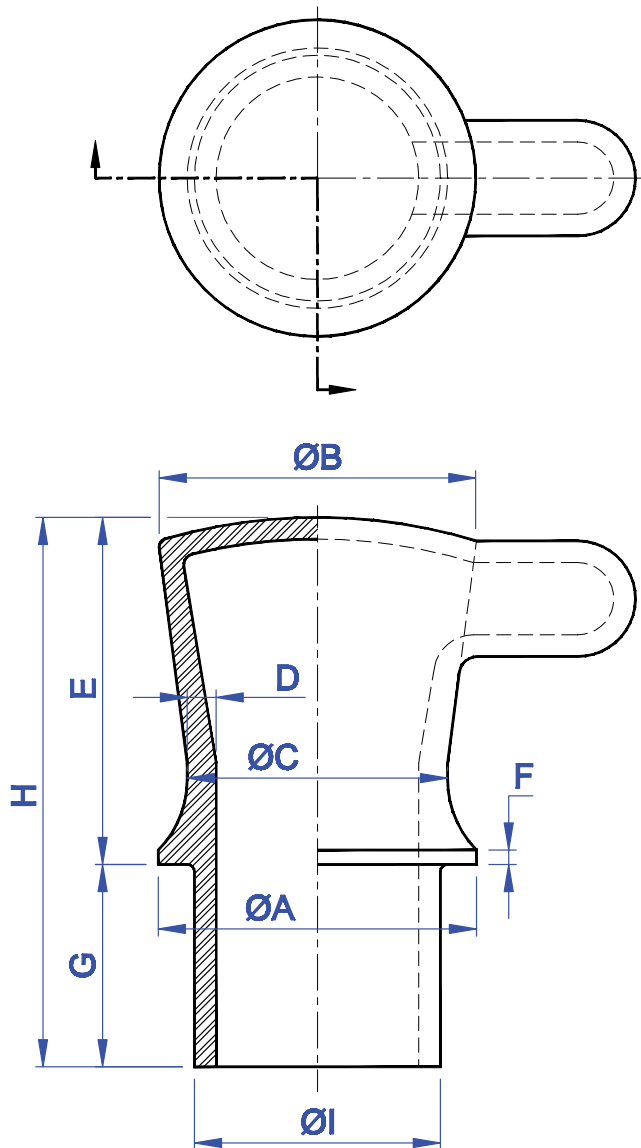
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CAST STEEL THRU DECK SINGLE BITT

BITTS



MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	H	ØI	WT. (lbs.)
DF-532	21660	9"	11"	11"	9"	3/4"	12"	1/2"	7"	19"	8-1/2"	155

"I have lived by one crucial principle since I was 24 years old. I don't blame or complain about things like the economy, the government, taxes, employees, gas prices, or any of the external things that I don't have control over. The only thing I have control over is my response to these things."

—Jack Canfield

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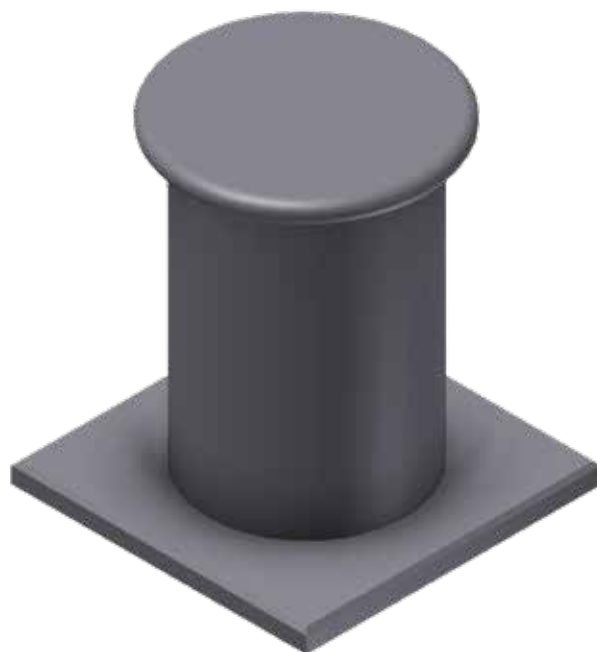
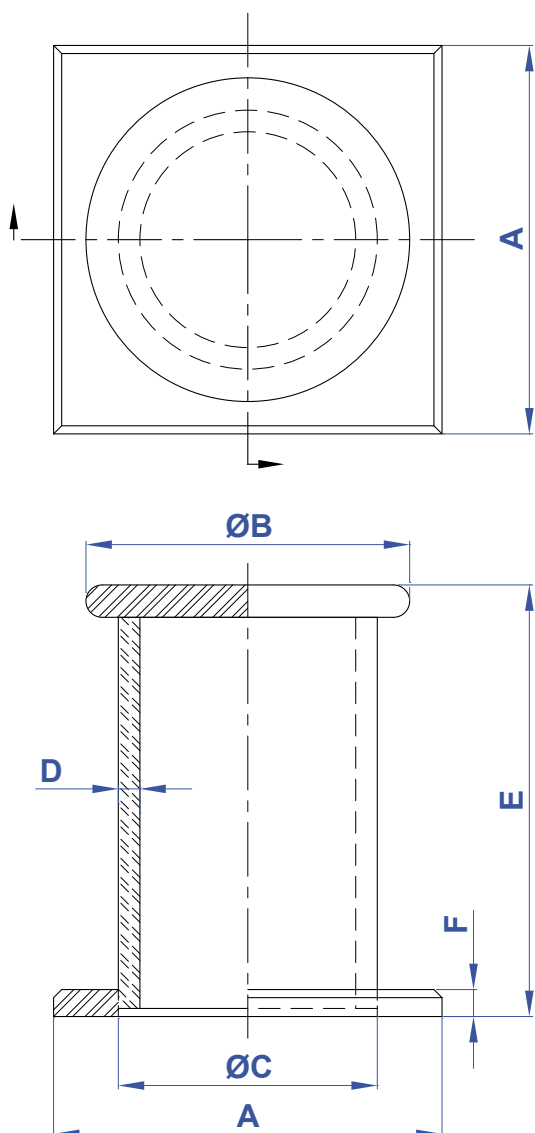
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FABRICATED STEEL SINGLE BITT

BITTS



MODEL No.	PART No.	SIZE	A	ØB	ØC	D	E	F	WT. (lbs.)
DF-55	13820	12"	18"	15"	12"	1"	20"	1-1/4"	330

"Capitalism is the most cooperative system ever created for the peaceful improvement of peoples' lives. It has only a single fatal flaw: It doesn't feel like it. The market system is so good at getting people—from all over the world—to work together that we barely notice how much we're cooperating."

—Jonah Goldberg



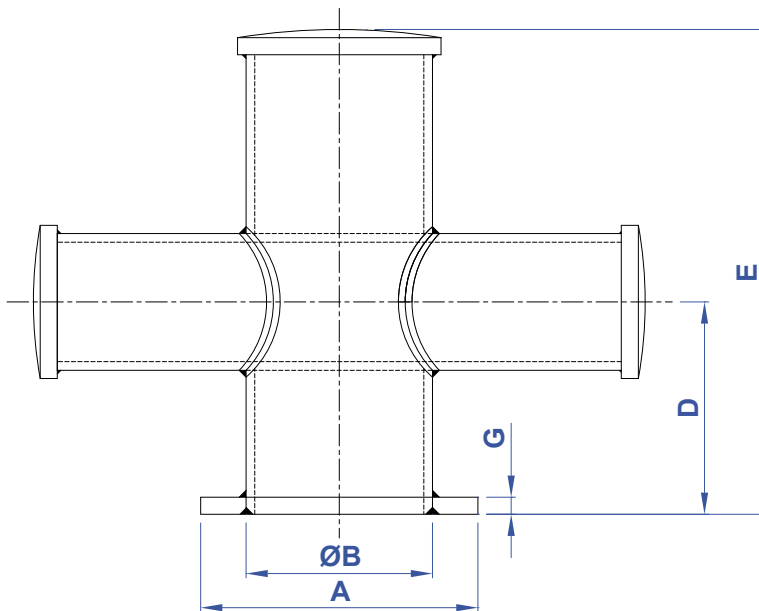
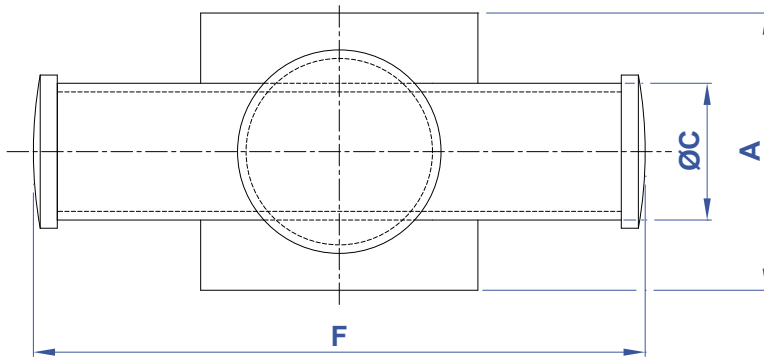
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FABRICATED STEEL CRUCIFORM BITT

BITTS



MODEL No.	PART No.	SIZE	A	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-65	21552	10"	16"	10-3/4"	7-7/8"	12-1/4"	28"	35-1/4"	1"	465

"It is the common error of Socialists to overlook the natural indolence of mankind; their tendency to be passive, to be the slaves of habit, to persist indefinitely in a course once chosen. Let them once attain any state of existence which they consider tolerable, and the danger to be apprehended is that they will thenceforth stagnate; will not exert themselves to improve, and by letting their faculties rust, will lose even the energy required to preserve them from deterioration. Competition may not be the best conceivable stimulus, but it is at present a necessary one, and no one can foresee the time when it will not be indispensable to progress."

—John Stuart Mill

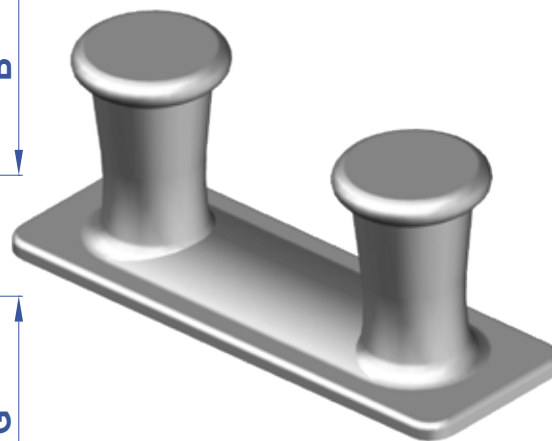
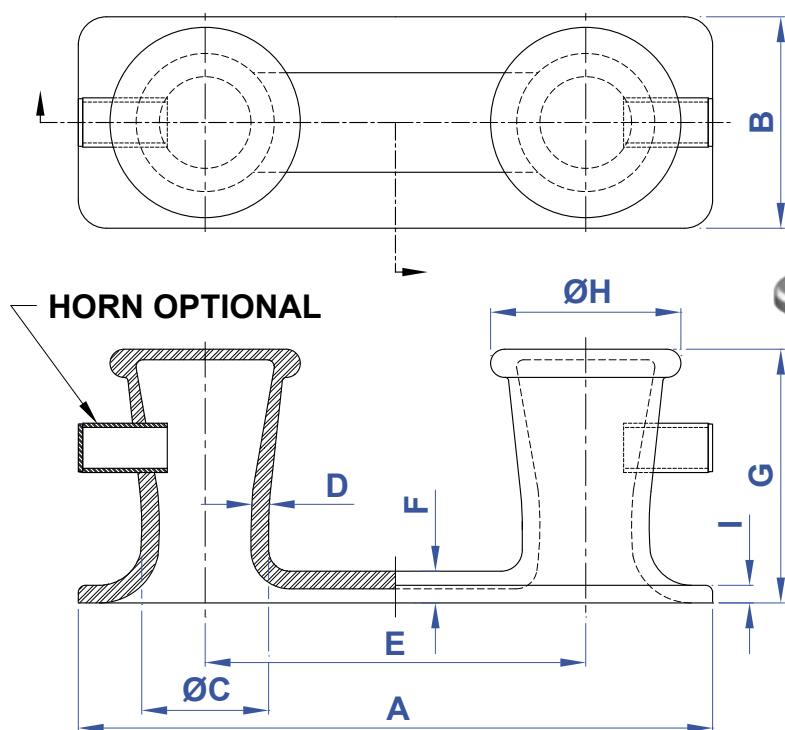
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CAST STEEL DOUBLE BITT



MODEL No.	PART No.	SIZE	A	B	ØC	D	E	F	G	ØH	I	WT. (lbs.)
DF- 2	7005	8"	40"	14"	7"	1"	24"	2"	16"	11"	1-1/4"	375
DF- 2A	20281	8" W/ Horns	40"	14"	7"	1"	24"	2"	16"	11"	1-1/4"	385
DF- 40	6858	10"	45"	15"	9"	1-1/4"	27"	2-1/4"	18"	13-1/2"	1-1/4"	545
DF- 40A	77054	10" W/ Horns	45"	15"	9"	1-1/4"	27"	2-1/4"	18"	13-1/2"	1-1/4"	560

1. HORNS NOT SHOWN ON DOUBLE BITT MODEL.

"The right of the citizens to keep and bear arms has justly been considered, as the palladium of the liberties of a republic; since it offers a strong moral check against the usurpation and arbitrary power of rulers; and will generally, even if these are successful in the first instance, enable the people to resist and triumph over them."

—Joseph Story

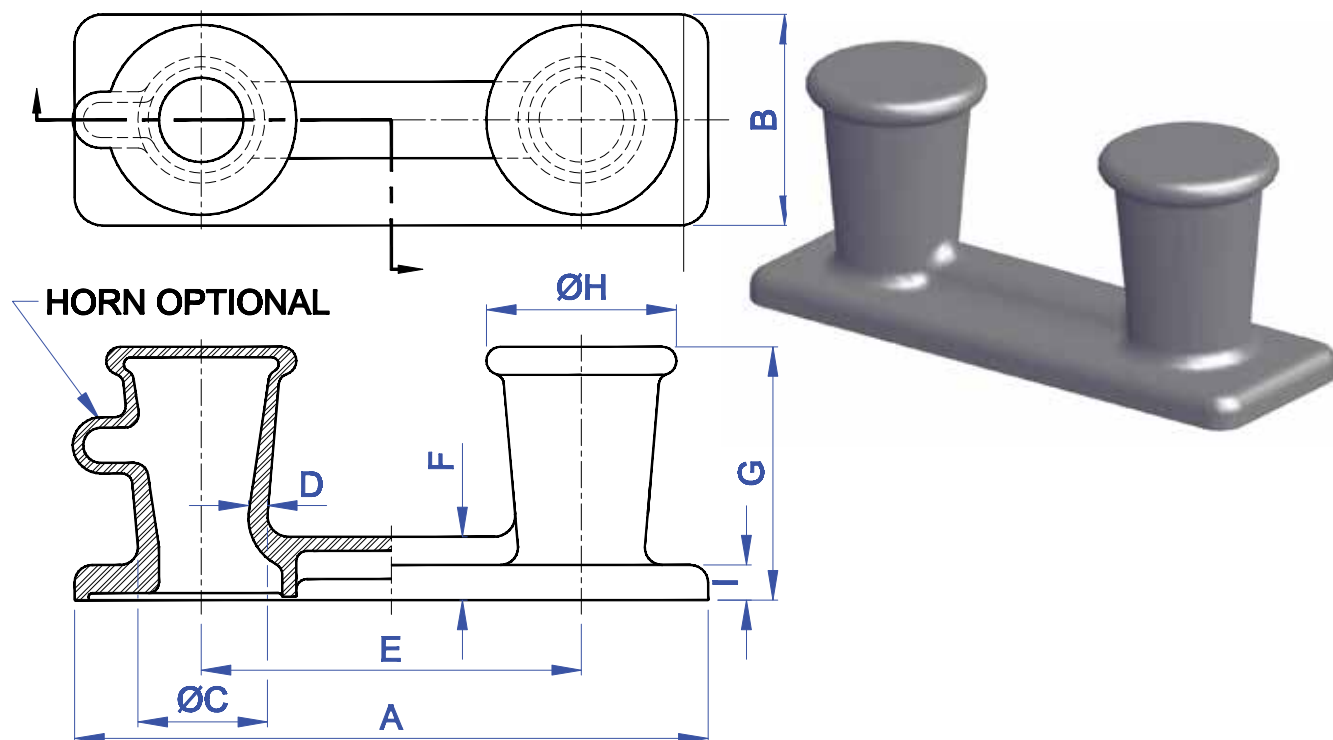


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CAST STEEL HEAVY DOUBLE BITT



MODEL No.	PART No.	SIZE	A	B	ØC	D	E	F	G	ØH	I	WT. (lbs.)
DF-537	89648	10"	45"	15"	9"	1-1/2"	27"	4-1/2"	18"	13-1/2"	2-1/2"	625
DF-537A	90034	10" W/ HORN	45"	15"	9"	1-1/2"	27"	4-1/2"	18"	13-1/2"	2-1/2"	635
DF-537AA	90036	10" W/ HORNS	45"	15"	9"	1-1/2"	27"	4-1/2"	18"	13-1/2"	2-1/2"	645

1. HORNS NOT SHOWN ON DOUBLE BITT MODEL.

"The militia is the natural defence of a free country against sudden foreign invasions, domestic insurrections and domestic usurpations of power by rulers. It is against sound policy for a free people to keep up large military establishments and standing armies in time of peace both from the enormous expenses with which they are attended and the facile means which they afford to ambitious and unprincipled rulers to subvert the government or trample upon the rights of the people. The right of the citizens to keep and bear arms has justly been considered as the palladium of the liberties of a republic since it offers a strong moral check against the usurpation and arbitrary power of rulers and will generally even if these are successful the first instance enable the people to resist and triumph over them."

—Justice Joseph Story

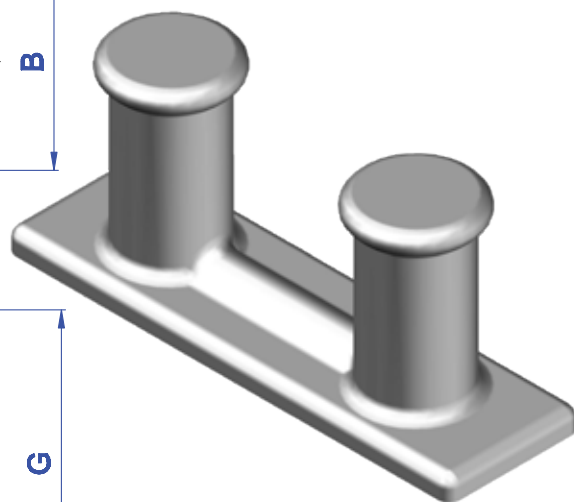
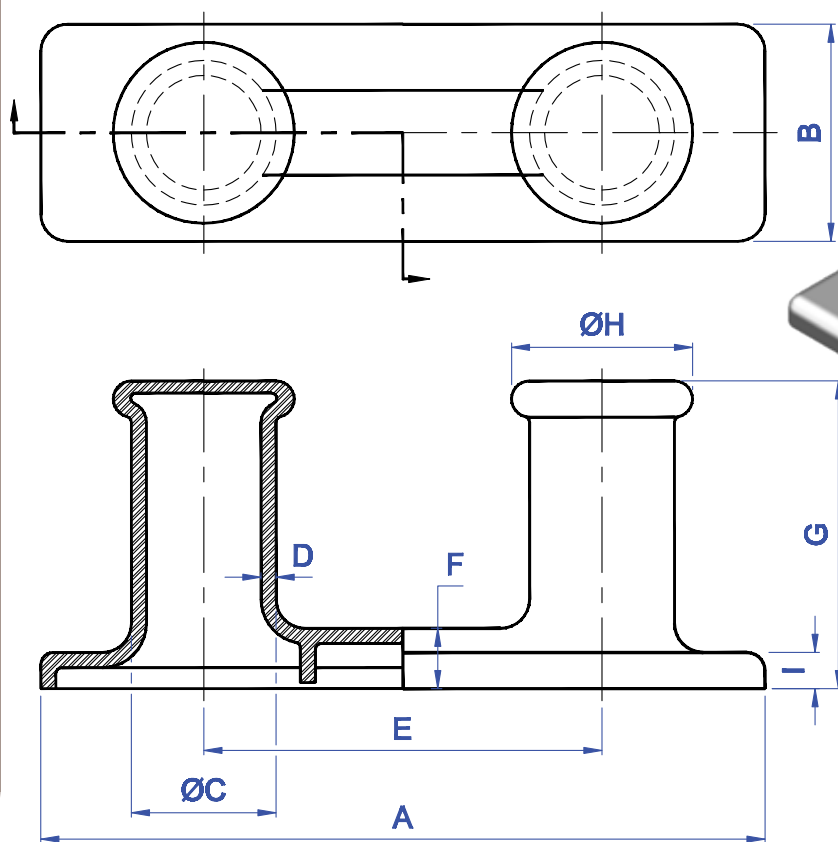
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CAST STEEL HEAVY DOUBLE BITT



MODEL No.	PART No.	SIZE	A	B	ØC	D	E	F	G	ØH	I	WT. (lbs.)
DF-491	89362	12"	60"	18"	12"	1-1/4"	33"	5"	25-1/2"	15"	3"	990
DF-498	21164	14"	66"	21"	14"	1-1/2"	40"	5-1/2"	29-3/4"	17-1/2"	3-1/2"	1780
DF-499	21168	16"	76"	24"	16"	1-3/4"	46"	7-3/16"	34"	20"	4"	2500

"The champions of socialism call themselves progressives, but they recommend a system which is characterized by rigid observance of routine and by a resistance to every kind of improvement. They call themselves liberals, but they are intent upon abolishing liberty. They call themselves democrats, but they yearn for dictatorship. They call themselves revolutionaries, but they want to make the government omnipotent. They promise the blessings of the Garden of Eden, but they plan to transform the world into a gigantic post office. Every man but one a subordinate clerk in a bureau. What an alluring utopia! What a noble cause to fight!"

—Ludwig von Mises



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CHOCKS

NABRICO offers a wide range of cast steel chocks needed for proper and efficient marine duties. All castings are produced using A27 cast steel and are normally supplied raw from the foundry. While castings are normally preferred in this state, NABRICO has the capability to blast and paint with a zinc primer or provide most castings in Stainless Steel. Chocks are available in a variety of styles and sizes that include: button, open or closed, roller and panama canal chocks. Whatever the job, NABRICO has a chock that meets your needs.



CHOCKS

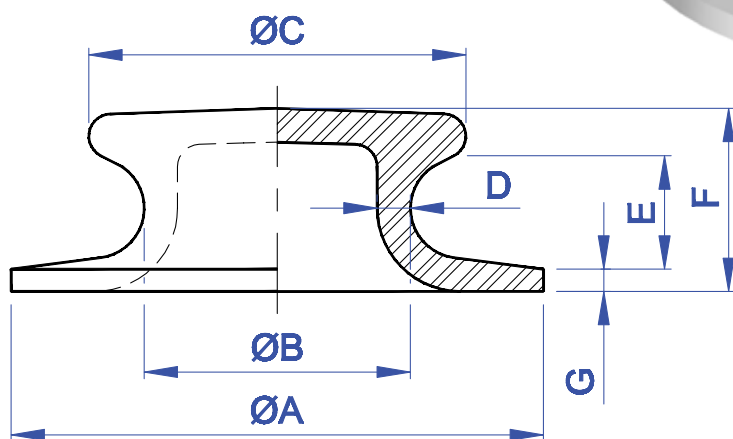
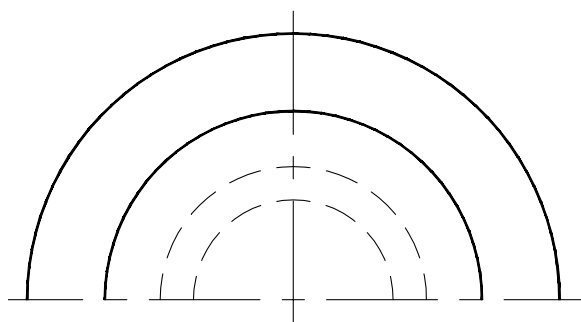
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CAST STEEL 6" BUTTON CHOCK



MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-192	6408	6"	12"	6"	8-1/2"	3/4"	2-9/16"	4-1/8"	1/2"	40

"It is a document in proof that I am a real Christian, that is to say, a disciple of the doctrines of Jesus, very different from the Platonists, who call me infidel, and themselves Christians and preachers of the gospel, while they draw all their characteristic dogmas from what it's Author never said nor saw. They have compounded from the heathen mysteries a system beyond the comprehension of man, of which the great reformer of the vicious ethics and deism of the Jews, were he to return on earth, would not recognise one feature."

—Thomas Jefferson

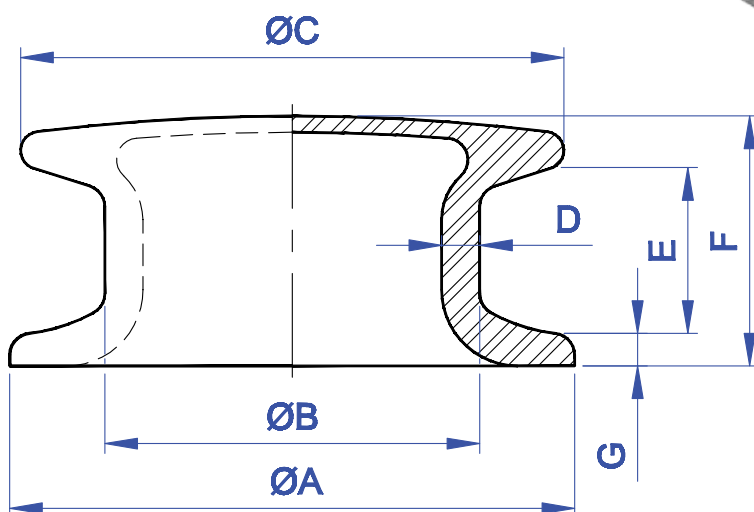
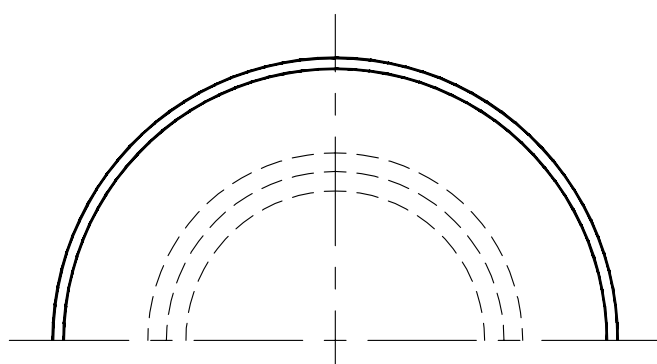


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CAST STEEL 8" BUTTON CHOCK



MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-473C	77461	8"	13"	8-5/8"	12-1/2"	7/8"	3-3/4"	5-3/4"	3/4"	75

"We, the General Assembly of Virginia, do enact that no man shall be compelled to frequent or support any religious worship, place, or ministry whatsoever, nor shall be enforced, restrained, molested, or burthened in his body or goods, or shall otherwise suffer, on account of his religious opinions of belief; but that all men shall be free to profess, and by argument to maintain, their opinions in matters of religion, and that the same shall in no wise diminish, enlarge, or affect their civil capabilities."

—Thomas Jefferson

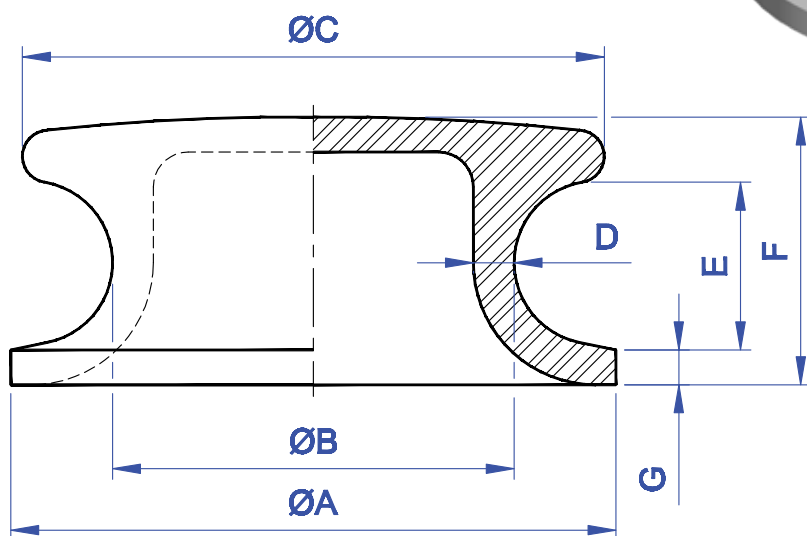
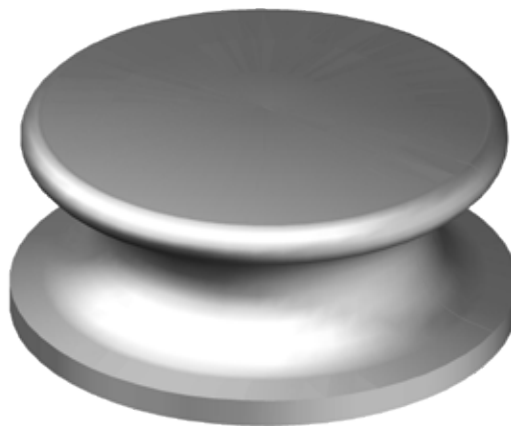
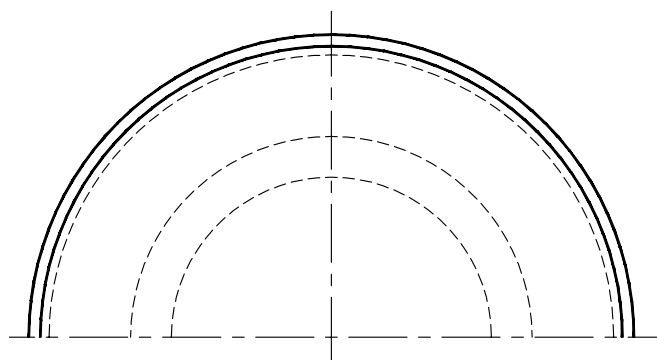
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CAST STEEL 8" BUTTON CHOCK



MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-542	89990	8"	13"	8-5/8"	12-1/2"	7/8"	3-5/8"	5-3/4"	3/4"	75

"A strict observance of the written laws is doubtless one of the high duties of a good citizen, but it is not the highest. The laws of necessity, of self preservation, of saving our country when in danger, are of a higher obligation. ... To lose our country by a scrupulous adherence to written law would be to lose the law itself, with life, liberty, property and all those who are enjoying them with us; thus absurdly sacrificing the ends to the means."

—Thomas Jefferson

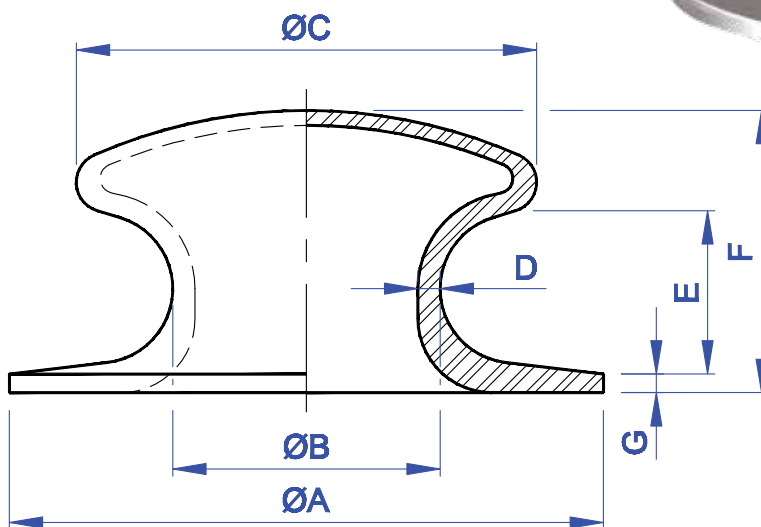
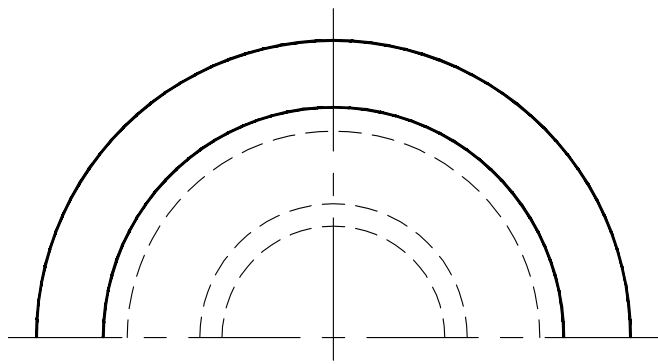


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CAST STEEL 9" BUTTON CHOCK



MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-194	16128	9"	20"	9"	15-1/2"	3/4"	5-1/2"	9-1/2"	5/8"	158

"Rightful liberty is unobstructed action according to our will within limits drawn around us by the equal rights of others. I do not add 'within the limits of the law' because law is often but the tyrant's will, and always so when it violates the rights of the individual."

—Thomas Jefferson

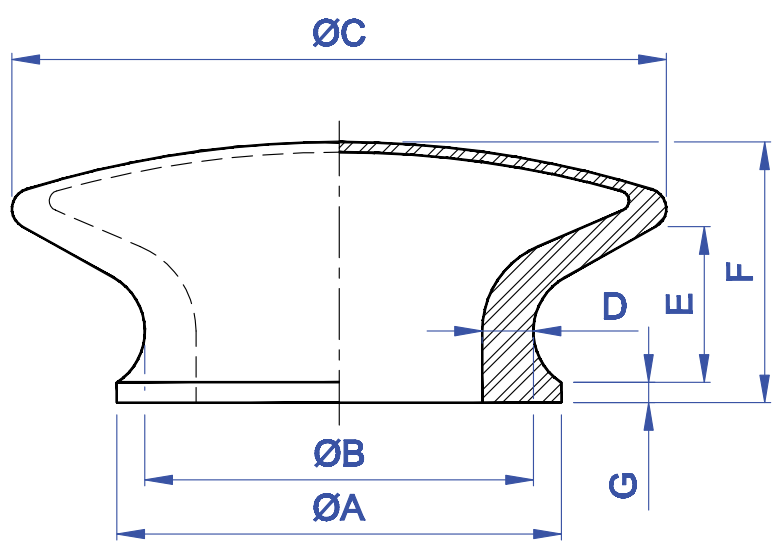
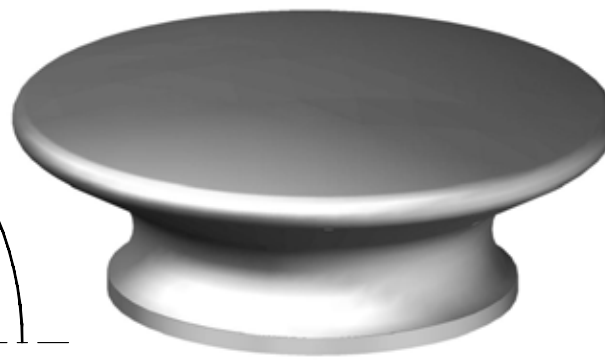
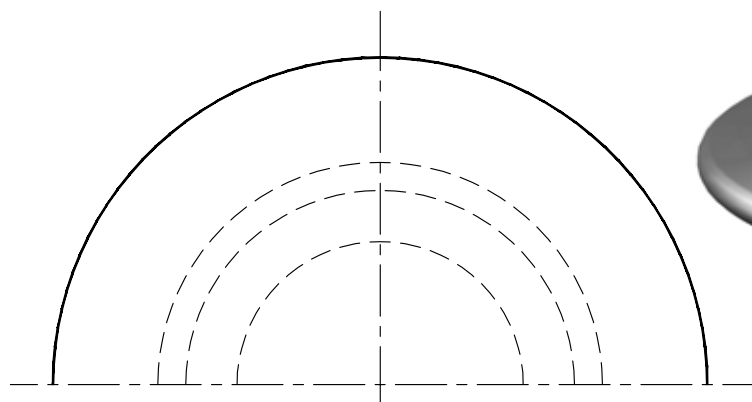
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CAST STEEL 9 1/2" BUTTON CHOCK



CHOCKS

MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-176	13838	9-1/2"	10-7/8"	9-1/2"	16"	1-1/4"	3-3/4"	6-3/8"	1/2"	84

"As to myself, I love peace, and I am anxious that we should give the world still another useful lesson, by showing to them other modes of punishing injuries than by war, which is as much a punishment to the punisher as to the sufferer."

