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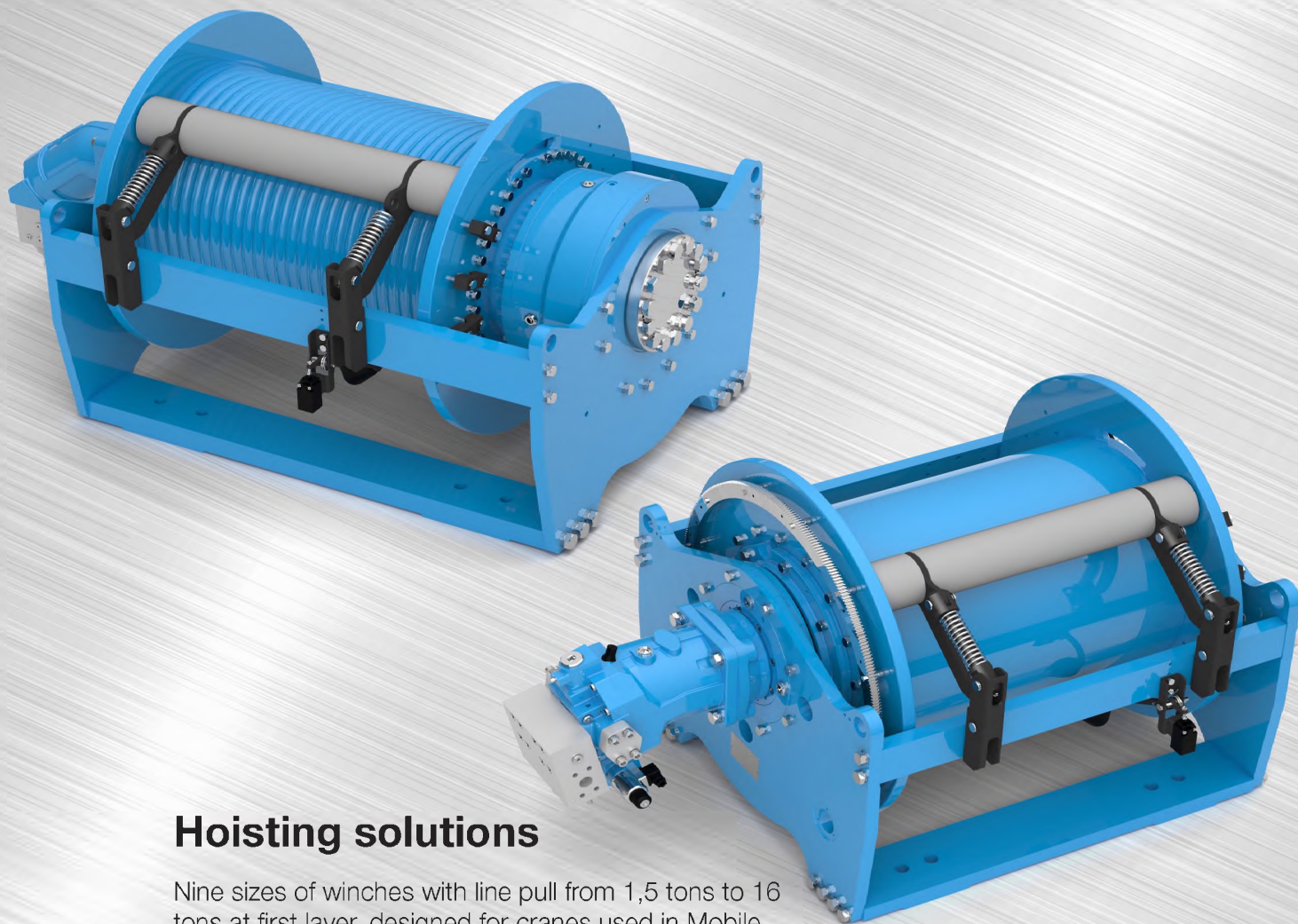


BREVINI®

Motion Systems

Brevini® Evolution™ Series Hoisting Winches

The new Winch Series for Mobile and Industrial Markets



Hoisting solutions

Nine sizes of winches with line pull from 1,5 tons to 16 tons at first layer, designed for cranes used in Mobile and Industrial market. The winches are equipped with High Speed Brevini® Hydraulic Motor and a wide range of controls ensure safety, avoid damage to the winch, the crane, and most importantly, people on job site.

Brevini® Evolution™ Series Hoisting Winches

The brand new series of high-performance Brevini® Evolution™ Series winches for construction and material-handling vehicles, marine, off-shore and many other mobile or stationary applications are the result of years of experience in Engineering and Manufacturing of winches.

With 9 sizes available, BWE015, BWE025, BWE035, BWE055, BWE070, BWE085, BWE105, BWE125 and BWE160 which offer a lifting capacity from 1,5 ton to 16 ton (3,300 lbf to 35,200 lbf) we will enhance the product range and give us the opportunity to better serve our customers.

