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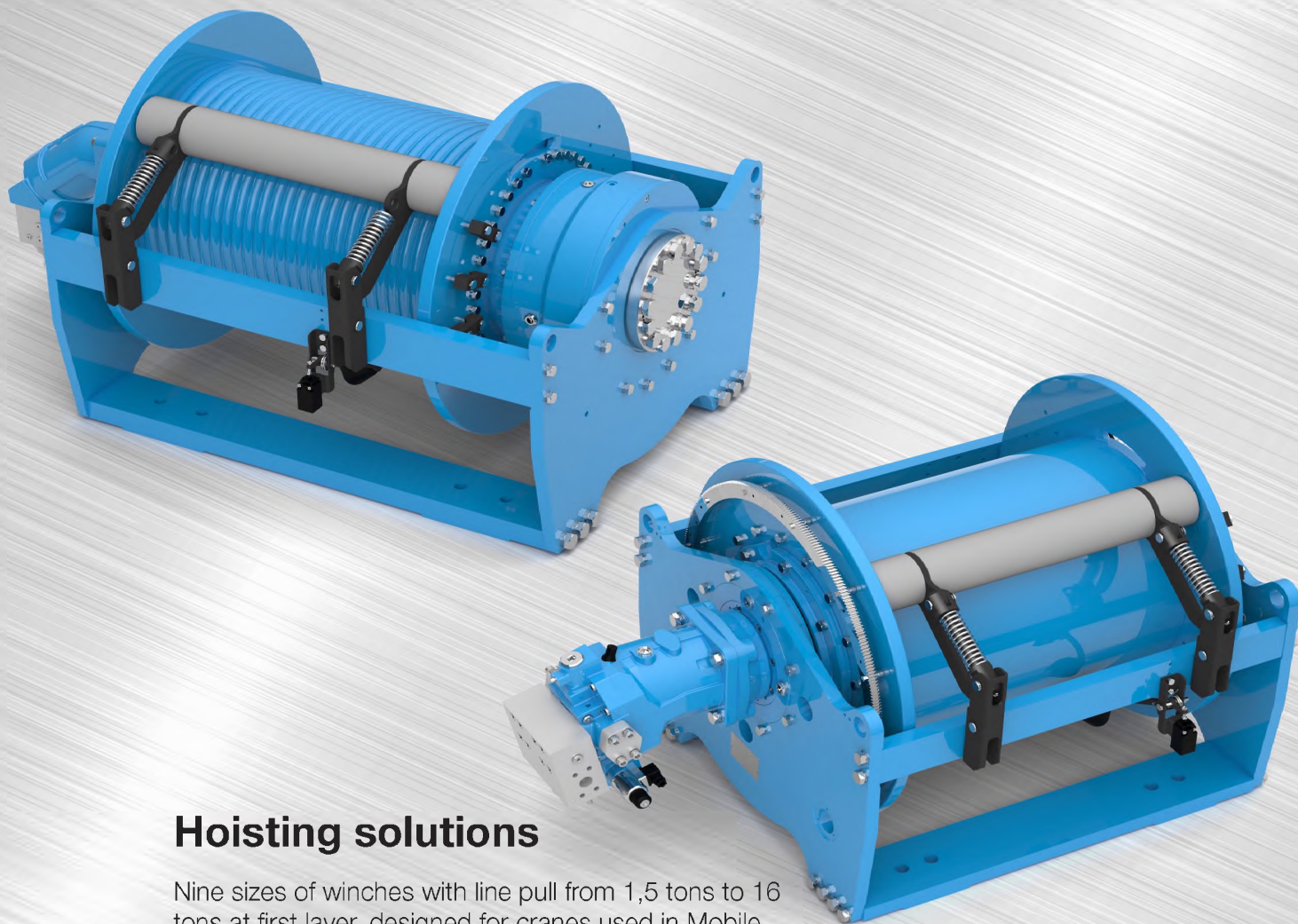


BREVINI®

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:

3.500 [kg]

7.700 [lbf]