—Thomas Jefferson



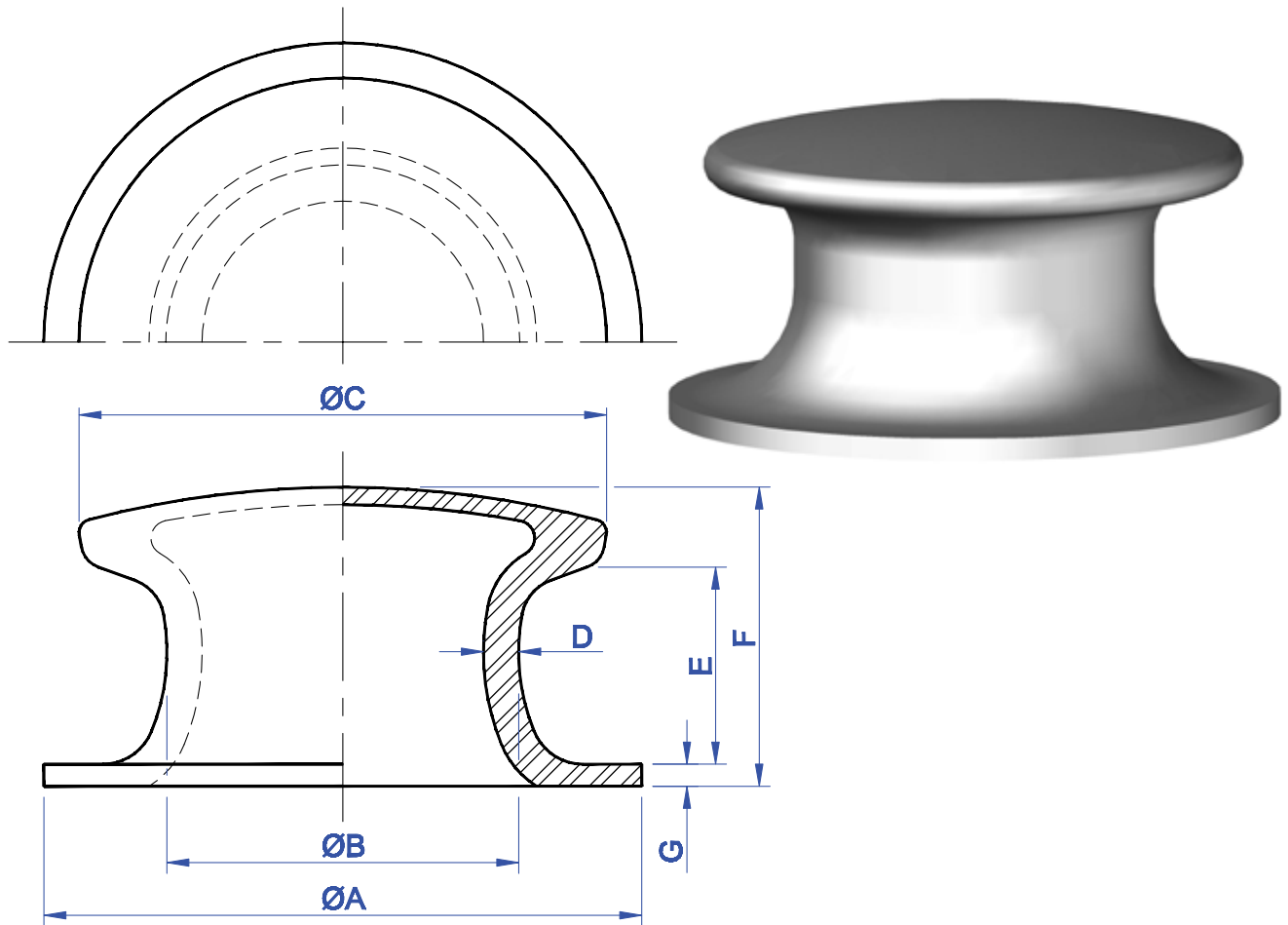
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CAST STEEL 10" BUTTON CHOCK

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MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-185	14567	10"	17"	10"	15"	1"	5-3/4"	8-1/2"	5/8"	145

"What we obtain too cheap, we esteem too lightly: it is dearness only that gives every thing its value. Heaven knows how to put a proper price upon its goods; and it would be strange indeed if so celestial an article as freedom should not be highly rated."

—Thomas Paine

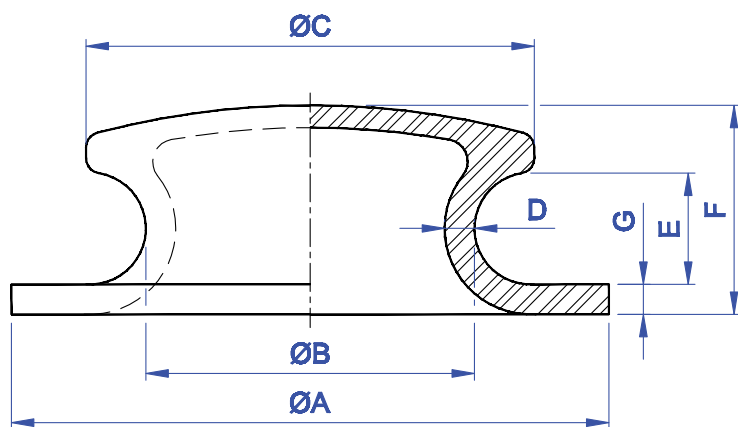
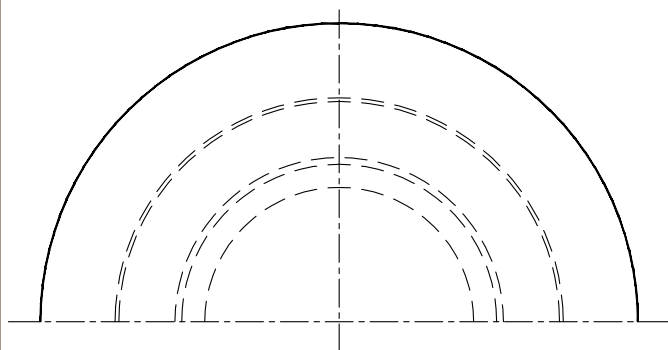
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CAST STEEL 11" BUTTON CHOCK



CHOCKS

MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-538	89907	11"	20"	11"	15"	1"	3-3/4"	7"	1"	165

"Freedom hath been hunted round the globe. Asia and Africa have long expelled her. Europe regards her like a stranger, and England hath given her warning to depart. O! Receive the fugitive, and prepare in time an asylum for mankind."

—Thomas Paine

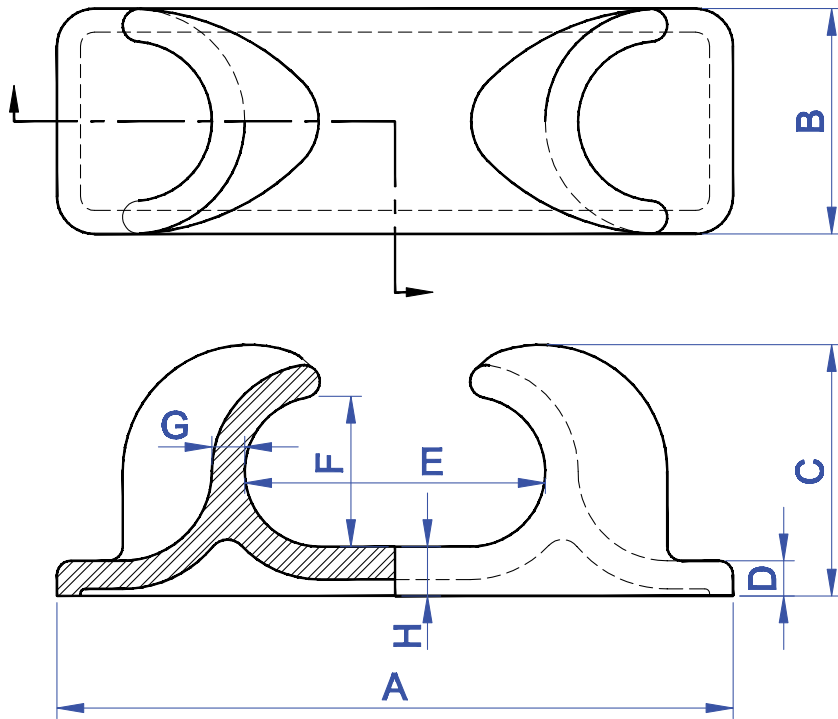


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CAST STEEL OPEN CHOCK



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-496	89451	4x8	19-3/4"	6"	6-3/4"	1-1/8"	8"	4"	1"	1-3/8"	75
DF-495	89443	5x11	25-1/4"	8"	9"	1-5/16"	10-3/4"	5-3/8"	1-1/4"	1-13/16"	132
DF-485	20362	6x12	27-3/4"	9"	10-1/8"	1-1/2"	12"	6"	1-3/8"	2-1/16"	175
DF-489	89346	8x16	36"	12"	13-3/8"	1-7/8"	16"	8"	1-3/4"	2-5/8"	435

"It is the will of the Almighty, that there should be diversity of religious opinions among us: It affords a larger field for our Christian kindness. Were we all of one way of thinking, our religious dispositions would want matter for probation; and on this liberal principle, I look on the various denominations among us, to be like children of the same family, differing only, in what is called, their Christian names."

—Thomas Paine

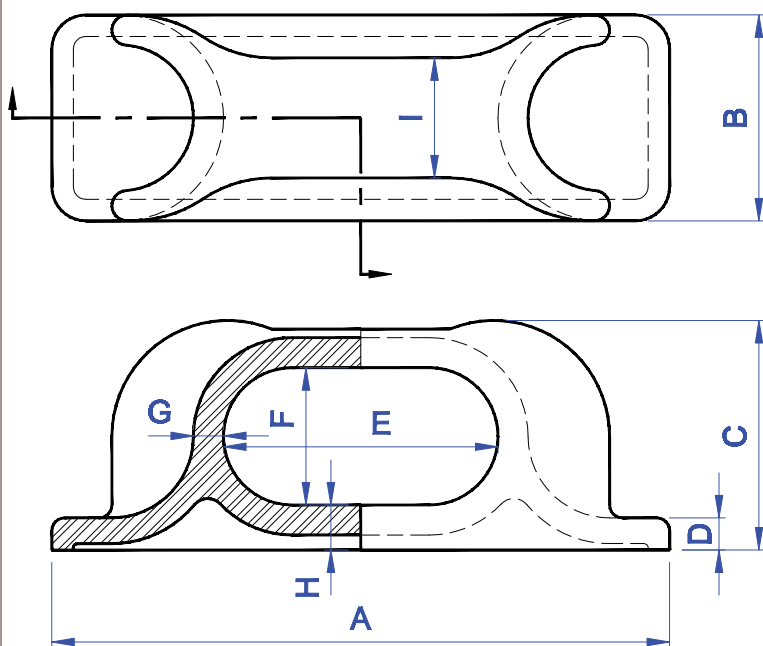
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CAST STEEL CLOSED CHOCK



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	WT. (lbs.)
DF-497	89478	4x8	19-3/4"	6"	6-3/4"	1-1/8"	8"	4"	1"	1-3/8"	3-1/2"	84
DF-480	89397	6x12	27-3/4"	9"	10-1/8"	1-1/2"	12"	6"	1-3/8"	2-1/16"	5-1/4"	191
DF-490	89354	8x16	36"	12"	13-3/8"	1-7/8"	16"	8"	1-3/4"	2-5/8"	7"	455

"The supposed quietude of a good man allures the ruffian; while on the other hand, arms like laws discourage and keep the invader and plunderer in awe, and preserve order in the world as well as property. The same balance would be preserved were all the world destitute of arms, for all would be alike; but since some will not, others dare not lay them aside... Horrid mischief would ensue were one half the world deprived of the use of them..."

—Thomas Paine



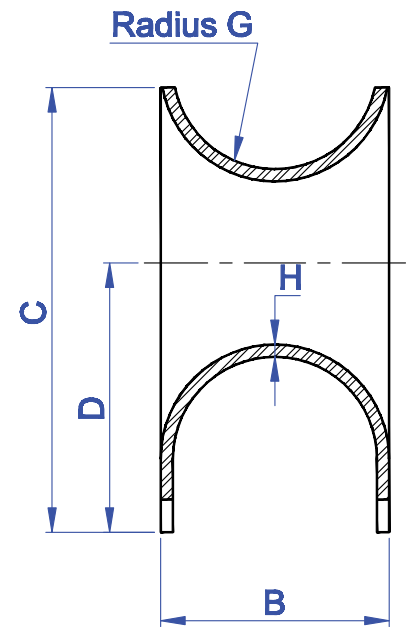
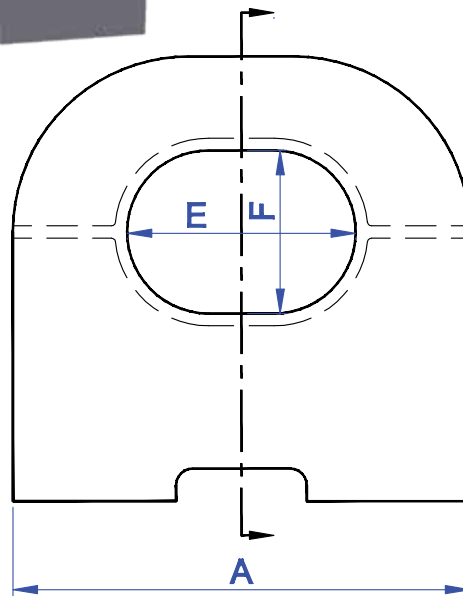
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CAST STEEL PANAMA CANAL CHOCK

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MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-531	21602	12x10	26"	14"	22"	12"	12"	10"	6-5/8"	3/4"	295
DF-531	21601	14x10	28"	14"	27-1/4"	16-1/2"	14"	10"	6-1/4"	3/4"	355
DF-531	21560	16x10	30"	14"	24-1/4"	16-1/2"	16"	10"	7"	3/4"	395

"Liberty is the power to do everything that does not interfere with the rights of others: thus, the exercise of the natural rights of every individual has no limits save those that assure to other members of society the enjoyment of the same rights."

—Thomas Paine

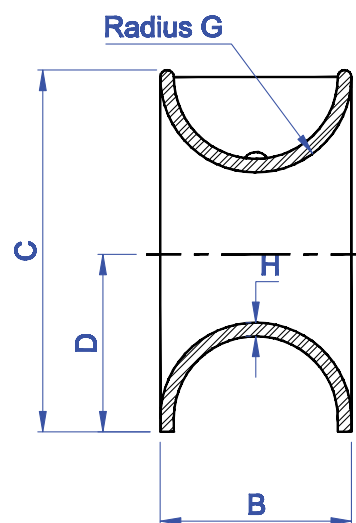
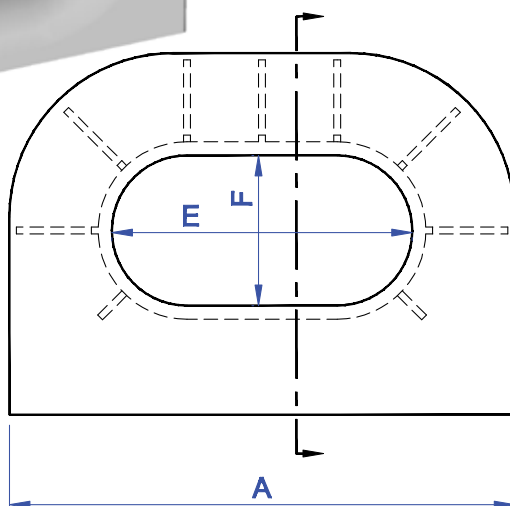
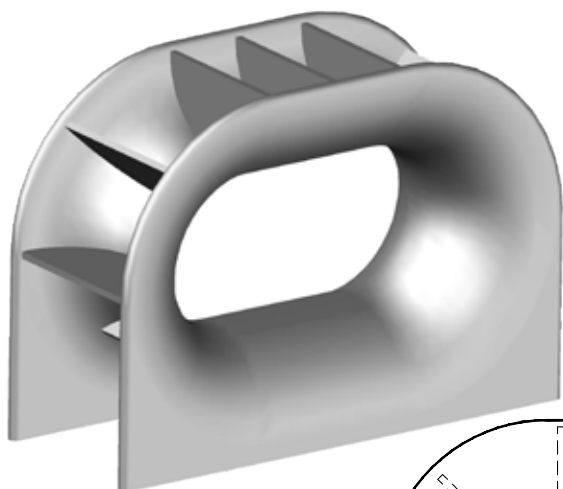
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CAST STEEL PANAMA CANAL CHOCK



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-531	21554	22x11	37"	14"	26-1/2"	13-1/2"	22"	11"	7"	1"	790
DF-531	21607	18x12	33"	14"	31-1/2"	18"	18"	12"	7"	1-1/8"	1140
DF-531	21609	24x12	41"	16"	34-1/2"	20"	24"	12"	8"	1-1/8"	1200

War involves in its progress such a train of unforeseen circumstances that no human wisdom can calculate the end; it has but one thing certain, and that is to increase taxes."

—Thomas Paine



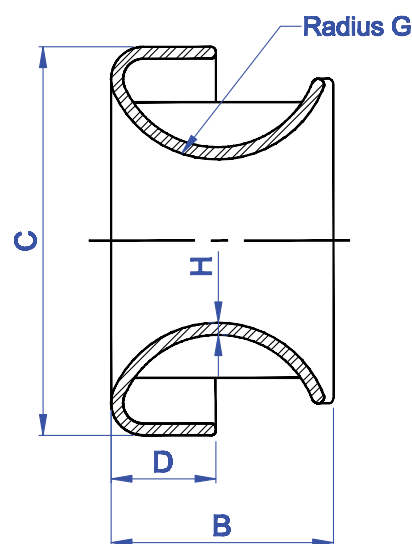
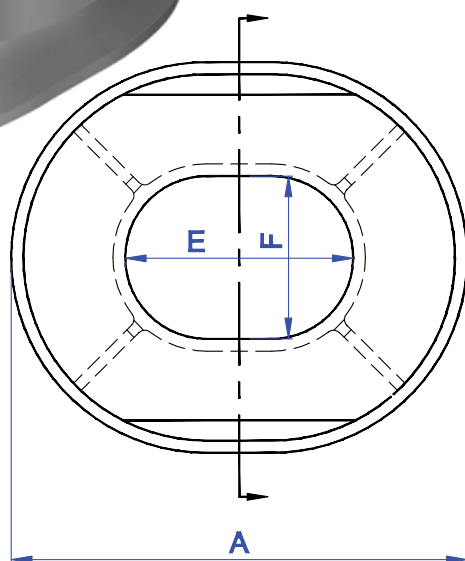
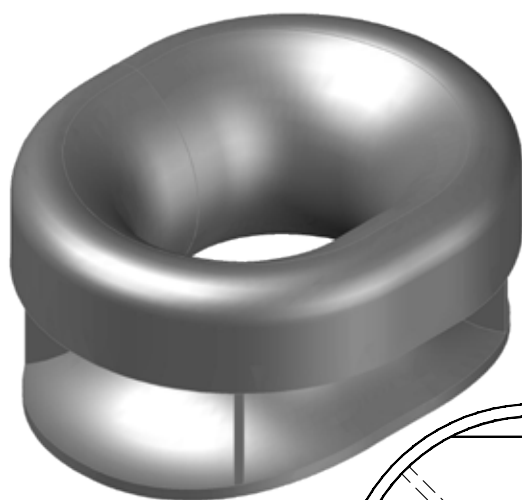
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CAST STEEL PANAMA CANAL CHOCK (BULWARK)

BR



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-531	21551	12x10	25-1/2"	13-1/2"	23-1/2"	6-1/2"	12"	10"	7"	3/4"	256
DF-531	21550	14x10	27-1/2"	13-1/2"	23-1/2"	6-1/2"	14"	10"	7"	3/4"	410

"Those who cry out that the government should 'do something' never even ask for data on what has actually happened when the government did something, compared to what actually happened when the government did nothing."

—Thomas Sowell

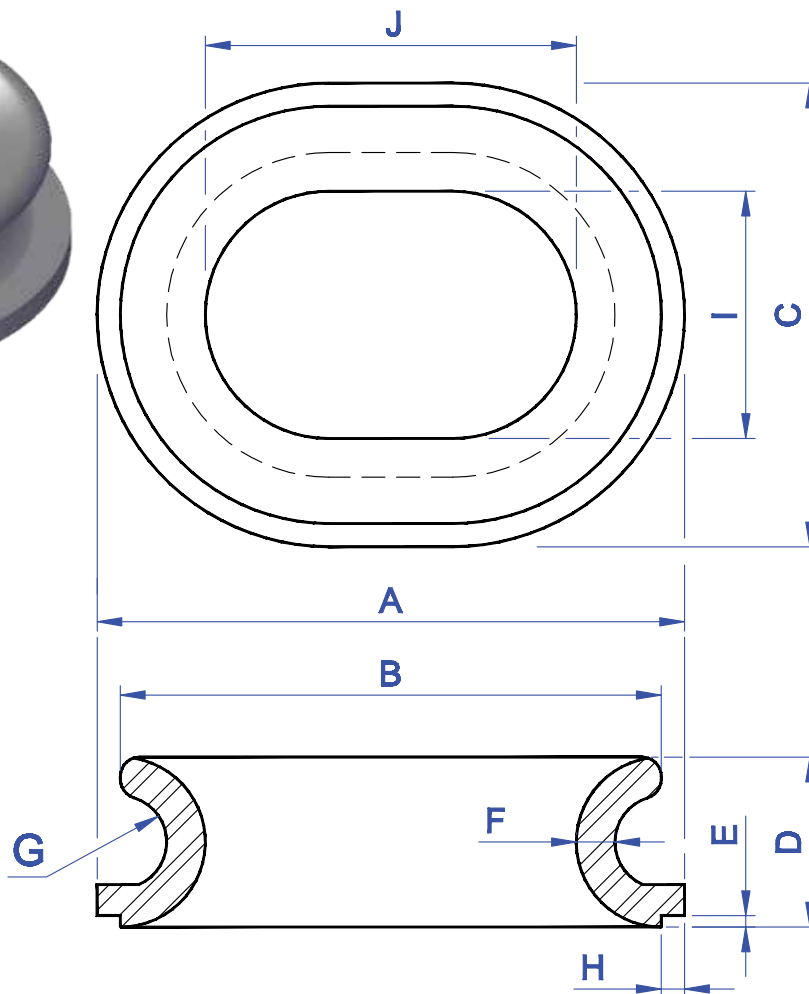
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CAST STEEL MOORING RING



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	I	J	WT. (lbs.)
DF-528	21512	8x12	19"	17-1/2"	15"	5-1/2"	3/8"	1-1/4"	1-1/2"	3/4"	8"	12"	130

"What is ominous is the ease with which some people go from saying that they don't like something to saying that the government should forbid it. When you go down that road, don't expect freedom to survive very long."

—Thomas Sowell



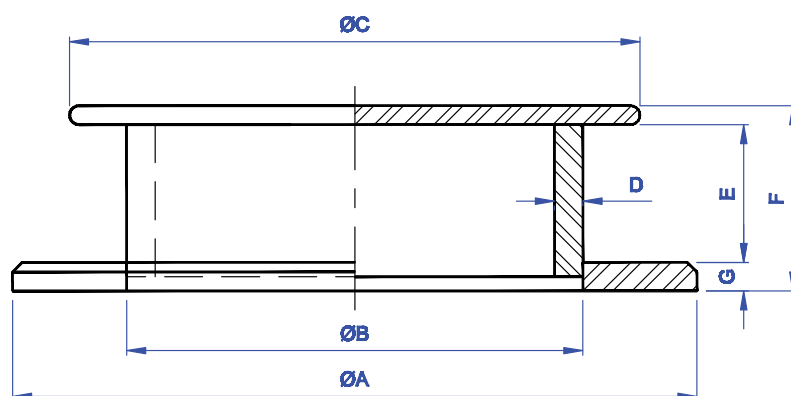
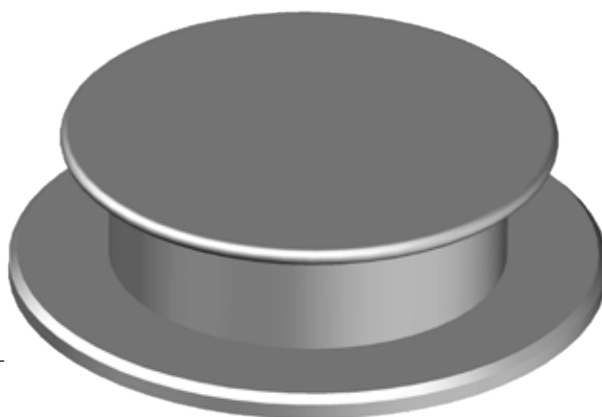
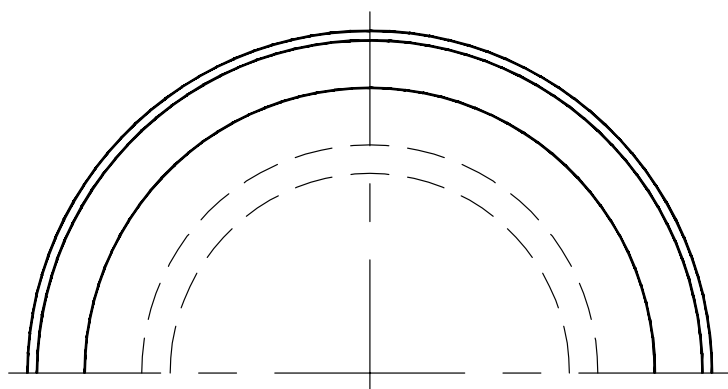
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FABRICATED STEEL BUTTON CHOCK

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MODEL No.	PART No.	SIZE	ØA	ØB	ØC	D	E	F	G	WT. (lbs.)
DF-148	6611	3-1/2"	8"	3-1/2"	7"	N/A	1-3/4"	3-1/4"	1"	25
DF-129	6689	8-1/2"	14-5/8"	8-5/8"	11-5/8"	7/8"	1-3/4"	3"	3/4"	52
DF-158	6506	8-1/2"	14-5/8"	8-5/8"	11-5/8"	7/8"	3"	4-1/4"	3/4"	62
DF-129A	6662	11"	17"	11"	14"	1"	1-3/4"	3"	3/4"	70
DF-158A	6492	12"	18"	12"	15"	3/4"	3-5/8"	4-7/8"	3/4"	95

CHOCKS

"The problem isn't that Johnny can't read. The problem isn't even that Johnny can't think. The problem is that Johnny doesn't know what thinking is; he confuses it with feeling."

—Thomas Sowell

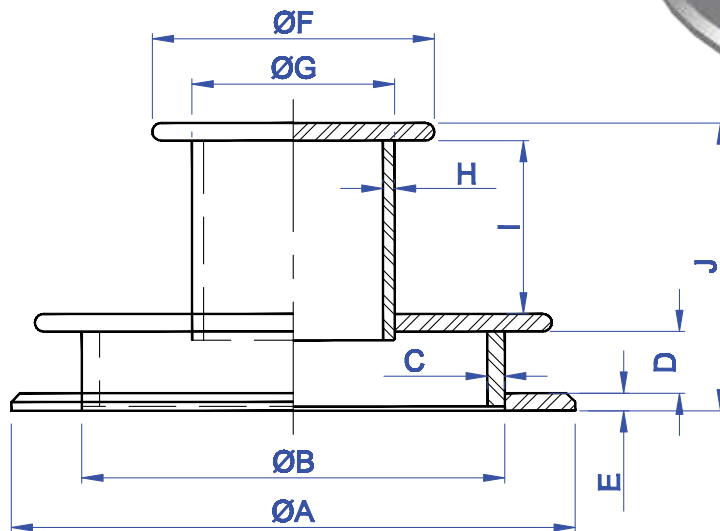
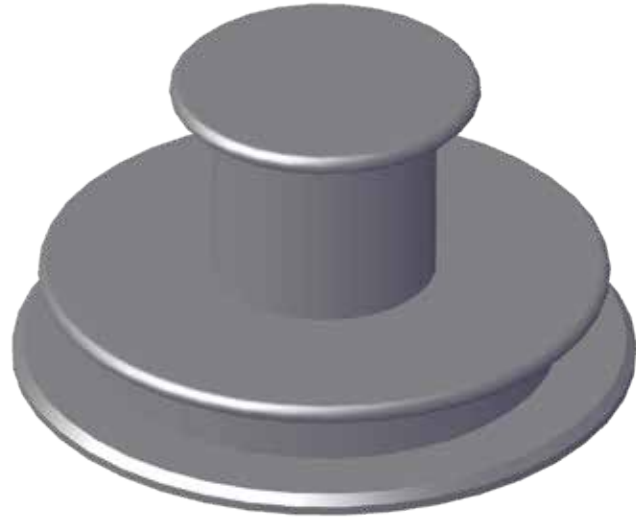
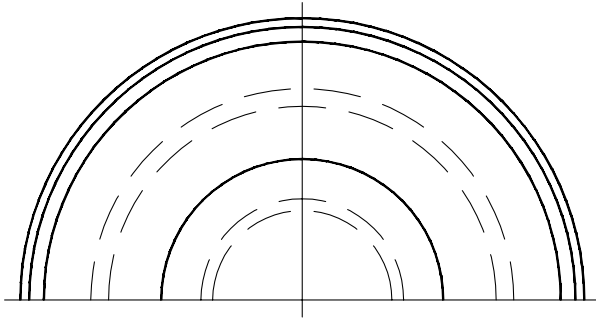
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FABRICATED STEEL COMBINATION BITT



CHOCKS

MODEL No.	PART No.	ØA	ØB	C	D	E	ØF	ØG	H	I	J	WT. (lbs.)
DF-163	13803	24"	18"	3/4"	2-5/8"	3/4"	12"	8-5/8"	1/2"	7-3/8"	12-1/4"	210

"People who identify themselves as conservatives donate money to charity more often than people who identify themselves as liberals. They donate more money and a higher percentage of their incomes."

—Thomas Sowell



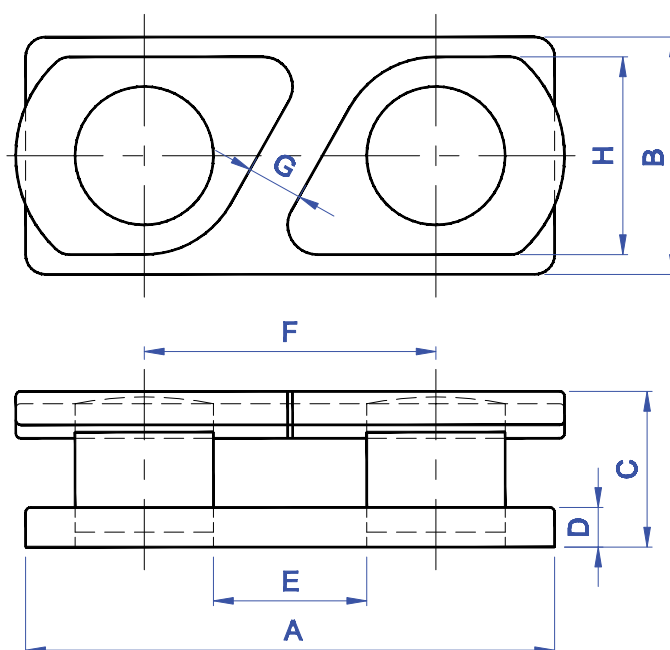
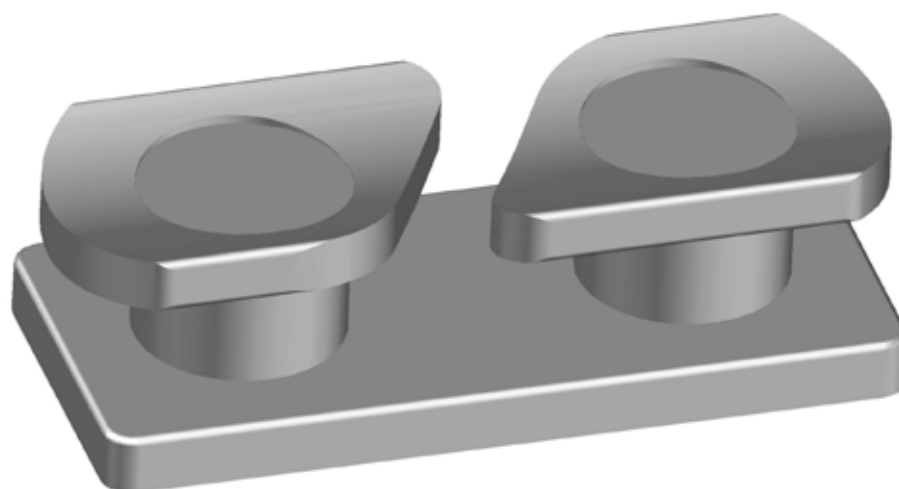
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FABRICATED STEEL OPEN CHOCK

BR



MODEL No.	PART No.	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-149	6602	13-3/8"	6"	4"	1"	3-7/8"	7-3/8"	1-3/8"	5"	47

"If you have always believed that everyone should play by the same rules and be judged by the same standards, that would have gotten you labeled a radical 60 years ago, a liberal 30 years ago and a racist today."

—Thomas Sowell

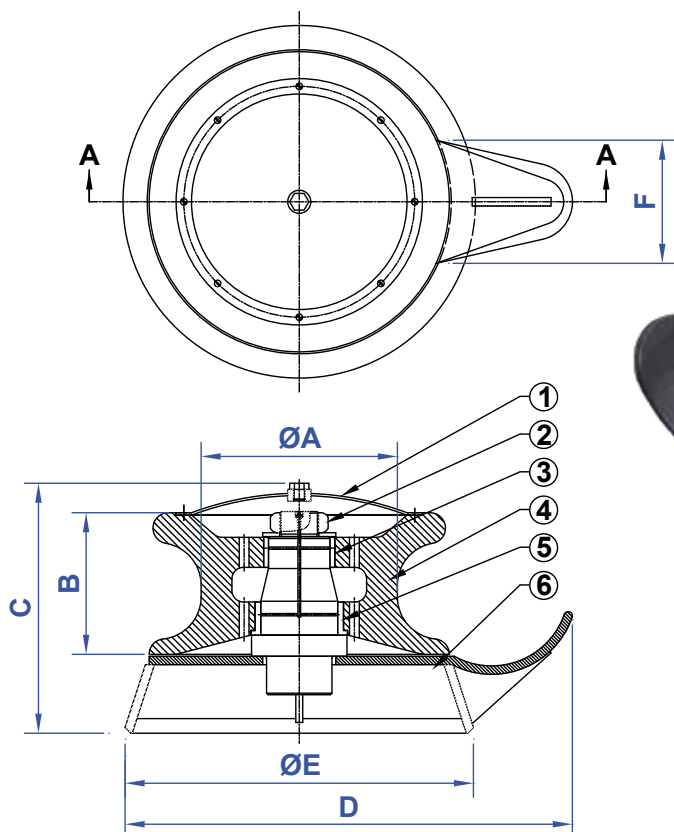


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FAIRLEAD PEDESTAL ROLLER



PIECE No.	DESCRIPTION	QTY	MATERIAL
1	COVER	1	STEEL
2	SECURING NUT	1	STEEL
3	TOP ROLLER BUSHING	1	BRONZE
4	ROLLER BODY	1	CAST STEEL
5	BOTTOM ROLLER BUSHING	1	BRONZE
6	BASE ASSEMBLY	1	STEEL

MODEL No.	PART No.	SIZE	ØA	B	C	D	ØE	F	WT. (lbs.)
DF-517-12	84650	12"	12"	10-5/8"	21-3/16"	26-1/2"	22"	7"	510
DF-517-20	84655	20"	20"	14-1/2"	25"	45-1/4"	35-5/8"	12-1/2"	750

"The real minimum wage is zero."