Brevini® Evolution™ Series Winches feature the Brevini® high-speed piston motor, fixed or variable displacement.

Introducing the nine piston motor technology as a standard option we are able to provide ideal balance and smooth control even at very low speed keeping high performance level. Electric motor are also available on request.

The new winch series has a strong modular design that makes the winch able to meet customer specification in terms of performances as well as customer needs in term of accessories.

For all sizes are available grooved drum made by the special groove profile which improve the spooling performances, rope capacity as well as rope lifetime.

A wide range of accessories are available to improve safety and control of all winch function.

For all sizes are available pressure roller, hydraulic or electric limit switch as last safety wraps indicator, electric or hydraulic rotary limit switch as minimum and maximum rope capacity indicator, speed sensor, torque/overload sensor to have better control on spooling and other winch operation.

For all sizes is available the “Personnel Lifting” version due to a secondary brake directly connected to the drum which assure safety and control in all working condition.

Other accessories like rope, hook and shackle are available to meet customer requirements.

The new winch series are suitable for marine environment due to many technical features which makes the winch the perfect solution for this application, drum and frame in steel, pressure roller made in stainless steel, marine painting.

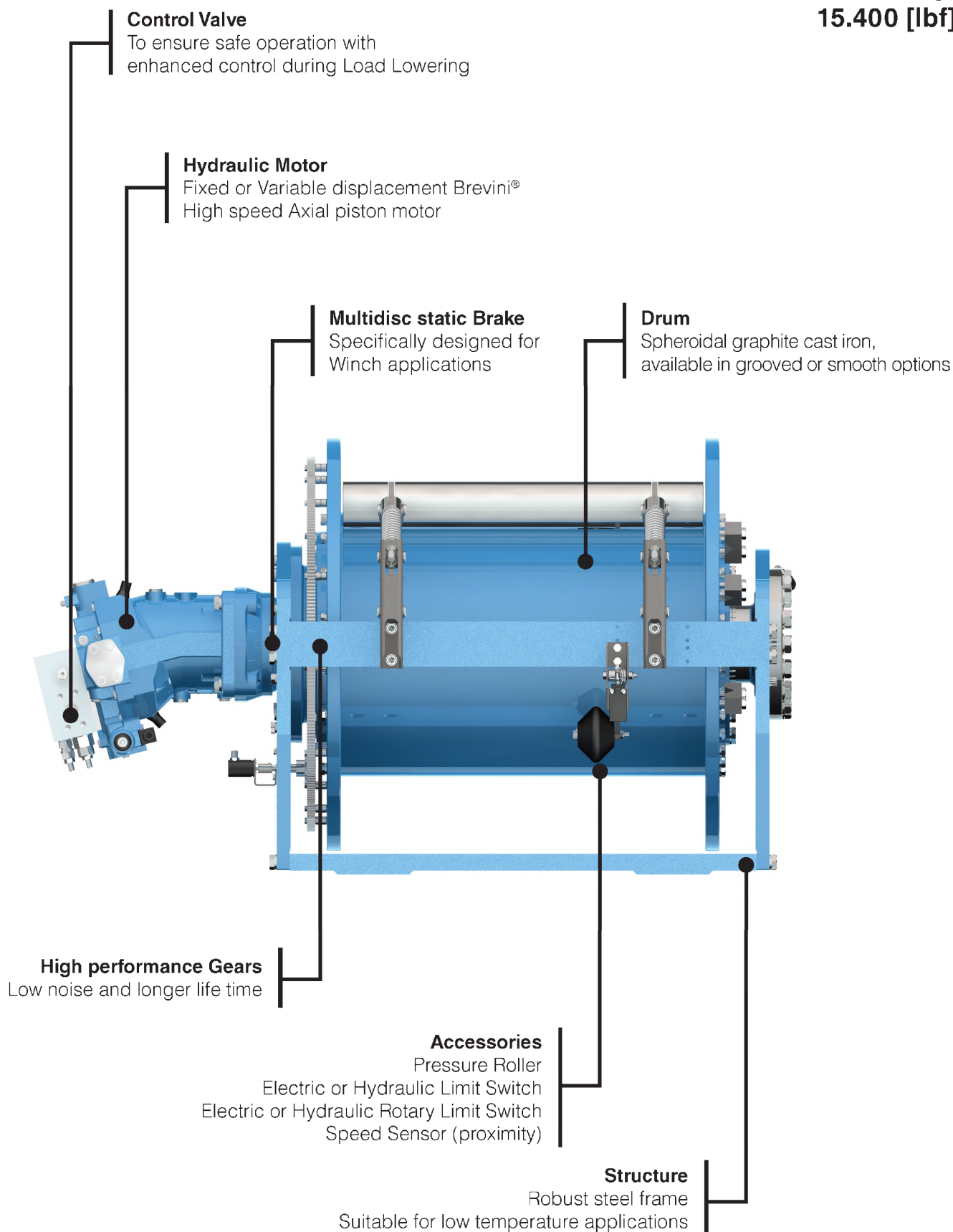
The winches are designed to meet safety certification standards for major international organizations governing these applications. Brevini® winches are suitable for ambient

working Temperature between -20°C to +40°C. In case of ambient working temperature lower than -20°C has to be approved by Engineering.

