



WARN Industrial Winch

Model

**Series 9-C-50
Hydraulic Winch
Air Clutch**

Part Number

74665

Motor Type

Hydraulic
4.9 ci
(80 cc)



The Series 9 Round Top hydraulic winch features a 2-stage planetary gear train with a total reduction of 27:1. This winch uses a heavy duty automatic disc brake and air clutch. The 4" (102mm) steel drum provides excellent durability for the wire rope. The low profile round top design with steel guard plates, low mounted tie rods, and bottom clutch position guard against impact damage. Designed to meet SAE J706 standards.

*Remote Air Clutch included

Accessories

Description:	Part Number
Wire Rope Tension Plate 8"	31150
Fairlead Black 8"	24335
Fairlead Chrome 8"	30860
Remote Clutch Mechanical	38316
Wire Rope Assembly 3/8"x30M EIPS	27569

Engineering Data

Rated Pulling Force:	9000 lbf	4082 kgf
Drum Barrel Diameter:	4.00 in	102 mm
Drum Flange Diameter:	8.24 in	209 mm
Distance Between Flanges:	7.95 in	202 mm
Recommended Maximum Wire Rope Diameter:	1/2 in	12.7 mm
Recommended Minimum Wire Rope Breaking Strength:	15100 lbf	6849 kgf
Approximate Shipping Weight:	78.0 lb	35.4 kg
Duty Cycle (intermittent per SAE J706 section 6.2):	1034 ft	315 m
Mounting Bolt Torque:	35 - 40 ft*lb	47 - 54 N*m
Maximum Layers of Wire Rope:	4 (with 3/8" dia. rope)	
Gear Reduction:	27:1	
Brake Type:	Disk	
Contactor / Remote Type:	N/A	

Drum Rotation



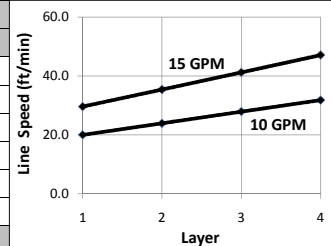
Viewed from Motor End

Standards Compliance

1. -SAE J706

Performance By Layer- 3/8" (9.5 mm) dia. rope

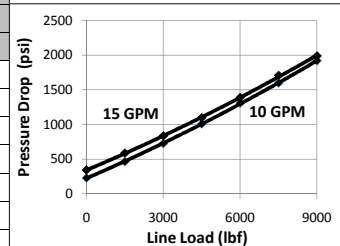
Drum Layer	Line Load *			Line Speed 10 GPM		Line Speed 15 GPM		Drum Capacity	
	lbf	kgf	kN	ft/min	m/min	ft/min	m/min	ft	m
1	9000	4082	40.0	20.0	6.1	29.6	9.0	20	6.1
2	7518	3410	33.4	23.9	7.3	35.4	10.8	43	13.1
3	6455	2928	28.7	27.9	8.5	41.2	12.6	70	21.3
4	5655	2565	25.2	31.8	9.7	47.1	14.4	101	30.8



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

First Layer Performance

Line Load		Pressure Drop at 10 GPM		Pressure Drop at 15 GPM		Duty Cycle
lbf	kgf	psi	BAR	psi	BAR	min/10min
0	0	229	15.8	342	23.6	N/A
1500	680	464	32.0	585	40.3	N/A
3000	1361	725	50.0	833	57.4	N/A
4500	2041	1007	69.4	1096	75.6	N/A
6000	2722	1307	90.1	1386	95.6	N/A
7500	3402	1597	110.1	1706	117.6	N/A
9000	4082	1917	132.2	1986	136.9	N/A



WARN INDUSTRIES, INC
Industrial Products

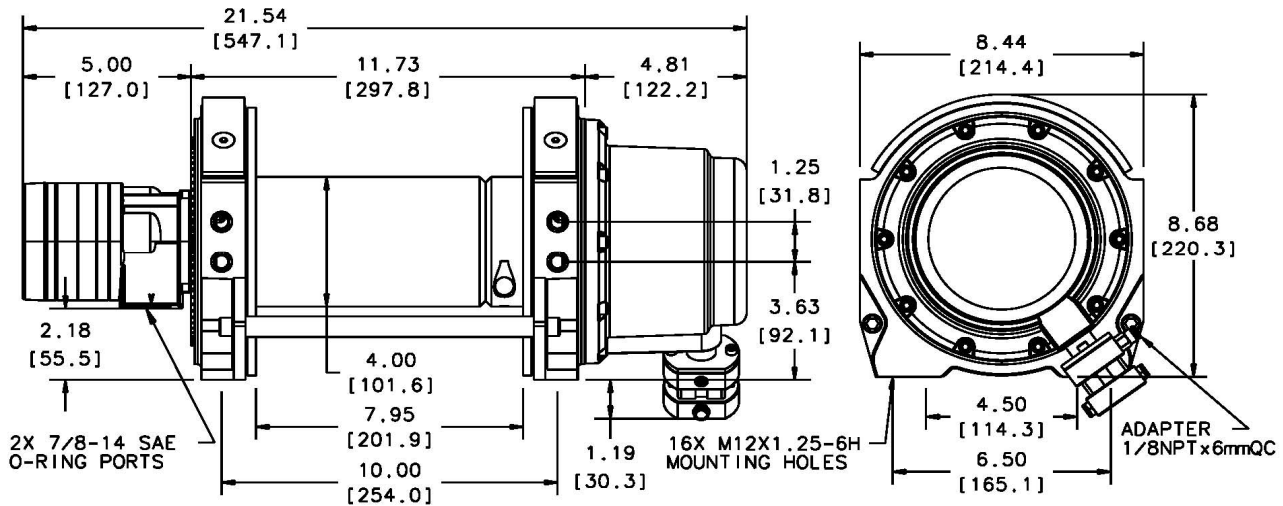
Customer Service (North America): 1.800.543.9276
Customer Service (International): 1.503.722.3008
FAX: 1.503.722.3000 www.warn.com

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



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Model	Part Number	Motor Type
Series 9-C-50 Hydraulic Winch Clutch	Air 74665	Hydraulic 4.9 ci (80 cc)



Motor / Contactor may be rotated in 90 degree increments. Clutch housing may be rotated in 72 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:	1950 psi 135 BAR
			Maximum Motor Pressure Drop:	1986 psi 137 BAR
Feet down	Feet forward	Feet forward	Maximum Rated Input Flow:	15 GPM 57 LPM
Pull from top of winch	Pull from top of winch	Pull from top of winch	Control Valve Type:	3-position, 4-way, closed center, spring return (cylinder spool)
			Control Valve Schematic	
Feet down without angle brace	Feet down with angle brace	Angle Braces Only		
Notes:				

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