

CH240A

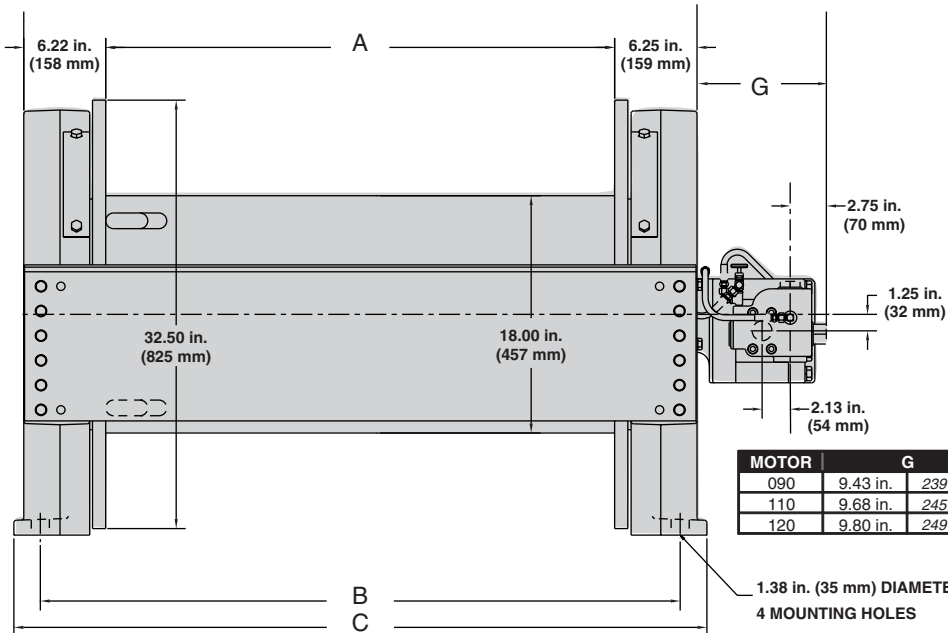
24,000 LB First Layer Line Pull



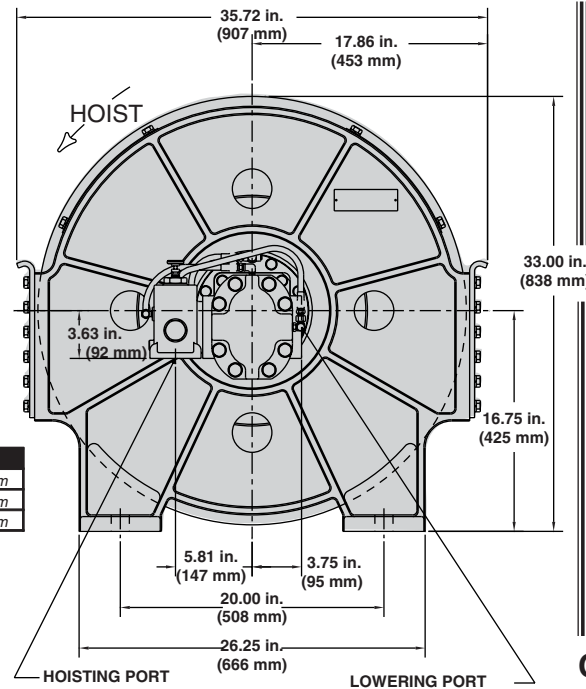
Authorized Distributor:
Pacific Marine & Industrial
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BRADEN®

DIMENSIONAL INFORMATION

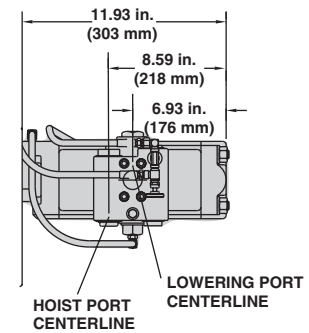


DRUM	A	B	C
-01	24.36 in. 618 mm	34.29 in. 871 mm	38.35 in. 974 mm
-02	38.61 in. 981 mm	48.54 in. 1233 mm	52.60 in. 1336 mm



2-SPEED MOTOR

HOIST & LOWER PORTS
-16 SAE O-RING
1 5/16 - 12 THREAD



Consult the factory for piston and low flow motor options.