Control Valve

To ensure safe operation with enhanced control during Load Lowering

Hydraulic Motor

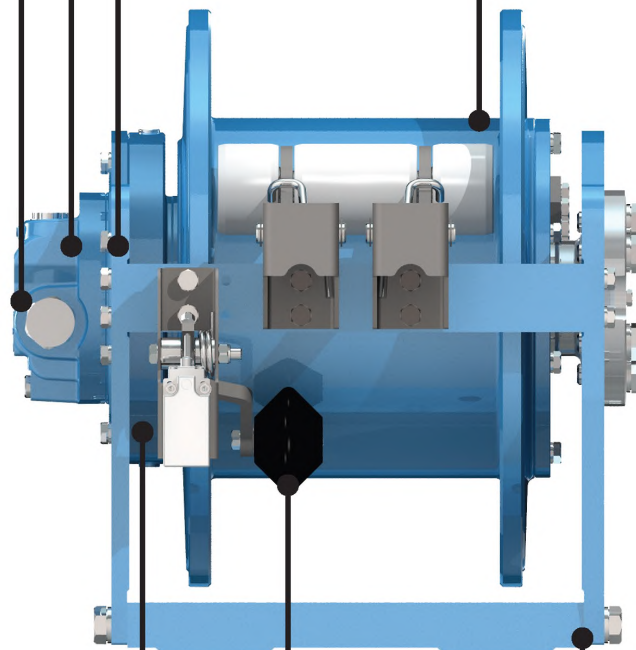
Fixed or Variable displacement Brevini®
High speed Axial piston motor

Multidisc static Brake

Specifically designed for Winch applications

Drum

Spheroidal graphite cast iron, available in grooved or smooth options