Different working condition on request.

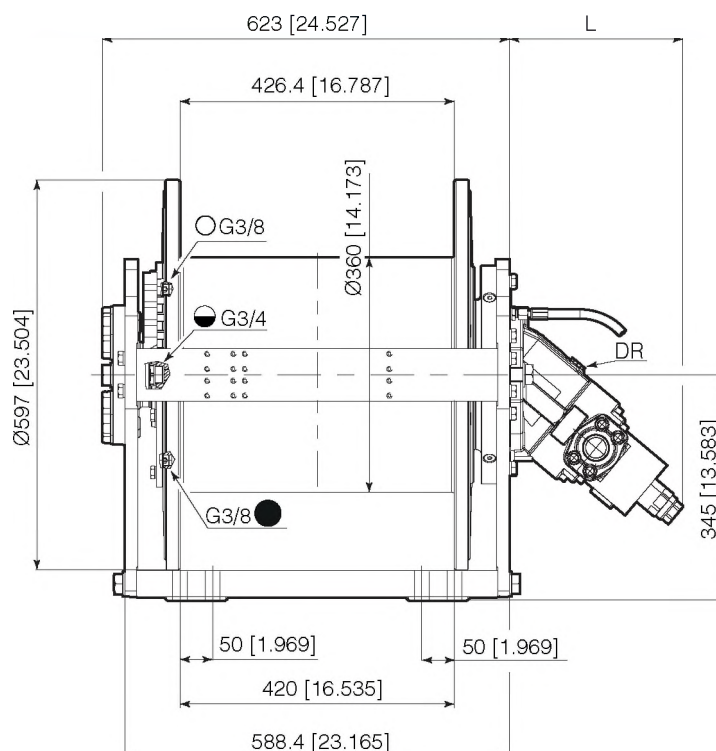
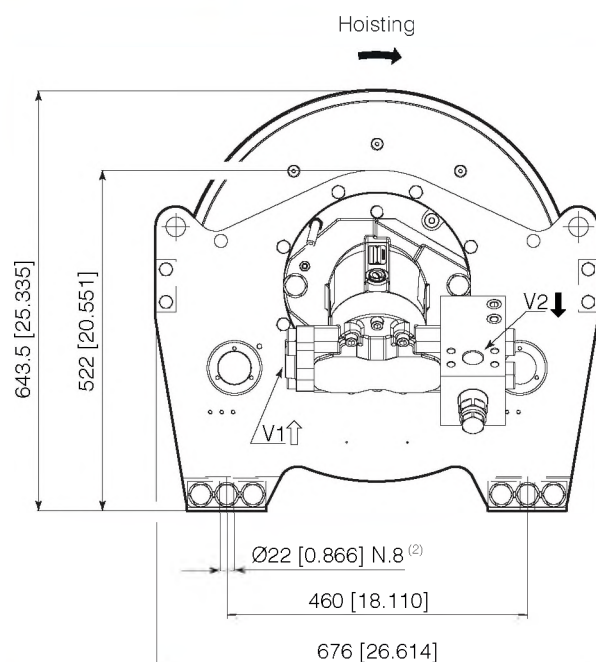
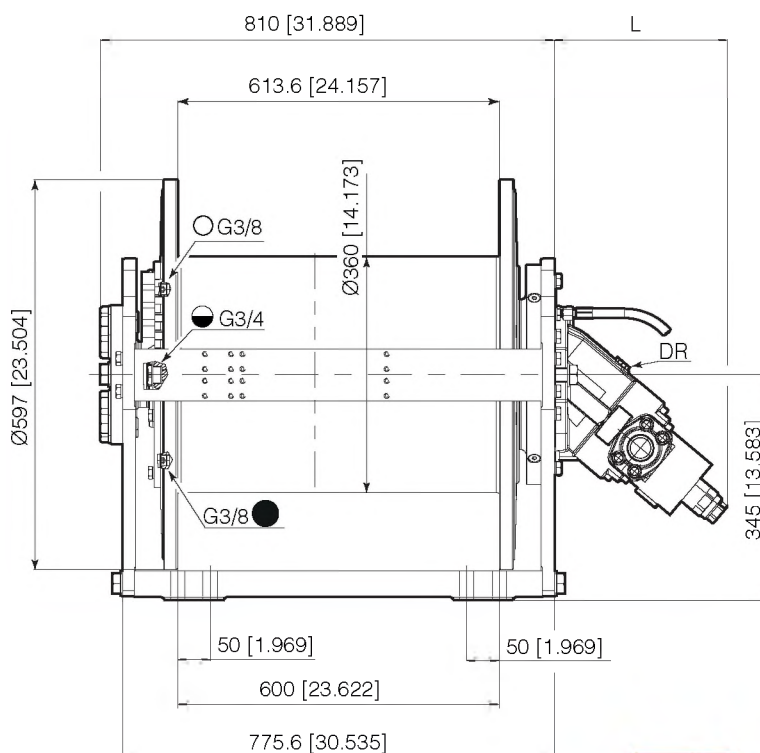
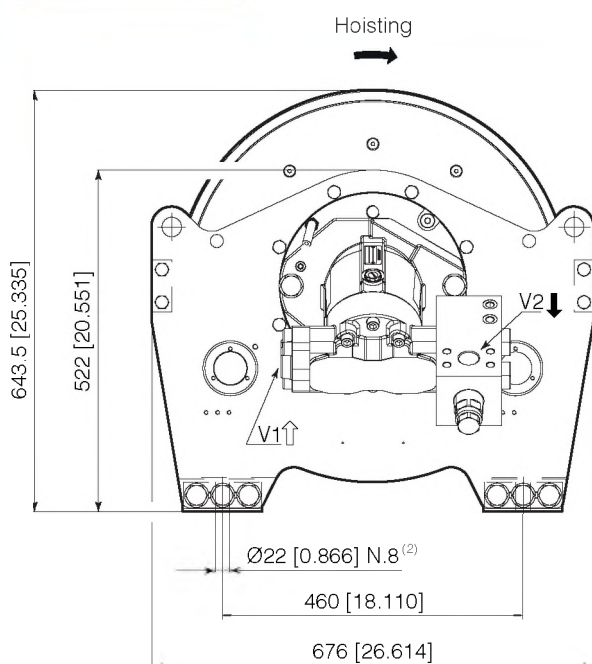
More than 40 years of winches experience makes this new winch series an innovative and high-performance products ideal for the new generation of machine.