MODEL OPTIONS

GEAR RATIOS

53 (53.30:1)

MOTOR SIZES

090 (9.02 cu. in.)
110 (11.03 cu. in.)
120 (12.04 cu. in.)
128/64 (12.76/6.38 cu. in., 2 Speed)
149 (14.90 cu. in. low speed)

DRUM SIZES

-01 (18.00B x 32.50F x 24.36L)
-02 (18.00B x 32.50F x 38.61L)

SPECIAL OPTIONS

P (ratchet and pawl)
U Underwind

COMMITMENT

Every process in the design, manufacture and support of BRADEN products is focused on one goal: Providing the highest quality winch, hoist and drive systems in the world. PACCAR Winch Division is committed to providing the best in product functionality and reliability.

Since 1905 PACCAR Inc has provided high quality products and services to numerous markets and countries. Let us put our experience and expertise to work for you.

PACCAR WINCH DIVISION
P.O. Box 547 Broken Arrow, Oklahoma 74013
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PERFORMANCE INFORMATION

		090 MOTOR				110 MOTOR				120 MOTOR				149 MOTOR (LOW FLOW)			
		9.02 CU. IN. DISP. - 3000 ΔPSI @ 125 GPM** (148 CC DISP. - 207 Δbar @ 473 LPM**)				11.03 CU. IN. DISP. - 3000 ΔPSI @ 155 GPM** (181 CC DISP. - 207 Δbar @ 587 LPM**)				12.04 CU. IN. DISP. - 2950 ΔPSI @ 170 GPM** (197 CC DISP. - 203 Δbar @ 643 LPM**)				14.9 CU. IN. DISP. - 2750 ΔPSI @ 30 GPM (244 CC DISP. - 190 Δbar @ 133 LPM)			
ROPE SIZE	LAYER	LINE PULL		LINE SPEED		LINE PULL		LINE SPEED		LINE PULL		LINE SPEED		LINE PULL		LINE SPEED	
		(LBS)	(KG)	(FPM)	(MPM)	(LBS)	(KG)	(FPM)	(MPM)	(LBS)	(KG)	(FPM)	(MPM)	(LBS)	(KG)	(FPM)	(MPM)
7/8	1	18,150	8,233	277	84	22,470	10,315	281	86	24,000	10,886	284	86	24,000	10,886	33	10
	2	16,610	7,534	303	92	20,560	9,326	307	94	21,970	9,966	311	95	21,970	9,966	36	11
	3	15,310	6,945	329	100	18,950	8,596	333	102	20,250	9,185	337	103	20,250	9,185	39	12
	4	14,200	6,441	355	108	17,580	7,974	359	109	18,780	8,519	364	111	18,780	8,519	42	13
	5	13,240	6,006	380	116	16,390	7,435	385	117	17,510	7,943	390	119	17,510	7,943	45	14
	6	12,400	5,625	406	124	15,350	6,963	412	126	16,400	7,439	416	127	16,400	7,439	48	15
	7	11,660	5,289	432	132	14,430	6,545	438	134	15,430	7,000	443	135	15,430	7,000	52	16
	8*	11,010	4,994	458	140	13,620	6,178	464	141	14,560	6,604	469	143	14,560	6,604	55	17

*This layer does not comply with ANSI standard B30.5 for 1/2" exposed flange.