High performance Gears

Low noise and longer life time

Accessories

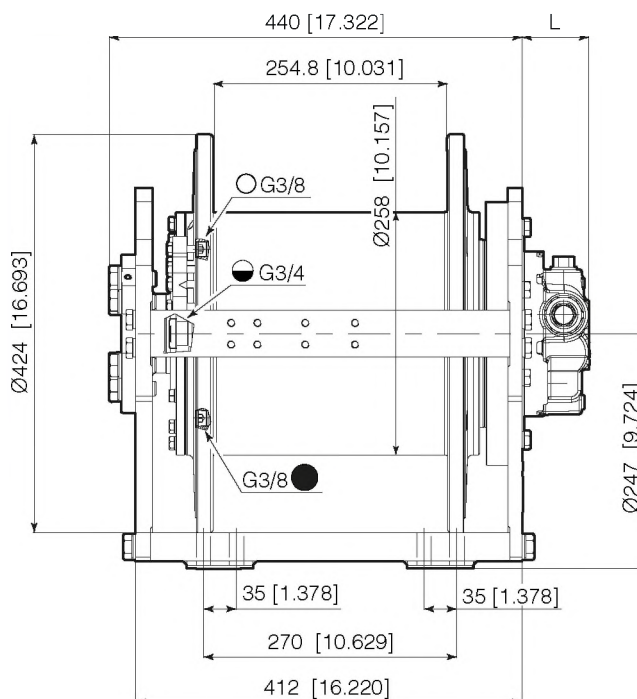
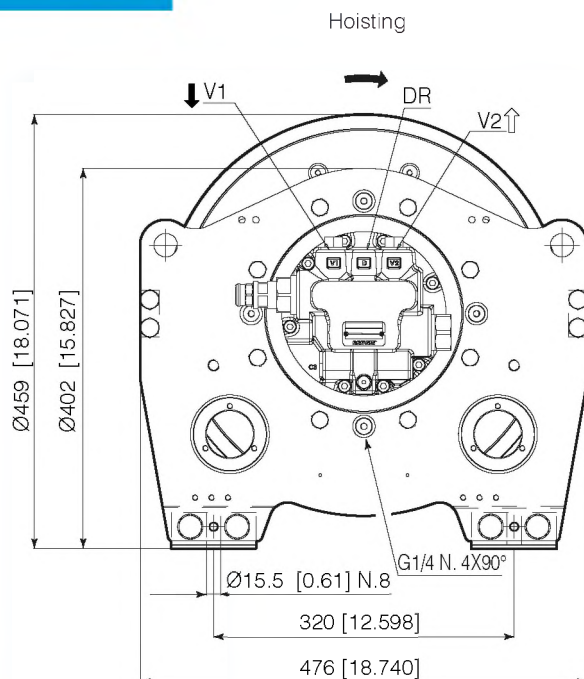
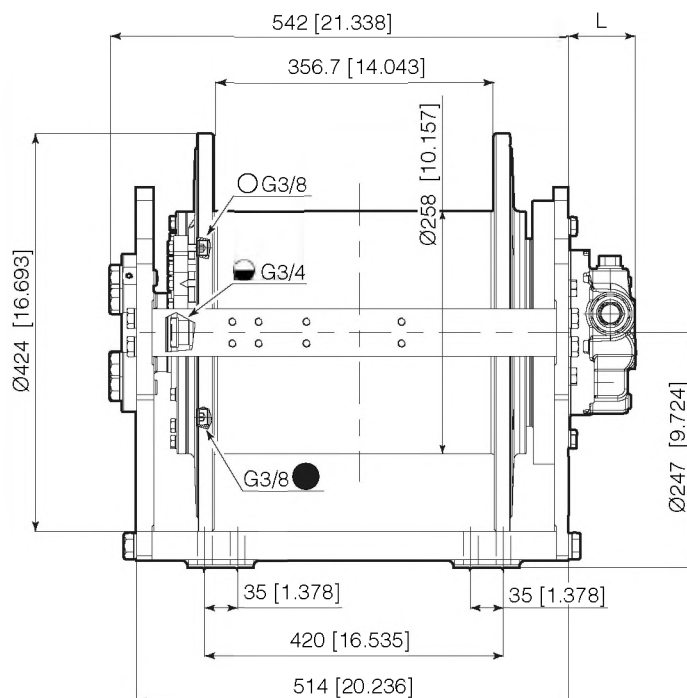
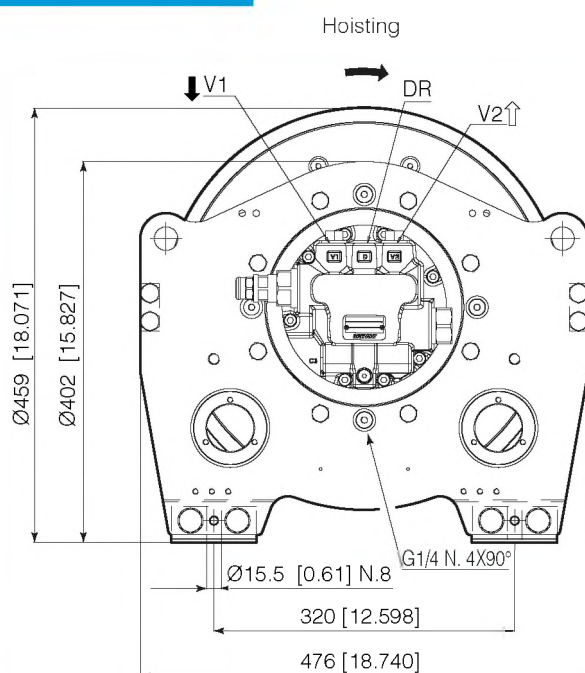
Pressure Roller
Electric or Hydraulic Limit Switch
Electric or Hydraulic Rotary Limit Switch
Speed Sensor (proximity)