Line Pull at first Layer up to:
7.000 [kg]
15.400 [lbf]



Brevini® Hydraulic Axial Piston Motor

	Motor type	Displacement	L
Fixed Displacement	SH11CR090 ⁽¹⁾	90 cm³/rev [5.47 in³/rev]	239 mm [9.409 in]
Fixed Displacement	SH11CR125 ⁽¹⁾	125 cm³/rev [7.61 in³/rev]	265 mm [10.433 in]
Variable Displacement	SH9V115 ⁽¹⁾	115 cm³/rev [7.00 in³/rev]	408 mm [16.062 in]
With NO Motor	Universal Input Flange 00	-	6.0 mm [0.236 in]

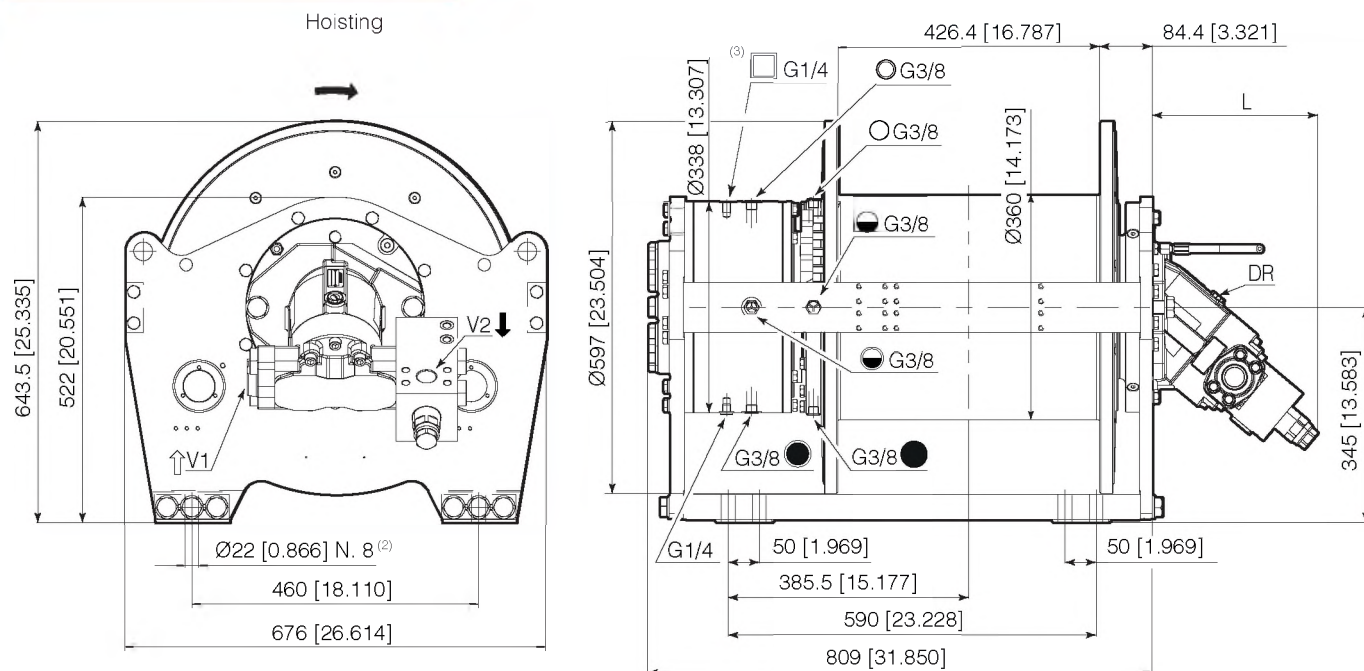
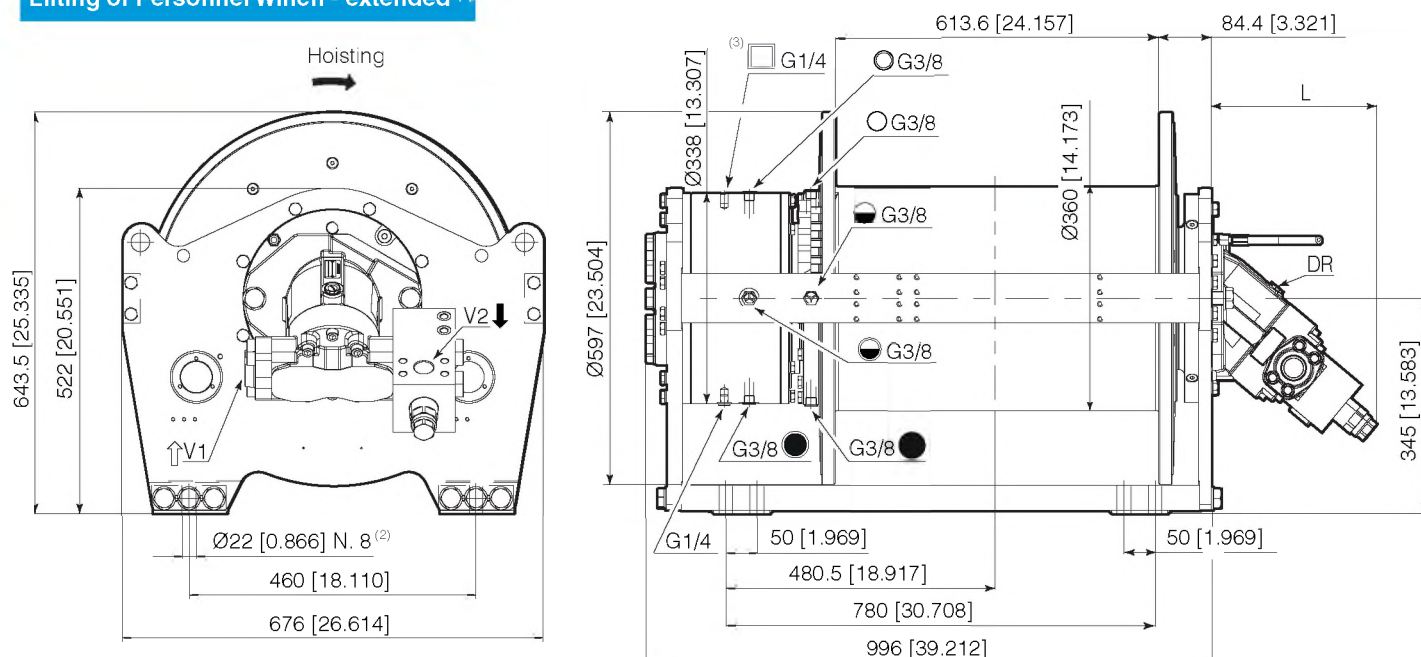
Winch - standard ⁽³⁾

Winch - extended ⁽³⁾

⁽¹⁾ As Standard with single overcenter valve, double overcenter valve available on request.

⁽²⁾ N. 4 bolts for DNV certified version only. N. 8 bolts for other versions.

⁽³⁾ Catalogue dimensions only for reference, see dimensional drawing for detailed information

Brevini® Hydraulic Axial Piston Motor for Lifting of Personnel Winches

	Motor type	Displacement	L
Fixed Displacement	SH11CR090 ⁽¹⁾	90 cm ³ /rev [5.47 in ³ /rev]	239 mm [9.409 in]
Fixed Displacement	SH11CR125 ⁽¹⁾	125 cm ³ /rev [7.61 in ³ /rev]	265 mm [10.433 in]
Variable Displacement	SH9V115 ⁽¹⁾	115 cm ³ /rev [7.00 in ³ /rev]	408 mm [16.062 in]
With NO Motor	Universal Input Flange 00	-	6.0 mm [0.236 in]

Lifting of Personnel Winch - standard ⁽⁴⁾

Lifting of Personnel Winch - extended ⁽⁴⁾

⁽¹⁾ As Standard with single overcenter valve, double overcenter valve available on request.

⁽²⁾ N. 4 bolts for DVN certified version only, N. 8 bolts for other versions.