**Consult factory for flows above 120 GPM (454 LPM)

		TWO SPEED MOTOR							
		LOW SPEED				HIGH SPEED			
		12.74 CU. IN. DISP. - 2750 ΔPSI @ 85 GPM (209 CC DISP. - 190 Δbar @ 322 LPM)				6.38 CU. IN. DISP. - 2750 ΔPSI @ 85 GPM (105 CC DISP. - 190 Δbar @ 322 LPM)			
ROPE SIZE	LAYER	LINE PULL		LINE SPEED		LINE PULL		LINE SPEED	
		(LBS)	(KG)	(FPM)	(MPM)	(LBS)	(KG)	(FPM)	(MPM)
7/8	1	24,000	10,886	119	36	10,670	4,840	218	66
	2	21,970	9,966	130	40	9,760	4,427	286	87
	3	20,250	9,185	141	43	9,000	4,082	310	94
	4	18,780	8,519	152	46	8,340	3,783	334	102
	5	17,510	7,943	163	49	7,780	3,529	358	109
	6	16,400	7,439	174	53	7,290	3,307	383	117
	7	15,430	7,000	185	56	6,850	3,107	407	124
	8*	14,560	6,604	196	60	6,470	2,935	431	131

*This layer does not comply with ANSI standard B30.5 for 1/2" exposed flange.

⚠ WARNING ⚠

A minimum of 5 wraps of wire rope must be left on the drum to prevent the load from being supported by the wire rope anchor alone. Since the wire rope anchor is not designed to hold the rated load, failure to leave 5 wraps of wire rope on the drum could cause the load to drop, which could result in property damage, personal injury or death.

WIRE ROPE CAPACITY

-01 DRUM (18.00B x 32.50F x 24.36L)										
CABLE SIZE	LAYER							MAXIMUM LAYERS	Pitch Dia. Ratio	
	FIRST		MID			TOP				
	ft	m	ft	#	m	ft	m			
7/8	137	42	625	4	190	1228	374	7	21.5:1	
1	121	37	400	3	122	915	279	6	19:1	
1 1/8	108	33	362	3	110	839	256	6	17:1	

-02 DRUM (18.00B x 32.50F x 38.61L)										
CABLE SIZE	LAYER							MAXIMUM LAYERS	Pitch Dia. Ratio	
	FIRST		MID			TOP				
	ft	m	ft	#	m	ft	m			
7/8	218	66	992	4	302	1948	594	7	21.5:1	
1	192	59	636	3	194	1453	433	6	19:1	
1 1/8	171	52	575	3	175	1331	406	6	17:1	

NOTES

Specifications are subject to change without notification and without incurring obligation.

Pressure and flow shown are the maximum allowable for the particular combination of winch, ratio, motor and drum.

Specifications in this publication are theoretical and may vary depending on hydraulic system, environment, etc.

Line pulls are maximum ratings for the winch only.

Wire rope ratings may be lower than the the winch rating.

Consult the wire rope manufacturer for ratings.

LINE PULL AT LOWER PRESSURE

$$\frac{\text{YOUR SYSTEM PRESSURE}}{\text{MAXIMUM PRESSURE (FROM CHART)}} \times \frac{\text{LINE PULL FROM CHART}}{\text{ESTIMATE}} = \text{LINE PULL ESTIMATE}$$

EXAMPLE:

$$\frac{1000 \text{ PSI}}{3000 \text{ PSI}} \times 12,000 \text{ LBS} = 4000 \text{ LBS.}$$

LINE SPEED AT LOWER FLOW

$$\frac{\text{YOUR SYSTEM FLOW}}{\text{MAXIMUM FLOW (FROM CHART)}} \times \frac{\text{LINE SPEED FROM CHART}}{\text{ESTIMATE}} = \text{LINE SPEED ESTIMATE}$$

EXAMPLE:

$$\frac{25 \text{ GPM}}{125 \text{ GPM}} \times 200 \text{ FPM} = 40 \text{ FPM}$$

MINIMUM FLOW RECOMMENDATION FOR SMOOTH OPERATION*

MOTOR	GPM	LPM
120	28	106
110	27	102
90	24	91
149	CONSULT FACTORY	

*RECOMMENDED MINIMUM **SYSTEM** FLOW SHOULD BE 2X THESE VALUES