—Thomas Sowell



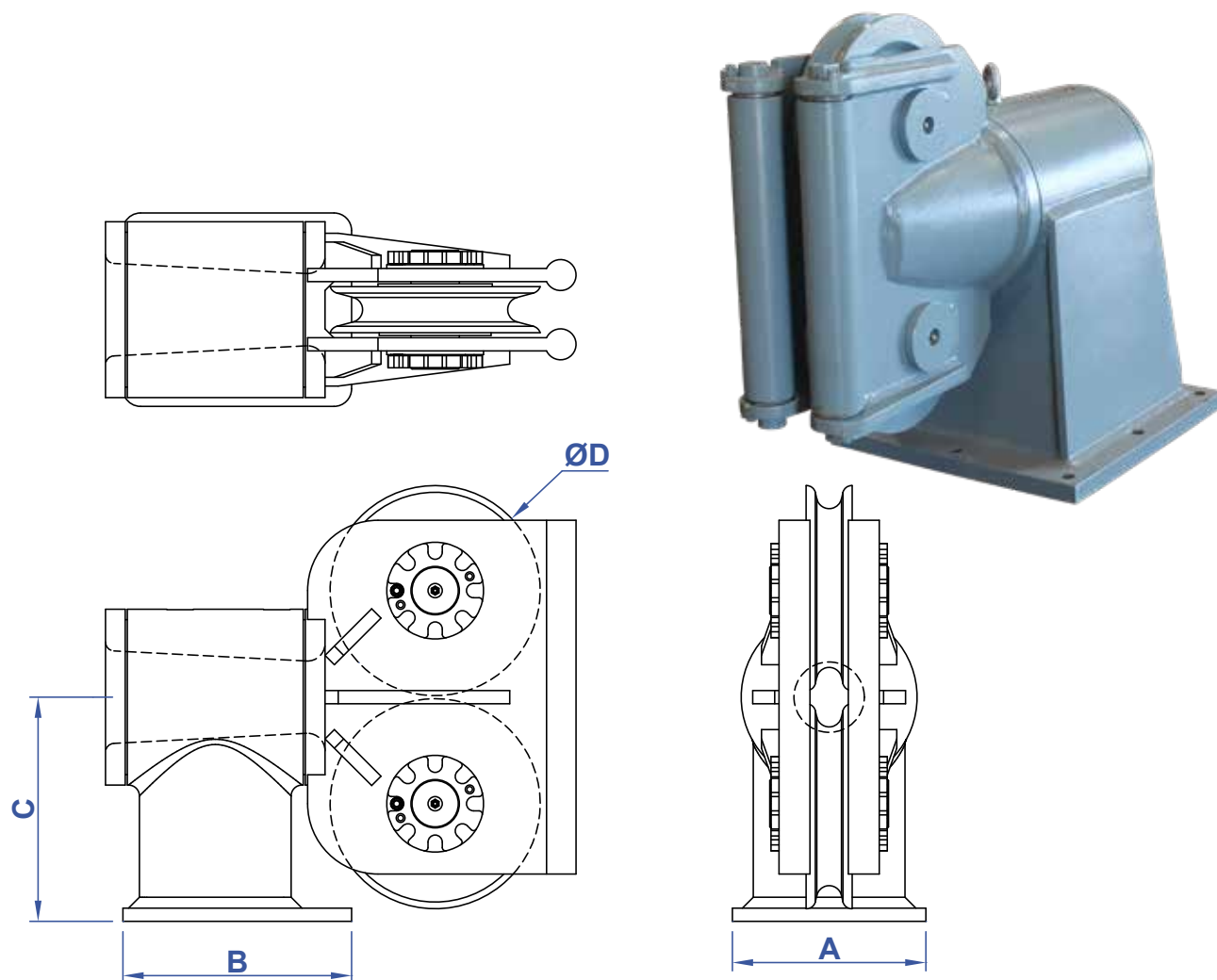
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PIVOTING FAIRLEAD

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MODEL No.	PART No.	MAX WIRE SIZE	A	B	C	ØD
PF20	14700	3/4"	15-3/4"	16-3/4"	13-3/4"	9-7/8"
PF25	14701	1"	15-3/4"	16-3/4"	14-1/8"	9-7/8"
PF38	14702	1-1/2"	29-7/8"	29-7/8"	19-1/4"	15-3/4"

"Both free speech rights and property rights belong legally to individuals, but their real function is social, to benefit vast numbers of people who do not themselves exercise these rights."

—Thomas Sowell

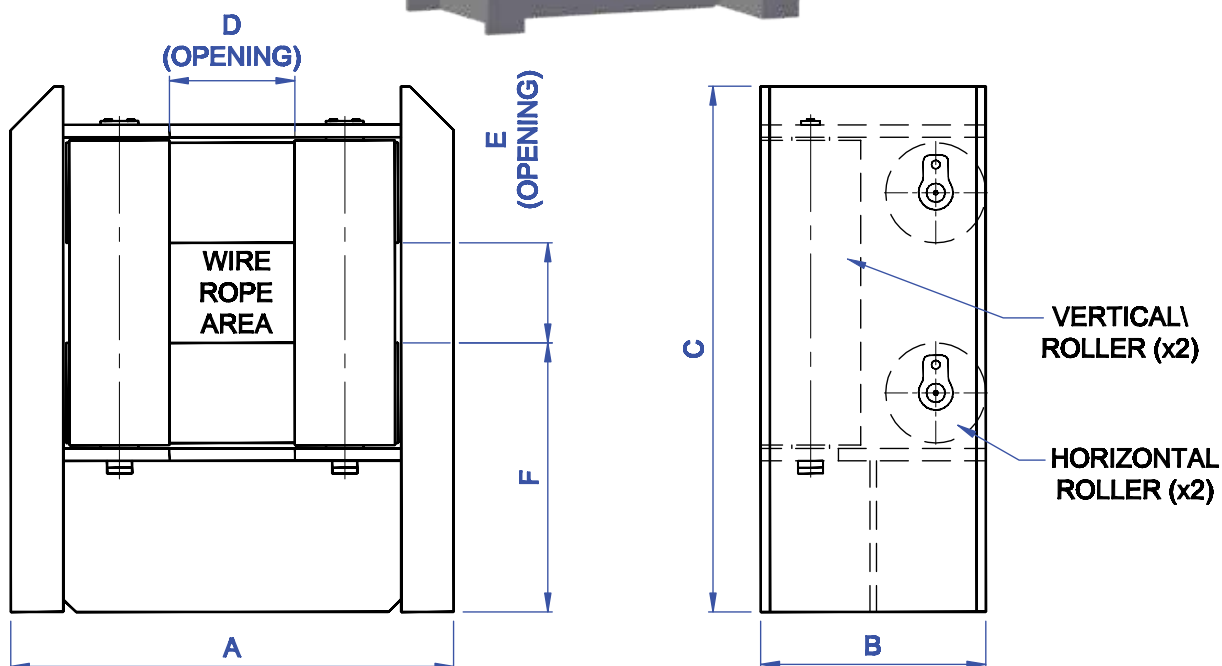
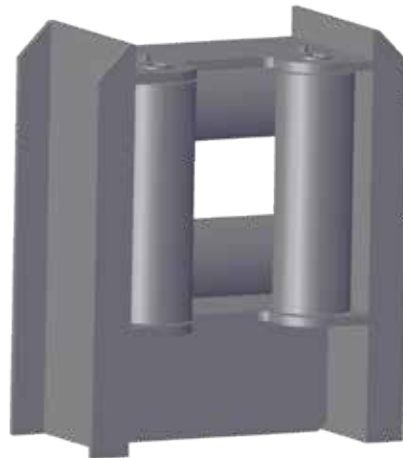
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FAIRLEAD ROLLER



MODEL No.	PART No.	SIZE	A	B	C	D	E	F	WT. (lbs.)
DF-462	84644	10x8	35-3/8"	18"	42"	10"	8"	21-1/2"	1850
DF-462	84640	12x12	37"	18"	46"	12"	12"	21-1/2"	1900

"The first lesson of economics is scarcity: there is never enough of anything to fully satisfy all those who want it. The first lesson of politics is to disregard the first lesson of economics."

—Thomas Sowell



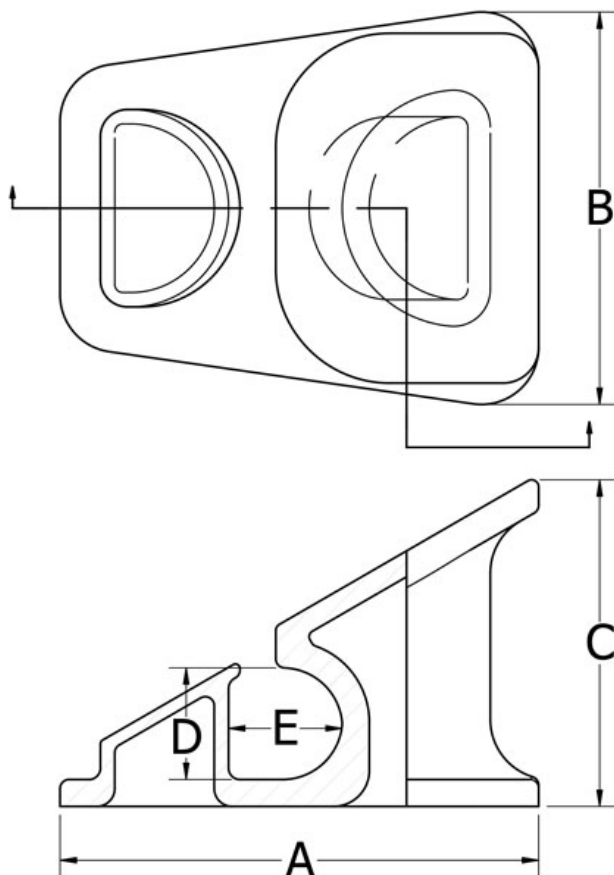
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STAINLESS STEEL FIXED CHOCK

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CHOCKS

MODEL No.	PART No.	A	B	C	D	E	WT. (lbs.)
DF-460-3	89242	16-1/2"	11-13/16"	11-1/4"	2"	4-7/8"	170

"Prices are important not because money is considered paramount but because prices are a fast and effective conveyor of information through a vast society in which fragmented knowledge must be coordinated."

—Thomas Sowell

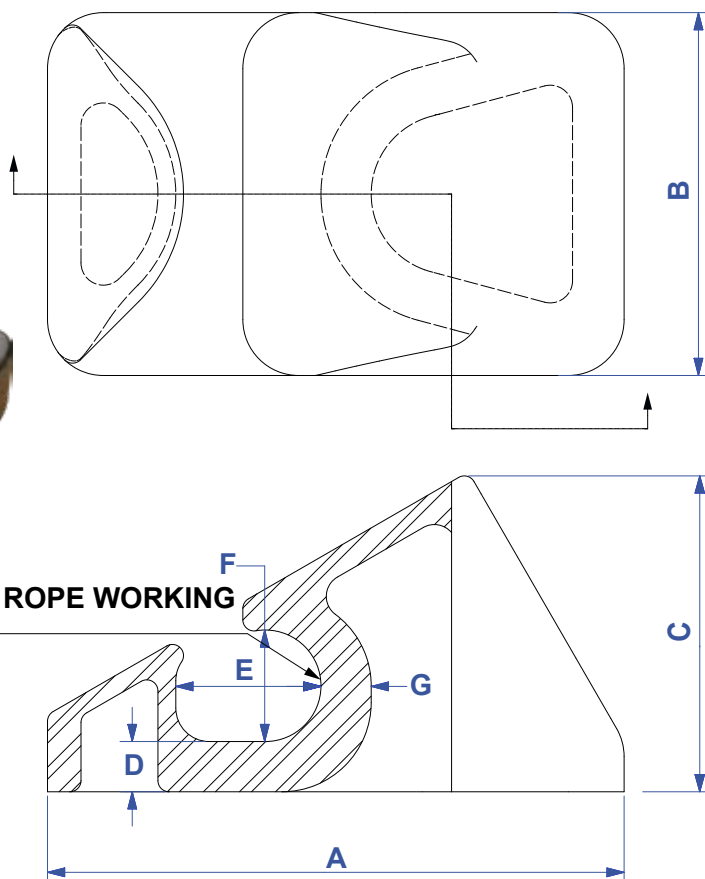
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STAINLESS STEEL FIXED CHOCK



MODEL No.	PART No.	A	B	C	D	E	F	G	SWL	WT. (lbs.)
DF-460-10	89243	20-5/16"	12-13/16"	11-1/8"	1-3/4"	5-1/8"	4"	1-3/4"	500 TONS	256

"Imagine a political system so radical as to promise to move more of the poorest 20% of the population into the richest 20% than remain in the poorest bracket within the decade? You don't need to imagine it. It's called the United States of America."

—Thomas Sowell



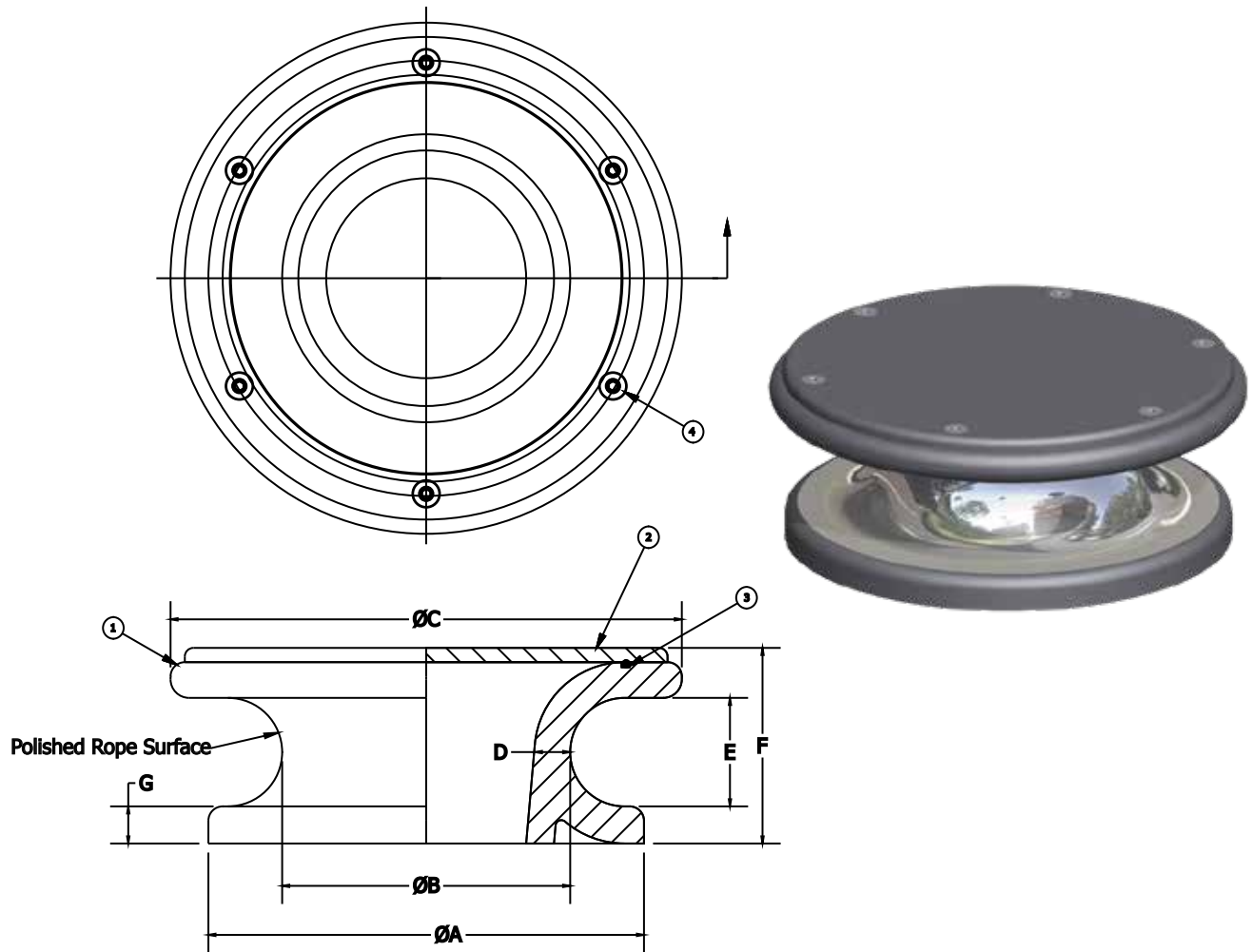
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STAINLESS STEEL CHOCK

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PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	BUTTON CHOCK BODY	89232	304 STAINLESS STEEL
2	CHOCK COVER PLATE	89233	304 STAINLESS STEEL
3	LID GASKET	89234	NEOPRENE
4	3/8 - 16 UNC FLAT HEAD SOCKET SCREW	466	316 STAINLESS STEEL

MODEL No.	PART No.	SIZE	A	B	C	D	ØE	F	ØG	WT. (lbs.)
DF-565	89231	8"	12"	8"	14-1/6"	1"	3"	5-3/8"	1"	99

"There are few things more dishonorable than misleading the young."

—Thomas Sowell

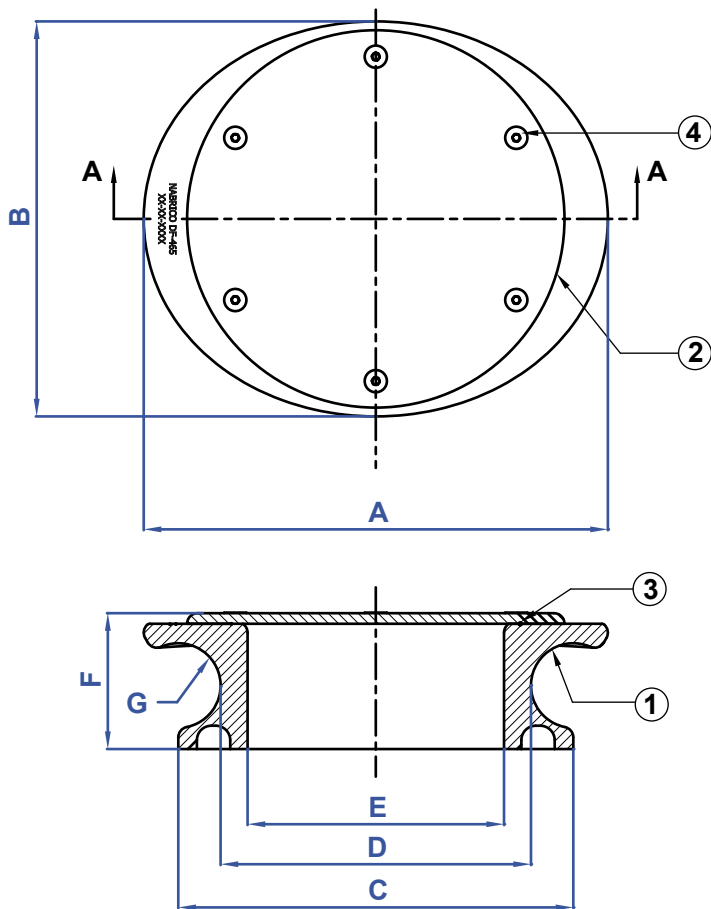
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STAINLESS STEEL BUTTON CHOCK



SECTION A-A

PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	BUTTON CHOCK BODY	89237	304 STAINLESS STEEL
2	CHOCK COVER PLATE	89236	304 STAINLESS STEEL
3	GASKET	89239	NEOPRENE
4	M10-1.5 x 25 FLAT SOCKET HEAD SCREW	465	304 STAINLESS STEEL

MODEL No.	PART No.	A	B	ØC	ØD	ØE	F	G	WT. (lbs.)
DF-465-17	89238	16-7/16"	14"	14"	11"	9-3/32"	4-13/16"	1-1/2"	108

"Liberalism is totalitarianism with a human face."

—Thomas Sowell



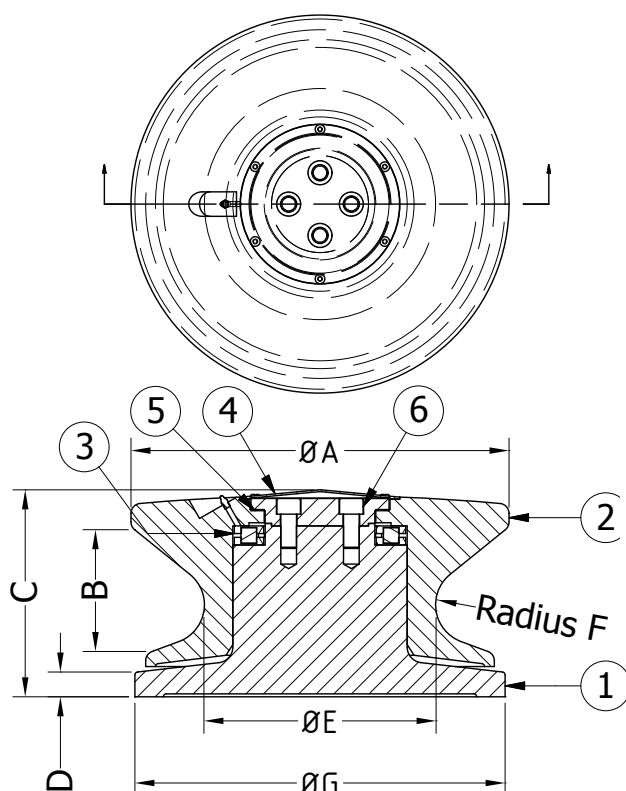
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ROLLER CHOCK

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PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	ROLLER BASE	89200	MILD STEEL
2	ROLLER SHEAVE	89202	CAST IRON
3	PLANE BEARING	89204	BEARING STEEL
4	ROLLER COVER	89206	STAINLESS STEEL
5	ROLLER CAP	89208	STAINLESS STEEL
6	SOCKET SCREWS	89210	ALLOY STEEL

MODEL No.	PART No.	A	B	C	D	ØE	F	ØG	WT. (lbs.)
DF-100	89245	15-3/16"	4-7/8"	8-5/16"	1"	9-5/16"	1-9/16"	14-7/8"	254

"The most fundamental fact about the ideas of the political left is that they do not work. Therefore we should not be surprised to find the left concentrated in institutions where ideas do not have to work in order to survive."

—Thomas Sowell

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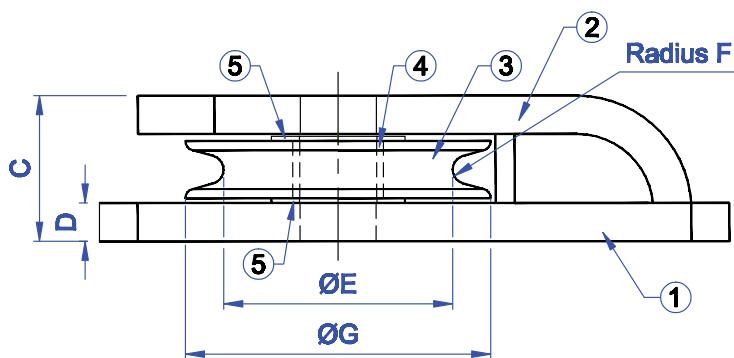
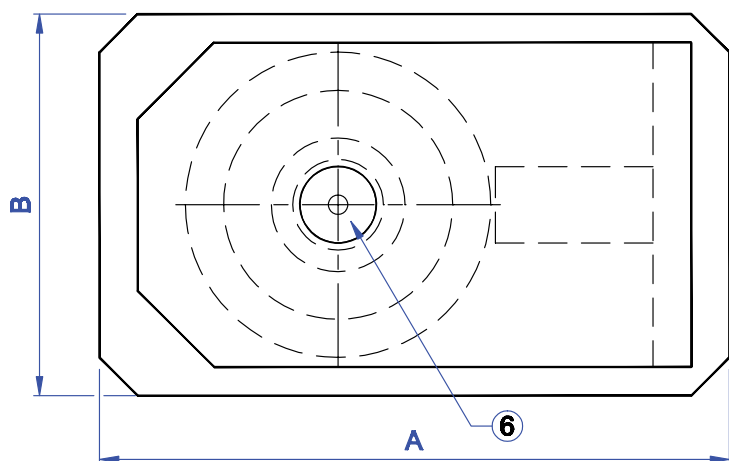
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SINGLE ROLLER CHOCK



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	ROLLER BODY BOTTOM	76988	STEEL
2	ROLLER BODY TOP	76996	STEEL
3	ROLLER SHEAVE	77003	STEEL
4	BUSHING	77410	BRASS
5	WASHER	77046	BRASS
6	ROLLER PIN	77038	STEEL

MODEL No.	PART No.	SIZE	A	B	C	D	ØE	F	ØG	WT. (lbs.)
DF-361	13862	8"	16-1/2"	10"	3-13/16"	1"	6"	3/8"	8"	123

"Like a baseball game, wars are not over till they are over. Wars don't run on a clock like football. No previous generation was so hopelessly unrealistic that this had to be explained to them."

—Thomas Sowell

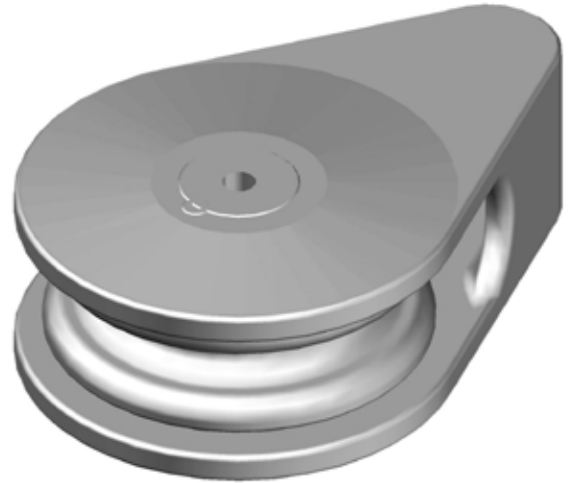
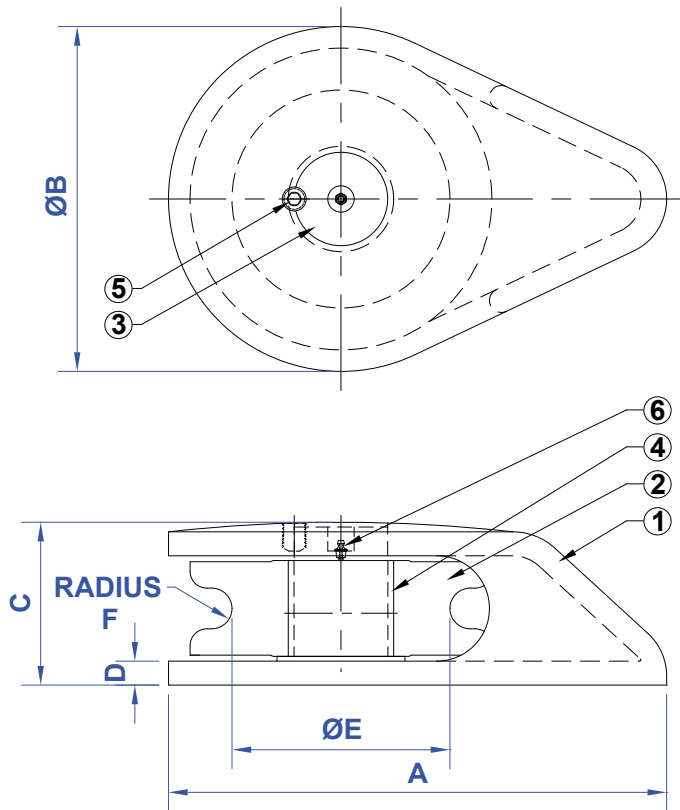


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SINGLE ROLLER CHOCK



PIECE No.	DESCRIPTION	QTY	PART No.	MATERIAL
1	HOUSING ASSEMBLY	1	89273	CAST STEEL
2	ROLLER SHEAVE	1	89281	CAST STEEL
3	ROLLER PIN	1	89311	STEEL
4	BUSHING	1	89303	BRONZE
5	SET SCREW	1	70599	STAINLESS STEEL
6	GREASE FITTING	1	100101	STAINLESS STEEL

MODEL No.	PART No.	SIZE	A	ØB	C	D	ØE	F	WT. (lbs.)
DF-927	89265	8"	13"	9"	4-1/4"	5/8"	5-11/16"	17/32"	55

1. BUSHING (89303) IS INCLUDED WITH ROLLER SHEAVE.

"Would you bet your paycheck on a weather forecast for tomorrow? If not, then why should this country bet billions on global warming predictions that have even less foundation?"

—Thomas Sowell

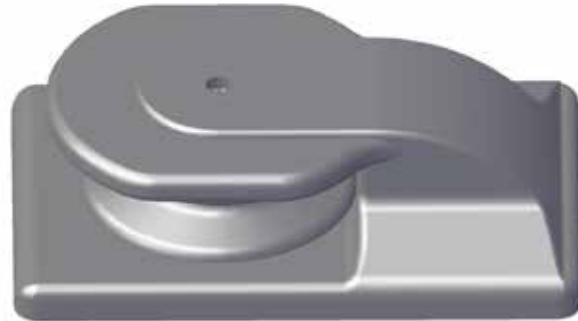
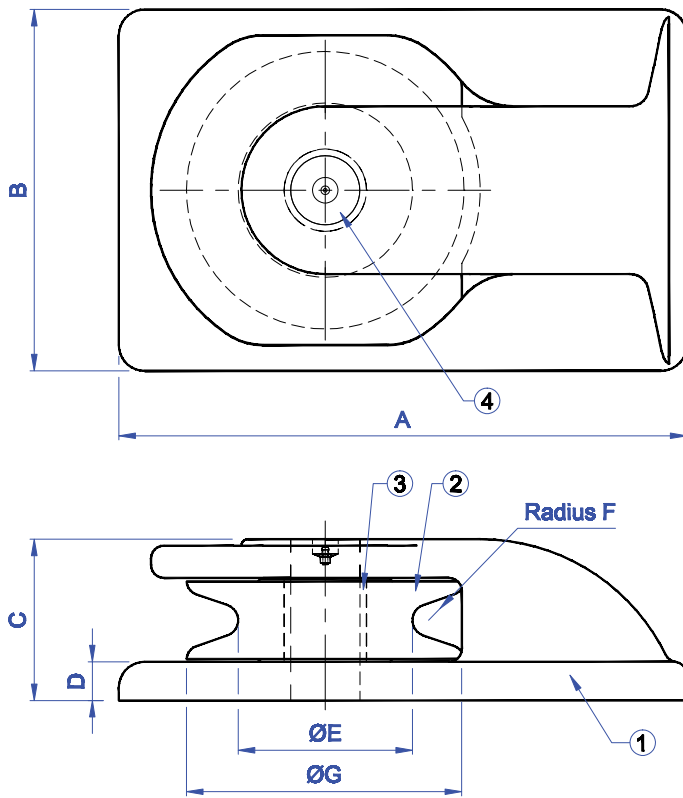
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SINGLE ROLLER CHOCK



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	HOUSING	6467	CAST STEEL
2	ROLLER SHEAVE	6734	CAST STEEL
3	BUSHING	6726	BRONZE
4	ROLLER PIN	76198	STEEL

MODEL No.	PART No.	SIZE	A	B	C	D	ØE	F	ØG	WT. (lbs.)
DF-164	6475	11"	22"	14"	6-1/4"	1-1/2"	6-3/4"	5/8"	10-3/4"	296

"Tariffs that save jobs in the steel industry mean higher steel prices, which in turn means fewer sales of American steel products around the world and losses of far more jobs than are saved."

—Thomas Sowell

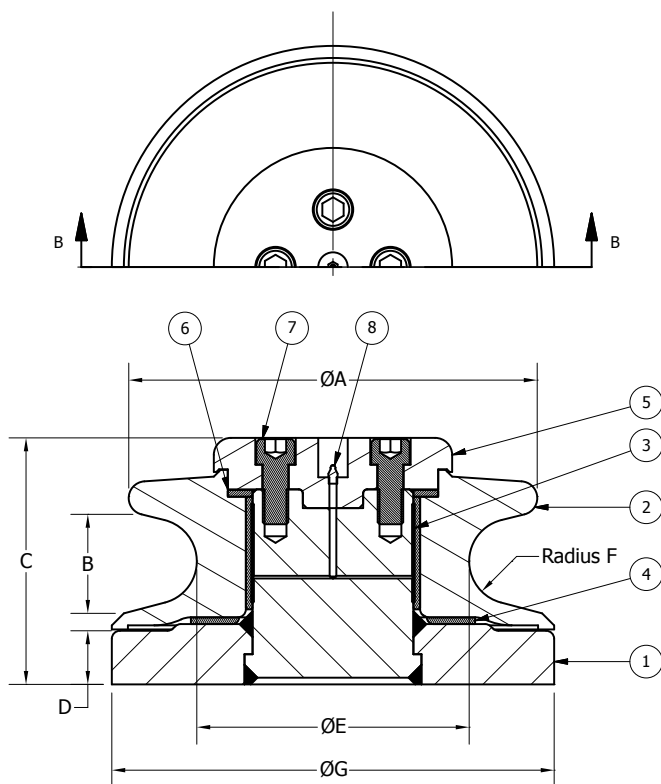


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SINGLE ROLLER BUTTON CHOCK



PIECE No.	DESCRIPTION	PART NUMBER		MATERIAL
		DF-512-5	DF-511-5	
1	ROLLER BASE ASSEMBLY	89194		MILD STEEL
2	ROLLER SHEAVE	89192	89189	CAST STEEL
3	BUSHING	89198		BRONZE
4	LOWER WASHER	89199		BRONZE
5	ROLLER CAP	89197		STAINLESS
6	UPPER WASHER	6913		BRONZE
7	CAP SCREW	413		STAINLESS
8	GREASE FITTING	100101		STAINLESS

MODEL No.	PART No.	SIZE	ØA	B	C	D	ØE	F	ØG	WT. (lbs.)
DF-512-5	89190	12"	12"	2-15/16"	7-1/4"	1-9/16"	8"	1-1/4"	13"	171
DF-511-5	89188	16"	16"	2-15/16"	7-1/4"	1-9/16"	8"	1-1/4"	13"	197

"Talkers are usually more articulate than doers, since talk is their specialty."

—Thomas Sowell

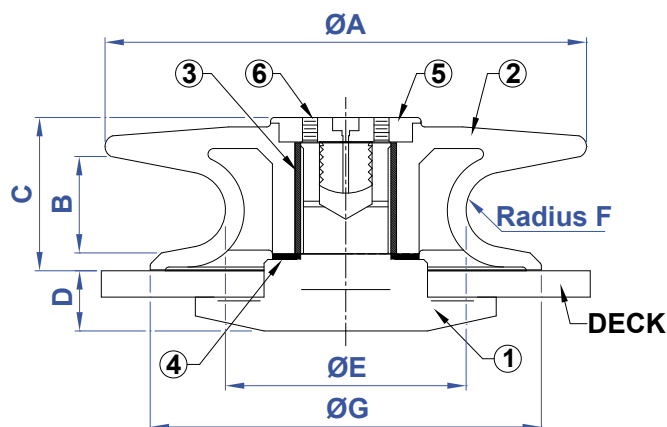
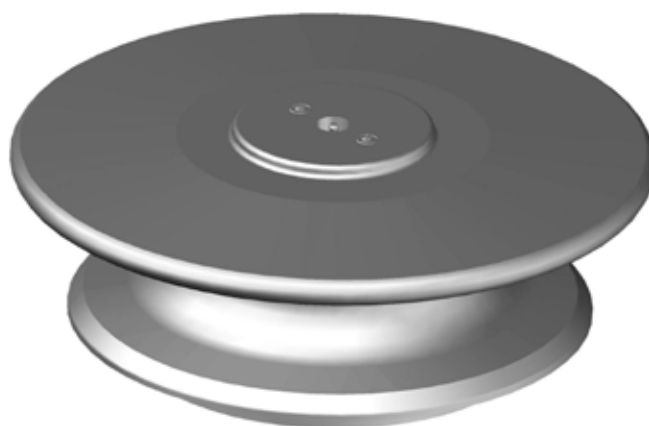
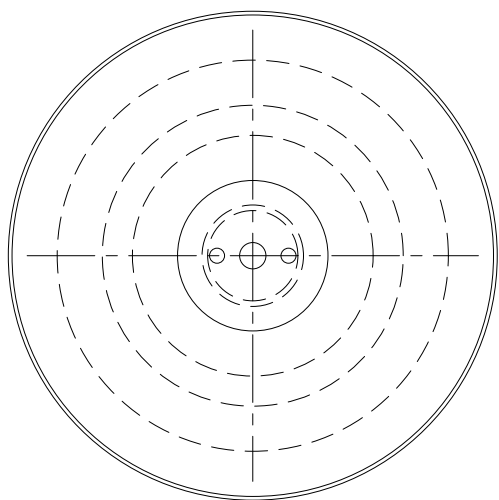
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THRU DECK SINGLE ROLLER BUTTON CHOCK



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	ROLLER BASE	6971	CAST STEEL
2	ROLLER SHEAVE	6947	CAST STEEL
3	BUSHING	6920	BRONZE
4	WASHER	6912	BRASS
5	ROLLER CAP	6939	BRASS
6	SET SCREW	74918	STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	ØE	F	ØG	WT. (lbs.)
DF-11	6998	16"	16"	3-3/16"	5-1/16"	2"	8"	1-1/4"	13"	126

"Facts are not liberals' strong suit. Rhetoric is."