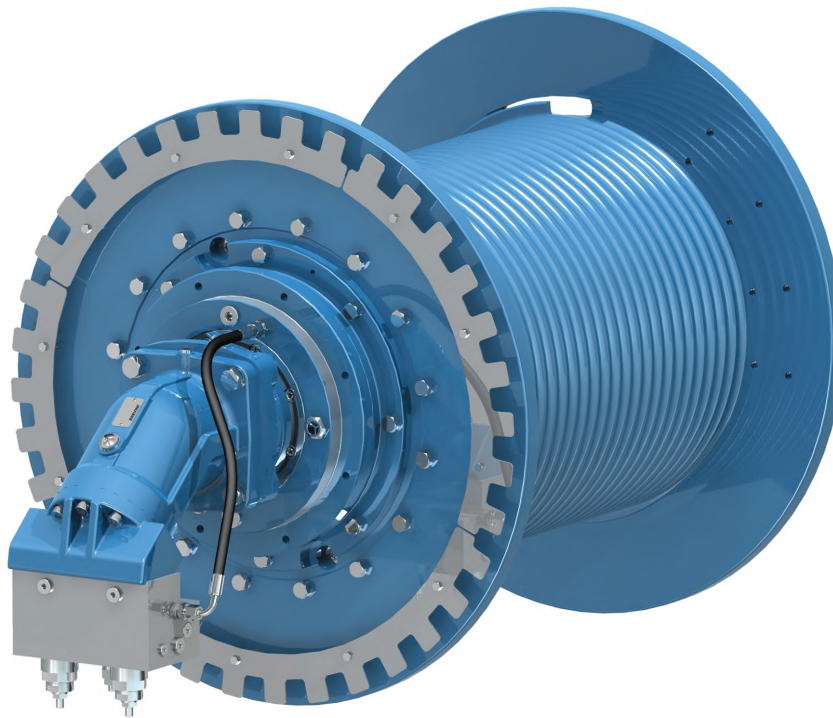
⁽³⁾ Lifting of personnel brake release pressure (Release / Max) 39/300 bar [566/4355 psi]

⁽⁴⁾ Catalogue dimensions only for reference, see dimensional drawing for detailed information

Motor Drum Winch

Available on request .

- with or without motor
- smooth or grooved drum
- customized drum lenght
- different rope diameter



Our Standard Configurations

Hydraulic Motor Fixed Displacement	SH11CR090	90 [cm³/rev]	5.47 [in³/rev]
	SH11CR125	125 [cm³/rev]	7.61 [in³/rev]
Hydraulic Motor Variable Displacement	SH9V115	115 [cm³/rev]	7.00 [in³/rev]
Ratio		33.6	
		22.9	
Drum	standard	Smooth Drum Special Grooved Drum ⁽¹⁾	
	extended	Smooth Drum Special Grooved Drum ⁽¹⁾	
Rope		Ø 18 [mm]	Ø 0.71 [in]
		Ø 20 [mm]	Ø 0.78 [in]
		Ø 22 [mm]	Ø 0.86 [in]

⁽¹⁾ Left hand grooving as Standard only with rope diameter Ø 20 mm [0.78 in]. Right handal grooving on request. Other rope diameter available on request.

International System of Units: SI

BWE070-SD20..-01-22.9-APF125

Working layer		1	2	3	4	5	6 Storage length
Line pull	[kg]	7000	6430	5940	5520	5150	-
Rope speed	[m/min]	58	64	69	74	80	-
Rope length	[m]	24	49	78	108	141	175
Brevini® Motor SH11CR125			Advised rope diameter		20	[mm]	
Starting lifting pressure 395 [bar]			Oil fill / drain plug		G3/8	T	
Operating pressure 335 [bar]			Lifting / Lowering port		G1	V1 / V2	
Operating oil flow at the motor 150 [l/min]			Motor drain port		G1/2	DR	
Minimum oil flow at the motor 8.0 [l/min]			Static braking torque ⁽¹⁾		778	[Nm]	
Gear ratio 22.9 [i]			Brake release pressure (Release / Max)		31 / 350	[bar]	
Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)					M5 (T5-L2)	n ₂ =15 [rpm]	

		Weight [kg]		Oil [l]	
		Cargo	LoP	Cargo	LoP
BWE070/SH11CR125	Standard	506	641	8	9.8
	Extended drum	564	699	14.2	16

United States Customary Units: USC

BWE070-SD20..-01-22.9-APF125

Working layer			1	2	3	4	5	6
								Storage length
Line pull	[lbf]		15400	14180	13100	12170	11370	-
Rope speed	[fpm]		193	210	227	245	262	-
Rope length	[ft]		80	163	258	355	464	575
Brevini® Motor SH11CR125				Advised rope diameter			0.78	[in]
Starting lifting pressure 5770 [psi]				Oil fill / drain plug			G3/8	T
Operating pressure 4815 [psi]				Lifting / Lowering port			G1	V1 / V2
Operating oil flow at the motor 40 [gpm]				Motor drain port			G1/2	DR
Minimum oil flow at the motor 2.11 [gpm]				Static braking torque ⁽¹⁾			573	[ft·lbf]
Gear ratio 22.9 [i]				Brake release pressure(Release/Max)			450 / 5080	[psi]
Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)							M5 (T5-L2)	n ₂ =15 [rpm]

		Weight [lbs]		Oil [gal]	
		Cargo	LoP	Cargo	LoP
BWE070/SH11CR125	Standard	1115	1413	2.11	2.59
	Extended drum	1243	1541	3.75	4.23

Note:

- For safety reasons always keep at least 3 wraps of rope wrapped on the drum.
- Technical features may change with no previous notice from the manufacturer.
- The MBL of the Rope must be verified according to the requested Safety Factors.
- All data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer application and Duty Cycle.