Structure

Robust steel frame
Suitable for low temperature applications

Brevini® Hydraulic Motor

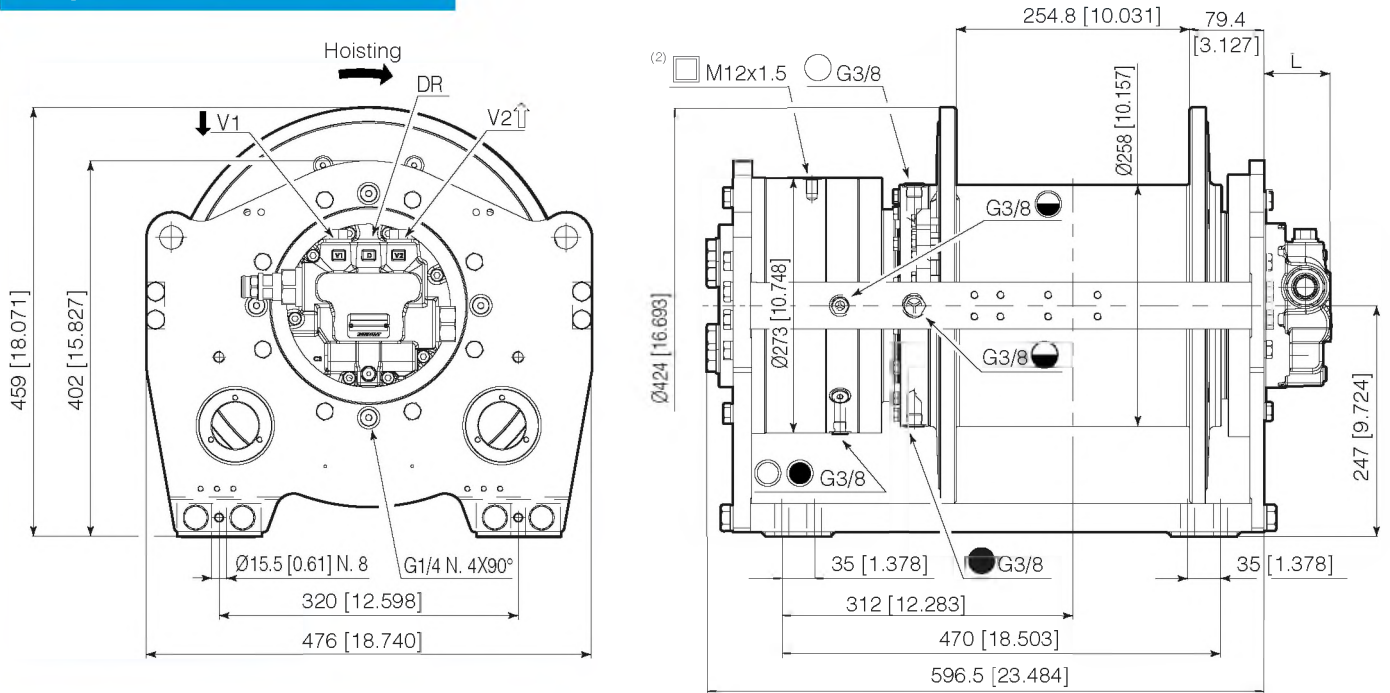
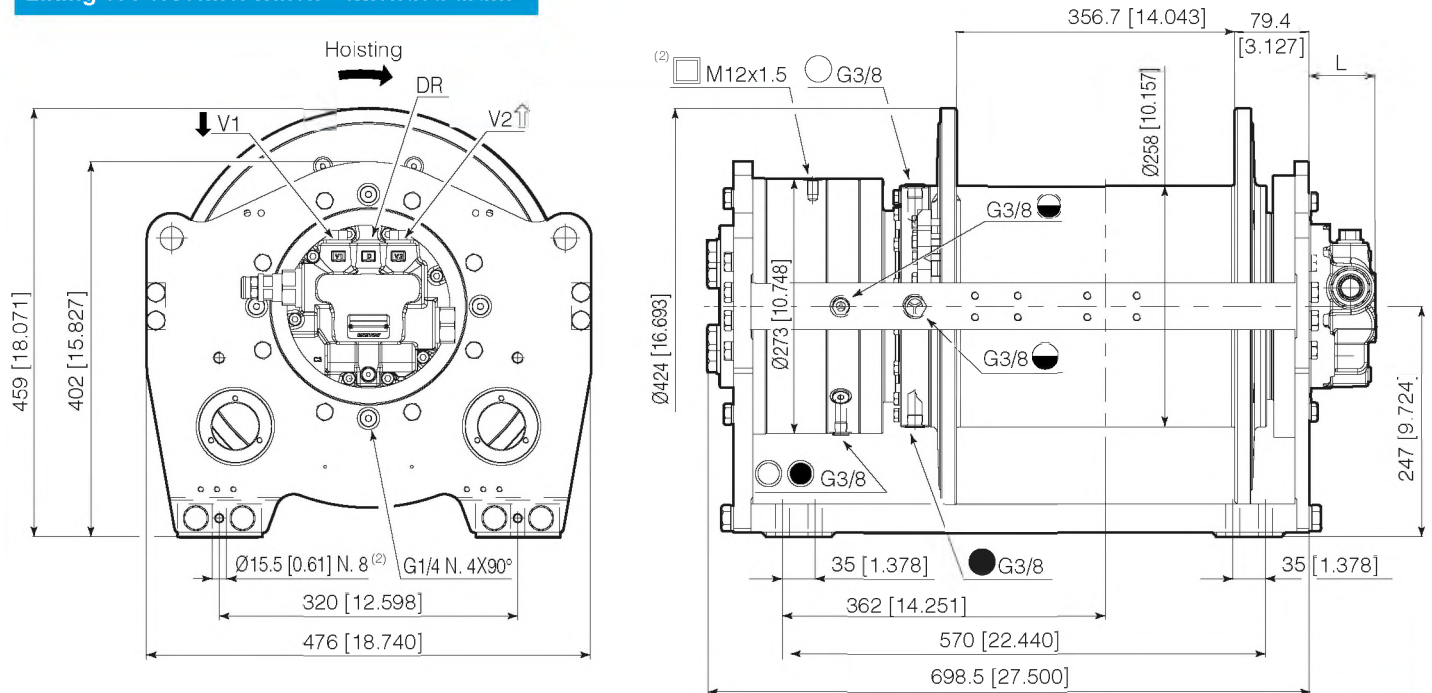
	Motor type	Displacement	L
Fixed Displacement	B5VA037 ⁽¹⁾	37 cm³/rev [2.25 in³/rev]	71 mm [2.795 in]
Fixed Displacement	B5VA068 ⁽¹⁾	68 cm³/rev [4.14 in³/rev]	98 mm [3.858 in]
Fixed Displacement	BRZV100 ⁽¹⁾	100 cm³/rev [6.1 in³/rev]	60.5 mm [23.819 in]
With NO Motor	Universal Input Flange 00	-	0 mm