—Thomas Sowell



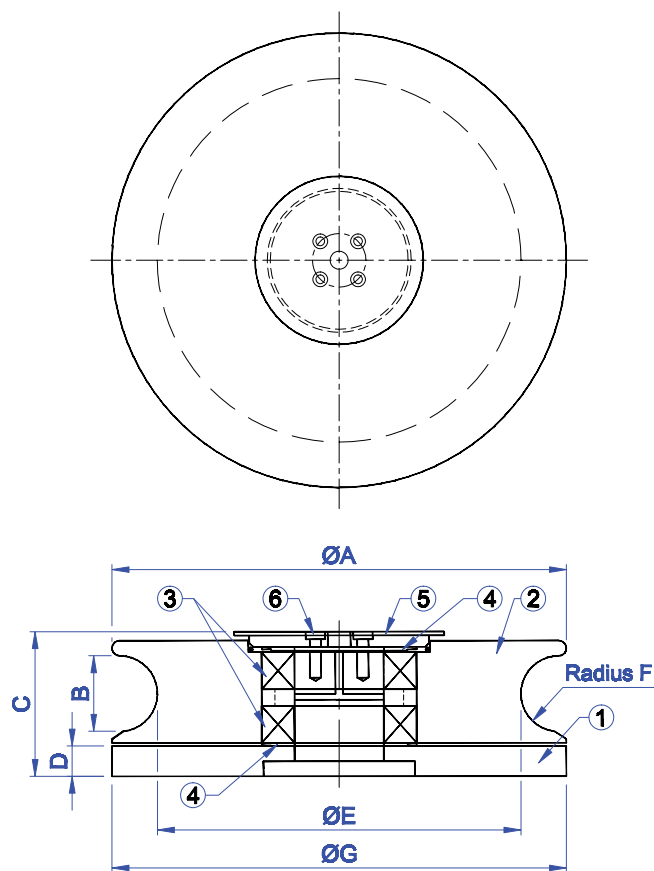
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HEAVY DUTY SINGLE ROLLER BUTTON CHOCK

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PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	ROLLER BASE	79026	STEEL
2	ROLLER SHEAVE	79027	STEEL
3	ROLLER BEARING (x2)	79025	STAINLESS
4	WASHER (x2)	79028	STEEL
5	ROLLER CAP	79029	STEEL
6	SCREW	79030	STAINLESS

MODEL No.	PART No.	SIZE	ØA	B	C	D	ØE	F	ØG	WT. (lbs.)
DF-511HD	89250	15"	15"	2-1/2"	6"	1"	12"	1-1/4"	15"	180

"The simplest and most psychologically satisfying explanation of any observed phenomenon is that it happened that way because someone wanted it to happen that way."

—Thomas Sowell

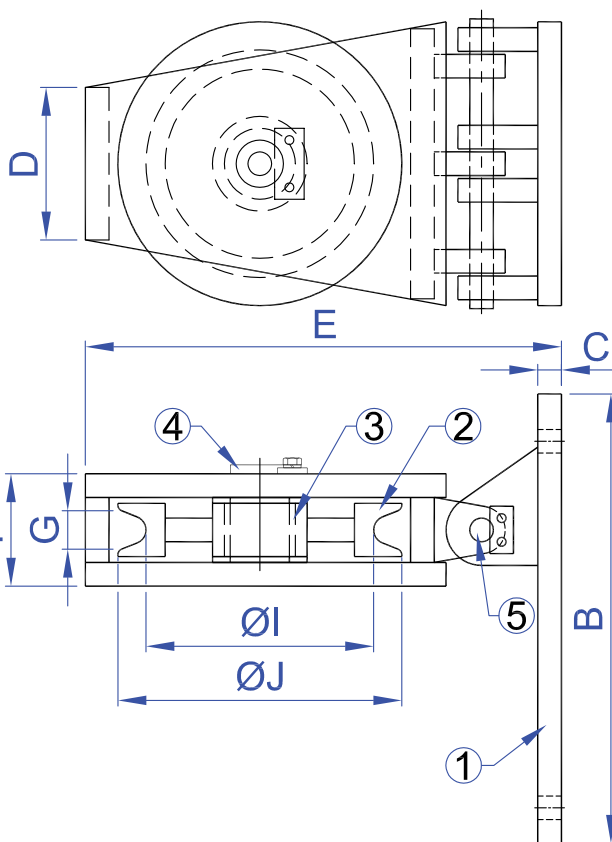
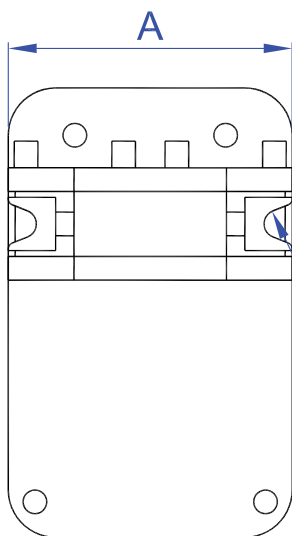
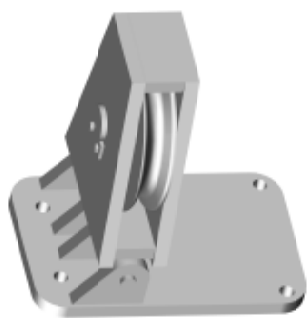
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PIVOTING ROLLER CHOCK



PIECE No.	DESCRIPTION	PART No.		MATERIAL
		DF-710	DF-712	
1	MOUNTING PLATE	6735		STEEL
2	ROLLER SHEAVE	6736	6738	STAINLESS
3	BUSHING	6740		BRONZE
4	ROLLER PIN	6737		STAINLESS
5	HINGE PIN	6739		STAINLESS

MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	ØI	J	WT. (lbs.)
DF-710	6478	10"	12"	19"	1"	6-1/2"	18-3/4"	4-3/4"	1-7/8"	1/2"	7-1/2"	10"	210
DF-712	6479	12"	12"	19"	1"	6-1/2"	20-1/4"	4-3/4"	2"	9/16"	9-1/2"	12"	240

"The ball retriever is not long enough to get my putter out of the tree."

—Tom Weiskopf



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SPECIALTY

NABRICO manufactures expansion domes, portlights, fuel/oil tanks, drip pans, dog handles and many other custom castings and fabrications. While many of these items are stock items, NABRICO can custom fit many of our products to your specific requirements. For over 100 years, NABRICO has been using their engineering ingenuity to ensure that our products fit the specific needs of our customers.



SPECIALTY

FUEL/OIL TANK.....	200	DOCUMENT BOX.....	230
WARNING SIGN	203	DRY BOX	232
HEADS.....	206	EXPANSION PLATE.....	233
BILGE PLATES	208	DRIP PAN / COVER	234
D-RING	209	DOOR DOG KIT	236
CORNER PLATES	210	DOG HANDLE	238
SUCTION BELLMOUTH.....	211	DOUBLE WING HANDLE.....	239
RATCHET STRAP.....	215	TUMBLE BOLT.....	240
STUFFING GLAND	216	TUMBLE BOLT PIN.....	241
EXPANSION TRUNK	217	TUMBLE BOLT LUG	242
EXPANSION DOME.....	219	DOGGING PAD	243
INTERLOCKING PIN.....	220	TUMBLE BOLT LUG	244
FLAG POLE	221	DOGGING PAD	245
BARGE CRANE.....	226	FLANGED HEX NUT	246
RUNNING LIGHT STAND.....	227	SPREADER BAR.....	247
LADDER	228		
STEERING POLE.....	229		

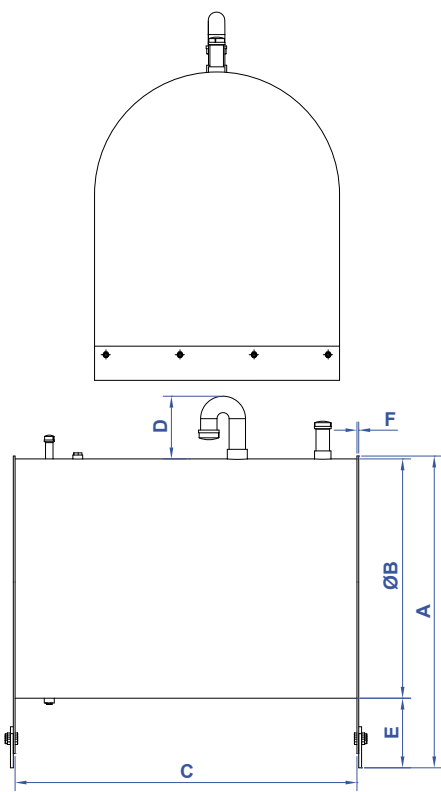
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300 GALLON FUEL OIL TANK



PIECE No.	DESCRIPTION
1	FILL w/ BRASS CAP AND CHAIN
2	VENT PIPE w/ FLAME SCREEN
3	RETURN CONNECTION
4	SUCTION CONNECTION
5	OPTIONAL SUPPLY CONNECTION
6	DRAIN w/ PLUG

MODEL No.	PART No.	SIZE	A	ØB	C	D	E	F	WT. (lbs.)
DF-448	6249	300 GALLON	55"	42"	60"	10"	12"	5/16"	715

“Boo” Boudreaux’s Report Card

“Boo” Boudreaux come home wit’ a really bad report card las’ week, an’ his daddy was really upset. When “Boo” got to school on Monday morning. he went up to hees teacher. and announced to her, “Teacher, I tink I better warn you. My Poppa said dat if I don’t start getting better grades soon, somebody is gonna get a real bad spanking!”



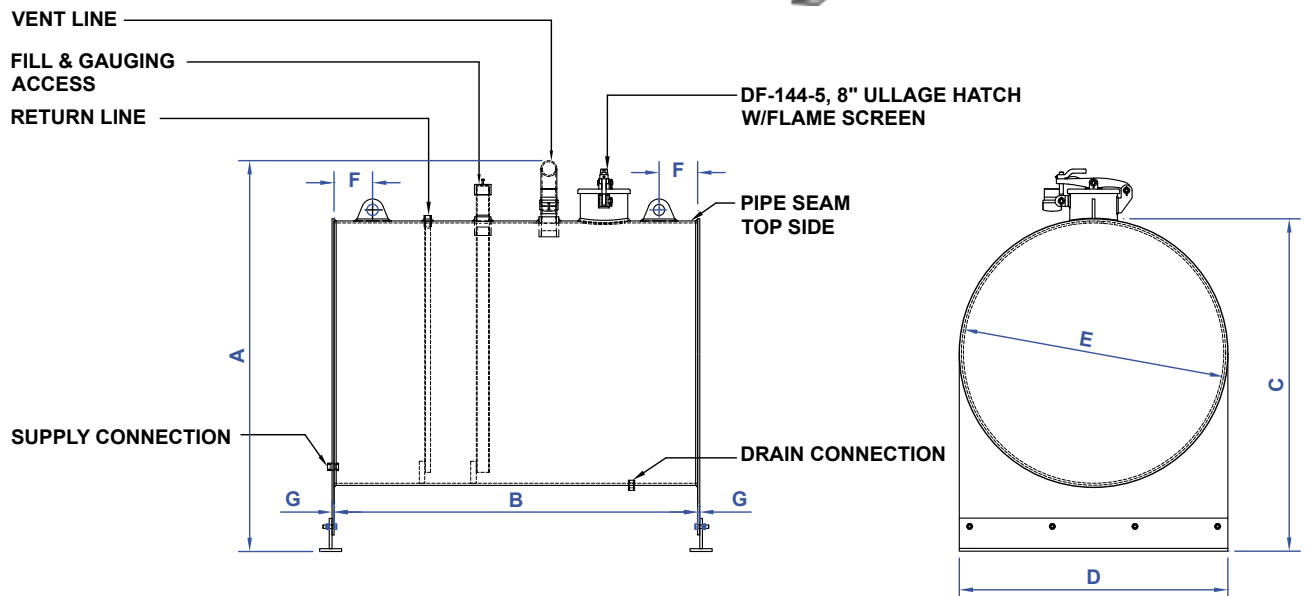
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500 GALLON FUEL TANK

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MODEL No.	PART No.	SIZE	A	B	C	D	ØE	F	G	WT. (lbs)
DF-457	87881	500 GALLON	71"	66"	60-3/8"	48-3/4"	48"	7"	3/8"	1800

Boo and Tee see a leettle green creature.

Pierre and Boudreaux were on a weekend hunt when dev witnessed a UFO landing. As de leettle green creatures descended from de craft Pierre said, "Mais what's dat?" Boudreaux answered, as he aimed hees gun, "I don't know me, Pierre. But you better go back to de camp and put some rice on."

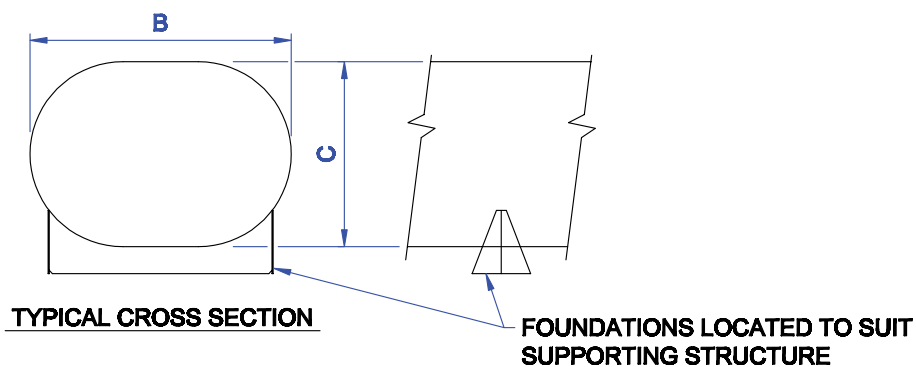
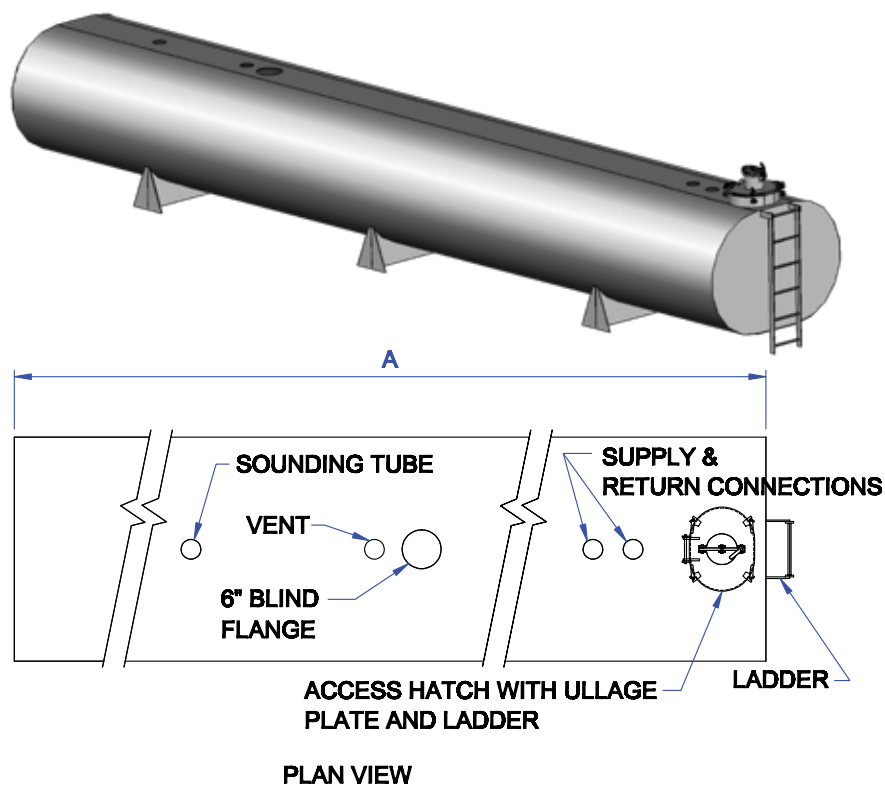
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7500 GALLON DECK TANK



MODEL No.	PART No.	SIZE	A	ØB	C	WT. (lbs.)
DF-136	87912	7500 GALLON	37'-6"	6'-8"	4'-9"	9800

1. CUSTOM SIZES AND STYLES AVAILABLE.

Marie called de newspaper.

Marie called de newspaper and tole dem dat her husband Boudreaux had died. De news paper person said, "Oh, aham so sorry to hear dat, would you like for me to switch you to de obituary section?" Marie answered, "No, jus' connect me wit de boats for sale department."

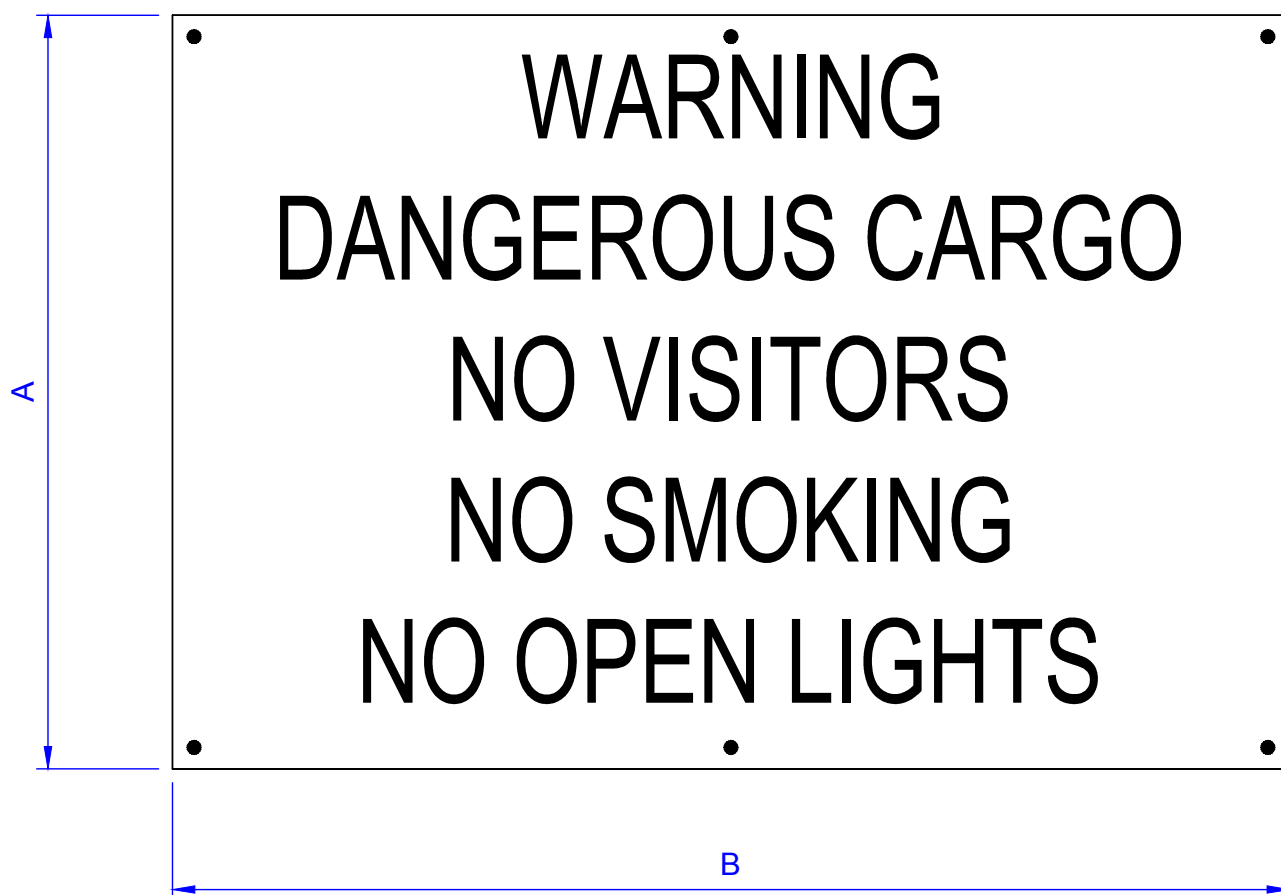


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ALUMINUM WARNING SIGN



NOTES: 1. THE SIGN CONFORMS TO 46CFR151.45-2(e) (1)
2. INFORMATION SHOWN ON BOTH SIDES OF SIGN

MODEL No.	PART No.	SIZE	A	B	WT. (lbs.)
DF-125	6718	27x40	27"	40"	5

Rene' wanted to bury his dead dog in de people cemetery behind de church. Rene' Champagne lived for many years wit' only hees dog for a companion. One sad day he found hees dog dead from old age. He went to hees parish priest and axed eef services could be said for hees dog. De good fader said, "Oh no. we can't have services for a dog here, but deres a new church down de street dat might be willing." Mr. Champagne axed, "Fader do you t'ink \$50,000 might be enough of a donation?" De good fader said, "Of course, why deedn' you tell me your dog was a Catholic?"

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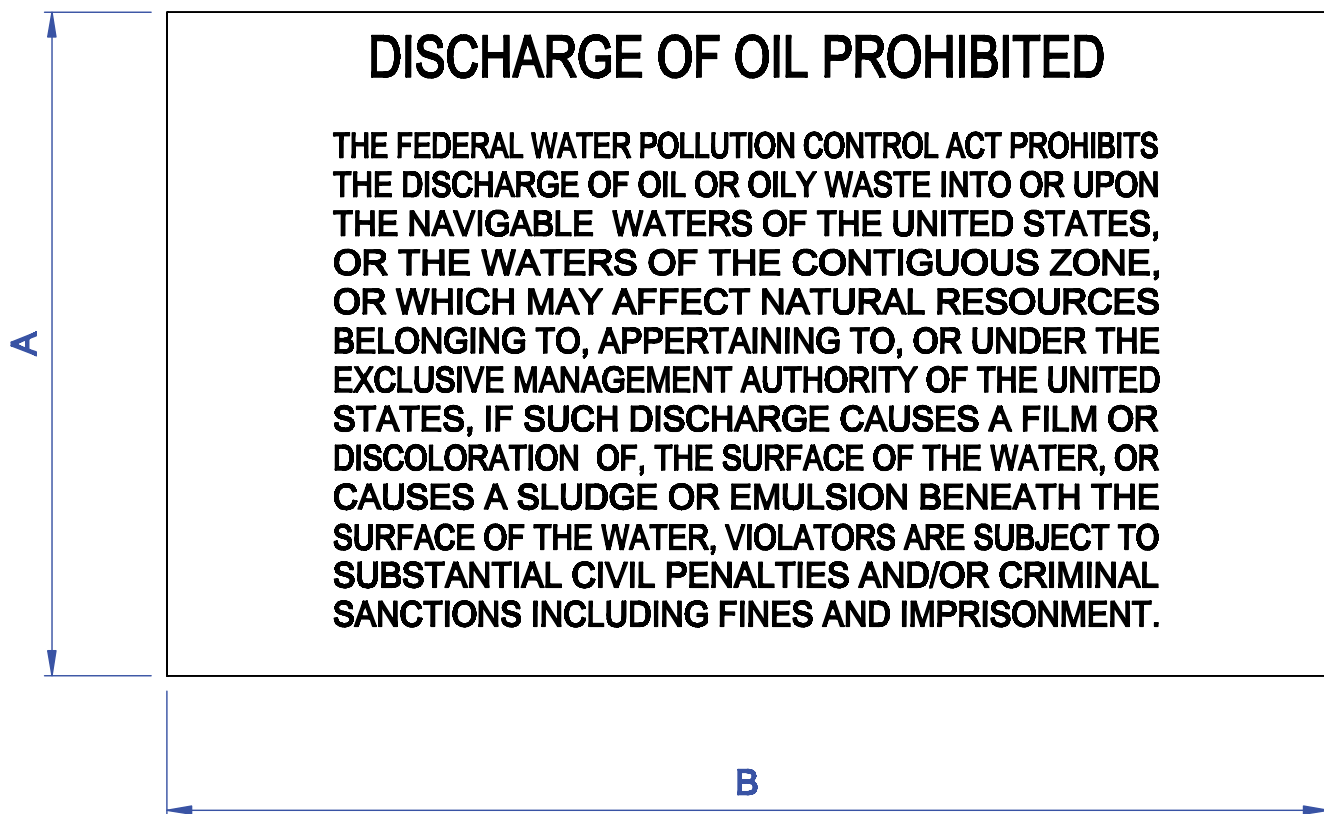
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OIL POLLUTION WARNING SIGN



- NOTES:**
1. THIS SIGN CONFORMS TO 33 CFR 155.450 (a)
 2. INFORMATION SHOWN ON ONE SIDE OF SIGN
 3. RED LETTERS ON WHITE BACKGROUND
 4. COMES WITH DOUBLE-SIDED FOAM TAPE FOR EASY MOUNTING

MODEL No.	PART No.	SIZE	A	B	WT. (lbs.)
DF-513	75434	8x14	8"	14"	1

Boudreaux gets de las' rites

Boudreaux waz lying on his dead bed, and waz receiving las' rites from his parish pries'. De good Fader tells Boudreaux, "Eet is time for you to denounce de devil and all his evil." Boudreaux says noting. Fader once again tells Boudreaux, "Eet is time for you to denounce de devil and all his evil." Still Boudreaux says noting. De pries' axed Boudreaux, "Why are you refusing to denounce de devil?" Den Boudreaux tells him. "Fader, until I know where I'm going, I don't want to take no chances to aggravate anybody!"



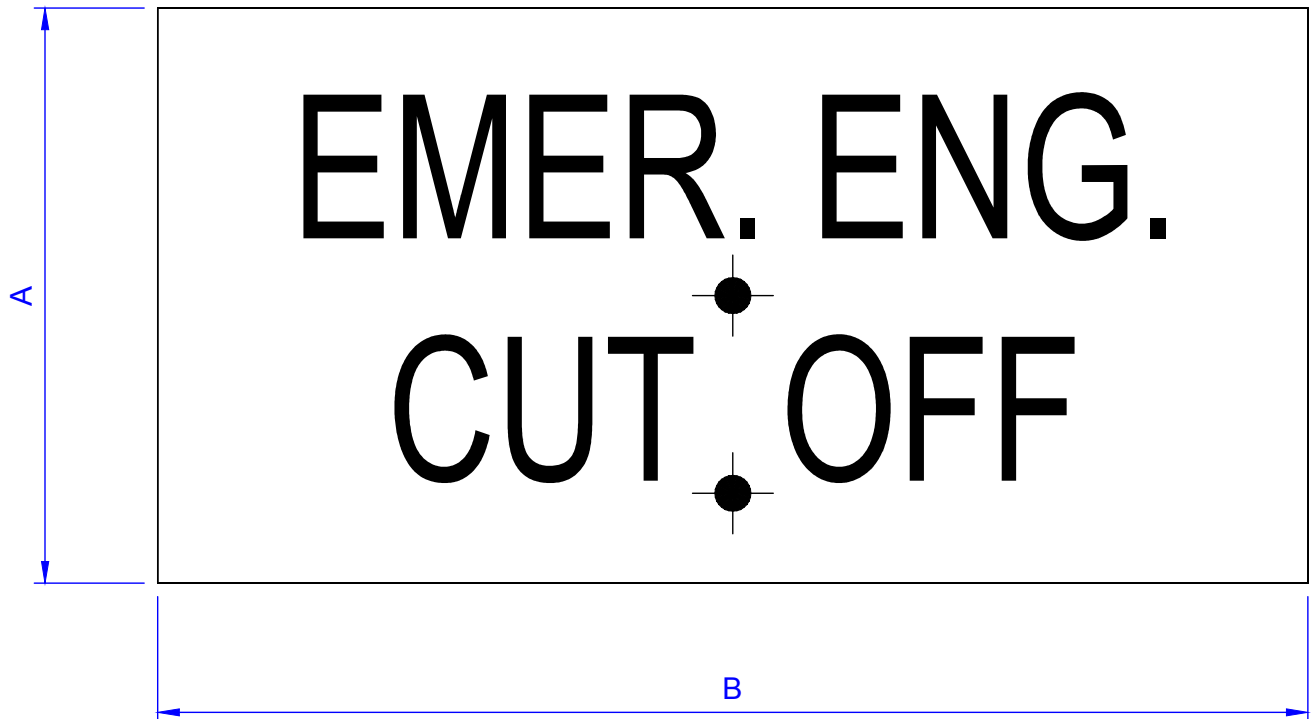
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ALUMINUM EMERGENCY ENGINE CUT OFF SIGN

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- NOTES:
1. INFORMATION SHOWN ON BOTH SIDES OF SIGN
 2. THIS SIGN CONFORMS TO 46 CFR 32.50-35 (a)

MODEL No.	PART No.	SIZE	A	B	WT. (lbs.)
DF-335	6351	8x16	8"	16"	4

Boudreaux meets a man on his Hawaiian vacation.

Boudreaux goes to Hawaii on vacation. Down at de pool, a man sits down next to Boudreaux. Boudreaux says. "Hey, how you doing? My name is Boudreaux and I'm here on vacation. My house caught eetself on fire. I got a leettle extra from de insurance company. Dat's how I came here on dis vacation." "Well that's interesting," responded the man "I'm here from California. My house flooded. I used the extra insurance money for this vacation." "Mais dats good," said Boudreaux "but let me axe you one ting. How de heck did you start de flood?"

SPECIALTY

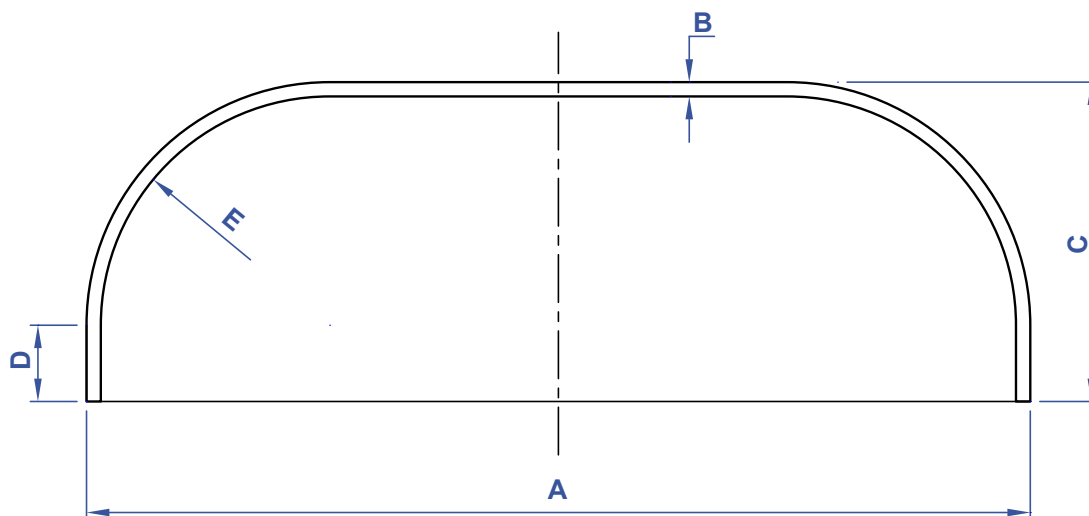
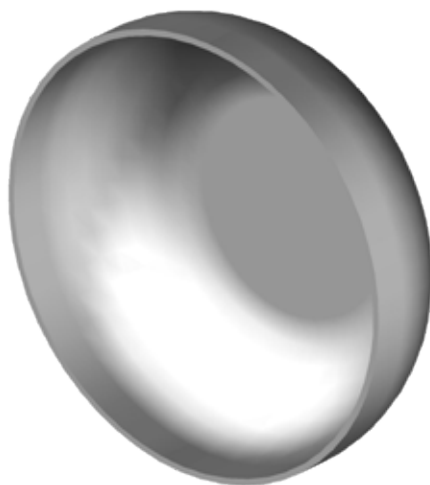
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FLANGED HEAD



MODEL NO.	PART NO.	A	B	C	D	E	WT (LBS.)
SE-22	90042	24-3/4"	3/8"	8-3/8"	2"	6"	95
SE-29	89923	25-1/2"	3/4"	6-3/4"	0"	6"	160
SE-33	90040	36-3/4"	3/8"	6-3/8"	3"	1-1/8"	140

De police Sargent axed Boudreaux what hees wife say before she died. Boudreaux's wife was killed in an accident. When de police questioned him, de Sargent axed, "Did she say anything before she died?" Boudreaux said, "She spoke wit'out interruption for bout forty years."



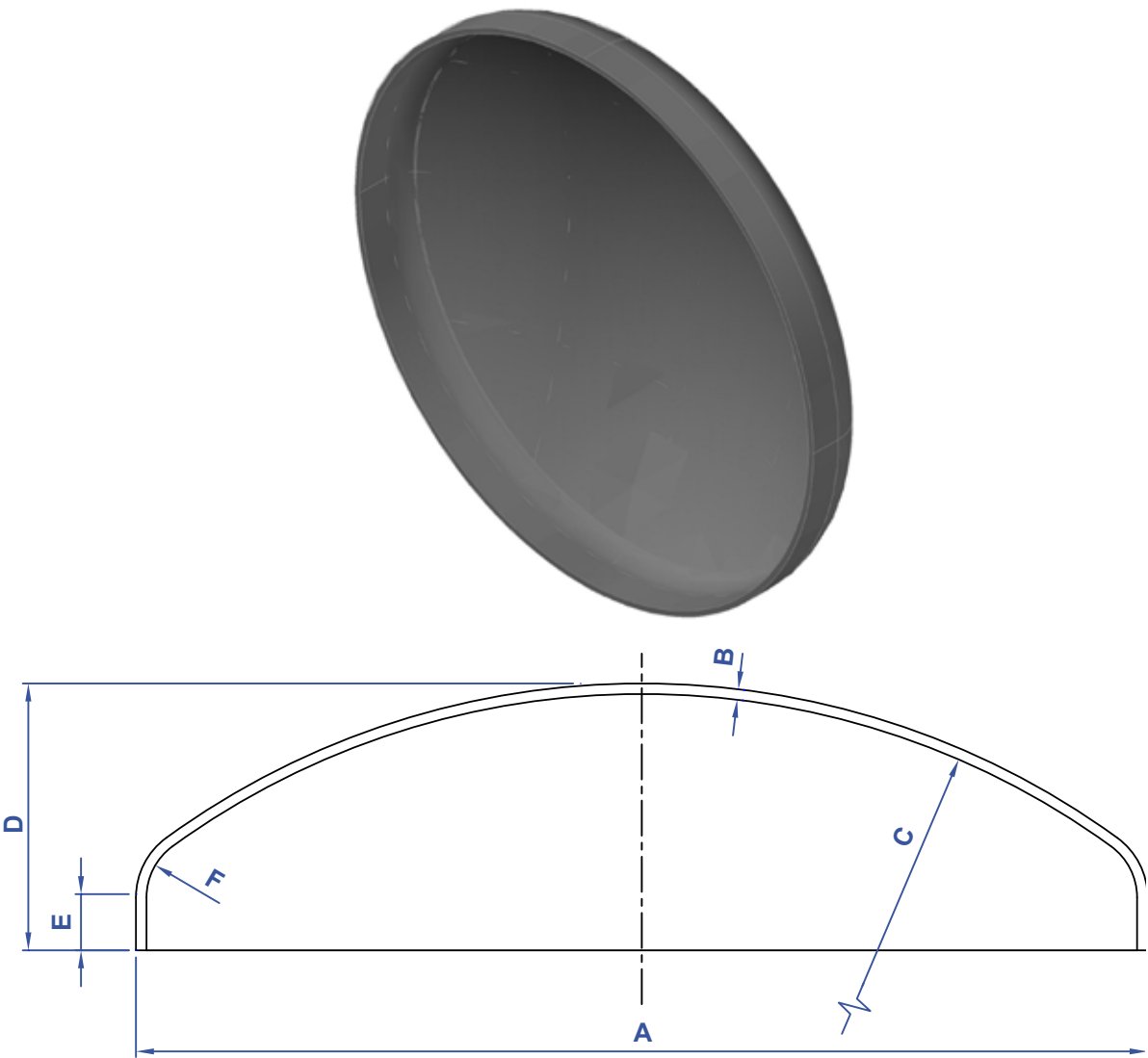
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FLANGED AND DISHED HEAD

BR



MODEL No.	PART No.	A	B	C	D	E	F	WT. (lbs.)
SE-31	90046	36"	3/8"	28-4/5"	9-1/2"	2"	2-1/4"	155

De New Job

Boudreaux walked in de house de udder day and tells Marie, "Cher, I jus' found a great job! Go to work at 10:00 and get off at 2:30 every day, never no overtime, off every weekend, and it pays \$600.00 a week." Marie says, "Mais dat sounds too good to be true." Boudreaux tells her, "Oh it's true alrat. You start Monday."