⁽¹⁾ Static braking torque does not affect the winch maximum static line pull which must be considered 125% of the nominal line pull at first layer.

Line pull for Certified Winch Version: SI

Rope Diameter	Line Pull (according to DNVGL) [kg]				Line Pull (according to ABS) [kg]			
	Cargo Winch		Lifting of Personnell Winch		Cargo Winch		Lifting of Personnell Winch	
	Last Layer	First Layer	Last Layer	First Layer	Last Layer	First Layer	Last Layer	First Layer
Ø 18 [mm]	3923 (5) ⁽¹⁾	5200	1509 (5) ⁽¹⁾	2000	3923 (5) ⁽¹⁾	5200	1811 (5) ⁽¹⁾	2400
Ø 20 [mm]	5040 (4) ⁽¹⁾	6400	1575 (4) ⁽¹⁾	2000	4804 (4) ⁽¹⁾	6100	1890 (4) ⁽¹⁾	2400
Ø 22 [mm]	5348 (3) ⁽¹⁾	6400	1671 (3) ⁽¹⁾	2000	5097 (3) ⁽¹⁾	6100	2005 (3) ⁽¹⁾	2400

Line pull for Certified Winch Version: USC

Rope Diameter	Line Pull (according to DNVGL) [lbf]				Line Pull (according to ABS) [lbf]			
	Cargo Winch		Lifting of Personnell Winch		Cargo Winch		Lifting of Personnell Winch	
	Last Layer	First Layer	Last Layer	First Layer	Last Layer	First Layer	Last Layer	First Layer
Ø 0.71 [in]	8718 (5) ⁽¹⁾	11556	3353 (5) ⁽¹⁾	4444	8718 (5) ⁽¹⁾	11556	4024 (5) ⁽¹⁾	5333
Ø 0.78 [in]	11200 (4) ⁽¹⁾	14222	3500 (4) ⁽¹⁾	4444	10676 (4) ⁽¹⁾	13556	4200 (4) ⁽¹⁾	5333
Ø 0.86 [in]	11884 (3) ⁽¹⁾	14222	3713 (3) ⁽¹⁾	4444	11327 (3) ⁽¹⁾	13556	4456 (3) ⁽¹⁾	5333

The line pull listed above are just for reference, for this application is strongly recommended to fill up the Winch Application Data Form available at the end of this catalogue and consult the Dana area contact person for final selection and validation.

Other Ropes available - standard

Working layer			1	2	3	4	5	6
Rope Diameter Ø 18 [mm]	Rope length	[m]	27	55	86	118	154	190
Rope Diameter Ø 22 [mm]	Rope length	[m]	22	45	72	99	130	-

Working layer			1	2	3	4	5	6
Rope Diameter Ø 0.71 [in]	Rope length	[ft]	88	180	283	389	506	626
Rope Diameter Ø 0.86 [in]	Rope length	[ft]	73	149	237	327	429	-

Last indicated Layer is intended only as Storage

Other Ropes available - extended

Working layer			1	2	3	4	5	6
Rope Diameter Ø 18 [mm]	Rope length	[m]	38	79	124	171	223	276
Rope Diameter Ø 20 [mm]	Rope length	[m]	35	72	113	157	204	254
Rope Diameter Ø 22 [mm]	Rope length	[m]	32	66	104	144	189	-

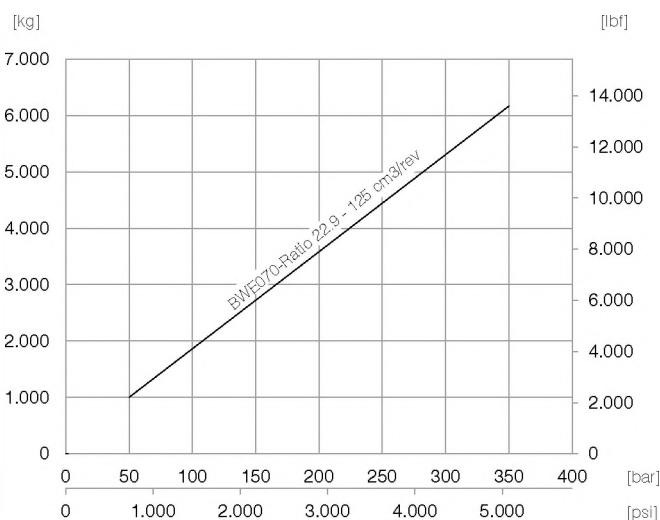
Working layer			1	2	3	4	5	6
Rope Diameter Ø 0.71 [in]	Rope length	[ft]	127	261	410	564	733	907
Rope Diameter Ø 0.78 [in]	Rope length	[ft]	115	237	373	515	672	834
Rope Diameter Ø 0.86 [in]	Rope length	[ft]	105	217	343	475	622	-

