



WARN Industrial Winch

Model

**Series 12-A-48
Hydraulic Winch
Manual Clutch**

Part Number

30285

Motor Type

Hydraulic
4.9 ci
(80 cc)



The Series 12 hydraulic winch features a 2 stage planetary gear train with a total reduction of 36:1. This winch uses a heavy duty automatic disc brake and a locking clutch lever. The 4" (102mm) steel drum provides excellent durability for the wire rope. Designed to meet SAE J706 and CE standards.

Accessories

| Description: | Part Number |
|------------------------------------|-------------|
| Wire Rope Tension Plate 10" | 31149 |
| Fairlead Black 10" | 24336 |
| Fairlead Chrome 10" | 30859 |
| Remote Clutch Mechanical | 38316 |
| Remote Clutch Air | 71370 |
| Wire Rope Assembly 7/16"x100' EIPS | 23678 |

Engineering Data

| | | | | |
|---|-------------------------|-------|---------|-----|
| Rated Pulling Force: | 12000 | lbf | 5443 | kgf |
| Drum Barrel Diameter: | 4.00 | in | 102 | mm |
| Drum Flange Diameter: | 8.24 | in | 209 | mm |
| Distance Between Flanges: | 9.95 | in | 253 | mm |
| Recommended Maximum Wire Rope Diameter: | 1/2 | in | 12.7 | mm |
| Recommended Minimum Wire Rope Breaking Strength: | 20400 | lbf | 9253 | kgf |
| Approximate Shipping Weight: | 85.5 | lb | 38.8 | kg |
| Duty Cycle (intermittent per SAE J706 section 6.2): | 350 | ft | 107 | m |
| Mounting Bolt Torque: | 35 - 40 | ft*lb | 47 - 54 | N*m |
| Maximum Layers of Wire Rope: | 4 (with 7/16" dia rope) | | | |
| Gear Reduction: | 36:1 | | | |
| Brake Type: | Disk | | | |
| Contactor / Remote Type: N/A | | | | |

Drum Rotation



Viewed from Motor End

Standards Compliance

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

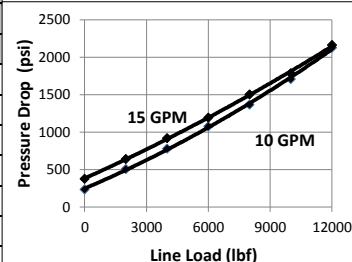
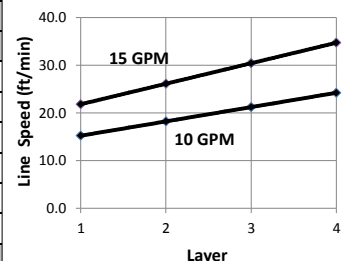
Performance By Layer- 7/16" (11.1 mm) dia. rope

| 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 | 12000 | 5443 | 53.4 | 15.2 | 4.6 | 21.8 | 6.6 | 23 | 7.0 |
| 2 | 10023 | 4546 | 44.6 | 18.2 | 5.5 | 26.1 | 8.0 | 51 | 15.5 |
| 3 | 8606 | 3904 | 38.3 | 21.2 | 6.5 | 30.4 | 9.3 | 84 | 25.6 |
| 4 | 7539 | 3420 | 33.5 | 24.2 | 7.4 | 34.7 | 10.6 | 121 | 36.9 |

* 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 | 234 | 16.1 | 376 | 25.9 | N/A |
| 2000 | 907 | 505 | 34.8 | 640 | 44.1 | N/A |
| 4000 | 1814 | 777 | 53.6 | 918 | 63.3 | N/A |
| 6000 | 2722 | 1076 | 74.2 | 1193 | 82.3 | N/A |
| 8000 | 3629 | 1367 | 94.3 | 1503 | 103.6 | N/A |
| 10000 | 4536 | 1707 | 117.7 | 1784 | 123.0 | N/A |
| 12000 | 5443 | 2127 | 146.7 | 2163 | 149.1 | N/A |



WARN INDUSTRIES, INC
Industrial Products

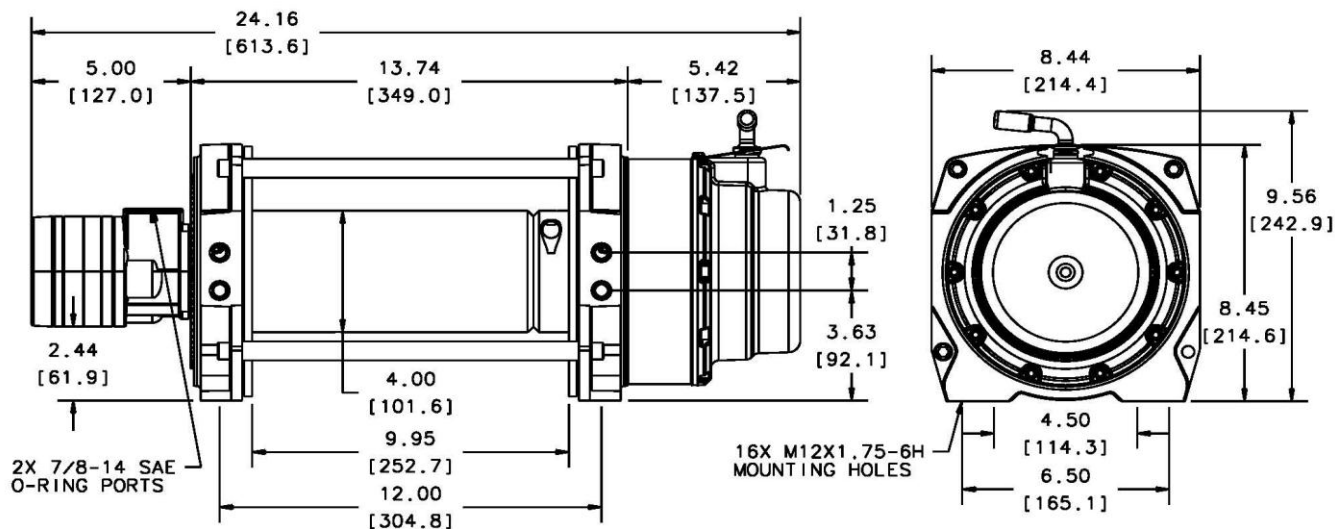
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Clackamas, OR USA 97015





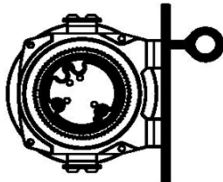



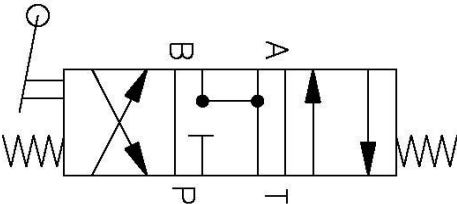

WARN Industrial Winch

| Model | Part Number | Motor Type |
|--|-------------|--------------------------------|
| Series 12-A-48 Hydraulic Winch Manual Clutch | 30285 | 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: | 2200 psi | 152 BAR |
|  |  |  | Maximum Motor Pressure Drop: | 2163 psi | 149 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 |  | | |
| | | |  | | |
| | | | Note: Drum rotates clockwise with Port A pressurized when viewed from gearbox end. | | |

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