SPECIALTY

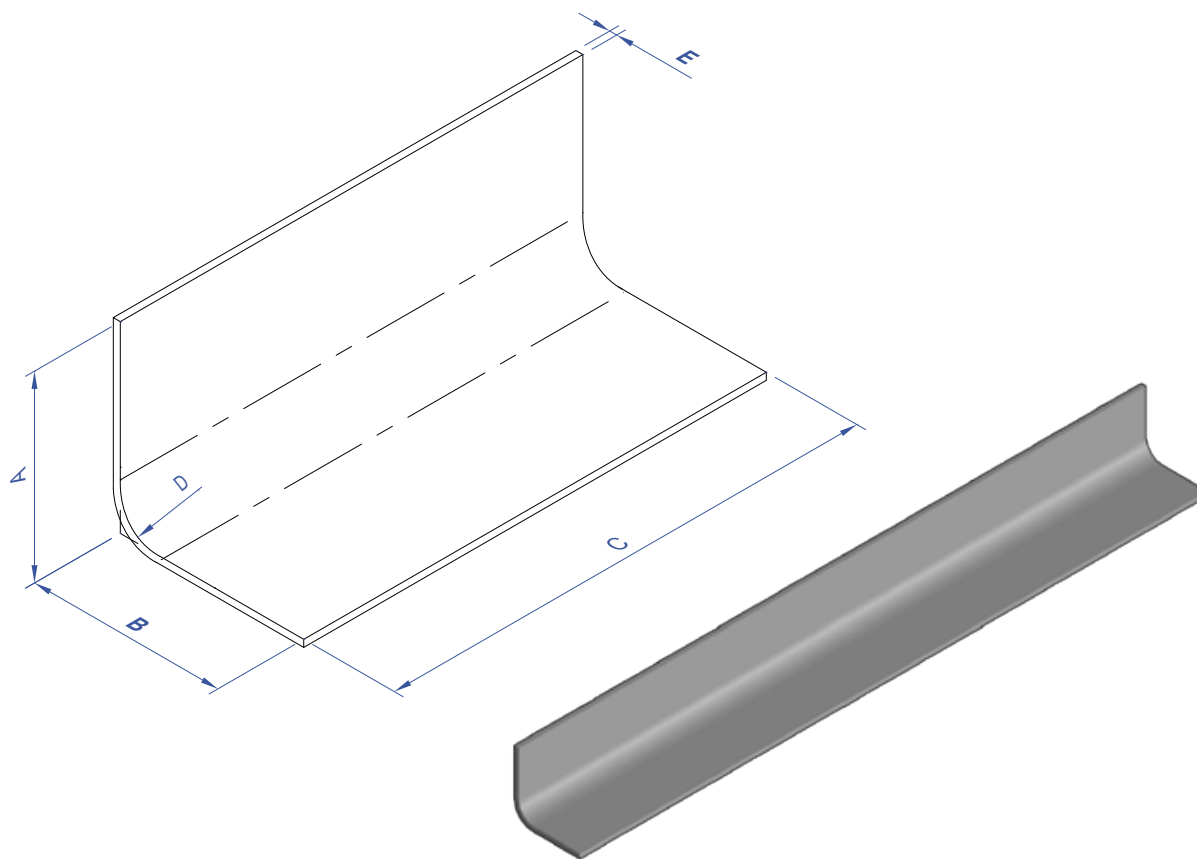
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BILGE PLATES



MODEL No.	SIZE	A	B	C	D	E	WT. (lbs.)
BP123/440-44	PL 96x3/4x40'-0	4'-2"	4'-2"	40'-0"	12"	3/4"	9801
BP63/440-44	PL 96x3/4x40'-0	4'-1"	4'-1"	40'-0"	6"	3/4"	9801
BP121/240-44	PL 96x1/2x40'-0	4'-2"	4'-2"	40'-0"	12"	1/2"	6534
BP61/240-44	PL 96x1/2x40'-0	4'-1"	4'-1"	40'-0"	6"	1/2"	6534
BP123/440-62	PL 96x3/4x40'-0	6'-2"	2'-2"	40'-0"	12"	3/4"	9801
BP63/440-62	PL 96x3/4x40'-0	6'-1"	2'-1"	40'-0"	6"	3/4"	9801
BP121/240-62	PL 96x1/2x40'-0	6'-2"	2'-2"	40'-0"	12"	1/2"	6534
BP61/240-62	PL 96x1/2x40'-0	6'-1"	2'-1"	40'-0"	6"	1/2"	6534

Dare are only tree directions in Sout' Louisiana. When you axe for directions in Sout' Louisiana dare is only tree answers:

1. Down de bayou
2. Up de bayou
3. Cross de bayou (Dis is specially true in Houma, Louisiana.)



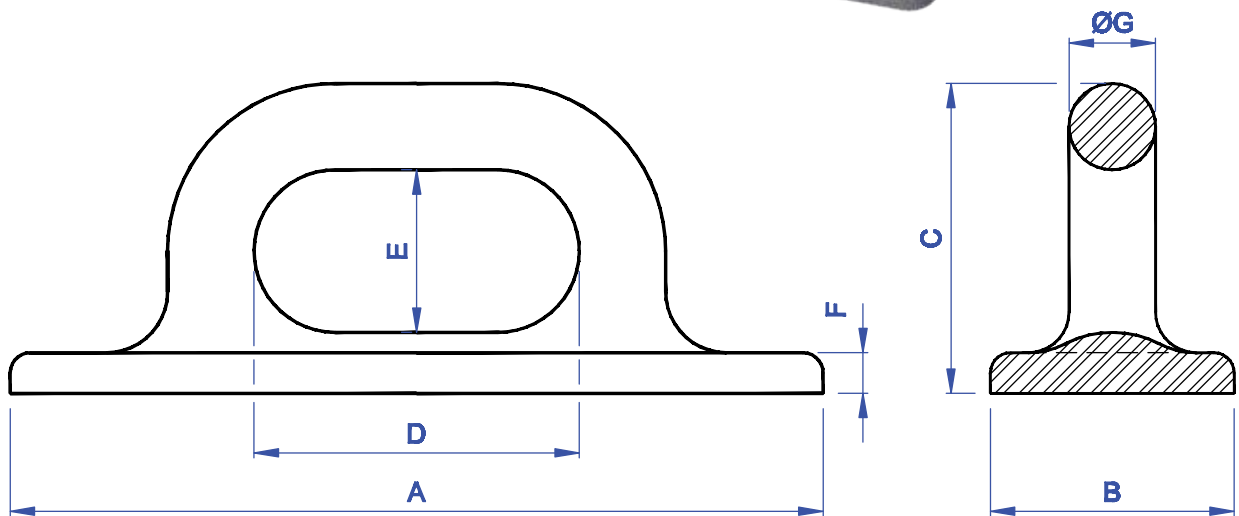
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CAST STEEL D-RING

BR



MODEL No.	PART No.	A	B	C	D	E	F	ØG	WT. (lbs.)
DF-196	16713	20"	6"	7-5/8"	8"	4"	1"	2-1/8"	55

Guidry saved de olives.

Guidry went to de bar and ordered martini after martini. Each time he took de olives and put dem in a jar. When de jar was full and all de drinks finished, Guidry started to leave. "S'cuse me." said a customer at de udder end of de bar. He was puzzled over what Guidry had done. "What was dat all bout?" "Nutin." said de Guidry. "My wife jus sent me out for a jar of olives."

SPECIALTY

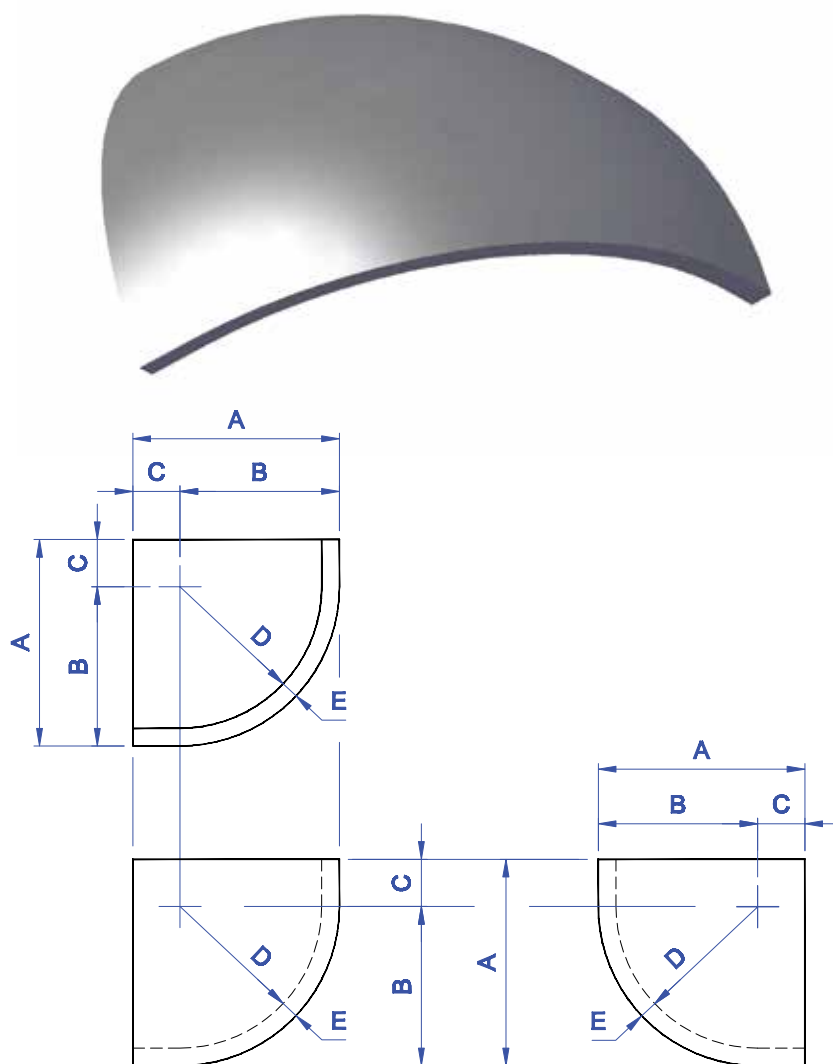
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STEEL CORNER PLATES



MODEL No.	PART No.	SIZE	A	B	C	D	E	WT. (lbs.)
DF-486-6	87998	6"	8-3/4"	6-3/4"	2"	6"	3/4"	54
DF-487-12	88005	12"	14-3/4"	12-3/4"	2"	12"	3/4"	167

Boudreaux's wife has'a crab boil

Boudreaux waz waiting by his house cause his wife waz missing. He head a knock at de door, so he answered eet. His buddy Tibodeaux waz at de door. Tibodeaux says, "Boudreaux I got some good news and I got some bad news. De bad news is dat we foun' your wife drowned in de lake. De good news is when we picked her up out de lake she had 3 dozen crabs holt'ing on, so bring some beer cause we're gonna have a crab boil".



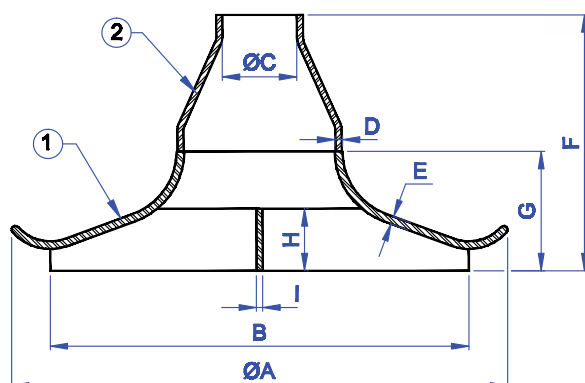
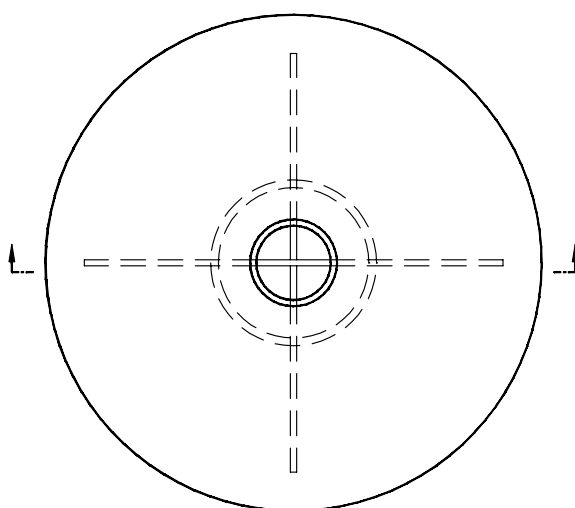
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REDUCED STEEL SUCTION BELLMOUTH

BR



MODEL No.	PART No.	SIZE	ØA	B	ØC	D	E	F	G	H	I	WT. (lbs.)
DF-82-3	6790	3"	20"	16-7/8"	3"	1/2"	5/16"	10-5/16"	4-13/16"	2-1/2"	1/4"	41
DF-82-4	6791	4"	20"	16-7/8"	4"	1/2"	5/16"	10-5/16"	4-13/16"	2-1/2"	1/4"	41

Doya know who dat is?

Boudreaux and Marie were mad at each udder. Dey drove several miles down de road wit'out saying a word after de argument dey had earlier. Neider one of dem waz gonna give in to de udder an' admit dat dey might be wrong. As dey passed a barnyard wit a bunch of mules and pigs standin' aroun'. Marie sarcastically axed Boudreaux, "Ees dat relatives of yours?" Boudreaux answered, "Yep, dats ma in-laws".

SPECIALTY

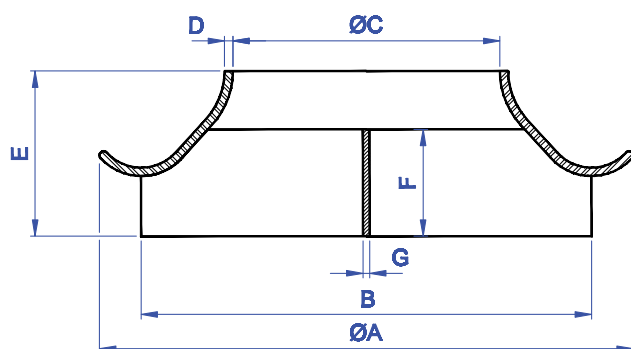
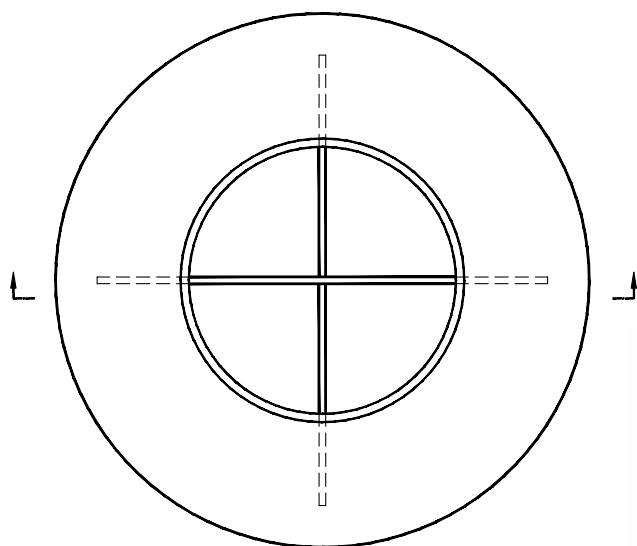
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STEEL SUCTION BELLMOUTH



MODEL No.	PART No.	SIZE	ØA	B	ØC	D	E	F	G	WT. (lbs.)
DF-82-6	6793	6"	20"	16-7/8"	6-1/16"	5/16"	4-13/16"	2-1/2"	1/4"	34
DF-82-8	13749	8"	20"	16-7/8"	8-1/16"	5/16"	5-3/8"	3"	1/4"	36
DF-82-10	17191	10"	20"	16-7/8"	10"	5/16"	6-3/16"	4"	1/4"	40

De little t'ings

Boudreaux and Marie waz having some trouble, so dey did de right thing and went to a marriage counselor. After a few visits, and a lot of questioning and listening, de counselor said that he had discovered de main problem. He stood up, went over to Marie, axed her to stand, and gave her a hug. He looked at Boudreaux and said, "This is w'at your wife needs, at least once a day!" Boudreaux frowned, thought for a moment den said, "OK, w'at time do you want me to bring her back tomorrow?"

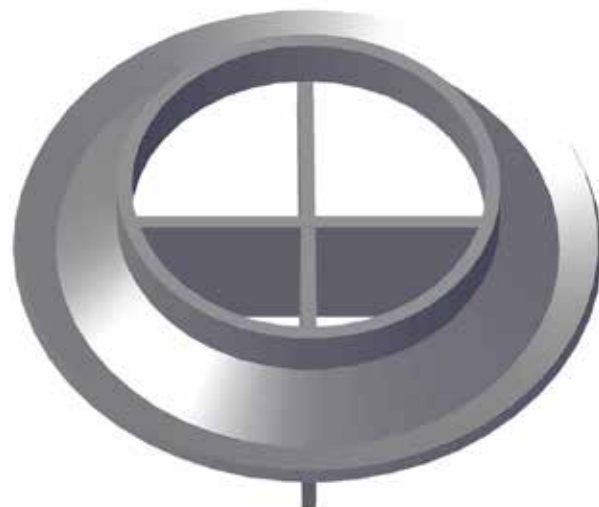
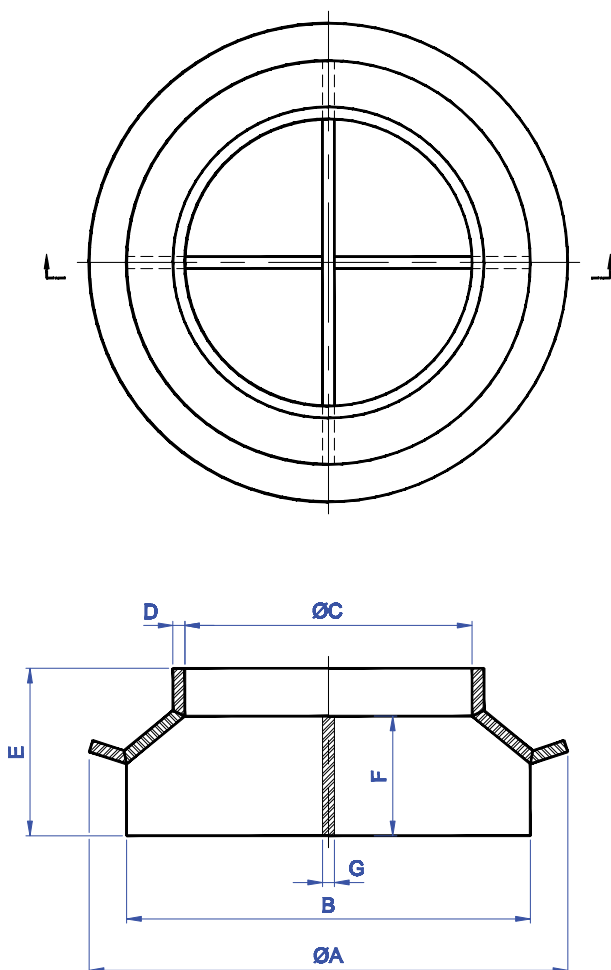


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STEEL SUCTION BELLMOUTH



MODEL No.	PART No.	SIZE	ØA	B	ØC	D	E	F	G	WT. (lbs.)
DF-82-12	17192	12"	20"	16-7/8"	12"	1/2"	7"	5"	1/2"	65
DF-82-14	17199	14"	20"	16-7/8"	13-1/4"	3/8"	8"	6"	1/2"	75

De Deer Hunt Boudreaux.

Thibodeaux and a bunch of deir buddies waz out on a deer-hunting trip. Late one afternoon, Boudreaux walks into camp carrying a huge buck on his back. One of de guys axed, "Where is Thibodeaux?" Boudreaux tells him, "He's back dare in de woods a couple of miles. I t'ink he dun had heemself a heart attack or sumt' ing." De buddies were all shocked dey asks, "Doyo mean dat you carried dat buck back, and lef poor Thibodeaux laying out der in de woods?" Boudreaux says. "Mais, yeh. it was a tough choice to make, but I figured nobody's gonna steal Thibodeaux!"

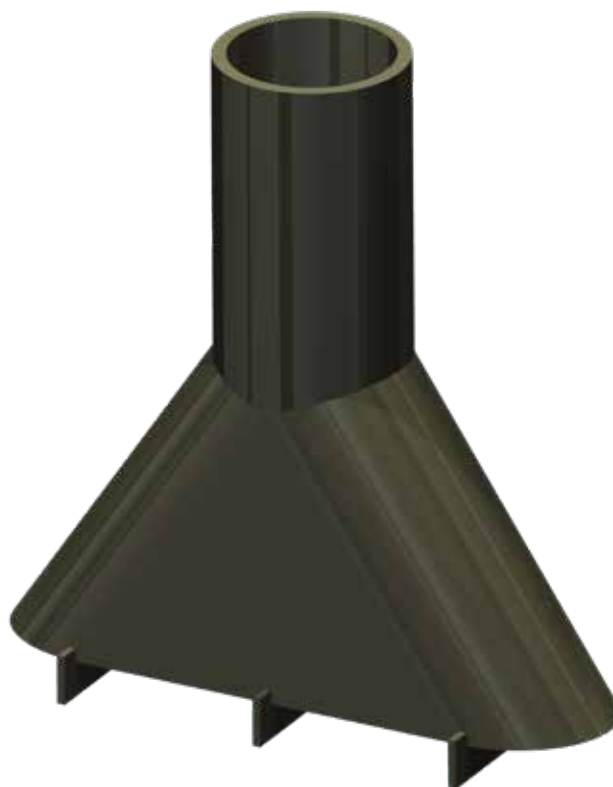
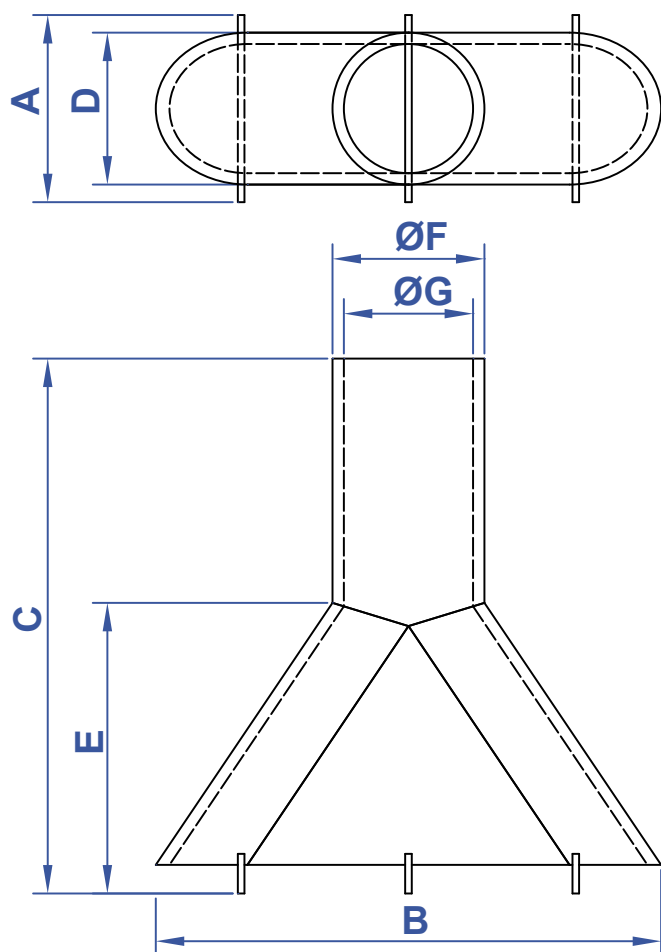
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BROOMSTYLE SUCTION BELLMOUTH



MODEL No.	PART No.	SIZE	A	B	C	D	E	ØF	ØG	WT. (lbs.)
DF-83-6	17194	6"	8-5/8"	23-3/4"	26-5/8"	11-9/16"	1-5/8"	6-5/8"	6"	150
DF-83-8	17196	8"	10-5/8"	28-1/2"	30-3/8"	14-7/8"	1-5/8"	8-5/8"	8"	190
DF-83-10	17193	10"	12-3/4"	28-1/2"	30-3/8"	14-7/8"	1-5/8"	10-3/4"	10"	230

Boudreaux won the gold medal in Olympic pirogue racing. His mama was so proud she had it bronzed.



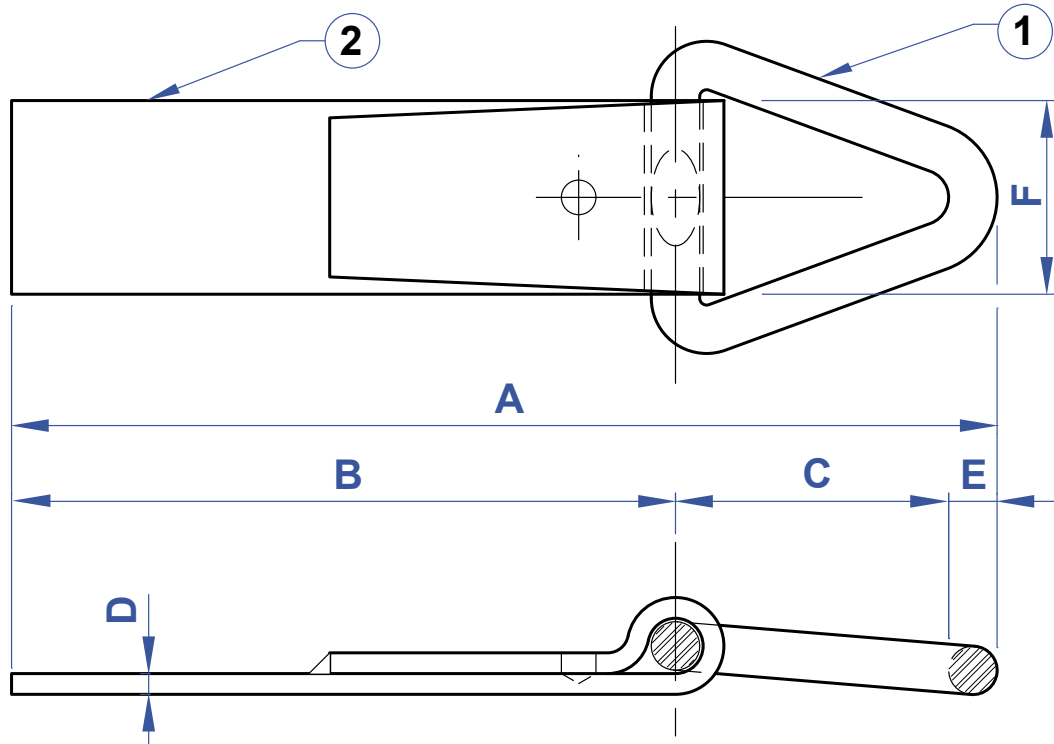
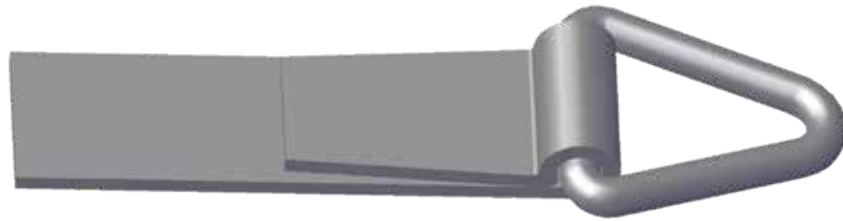
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RATCHET STRAP

BR



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	RATCHET STRAP RING	75736	STEEL
2	RATCHET STRAP PLATE	75744	STEEL

MODEL No.	PART No.	A	B	C	D	E	F	WT. (lbs.)
DF-80	6807	35-5/8"	24"	9-7/8"	3/4"	1-3/4"	7"	83

Two Cajuns were waiting at the bus stop when a truck went past loaded up with rolls of turf. Boudreaux said, "I'm a'gonna do dat when I win da lottery!" "What's dat?" asks Thibodeaux. "Send da lawn off to be mowed."

SPECIALTY

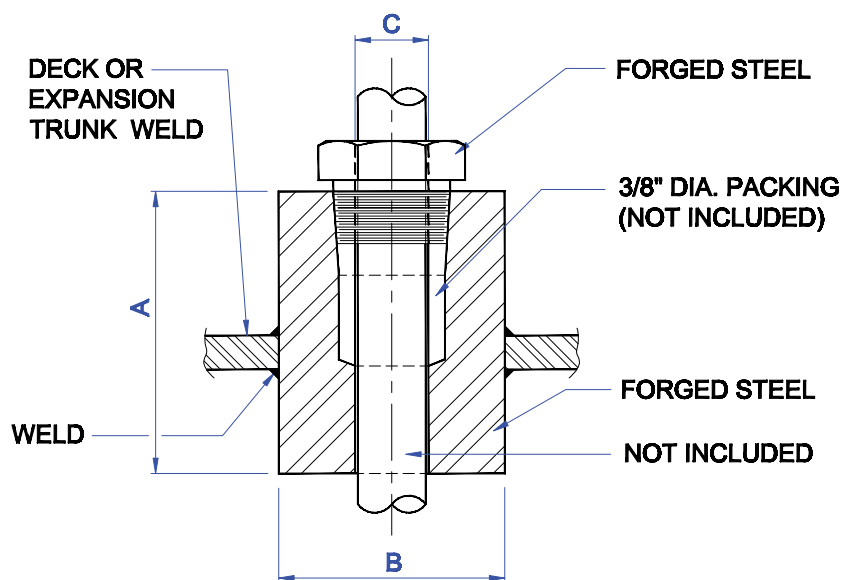
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STUFFING GLAND



MODEL No.	PART No.	SIZE ROD	A	B	C	WT. (lbs.)
DF-437-3/4	75191	3/4"	3-1/8"	2-1/2"	13/16"	4
DF-437-1	6254	1"	3-1/8"	2-1/2"	1-1/16"	4
DF-437-1 1/4	75175	1-1/4"	3-3/8"	3"	1-5/16"	5
DF-437-1 1/2	75183	1-1/2"	3-3/8"	3"	1-9/16"	5

Boudreaux is still sick

A few days later, Boudreaux goes back to ole Doc Thibodeaux wit a bad cold. De good Doc gives heem some pills to help relieve de symptoms. Mais dev don't do any good. So Boudreaux goes back a couple of days later, still suffering wit' de cold. Doc Thibodeaux tells him, "Go home. take a hot bath, and den open all de doors and windows and stand nekked in de draft for about a half hour." Boudreaux says, "Mais Doe, I'll catch pnewmonia, for sure, if I do dat." Doc Thibodeaux tells him, "Mais. yeh. mais I know how to cure pnewmonia!"

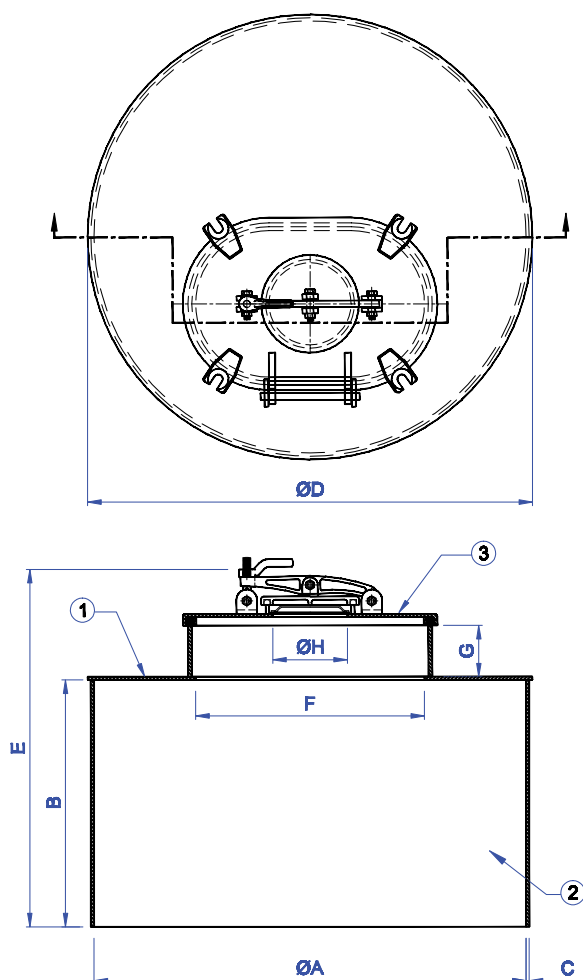


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EXPANSION TRUNK



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER PLATE	76163	STEEL
2	COAMING ASSEMBLY	76171	STEEL
3	DF-174 HATCH W/ DF-144 ULLAGE HATCH	8214	STEEL

MODEL No.	PART No.	SIZE	ØA	B	C	ØD	E	F	G	ØH	WT. (lbs.)
DF-449	6238	42x24	42"	24"	5/16"	43-1/4"	34-3/4"	22-1/4"x 13-1/4"	5"	7-1/4"	520

1. AVAILABLE IN A VARIETY OF SIZES AND MATERIALS.

Probably from Louisiana if...
You've ever wore shorts at Christmas time.

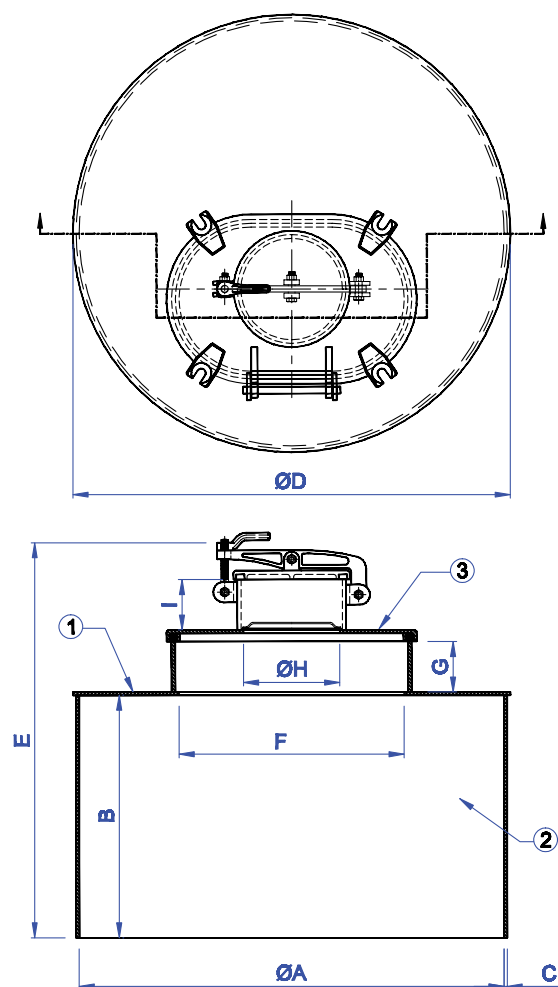
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EXPANSION TRUNK



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	COVER PLATE	76163	STEEL
2	COAMING ASSEMBLY	76171	STEEL
3	DF-174 HATCH W/ DF-569-5 ULLAGE HATCH	85316	STEEL

MODEL No.	PART No.	ØA	B	C	ØD	E	F	G	ØH	I	WT. (lbs.)
DF-470	85308	42"	24"	5/16"	43-1/4"	39-1/16"	22-1/4"x 13-1/4"	5"	9-1/4"	5"	540

1. AVAILABLE IN A VARIETY OF SIZES AND MATERIALS.

Probably from Louisiana if...
You pronounce Lafayette as "Laffy-ette" not "La-fy-ette".