Last indicated Layer is intended only as Storage

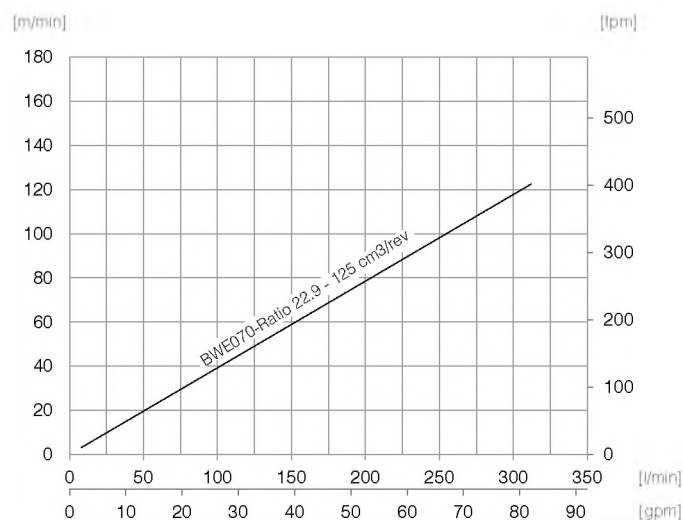
⁽¹⁾ Last working layer

Axial Piston Motor Fixed Displacement

Maximum Line pull at first layer

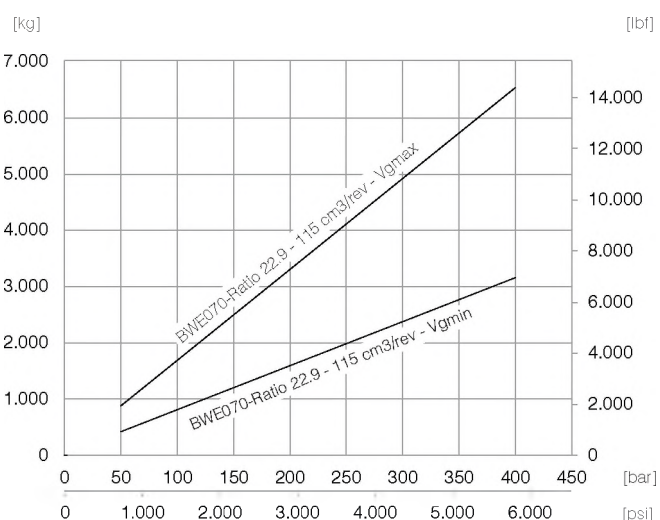


Maximum Speed at first layer

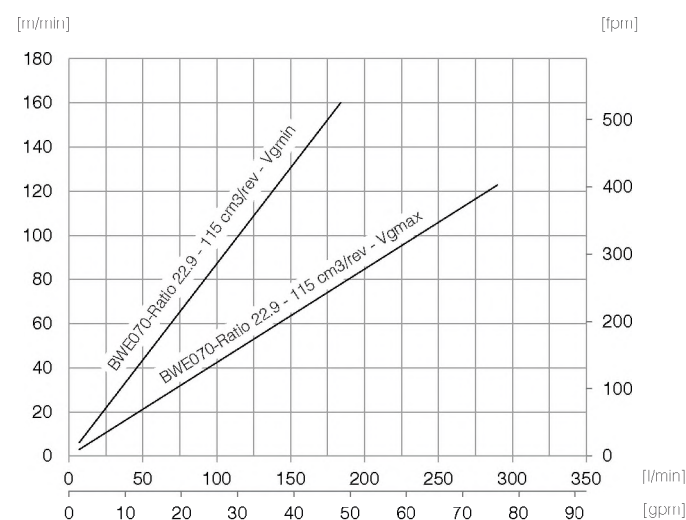


Axial Piston Motor Variable Displacement

Maximum Line pull at first layer



Maximum Speed at first layer



$V_{g_{max}} = 115 \text{ cm}^3/\text{rev}$ [7.00 in³/rev]
 $V_{g_{min}} = 56 \text{ cm}^3/\text{rev}$ [4.40 in³/rev]

$V_{g_{max}} = 115 \text{ cm}^3/\text{rev}$ [7.00 in³/rev] - Max 290 l/min [76 gpm] allowed
 $V_{g_{min}} = 56 \text{ cm}^3/\text{rev}$ [4.40 in³/rev] - Max 183 l/min [48 gpm] allowed

Note:

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