



WARN Industrial Winch

Model	Part Number	Motor Type
Series 20XL-LP Hydraulic Winch Air Clutch	79210	Hydraulic 11.9 ci (195cc)



The Warn Series XL product line combines durable cast iron construction, high efficiency hydraulic motor, and a robust 2X rated load braking system with a permanently lubricated and hardened 2-stage planetary gear train for superior intermittent-duty performance for loads up to 30,000 lbs. Winches are also available with manual or air clutches and 2 drum widths. A roller tension plate is standard along with bi-directional operation and a variety of mounting options to fit a variety of applications.

Warn Series XL winches are not suitable for hoisting applications or movement of persons.

Accessories

Description:	Part Number
Fairlead SRS-XL-LONG	77869
Wire Rope Assembly 9/16"x245' EIPS	77452
Snatch Block XL-60K LB	80858

Engineering Data			
Rated Pulling Force:	20000	lbf	9072 kgf
Drum Barrel Diameter:	5.75	in	146 mm
Drum Flange Diameter:	12.25	in	311 mm
Distance Between Flanges:	14	in	356 mm
Recommended Maximum Wire Rope Diameter:	9/16	in	14.3 mm
Recommended Minimum Wire Rope Breaking Strength:	33600	lbf	15241 kgf
Approximate Shipping Weight:	322	lb	146 kg
Duty Cycle (intermittent per SAE J706 section 6.2):	2760	ft	841.2 m
Mounting Bolt Torque:	159	ft*lb	216 N*m
Maximum Layers of Wire Rope:	5		
Gear Reduction:	28.5:1		
Brake Type:	Spring Applied Disk		
Contactor / Remote Type:	N/A		

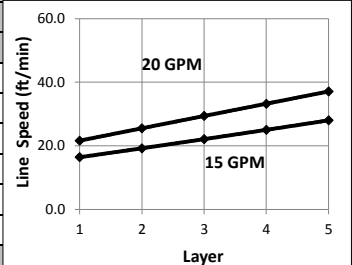
Drum Rotation

Viewed from Motor End

Standards Compliance

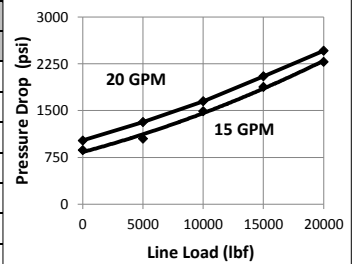
- SAE J706
- CE Machinery Directive 98/37/EC and 2006/42/EC

Drum Layer	Line Load *			Line Speed 15 GPM		Line Speed 20 GPM		Drum Capacity	
	lbf	kgf	kN	ft/min	m/min	ft/min	m/min	ft	m
1	20000	9072	89.0	16.4	5.0	21.6	6.6	36	11.0
2	16975	7700	75.5	19.2	5.9	25.5	7.8	79	24.1
3	14745	6688	65.6	22.1	6.7	29.4	9.0	129	39.3
4	13032	5911	58.0	25.0	7.6	33.2	10.1	185	56.4
5	11676	5296	51.9	28.0	8.5	37.1	11.3	248	75.6



* Never exceed the Rated Pulling Force. Installation of a Rated Capacity Limiter is recommended.

First Layer Performance						
Line Load		Pressure Drop at 15 GPM		Pressure Drop at 20 GPM		Duty Cycle
lbf	kgf	psi	BAR	psi	BAR	min/10min
0	0	865	59.6	1020	70.3	N/A
5000	2268	1050	72.4	1315	90.7	N/A
10000	4536	1490	102.7	1650	113.8	N/A
15000	6804	1880	129.6	2050	141.3	N/A
20000	9072	2280	157.2	2460	169.6	N/A



WARN INDUSTRIES, INC
Industrial Products

Customer Service (North America): 1.800.543.9276
Customer Service (International): 1.503.722.3008
FAX: 1.503.722.3000 www.warn.com