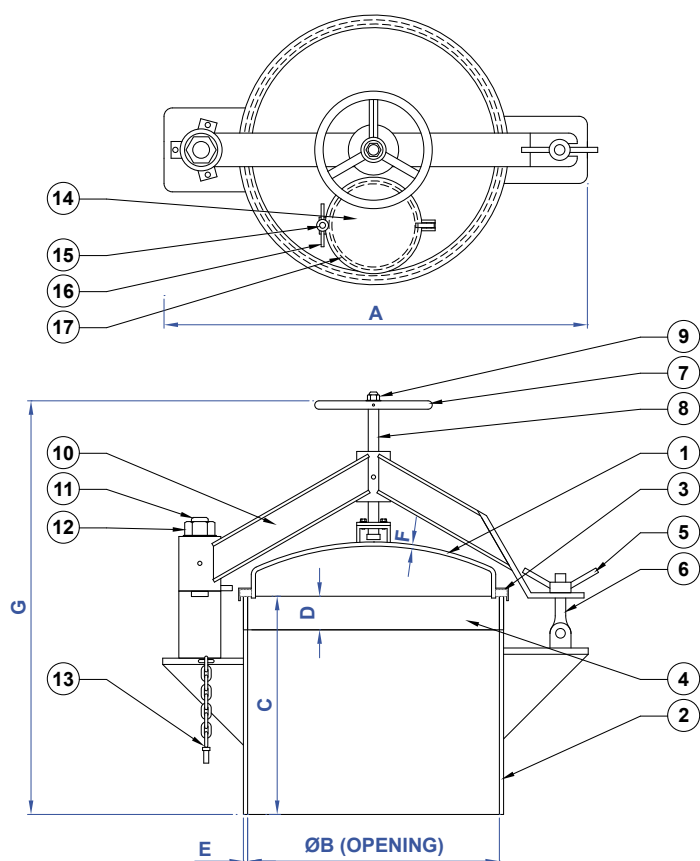


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RAISED WATERTIGHT EXPANSION DOME



No.	DESCRIPTION	MATERIAL
1	HATCH COVER ASSEMBLY	STEEL
2	COAMING ASSEMBLY	STEEL
3	HATCH GASKET	NEOPRENE
4	UPPER COAMING RING	STAINLESS
5	WING NUT	BRASS
6	DROP BOLT	STAINLESS
7	HANDWHEEL ASSEMBLY	STEEL
8	CENTER SHAFT	STAINLESS
9	HEX NUT	STAINLESS
10	I-BEAM SWIVEL ARM	STEEL
11	HINGE PIN ASSEMBLY	STAINLESS
12	HEX NUT	STAINLESS
13	KEEPER PIN & CHAIN	GALVANIZED
14	10" ULLAGE HATCH ASSEMBLY	STEEL
15	ULLAGE HATCH DROP BOLT	STAINLESS
16	ULLAGE HATCH WING NUT	BRASS
17	ULLAGE HATCH GASKET	NEOPRENE

The expansion dome is shown with a 10" ullage hatch installed in the hatch cover assembly. This add-on feature has the option to be Stainless Steel or removed entirely from the hatch assembly. Additional add-on features available are a Stainless Steel sight glass with cover, blind flange or any custom sized ullage.

The dome is also equipped with a stainless steel coaming ring which can be left off or custom sized for specific needs.

MODEL No.	PART No.	SIZE	A	ØB	C	D	E	F	G	WT. (lbs.)
DF-450-3026	21010	30"	51"	30"	26"	4"	1/2"	1/2"	50"	750
DF-450-4224	21033	42"	63"	42"	24"	4"	1/2"	1/2"	49"	950

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

3. OTHER GASKET MATERIALS AVAILABLE.
4. AVAILABLE IN LEFT HAND AND RIGHT HAND MODELS.

Probably from Louisiana if...

You learned to drive a boat before you could drive a car.

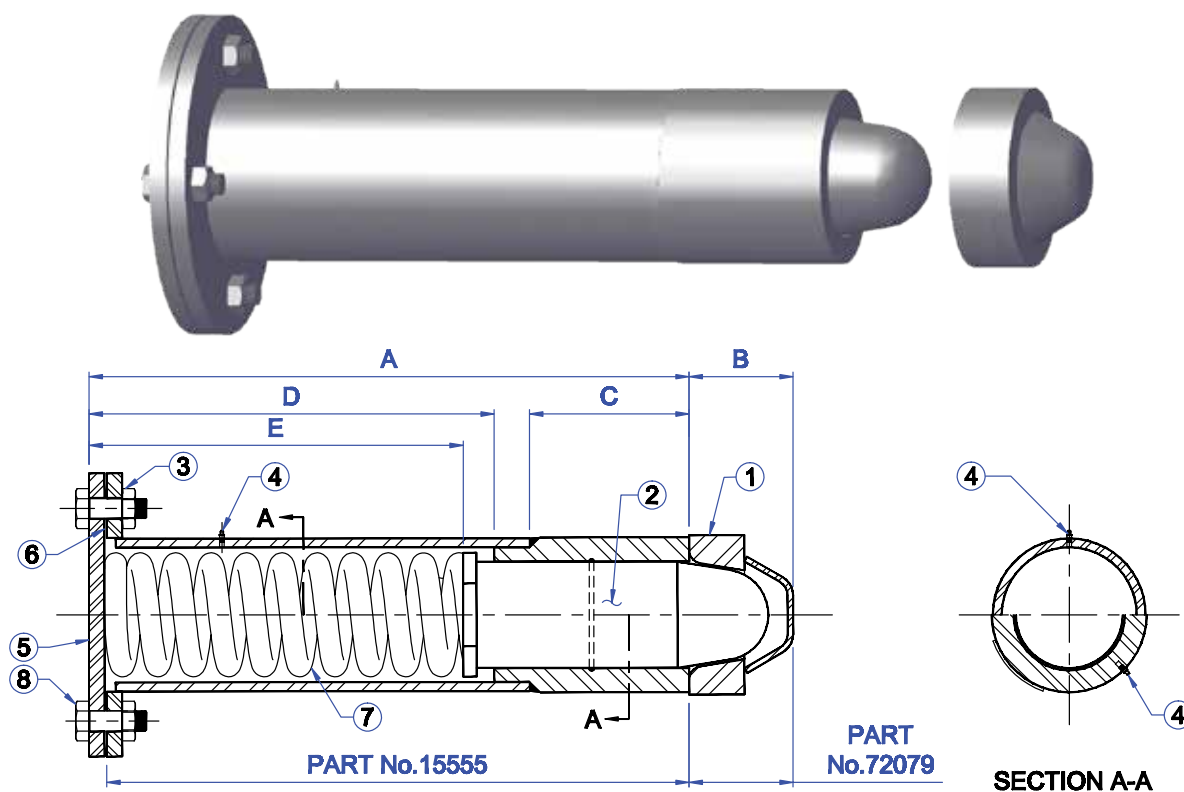
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INTERLOCKING PIN



PIECE No.	DESCRIPTION	PART No.	MATERIAL
1	LOCKING PIN SOCKET ASSEMBLY	72079	STEEL
2	LOCKING PIN ASSEMBLY	72109	STEEL
3	1-1/8" DIA. HEAVY HEX NUT	15989	STEEL
4	GREASE FITTING	9873	STAINLESS STEEL
5	SPRING KEEPER PLATE	72176	STEEL
6	GASKET	75140	NEOPRENE
7	INTERLOCKING SPRING	7064	STEEL
8	1-1/8" X 3-1/4" HEAVY HEX BOLT	72222	STEEL

MODEL No.	PART No.	A	B	C	D	E	WT. (lbs.)
DF-134	15555	33-7/8"	5-7/8"	9"	22-7/8"	21-1/8"	470

DF-134 - PIN ASSEMBLY #15555 AND SOCKET ASSEMBLY #72079 ARE ORDERED SEPARATELY.

Probably from Louisiana if...
Your burial plot is six feet over rather than six feet under.



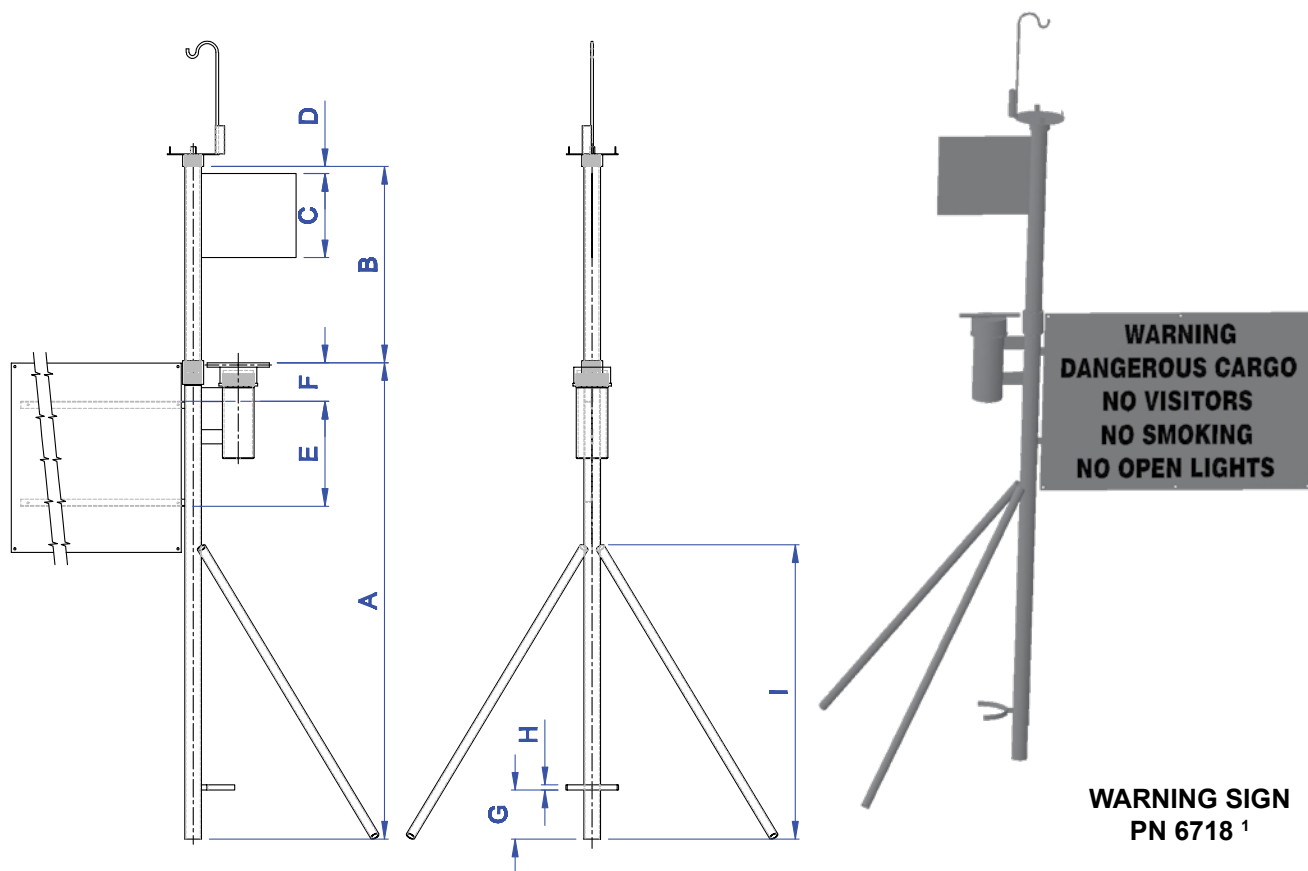
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FLAG POLE

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MODEL No.	PART No.	A	B	C	D	E	F	G	H	I	WT. (lbs.)
DF-84	6785	68"	28"	12"	1"	15"	5-1/2"	7"	3/4"	42"	100

1. WARNING SIGN PN 6718 PURCHASED SEPARATELY FROM FLAG POLE.

Probably from Louisiana if...

When you refer to a geographical location "way up North," you are referring to places like Shreveport, Little Rock or Memphis, "where it gets real cold!"

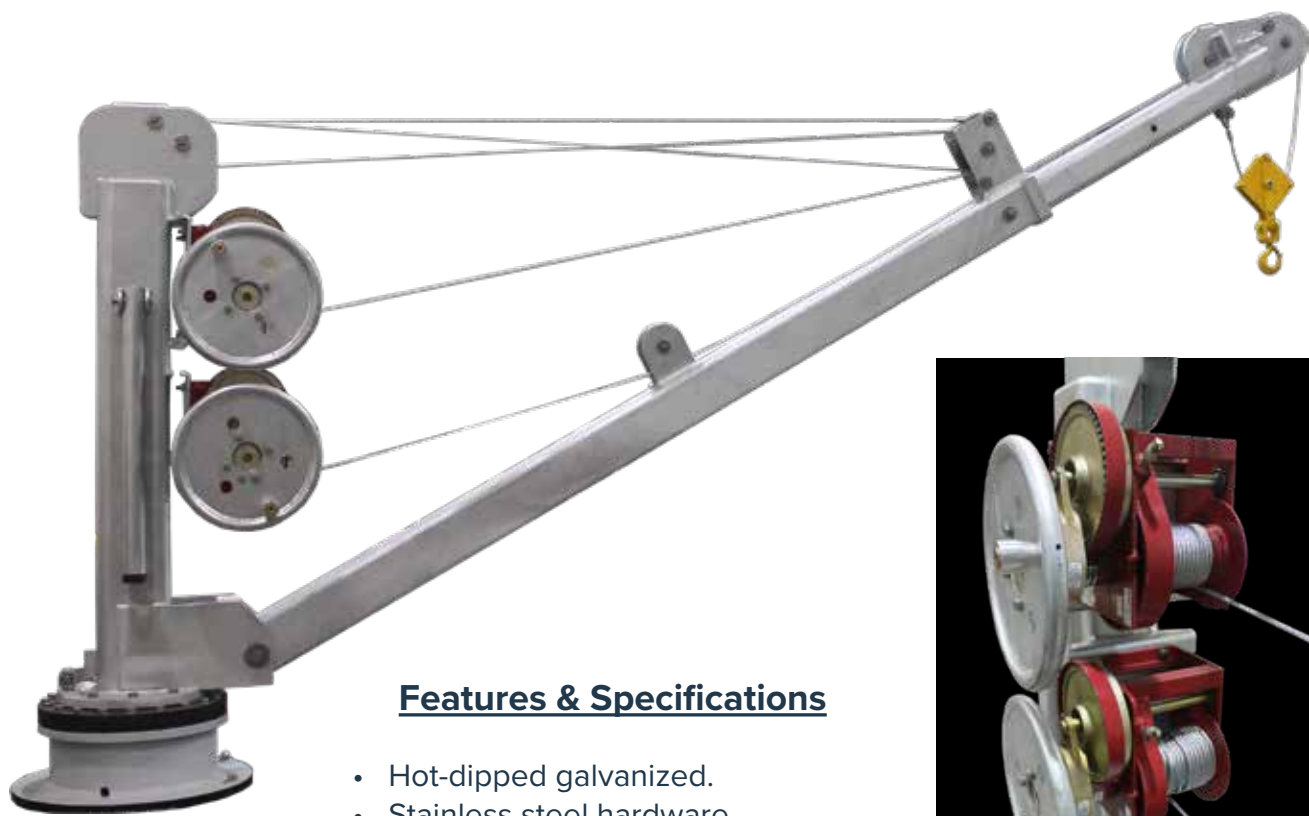
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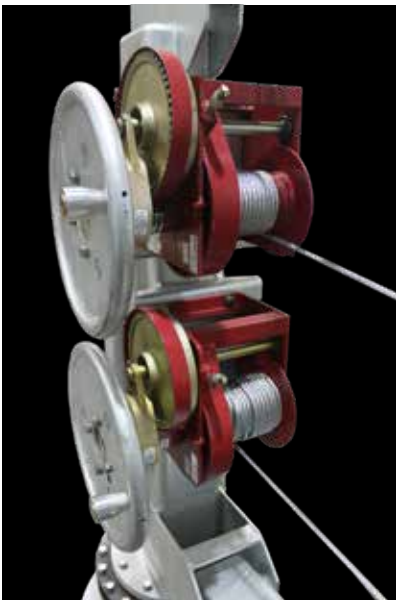
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DF-360 CRANE



Features & Specifications

- Hot-dipped galvanized.
- Stainless steel hardware.
- 360° swivel.
- 3 position adjustable length boom.
- Bearing is 7" above deck.



MODEL No.	PART No.	CAPACITY	WEIGHT
DF-360	36000	2,750 LBS	2,156 LBS

SPECIALTY

“What human motivation is responsible for getting the most wonderful things done? I would say greed. When I use the term greed, I do not mean cheating, stealing, fraud and other acts of dishonesty, I mean people seeking to get the most for themselves. One might be tempted to use “enlightened self interest” but I like greed better. Unfortunately, many people are naive enough to believe that it is compassion, concern, and “feeling another’s pain” that’s the superior human motivation. As such we fall easy prey to charlatans, quacks and hustlers.”

—Walter E. Williams

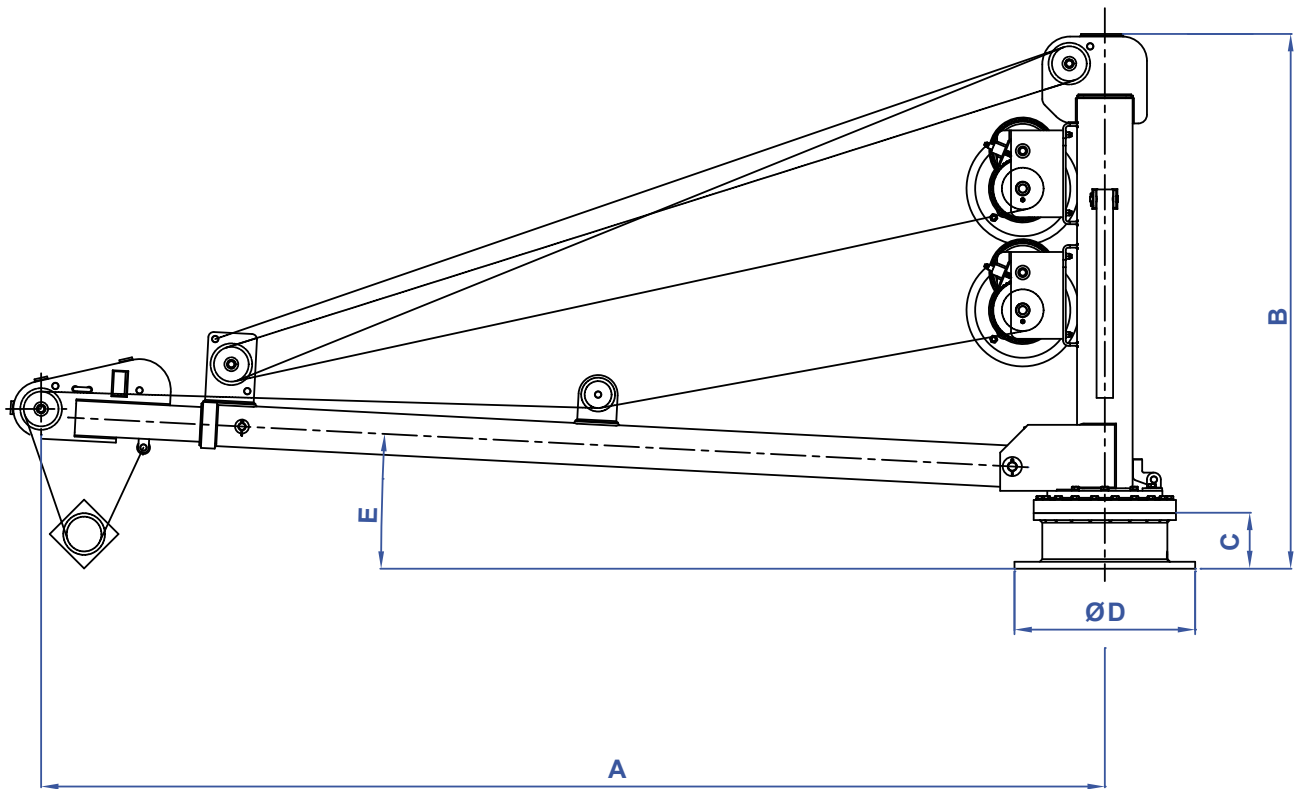


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DF-360 CRANE



MODEL No.	A	B	C	ØD	E
DF-360 (1st Position)	12' - 9"	6' - 5"	7"	2' - 2"	3°
DF-360 (2nd Position)	15' - 0"	6' - 5"	7"	2' - 2"	3°
DF-360 (3rd Position)	17' - 3"	6' - 5"	7"	2' - 2"	3°

“The rise of capitalism brought greater morality into our relationships. There is the biblical passage, “It is as difficult for a rich man to get into Heaven as for a camel to go through the eye of a needle.” That biblical phrase was quite appropriate for the time because wealth was most often acquired through capturing, plundering and looting your fellow man. But, with the rise of capitalism, people like Bill Gates are rich because they have served their fellow man. Gates has made his fellow man very happy by building Microsoft computers and software. Fred Smith with Federal Express serves his fellow man, too. The morality of the free market should be stressed because it is far superior to any other method of allocating resources.”

—Walter E. Williams

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DF-126 BARGE CRANE



FEATURES

- 2500 pound non-shock lifting capacity at maximum radius of 16'-7". The barge crane operates equally as well at 5'-6" minimum radius.
- 270 degree swing capacity resulting in maximum flexibility for lifting and positioning equipment.
- One man boom operation leaving other personnel free to position and secure load. Reduces time required for such tasks as hose connecting, removing pumping equipment for repairs and loading oil drums or miscellaneous equipment.
- Low silhouette. By removing backleg pins, the crane king post folds down to a height of 3'-10" to minimize low bridge problems.
- Quality tested to 150% of non-shock working load.

"Market capitalism is the best thing that ever happened to the common man. The rich have always had access to entertainment, often in the comfort of their palaces and mansions. The rich have never had to experience the drudgery of having to beat out carpets, iron their clothing or slave over a hot stove all day in order to have a decent dinner. They could afford to hire people. Capitalism's mass production and marketing have made radios and televisions, vacuum cleaners, wash-and-wear clothing and microwave ovens available and well within the means of the common man; thus, sparing him of the boredom and drudgery of the past. Today, the common man has the power to enjoy much (and more) of what only the rich could afford yesteryear."

—Walter E. Williams



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DF-126 BARGE CRANE

BR



SPECIFICATIONS

Boom and king post assembly
Plate.....ASTM A36
Square Tubing.....ASTM A36
Sheaves.....Cast Iron
Bushings.....Bronze/Thorplas
Pins.....304SS
Pipe.....ASTM A53

WINCHES

- Hand operated with adjustable handle.
- 31:1 gear ratio for winching.
- Self-locking worm gear eliminating the need for a locking dog or brake.
- Enclosed gearbox to provide continuous gear lubrication.

“Adversity is the state in which man mostly easily becomes acquainted with himself, being especially free of admirers then.”

—John Wooden

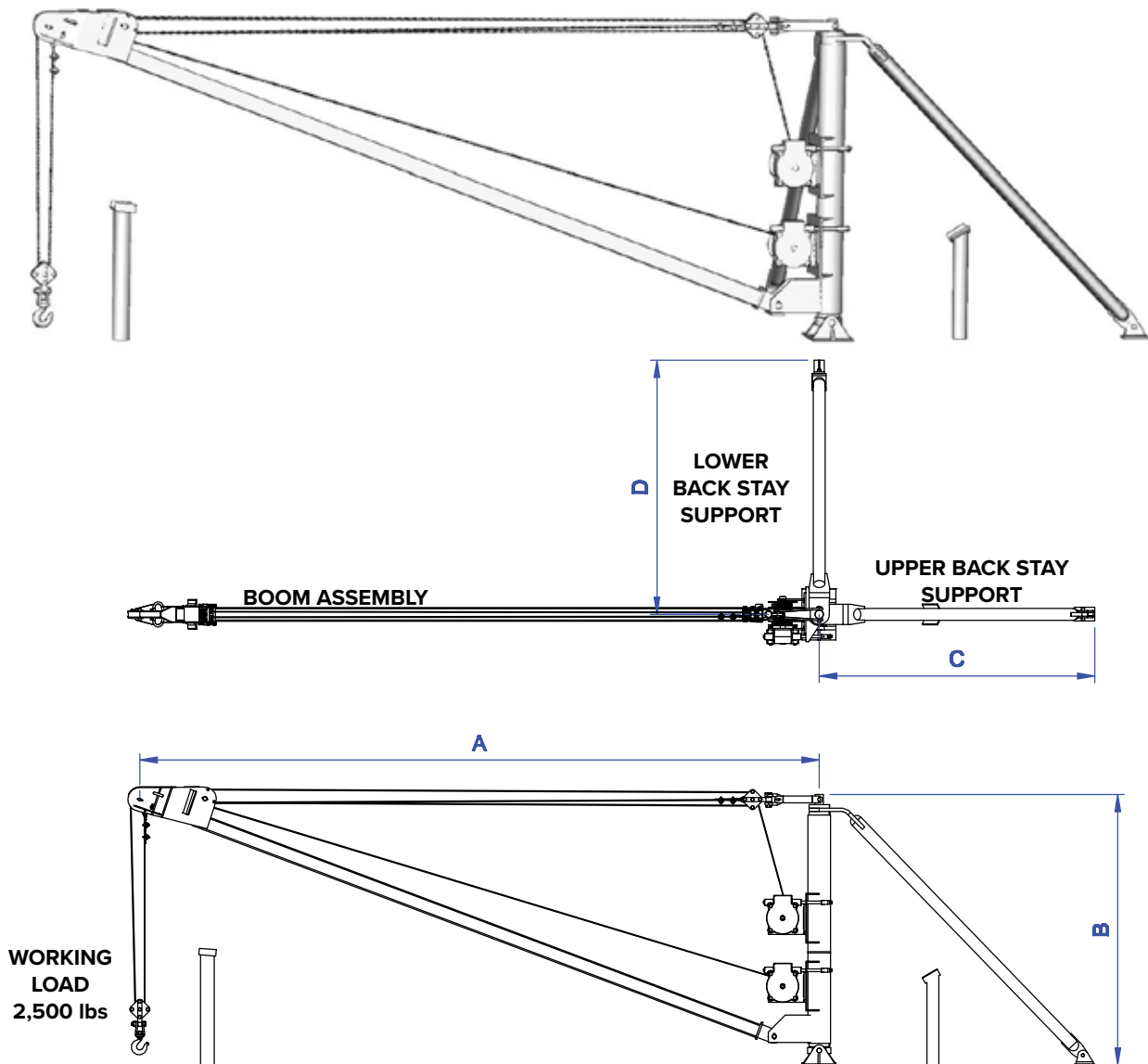
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DF-126 BARGE CRANE



MODEL No.	PART No.	A	B	C	D	WT. (lbs.)
DF-126	79659	16'-7" (MAX) 5'-6" (MIN)	6' 7-5/16"	6' 8-3/4"	6' 2-1/2"	1100

“Believing that presidents have taxing and spending powers leaves Congress less politically accountable for our deepening economic quagmire. Of course, if you’re a congressman, not being held accountable is what you want.”

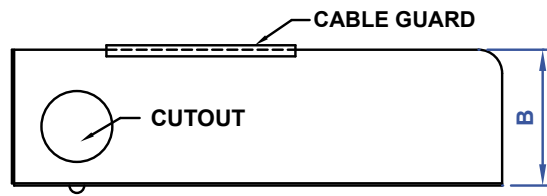
—Walter E. Williams



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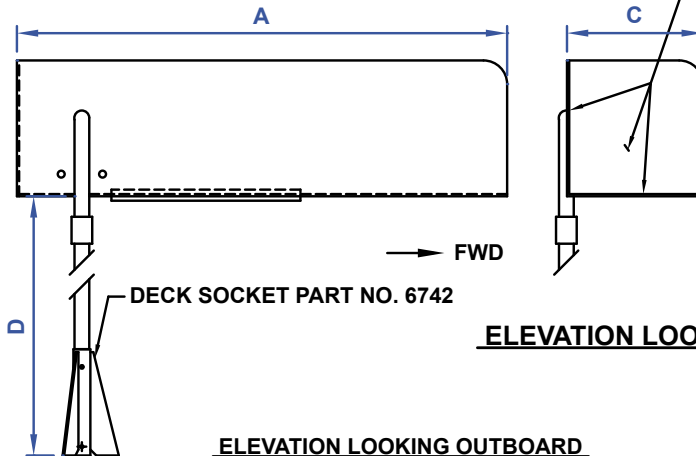
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RUNNING LIGHT STAND



PLAN VIEW

THESE SURFACES TO BE PAINTED BLACK



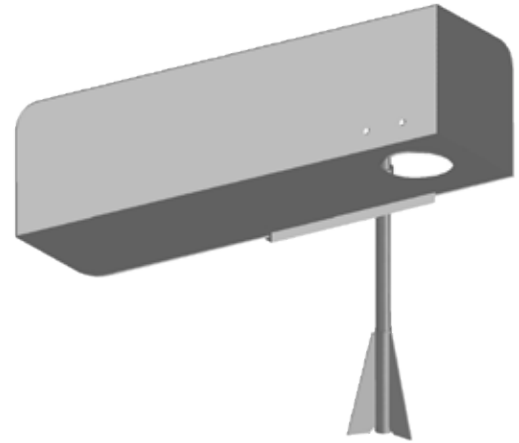
ELEVATION LOOKING AFT

ELEVATION LOOKING OUTBOARD

(PORT LIGHT SCREEN SHOWN PART NO. 17671)

(STB'D LIGHT SCREEN OPPOSITE PART NO. 6416)

NOTE: THIS SCREEN IS SIZED FOR PERKO FIG. 1150 SIZE 2 NAVIGATION LIGHT



PART No.	DESCRIPTION	WT. (lbs.)
17671	PORT LIGHT STAND	60
6416	STB'D LIGHT STAND	60
6742	DECK SOCKET	3

DIMENSIONS			
A	B	C	D
41-1/2"	11-1/2"	11-1/2"	56"

"Some say it's wrong to profit from the misfortune of others. I ask my students whether they'd support a law against doing so. But I caution them with some examples. An orthopedist profits from your misfortune of having broken your leg skiing. When there's news of a pending ice storm, I doubt whether it saddens the hearts of those in the collision repair business. I also tell my students that I profit from their misfortune—their ignorance of economic theory."

—Walter E. Williams

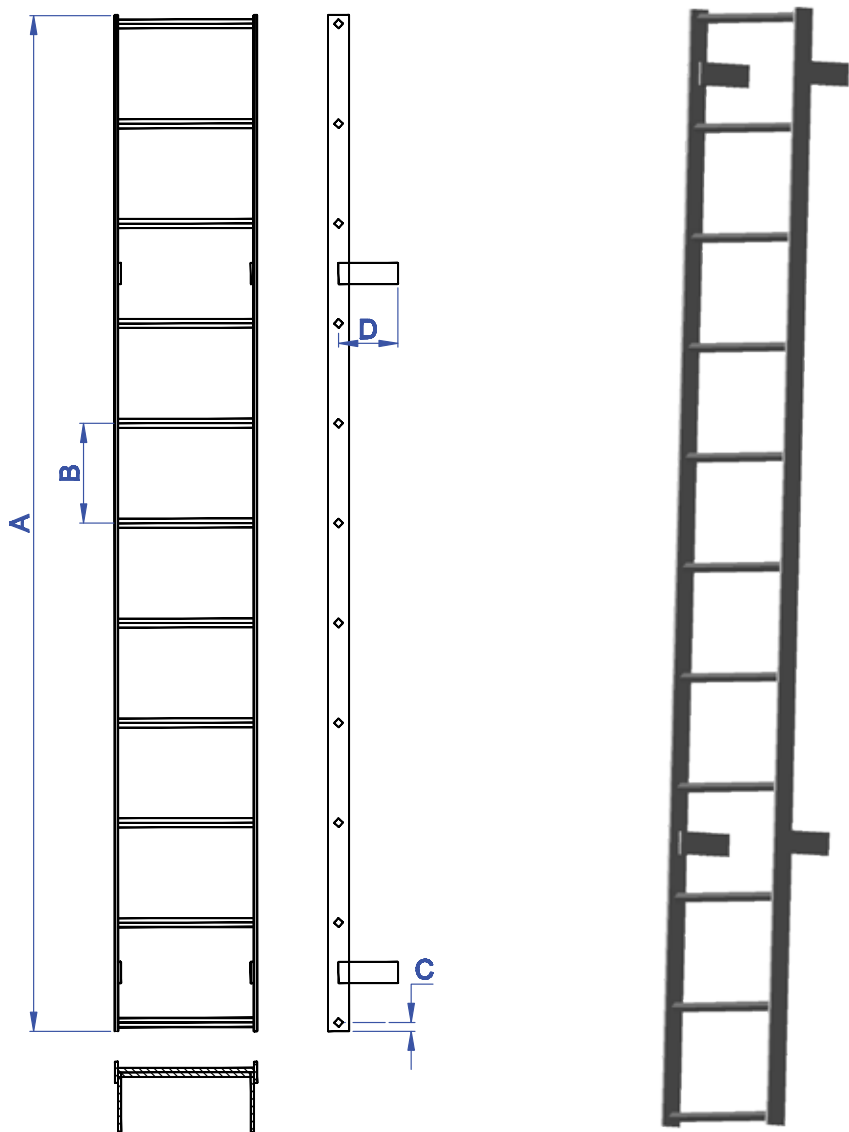
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LADDER



MODEL No.	PART No.	A	B	C	D	WT. (lbs.)
DF-954	39000	12'	11-3/4"	1"	7"	99

"There are many farm handouts; but let's call them what they really are: a form of legalized theft. Essentially, a congressman tells his farm constituency, "Vote for me. I'll use my office to take another American's money and give it to you."

—Walter E. Williams

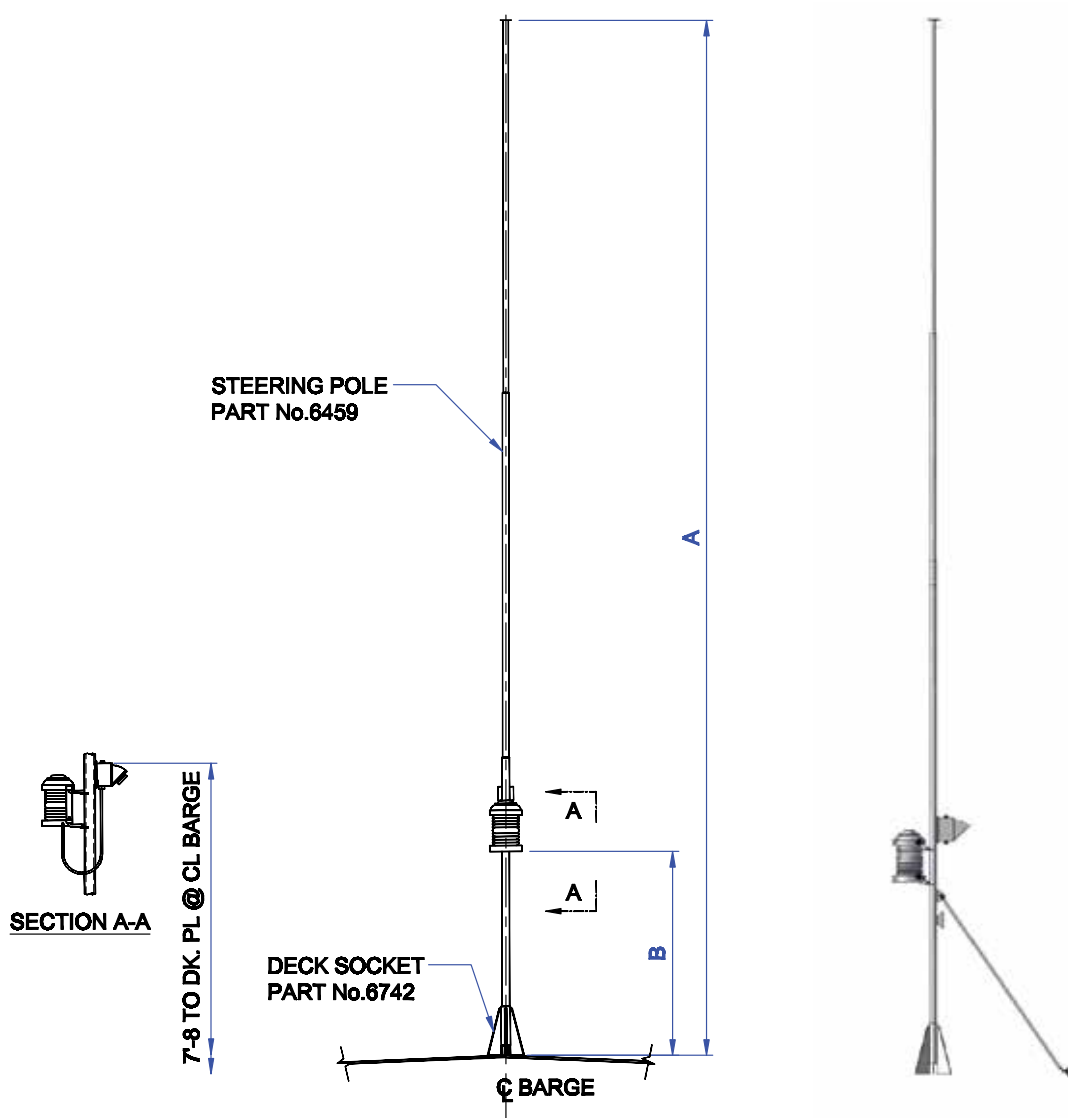


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STEERING POLE



MODEL No.	MATERIAL	PART No.	A	B	WT. (lbs.)
DF-169	STEEL	79979	22'	4'-4"	50

NOTE: LIGHT AND PLUG ARE NOT PART OF STEERING POLE ASSEMBLY.

"We are becoming a nation of thieves by trying to live at everyone else's expense. We have lost our moral mooring and the Church is partially responsible by failing to uphold its beliefs. One of the 10 Commandments says, 'Thou shall not steal.' Now I am fairly confident that God did not mean, 'Thou shall not steal—unless you get a majority vote.'"

—Walter E. Williams

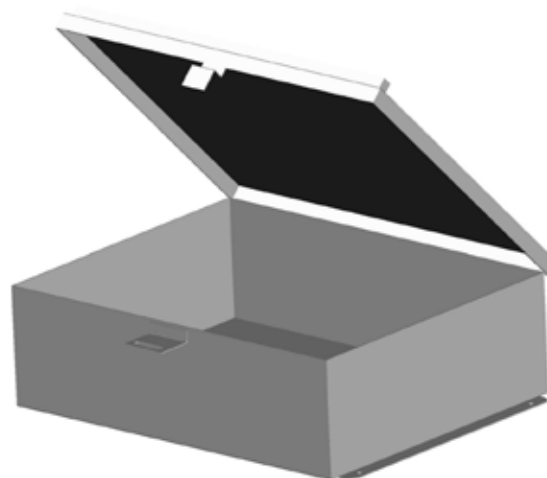
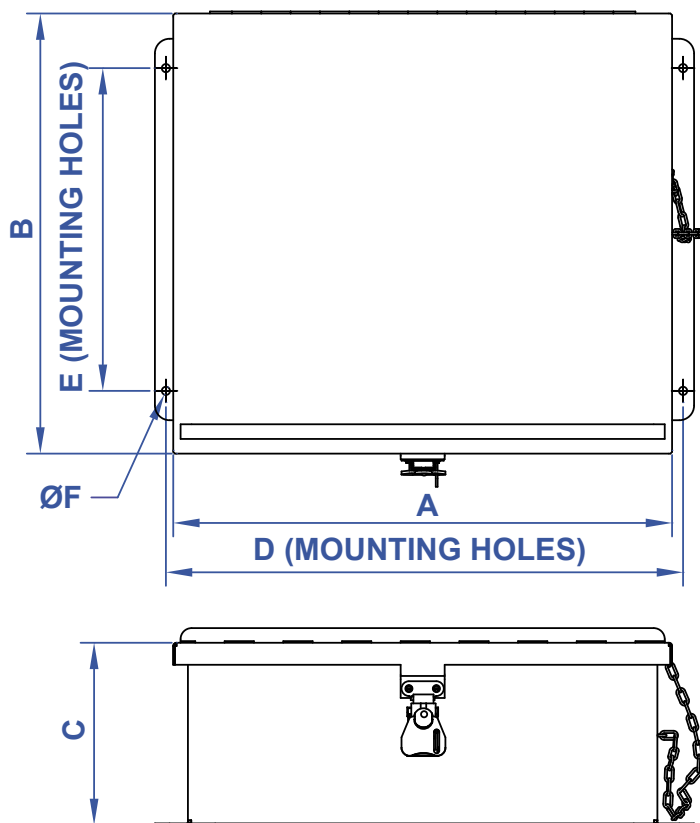
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STAINLESS STEEL DOCUMENT BOX/DESK



MODEL No.	PART No.	A	B	C	D	E	ØF	WT. (lbs.)
DF-555	95001	17"	15"	6-1/4"	17-5/8"	11"	9/32"	20

"The real problem is that workers are not so much underpaid as they are under-skilled. And the real task is to help those people become skilled. Congress cannot do this simply by declaring that as of such-and-such a date, everybody's productive output is now worth \$7.25 per hour. This makes about as much sense, and does just about as much harm, as doctors 'curing' patients simply by declaring that they are cured."

—Walter E. Williams

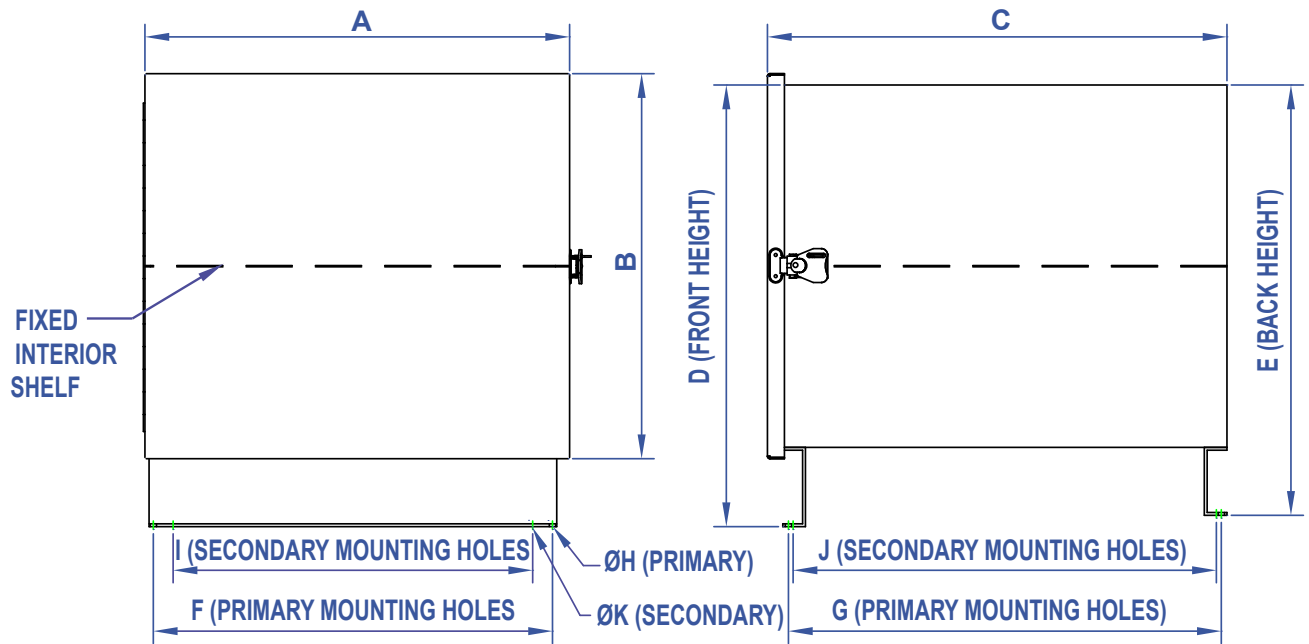


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SS DOCUMENT BOX - HORIZONTAL



MODEL No.	PART No.	A	B	C	D	E	F	G	ØH	I	J	ØK	WT. (lbs.)
DF-556	95005	12"	12"	18"	15-1/2"	15"	11"	17-5/8"	9/32"	9-1/4"	17-1/4"	5/8"	35

"One annoyance is people's seeming inability or unwillingness to differentiate between the number zero and the letter 'o'. I've had conversations with telephone operators who have told me that I can reach my party by dialing, for example, 31o-3o55. Sometimes I've asked, 'If I follow your instructions, by dialing the letter 'o' instead of the number zero, will I reach my party?' They always answer no and that I must dial the zero. Then I ask, 'Why did you tell me 'o' when you meant zero?' Our chitchat usually degrades after that. It's not only telephone operators. How many times have you heard a student or teacher say, 'He has a 4 point o GPA'?"

—Walter E. Williams

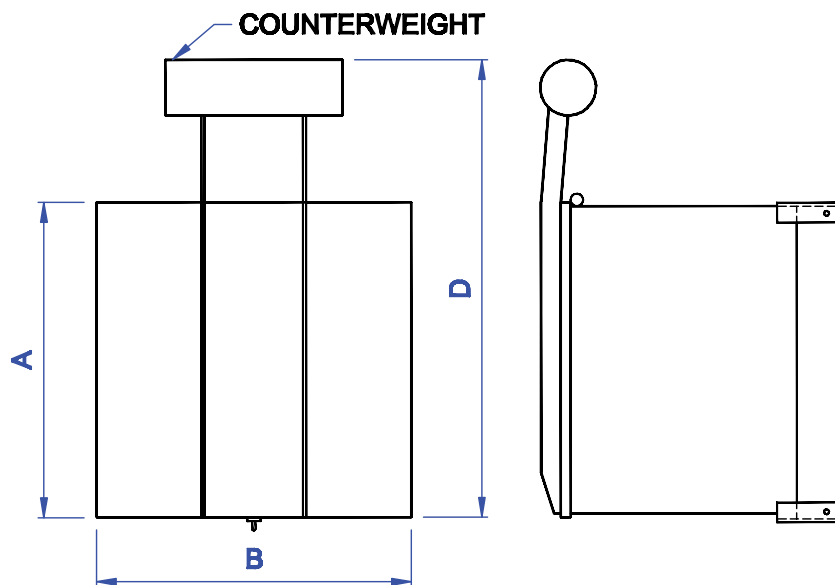
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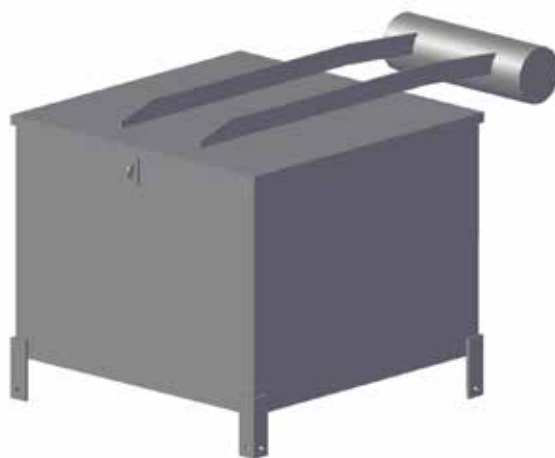
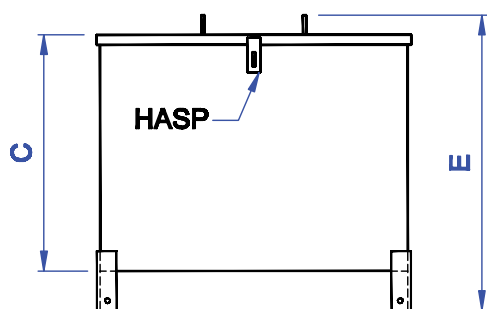


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DRY BOX



PLAN VIEW



MODEL No.	PART No.	A	B	C	D	E	WT. (lbs.)
DF-522	30134	48"	48"	36"	69-3/4"	45"	440

"Employer substitution of higher-skilled for lower-skilled workers is not the only effect of the minimum wage law. It also gives employers an economic incentive to make other changes: substitute machines for labor; change production techniques; relocate overseas; and eliminate certain jobs altogether. The substitution of automatic dishwashers for hand washing, and automatic tomato-picking machines for manual pickers, are examples of the substitution of machines for labor in response to higher wages."

—Walter E. Williams



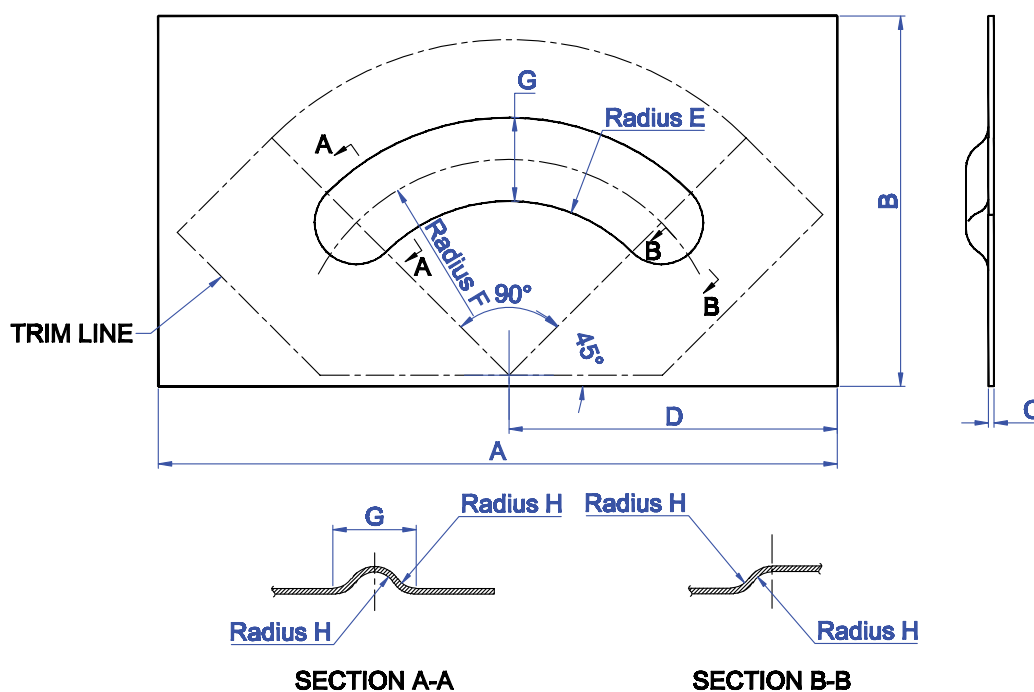
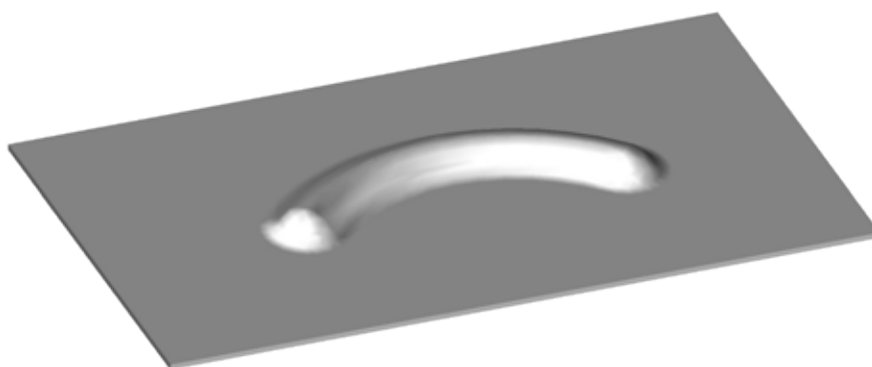
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EXPANSION PLATE

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MODEL No.	PART No.	SIZE	A	B	C	D	E	F	G	H	WT. (lbs.)
DF-443-3	87890	3"	30-1/2"	16-5/8"	1/4"	14-3/4"	7-13/16"	9-11/16"	3-3/4"	1"	38
DF-443-6	87904	6"	34-1/2"	19-5/8"	1/4"	16-3/4"	10-13/16"	12-11/16"	3-3/4"	1"	50

"If guns kill people, then pencils misspell words, cars make people drive drunk, and spoons make people fat."

—Anonymous

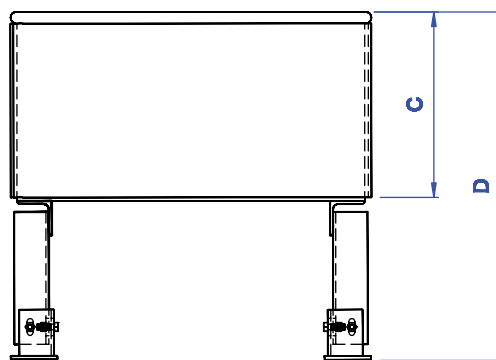
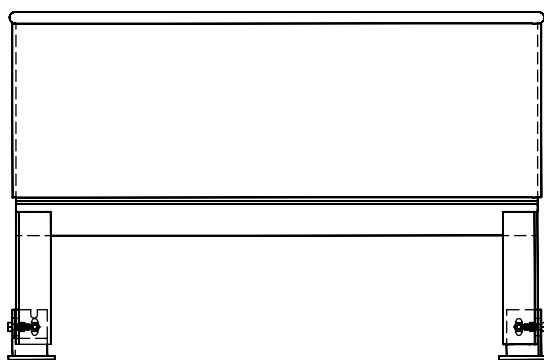
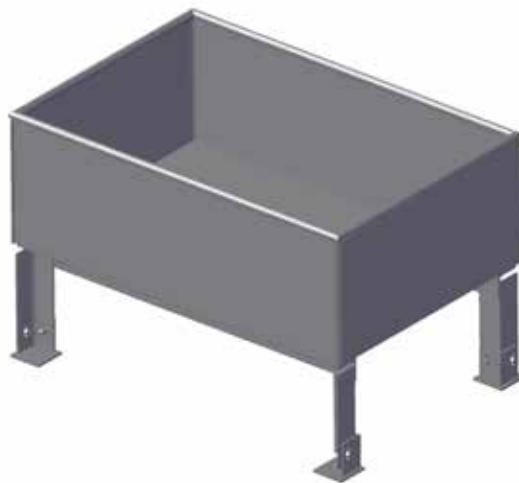
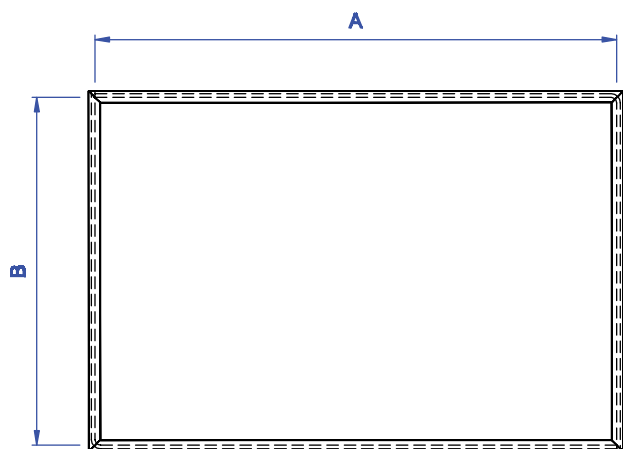
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DRIP PANS



MODEL NO.	PART NO.	SIZE	A	B	C	D	WT (LBS.)
DF-830-2	93475	2 BARREL	30"	45"	16"	30"	457
DF-830-3	93483	3 BARREL	43-1/2"	45"	16"	30"	538
DF-830-4	93491	4 BARREL	57"	45"	16"	30"	684
DF-830-5	93505	5 BARREL	70-1/2"	45"	16"	30"	798
DF-830-6	93513	6 BARREL	84"	45"	16"	30"	913

"The 2000 election of George W. Bush as president gave Republicans what the Democrats have now, total control of the legislative and executive branches of government. When Bush came to office, federal spending was \$1.788 trillion. When he left office, federal spending was \$2.982 trillion."

—Walter E. Williams

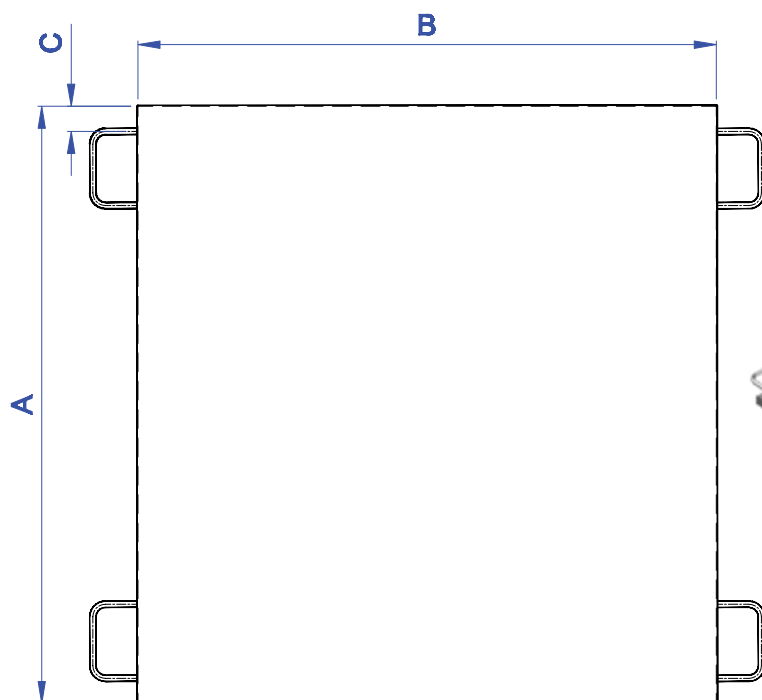


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DRIP PAN COVERS



MODEL NO.	PART NO.	SIZE	A	B	C	WT (LBS.)
DF-830-2	30115	2 BARREL	33-7/8"	45-7/8"	2"	65
DF-830-3	90342	3 BARREL	47-3/8"	45-7/8"	2"	85
DF-830-4	90361	4 BARREL	60-7/8"	45-7/8"	2"	105
DF-830-5	90371	5 BARREL	74-3/8"	45-7/8"	2"	125
DF-830-6	90350	6 BARREL	87-7/8"	45-7/8"	2"	140

"The War between the States... produced the foundation for the kind of government we have today: consolidated and absolute, based on the unrestrained will of the majority, with force, threats, and intimidation being the order of the day. Today's federal government is considerably at odds with that envisioned by the framers of the Constitution. ... [The War] also laid to rest the great principle enunciated in the Declaration of Independence that 'Governments are instituted among Men, deriving their just powers from the consent of the governed'."

—Walter E. Williams

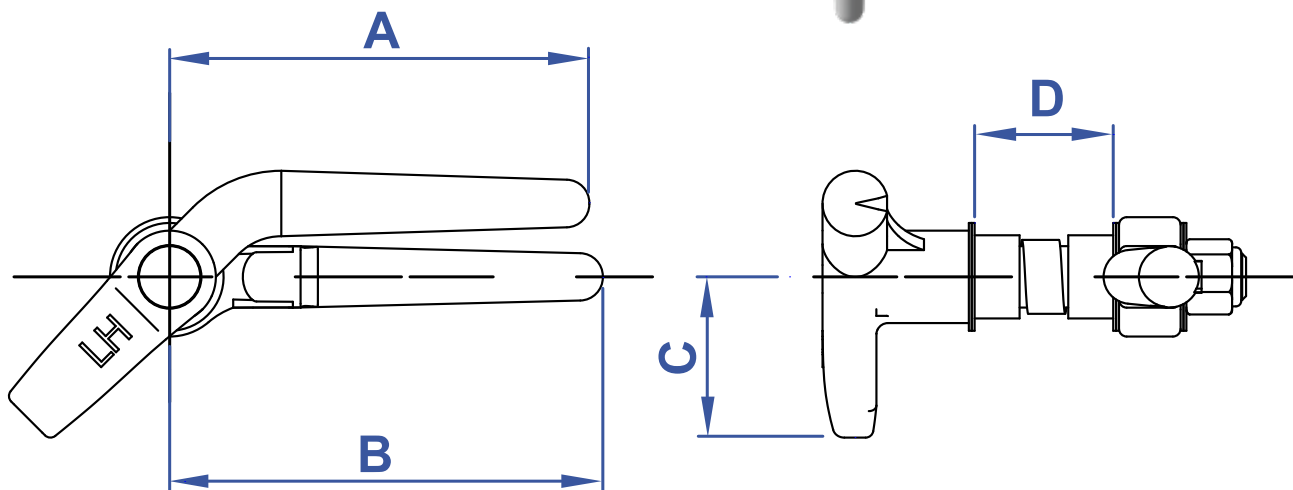
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DOOR DOG HANDLE KIT



MODEL NO.	LH PART NO.	RH PART NO.	A	B	C	D	WT (LBS.)
DDK	100111	100112	6-13/16"	7-1/16"	2-5/8"	2-1/4"	6.25

“Some things are just better left unsaid. And I usually realize it right after I say them.”

—Anonymous

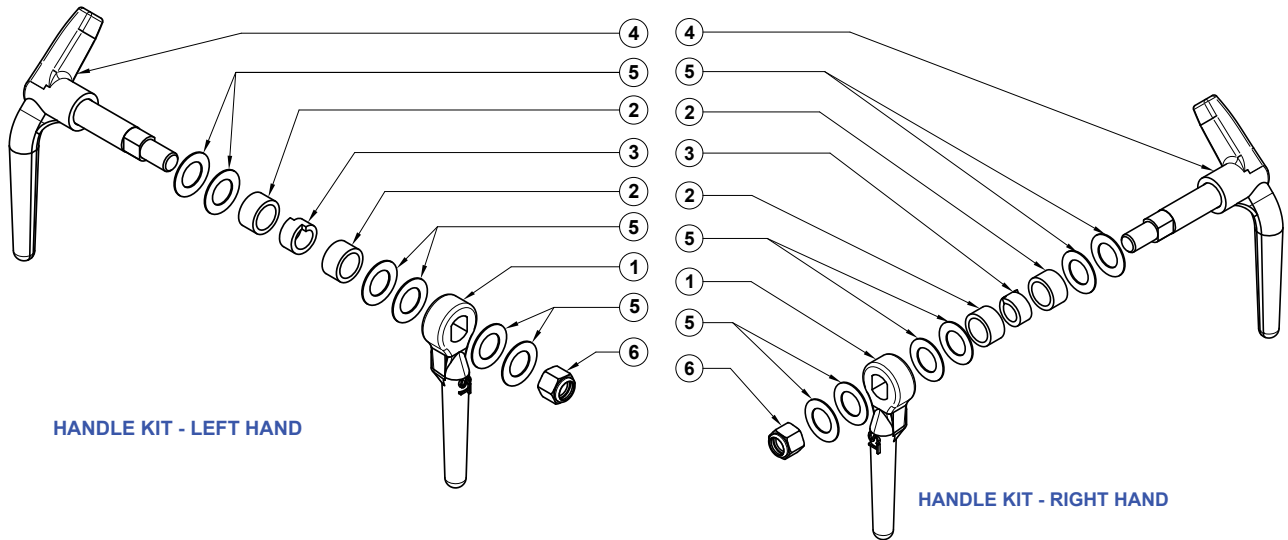


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DOOR DOG HANDLE KIT



ITEM	DESCRIPTION	LH PART NO.	RH PART NO.	MATERIAL
1	DOOR DOG HANDLE (STRAIGHT)	94080	94080	MILD STEEL
2	BUSHING (1.35" OD)	316	316	NYLON
2	BUSHING (1.28" OD)	298	298	NYLON
3	DOG HANDLE PACKING	307	307	BRAIDED GRAPHITE
4	DOOR DOG HANDLE ASS'Y	94064	94072	MS / SS
5	FLAT SHIM WASHER (SS) 1" DIA	318	318	STAINLESS STEEL
6	NYLON INSERT HEX NUT (316 SS) 3/4-10	319	319	STAINLESS STEEL

"An interesting example is found in an article by Dr. Jennifer Roback titled 'The Political Economy of Segregation: The Case of Segregated Streetcars,' in the Journal of Economic History (1986). During the late 1800s, private streetcar companies in Augusta, Houston, Jacksonville, Mobile, Montgomery, and Memphis were not segregated, but by the early 1900s, they were. Why? City ordinances forced them to segregate black and white passengers. Numerous Jim Crow laws ruled the day throughout the South mandating segregation in public accommodations."

—Walter E. Williams

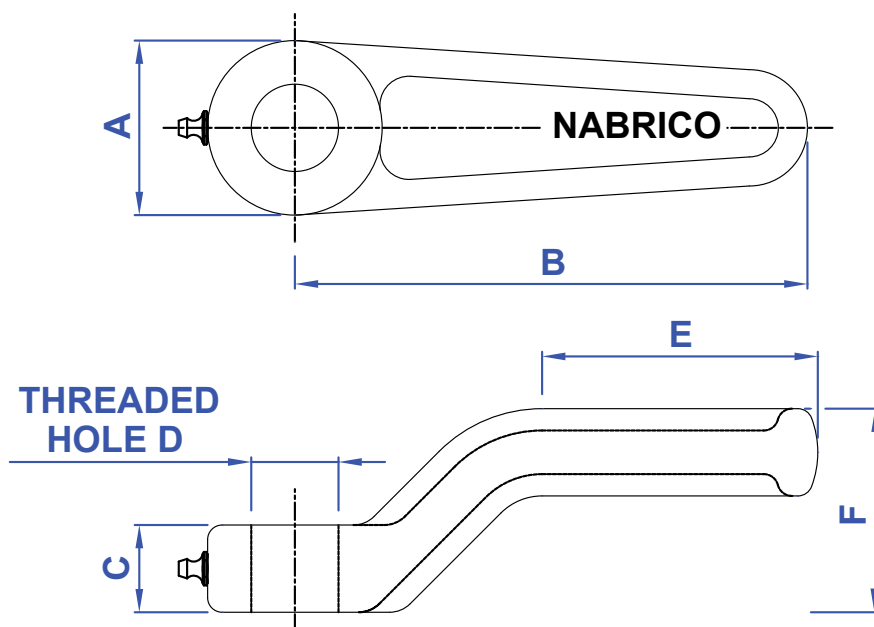
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DOG HANDLE



DOG HANDLES WITHOUT GREASE FITTINGS	
MATERIAL	PART NUMBER
BRONZE	17744
IRON	74837
GALVANIZED	74839
STAINLESS	85235

DOG HANDLES WITH GREASE FITTINGS	
MATERIAL	PART NUMBER
BRONZE	17743
IRON	74836
GALVANIZED	74838
STAINLESS	85236

MODEL No.	A	B	C	D	E	F	WT. (lbs.)
DF-39	1-1/2"	4-1/2"	3/4"	3/4"-10 UNC	2"	1-3/4"	0.8

"If my body is ever found on a jogging trail just know that I was murdered somewhere else and dumped there."

—Anonymous

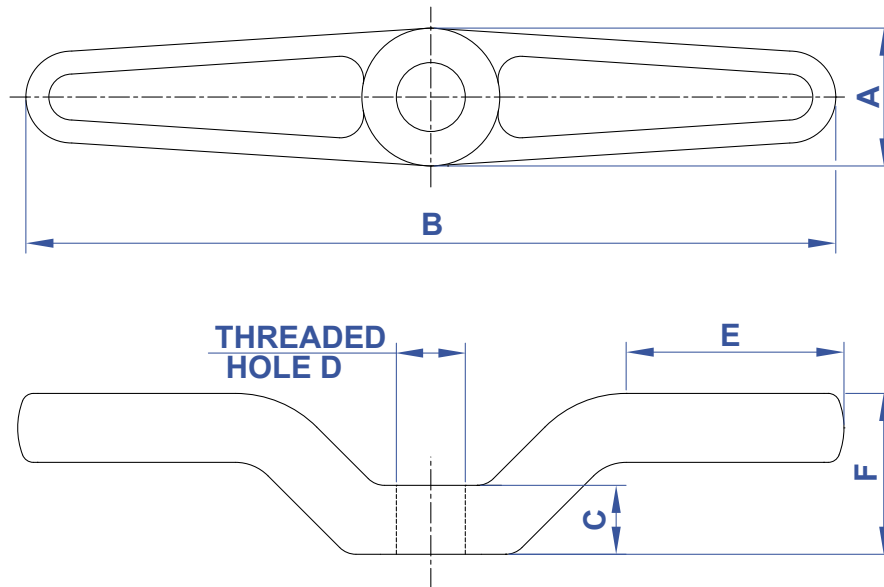


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DOUBLE WING DOG HANDLE



MATERIAL	PART NUMBER
BRONZE	17876

MODEL No.	A	B	C	D	E	F	WT. (lbs.)
DF-39	1-1/2"	8-3/4"	3/4"	3/4"-10 UNC	2"	1-3/4"	1.2

"I must admit, moreover, that it may not be easy, in every possible case, to trace the line of separation, between the rights of Religion and the Civil authority, with such distinctness, as to avoid collisions and doubts on unessential points. The tendency to a usurpation on one side, or the other, or to a corrupting coalition or alliance between them, will be best guarded against by an entire abstinence of the Government from interference, in any way whatever, beyond the necessity of preserving public order, and protecting each sect against trespasses on its legal rights by others."

—James Madison

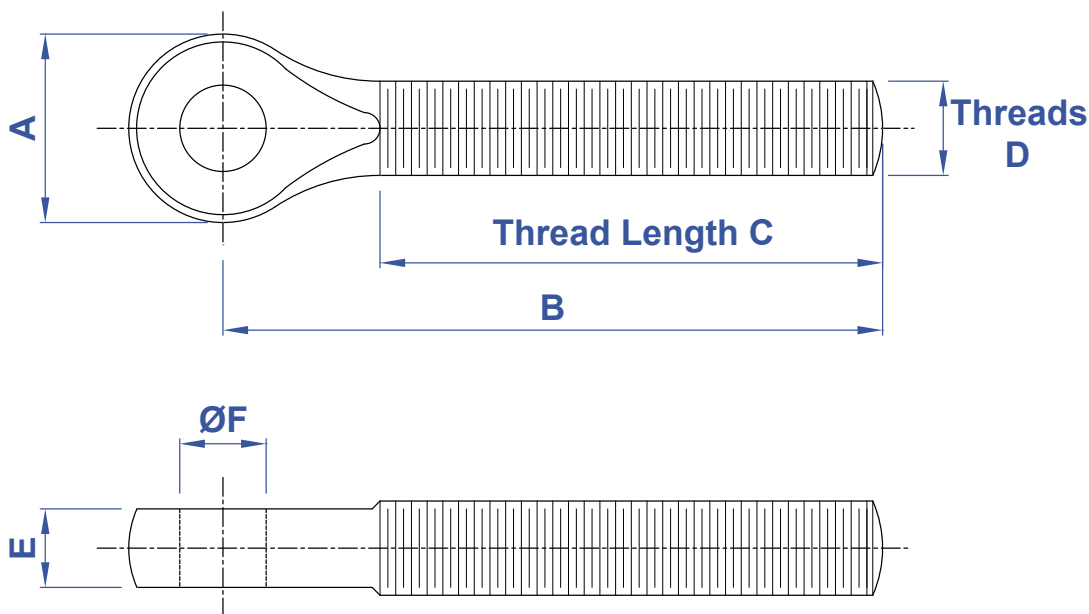
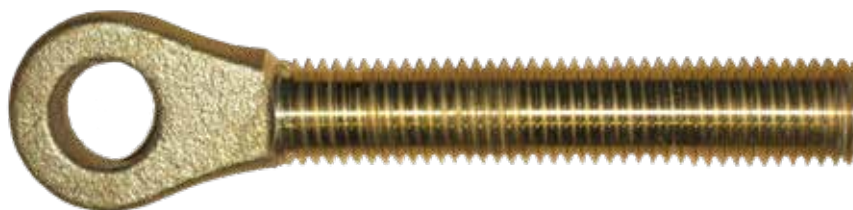
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TUMBLE BOLT



MATERIAL	PART NUMBER
BRONZE	10774
STAINLESS 304	87939

MODEL No.	SIZE	A	B	C	D	E	ØF	WT. (lbs.)
DF-43	5-1/4"	1-1/2"	5-1/4"	4"	3/4"-10 UNC	5/8"	11/16"	1

“It will be of little avail to the people that the laws are made by men of their own choice, if the laws be so voluminous that they cannot be read, or so incoherent that they cannot be understood; if they be repealed or revised before they are promulgated, or undergo such incessant changes that no man who knows what the law is today can guess what it will be tomorrow.”