12900 S.E. Capps Road,
Clackamas, OR USA 97015



WARN Industrial Winch

Model

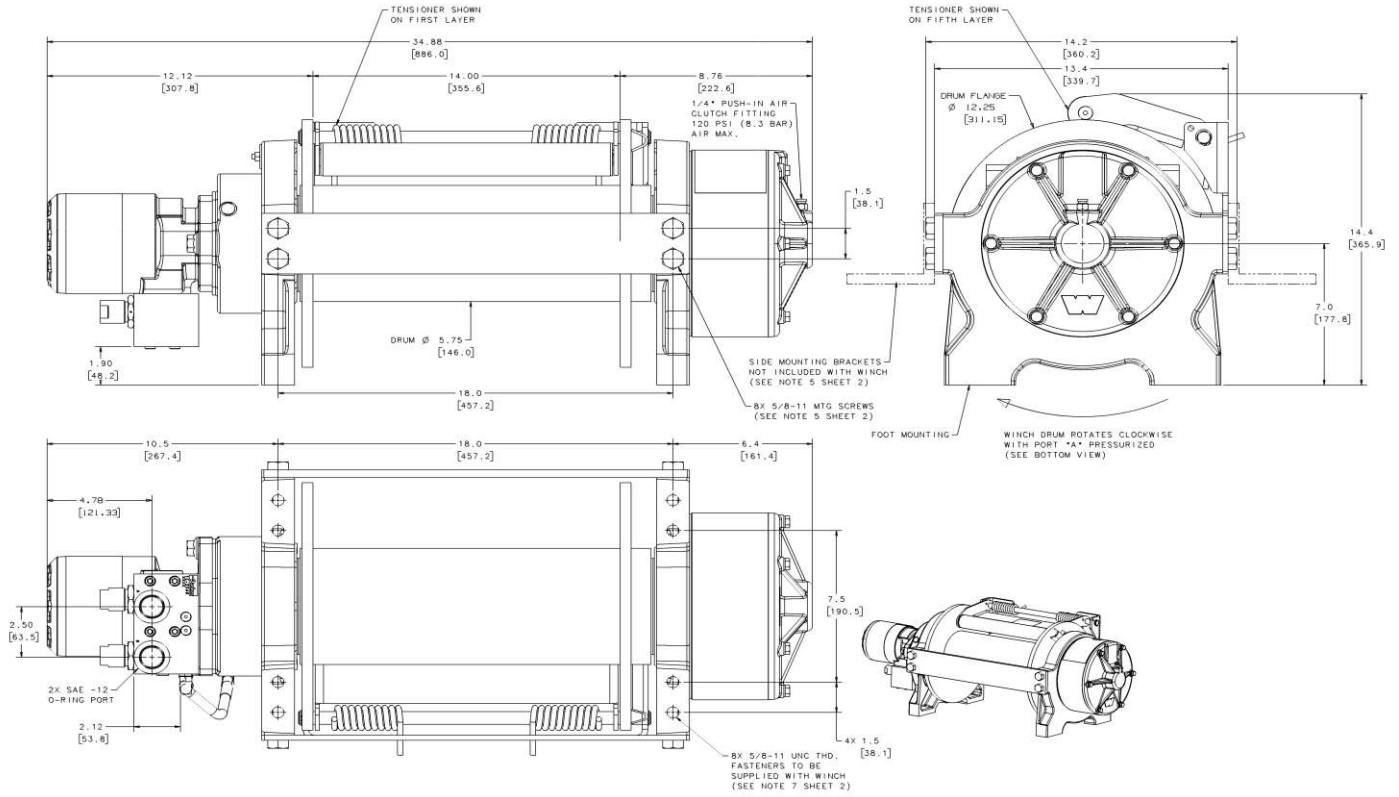
Part Number

Motor Type

Series 20XL-LP
Hydraulic Winch
Air Clutch



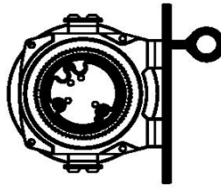
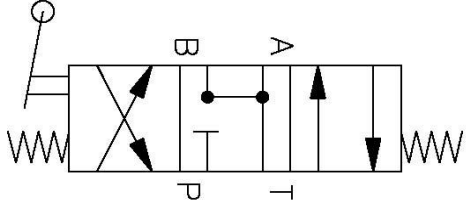


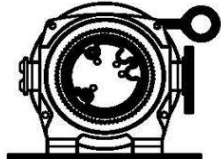

79210

Hydraulic
11.9 ci (195cc)



Motor / Contactor may be rotated in 90 degree increments. Clutch housing may be rotated in 60 degree increments.

Units are given in inches [millimeters], unless otherwise specified

Recommended Mounting- Always Observe Correct Drum Rotation			Hydraulic System Specifications		
Pull from bottom of winch 	Pull from bottom of winch 	Pull from top of winch 	Maximum System Pressure:	3000 psi	207 BAR
			Maximum Motor Pressure Drop:	3000 psi	207 BAR
			Maximum Rated Input Flow:	20 GPM	76 LPM
			Control Valve Type:	3-position, 4-way, open center, spring return (motor spool)	
Control Valve Schematic					
					
					
Feet down 	Feet down with angle brace 	Angle Braces Only 	Note: Drum rotates clockwise with Port A pressurized when viewed from gearbox end.		

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