—James Madison

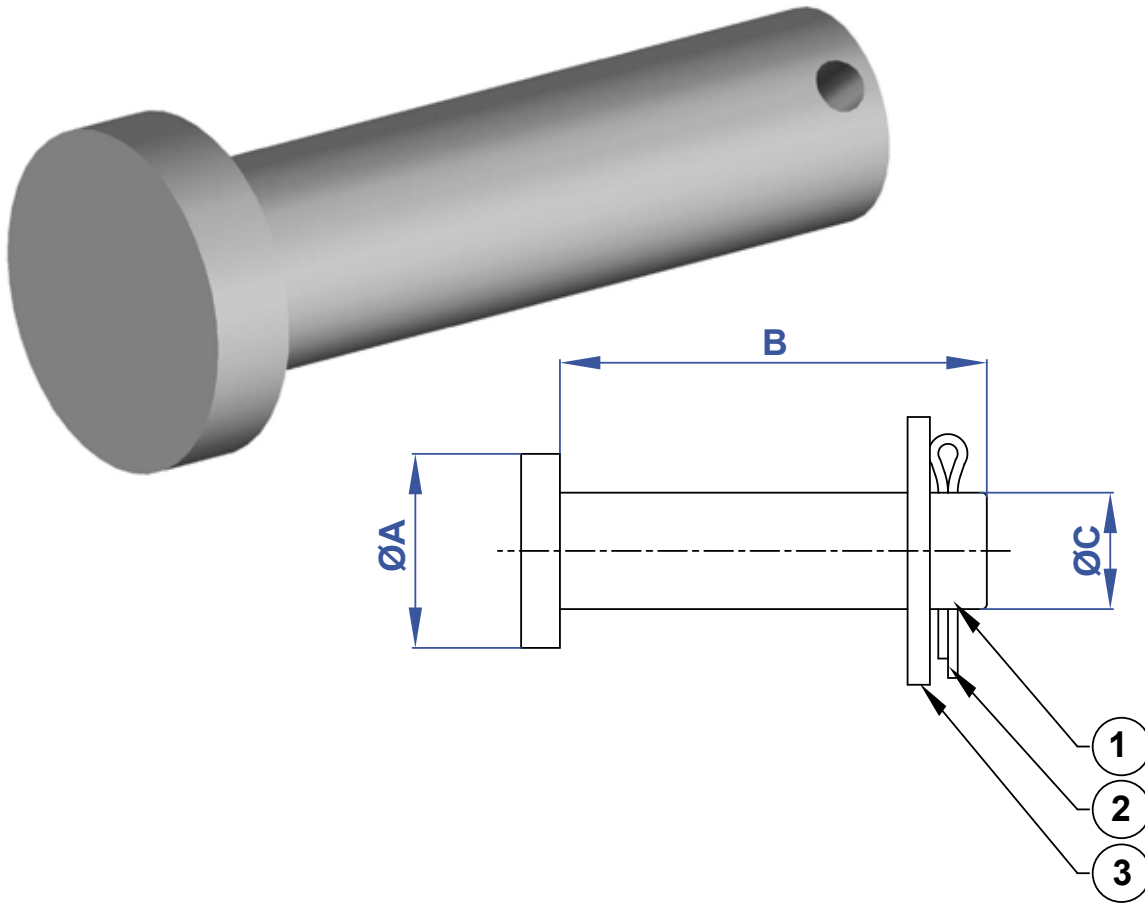


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TUMBLE BOLT PIN KIT



ITEM	DESCRIPTION	PART NO.	MATERIAL
1	TUMBLE BOLT PIN	92771	STAINLESS
2	COTTER PIN	92789	STAINLESS
3	WASHER	453	STAINLESS

MATERIAL	PART No.	ØA	B	ØC	WT. (lbs.)
STAINLESS	363	1"	2-1/4"	5/8"	0.2

"That religion, or the duty which we owe to our CREATOR, and the manner of discharging it, can be directed only by reason and conviction, not by force or violence; and therefore, all men are equally entitled to the free exercise of religion, according to the dictates of conscience; and that it is the mutual duty of all to practise Christian forbearance, love, and charity; towards each other."

—James Madison

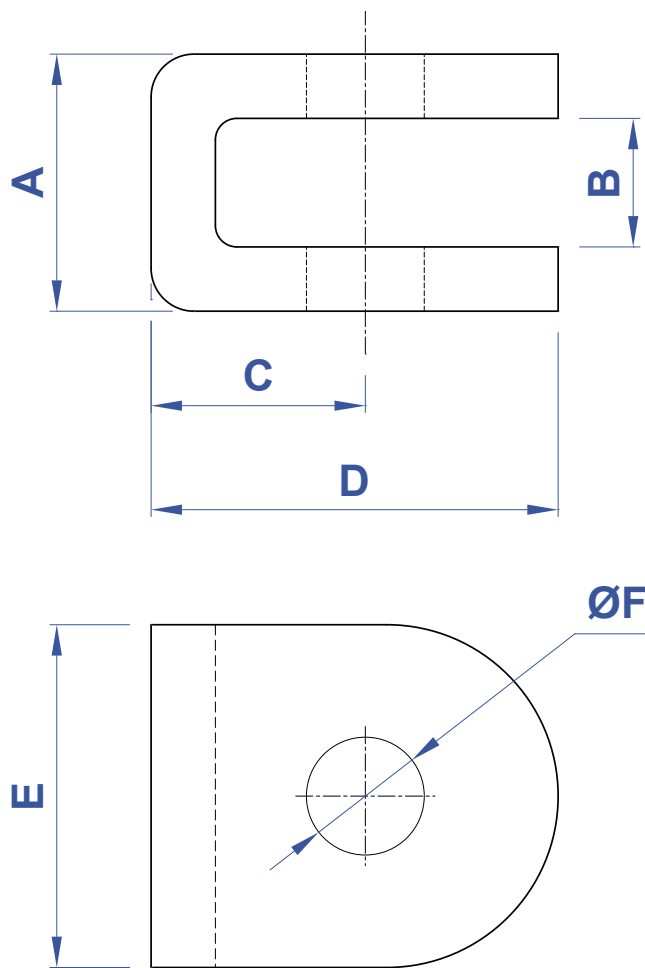
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TUMBLE BOLT LUG



MATERIAL	PART NUMBER
STEEL	75051
STAINLESS	75070

MODEL No.	A	B	C	D	E	ØF	WT. (lbs.)
DF-35	1-1/2"	3/4"	1-1/4"	2-3/8"	2"	11/16"	1

“Liberty and order will never be perfectly safe, until a trespass on the constitutional provisions for either, shall be felt with the same keenness that resents an invasion of the dearest rights, until every citizen shall be an Argus to espy, and an Aegeon to avenge, the unhallowed deed.”

—James Madison



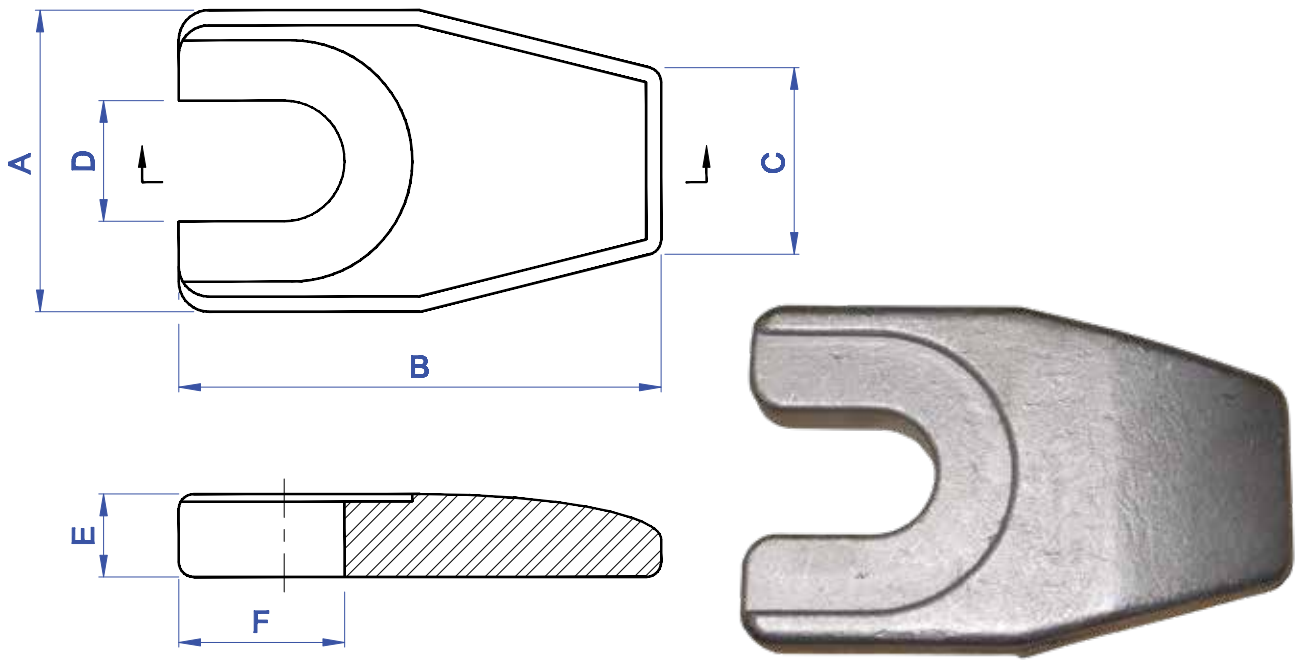
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DOGGING PAD

BR



MATERIAL	PART NUMBER
STEEL	6440
STAINLESS	6441

MODEL No.	A	B	C	D	E	ØF	WT. (lbs.)
DF-37	2-1/2"	4"	1-1/2"	1"	11/16"	1-3/8"	1

"Of the liberty of conscience in matters of religious faith, of speech and of the press; of the trial by jury of the vicinage in civil and criminal cases; of the benefit of the writ of habeas corpus; of the right to keep and bear arms...If these rights are well defined, and secured against encroachment, it is impossible that government should ever degenerate into tyranny."

—James Monroe

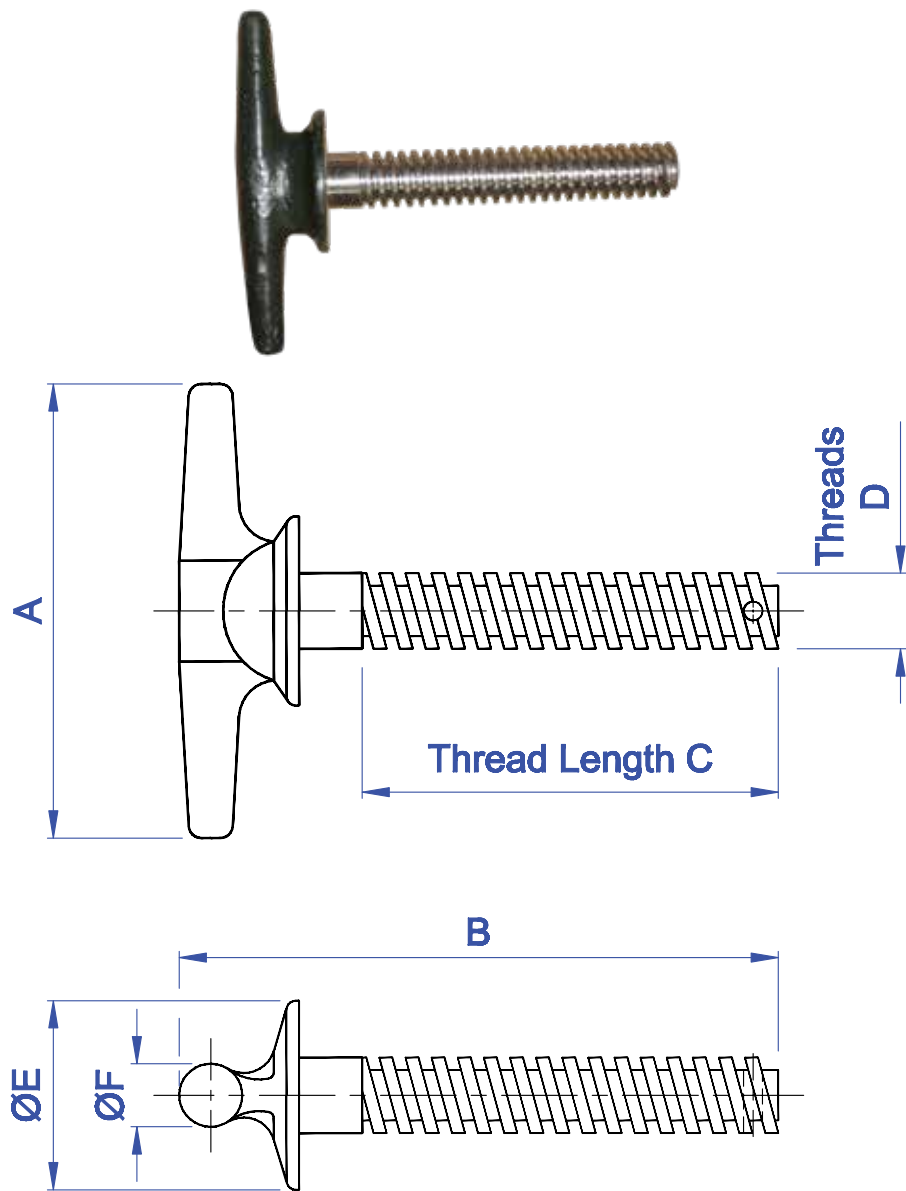
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T-HANDLE



MODEL No.	MATERIAL	PART No.	A	B	C	D	ØE	ØF	WT. (lbs.)
DF-41	STAINLESS 304	16993	4-1/2"	5-15/16"	4-1/8"	3/4"-ACME	1-7/8"	5/8"	1

“Peace is the best time for improvement and preparation of every kind; it is in peace that our commerce flourishes most, that taxes are most easily paid, and that the revenue is most productive.”

—James Monroe



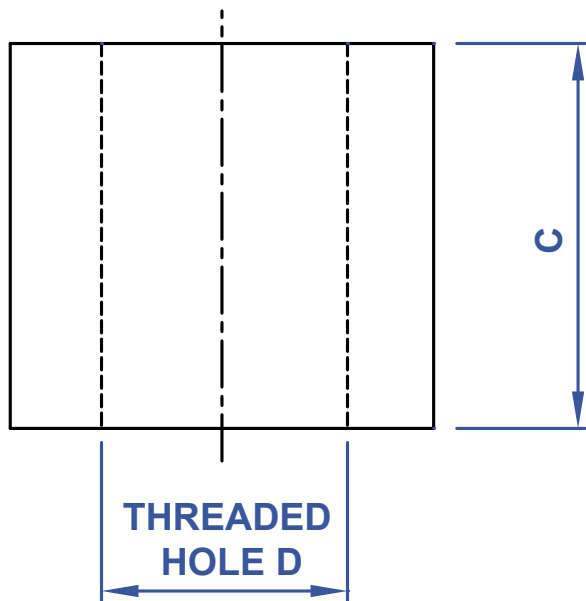
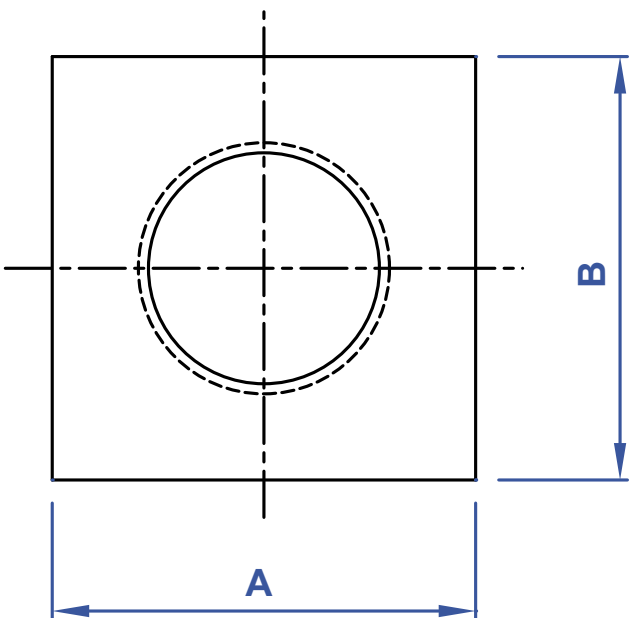
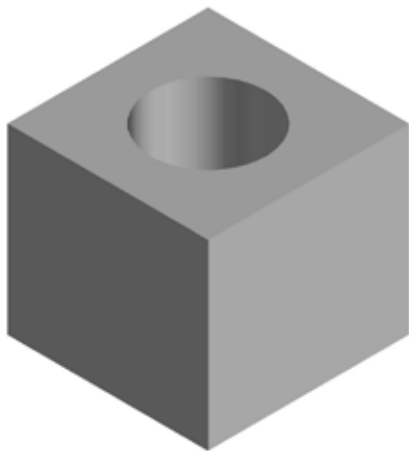
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SQUARE BRASS NUT

BR



MATERIAL	PART No.	A	B	C	D	WT. (lbs.)
BRASS	507	1-3/8"	1-3/8"	1-1/4"	3/4"-ACME	1

“We hold it for a fundamental and inalienable truth that religion and the manner of discharging it can be directed only by reason and conviction not by force and violence. The religion, then, of every man must be left to the conviction and conscience of every man; and it is the right of every man to exercise it as these may dictate.”

—James Monroe

SPECIALTY

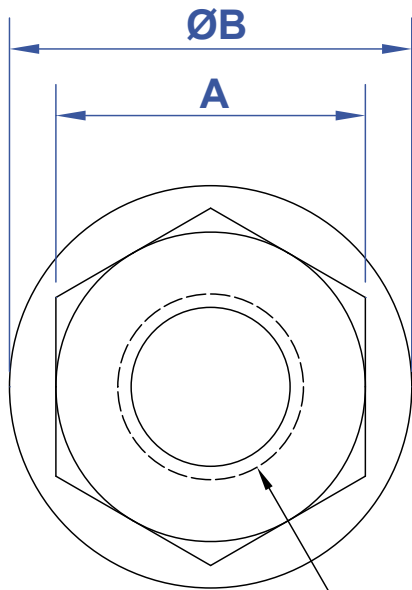
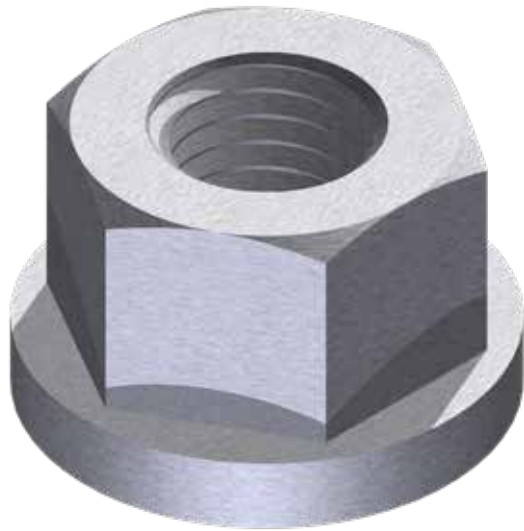
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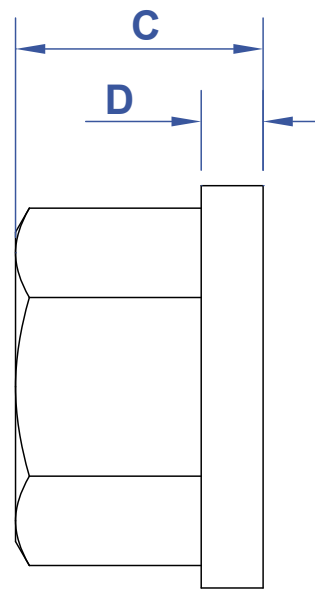


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FLANGED HEX NUT



THREAD E



MATERIAL	PART No.	A	B	C	D	THREAD E	WT. (lbs)
304 SS	20870	1-1/4"	1-5/8"	1"	1/4"	3/4"-10 UNC	.3
316 SS	20871	1-1/4"	1-5/8"	1"	1/4"	3/4"-10 UNC	.3

Probably from Louisiana if...

You know the meaning of a "Delcambre Reeboks" (that would be a pair of all white fishing boots).

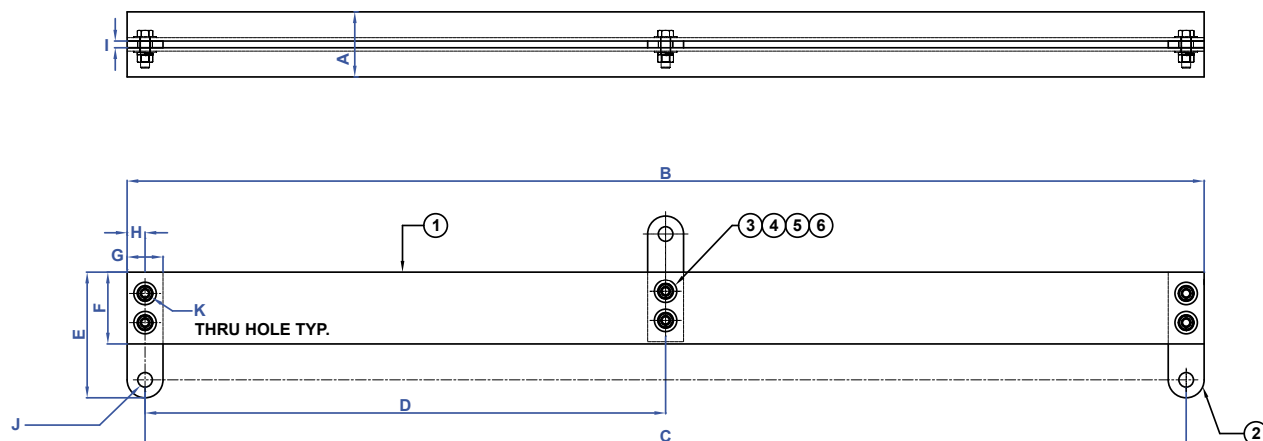


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HOSE CRANE SPREADER BAR



SAFE WORKING LOAD: 2,500 lbf [1,130 kgf]

ITEM	DESCRIPTION	MATERIAL
1	C4X5.4 CHANNEL	ALUMINUM
2	LIFTING LUG	STAINLESS
3	1/2"-13 UNC X 1-3/4" BOLT	STAINLESS
4	1/2" WASHER	STAINLESS
5	1/2" LOCK WASHER	STAINLESS
6	1/2"-13 HEX NUT	316 STAINLESS

PART No.	A	B	C	D	E	F	G	H	I	Ø J	Ø K	WT. (lbs)
135900	3-5/8"	60"	58"	29"	7"	4"	2"	1"	3/8"	13/16"	9/16"	25

Probably from Louisiana if...

When giving directions you use words like "uptown", "downtown", "backatown", riverside", "lakeside", "northshore", "westbank", "down the bayou" or "across the river".

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SPECIALTY



Probably from Louisiana if...
You plan your wedding around hunting season & LSU football.

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DECK FITTING NOTES AND GENERAL INFORMATION

The information and sketches shown in this website are proprietary to NABRICO. Duplication, reproduction or manufacture from data contained herein is strictly prohibited.

All deck fittings and winches must be sized correctly, properly located and properly installed to serve their intended functions. It is the owner/operator's responsibility to adhere to the aforementioned.

Improper installation can result in failure of a casting or winch. Deck fittings which have failed due to overloads, or have been dislodged from foundations, or have fractures and/or deformations should be repaired or replaced immediately.

In particular, loads to bitts must be applied to the posts between the base and the midpoint in a horizontal or downward direction. Properly placed chocks will prevent line chafing. Kevels should be installed horizontally on foundation bases of sufficient size. Forces to Kevels must be directed to the trunk and not the horns. Horns will fail when exposed to direct loads.

Deck fittings are not designed for use to lift the vessel. Misapplication or misuse of a deck fitting is not the responsibility of the supplier or NABRICO.

Please note that dimensions and weights are nominal and are subject to standard variations.

"The government's view of the economy could be summed up in a few short phrases: If it moves, tax it. If it keeps moving, regulate it. And if it stops moving, subsidize it."

— Ronald Reagan

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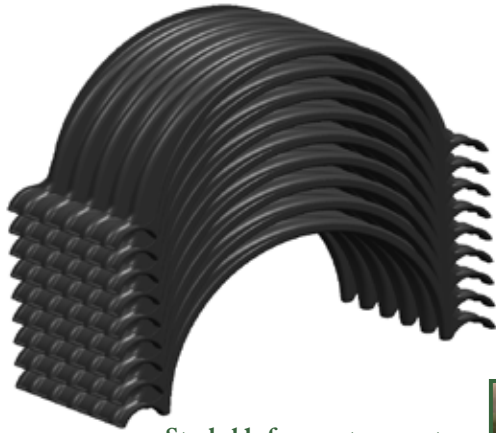
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ENVIROSPAN

Modular Culvert Systems



Stackable for easy transport.



Span sections and wedge sections may be placed in multiple configurations to meet your individual needs.

FEATURES

- Patented, non-metallic, non-corrosive, non-leeching, and reusable permanent or temporary arch culvert system.
- Suitable for use over fish bearing and environmentally sensitive streams without disturbing the stream bed.
- Produced from liquid molding resin resulting in a durable non-metallic alternative to heavy metal culverts.
- Available in span and elbow sections allowing for a precise following of the natural stream bed without additional disturbance.
- Culvert FEA (Finite Element Analysis) with 0.91m (3 ft.) of granular backfill, subject to a 307kN (69,000 lb.) per axle load exceeded the BCFS L-150 (GVW 136,090 KGs) off road truck load standard. Culverts were load tested with 56,000 lb. per axle which exceeds BCFS L-100 (GVW 90,680 KGs) and AASHTO H25 load.
- Due to the lightweight material and innovative design, the bottomless culverts require less time, equipment, and manpower for environmentally friendly installations when compared to traditional stream crossing methods.

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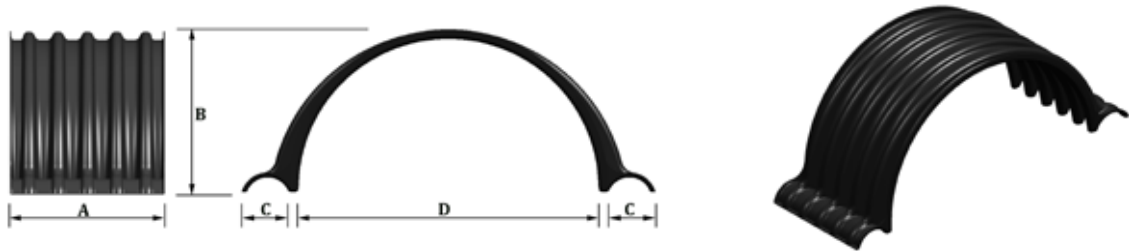
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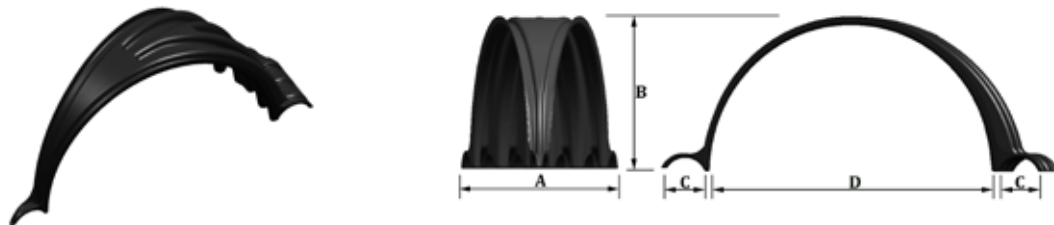
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ENVIRO-SPAN

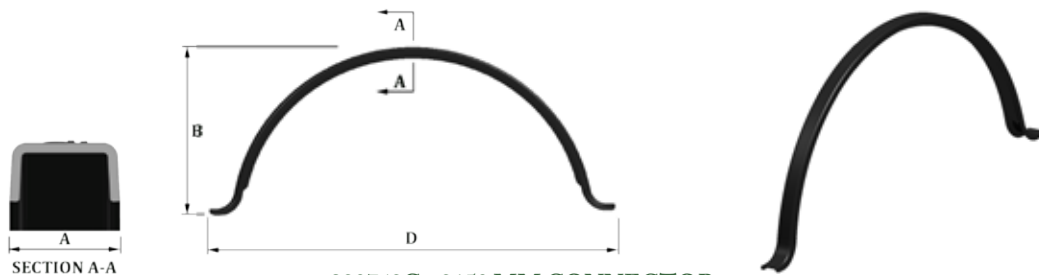
Modular Culvert Systems



900742C - 2150 MM STRAIGHT SPAN



910723C - 2150 MM 23° WEDGE SPAN



920742C - 2150 MM CONNECTOR

PART NUMBER	DESCRIPTION	A	B	C	D	WGT
900742C	2150 MM STRAIGHT SPAN	1070 MM	1120 MM	305 MM	2150 MM	64 KG
	7 FT STRAIGHT SPAN	42"	44"	12"	85"	141 LB
910723C	2150 MM 23° WEDGE SPAN	1130 MM	1120 MM	305 MM	2150 MM	43 KG
	7 FT 23° WEDGE SPAN	45"	44"	12"	85"	95 LB
920742C	2150 MM CONNECTOR	97 MM	1016 MM	N/A	2438 MM	4.5 KG
	7 FT CONNECTOR	3.8"	40"	N/A	96"	10 LB

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Have You Heard of the Four Spiritual Laws?

Just as there are physical laws that govern the physical universe, so are there spiritual laws that govern your relationship with God.

LAW 1

God **loves** you and offers a wonderful **plan** for your life.

God's Love

"God so loved the world that He gave His one and only Son, that whoever believes in Him shall not perish but have eternal life" (John 3:16, NIV).

God's Plan

[Christ speaking] "I came that they might have life, and might have it abundantly" [that it might be full and meaningful] (John 10:10). Why is it that most people are not experiencing the abundant life? Because...

LAW 2

Man is **sinful** and **separated** from God. Therefore, he cannot know and experience God's love and plan for his life.

Man Is Sinful

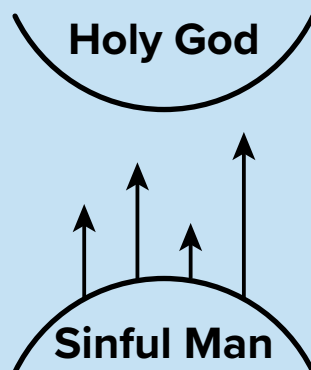
"All have sinned and fall short of the glory of God" (Romans 3:23).

Man was created to have fellowship with God; but, because of his own stubborn self-will, he chose to go his own independent way and fellowship with God was broken. This self-will, characterized by an attitude of active rebellion or passive indifference, is an evidence of what the Bible calls sin.

Man Is Separated

"The wages of sin is death" [spiritual separation from God] (Romans 6:23).

This diagram illustrates that God is holy and man is sinful. A great gulf separates the two. The arrows illustrate that man is continually



trying to reach God and the abundant life through his own efforts, such as a good life, philosophy, or religion-but he inevitably fails.

The third law explains the only way to bridge this gulf...

LAW 3

Jesus Christ is God's only provision for man's sin. Through Him you can know and experience God's love and plan for your life.

He Died In Our Place

"God demonstrates His own love toward us, in that while we were yet sinners, Christ died for us" (Romans 5:8).

He Rose from the Dead

"Christ died for our sins ... He was buried ... He was raised on the third day, according to the Scriptures ...

He appeared to Peter, then to the twelve. After that He appeared to more than five hundred..." (1 Corinthians 15:3-6).

He Is the Only Way to God

"Jesus said to him, 'I am the way, and the truth,



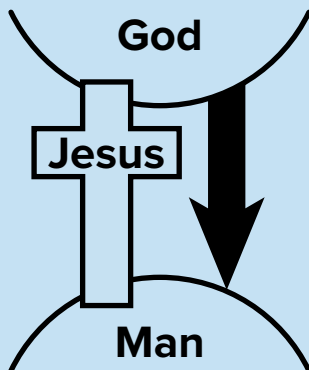
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and the life; no one comes to the Father but through Me” (John 14:6).

This diagram illustrates that God has bridged the gulf that separates us from Him by sending His Son, Jesus Christ, to die on the cross in our place to pay the penalty for our sins. It is not enough just to know these three laws..



LAW 4

We must individually **receive** Jesus Christ as Savior and Lord; then we can know and experience God’s love and plan for our lives.

We Must Receive Christ

“As many as received Him, to them He gave the right to become children of God, even to those who believe in His name” (John 1:12).

We Receive Christ Through Faith

“By grace you have been saved through faith; and that not of yourselves, it is the gift of God; not as a result of works that no one should boast” (Ephesians 2:8,9).

When We Receive Christ, We Experience a New Birth (Read John 3:1-8.)

We Receive Christ Through Personal Invitation [Christ speaking] “Behold, I stand at the door and knock; if any one hears My voice and opens the door, I will come in to him” (Revelation 3:20). Receiving Christ involves turning to God from self (repentance) and trusting Christ to come into our lives to

forgive our sins and to make us what He wants us to be. Just to agree **intellectually** that Jesus Christ is the Son of God and that He died on the cross for our sins is not enough. Nor is it enough to have an **emotional** experience. We receive Jesus Christ by **faith**, as an act of the **will**. These two circles represent two kinds of lives:

Self-Directed Life

S—Self is on the throne
†—Christ is outside the life
●—Interests are directed by self, often resulting in discord and frustration



Christ-Directed Life

S—Self is yielding to Christ
†—Christ is in the life and on the throne
●—Interests are directed by Christ, resulting in harmony with God’s plan



Which circle best represents your life?

Which circle would you like to have represent your life?

The following explains how you can receive Christ:

You Can Receive Christ Right Now by Faith Through Prayer (Prayer is talking with God)

God knows your heart and is not so concerned with your words as He is with the attitude of your heart. The following is a suggested prayer:

Lord Jesus, I need You. Thank You for dying on the cross for my sins. I open the door of my life and receive You as my Savior and Lord. Thank You for forgiving my sins and giving me eternal life. Take control of the throne of my life. Make me the kind of person You want me to be.

Does this prayer express the desire of your heart? If it does, I invite you to pray this prayer right now, and Christ will come into your life, as He promised.

How to Know That Christ Is in Your Life

Did you receive Christ into your life?

According to His promise in Revelation 3:20, where is Christ right now in relation to you? Christ said He would come into your life. Would He mislead you? On what authority do you know God has answered your prayer? (The trustworthiness of God Himself and His Word.)

The Bible Promises Eternal Life to All Who Receive Christ

“God has given us eternal life, and this life is in His Son. He who has the Son has the life; he who does not have the Son of God does not have the life. These things I have written to you who believe in the name of the Son of God, in order that you may **know** that you have eternal life” (1 John 5:11-13).

Thank God often that Christ is in your life and that He will never leave you (Hebrews 13:5). You can know on the basis of His promise that Christ lives in you and that you have eternal life from the very moment you invite Him in. He will not deceive you.

An important reminder...

Do Not Depend on Feelings

The promise of God’s Word, the Bible-not our feelings-is our authority. The Christian lives by faith (trust) in the trustworthiness of God Himself and His Word. This train diagram illustrates the relationship among **fact** (God and His Word), **faith** (our trust in God and His Word), and **feeling** (the result of our faith and obedience). (Read John 14:21.)



The train will run with or without the caboose. However, it would be useless to attempt to pull the train by the caboose.

In the same way, as Christians we do not depend on feelings or emotions, but we place our faith (trust) in the trustworthiness of God and the promises of His Word.

Now That You Have Received Christ

The moment you received Christ by faith, as an act of the will, many things happened, including the following:

- Christ came into your life (Revelation 3:20; Colossians 1:27).
- Your sins were forgiven (Colossians 1:14).
- You became a child of God (John 1:12).
- You received eternal life (John 5:24).
- You began the great adventure for which God created you (John 10:10; 2 Corinthians 5:17; 1 Thessalonians 5:18).

Can you think of anything more wonderful that could happen to you than receiving Christ? Would you like to thank God in prayer right now for what He has done for you? By thanking God, you demonstrate your faith.

To enjoy your new life to the fullest...

Suggestions for Christian Growth

Spiritual growth results from trusting Jesus Christ. “The righteous man shall live by faith” (Galatians 3:11). A life of faith will enable you to trust God increasingly with every detail of your life, and to practice the following:

- G** Go to God in prayer daily (John 15:7).
- R** Read God’s Word daily (Acts 17:11); begin with the Gospel of John.
- O** Obey God moment by moment (John 14:21).



W Witness for Christ by your life and words (Matthew 4:19; John 15:8).

T Trust God for every detail of your life (1 Peter 5:7).

H Holy Spirit-allow Him to control and empower your daily life and witness (Galatians 5:16,17; Acts 1:8).

Fellowship in a Good Church

God's Word instructs us not to forsake "the assembling of ourselves together" (Hebrews 10:25). Several logs burn brightly together, but put one aside on the cold hearth and the fire goes out. So it is with your relationship with other Christians.

If you do not belong to a church, do not wait to be invited.

Take the initiative; call the pastor of a nearby church where Christ is honored and His Word is preached. Start this week, and make plans to attend regularly.

Special Materials Are Available for Christian Growth

If you have come to know Christ personally through this presentation of the gospel, helpful materials for Christian growth are available to you. For more information, write Campus Crusade for Christ, 100 Lake Hart Drive 2100, Orlando, FL 32832-0100.

(References contained in this booklet should be read in context from the Bible wherever possible.)

For God
so loved
the world
that He gave
his only begotten son
that whosoever
believeth
in Him
should not perish
but
have
everlasting life
Jesus

the greatest lover
the greatest degree
the greatest company
the greatest act
the greatest gift
the greatest opportunity
the greatest simplicity
the greatest attraction
the greatest promise
the greatest difference
the greatest certainty
the greatest possession
J. Edwin Hartell

NOTES

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Probably from Louisiana if...

Every so often, you have waterfront property.



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NOTES

Probably from Louisiana if...

You don't realize until high school what a "county" is.



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NOTES

[illegible]

Probably from Louisiana if...

You're not afraid when someone wants to "ax you something."



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