Winch - standard ⁽²⁾

Winch - extended drum ⁽²⁾

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

⁽²⁾ Catalogue dimensions only for reference, see dimensional drawing for detailed information

Brevini® Hydraulic Motor for Lifting of Personnel Winches

	Motor type	Displacement	L
Fixed Displacement	B5VA037 ⁽¹⁾	37 cm³/rev [2.25 in³/rev]	71 mm [2.795 in]
Fixed Displacement	B5VA068 ⁽¹⁾	68 cm³/rev [4.14 in³/rev]	98 mm [3.858 in]
Fixed Displacement	BRZV100 ⁽¹⁾	100 cm³/rev [6.1 in³/rev]	60.5 mm [23.819 in]
With NO Motor	Universal Input Flange 00	-	0 mm

Lifting of Personnel Winch - standard ⁽³⁾

Lifting of Personnel Winch - extended drum ⁽³⁾

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

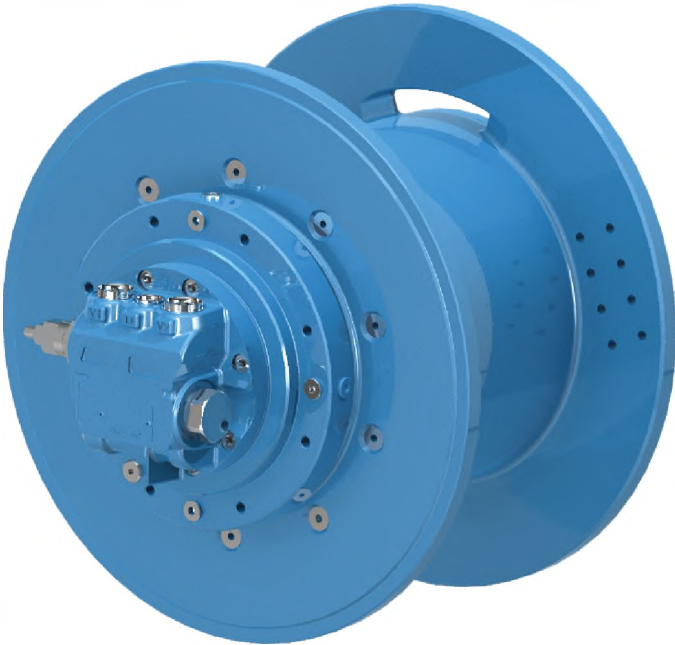
⁽²⁾ Lifting of personnel brake release pressure (Release / Max) 27/315 bar [392/4570 psi]

⁽³⁾ 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	B5VA037	37 [cm³/rev]	2.25 [in³/rev]
	B5VA068	68 [cm³/rev]	4.14 [in³/rev]
	BRZV100	100 [cm³/rev]	6.1 [in³/rev]
Ratio		33.6	
		22.9	
Drum	standard	Smooth Drum Special Grooved Drum ⁽¹⁾	
	extended	Smooth Drum Special Grooved Drum ⁽¹⁾	
Rope		Ø 12 [mm]	Ø 0.47 [in]
		Ø 14 [mm]	Ø 0.55 [in]
		Ø 16 [mm]	Ø 0.63 [in]

⁽¹⁾ Left hand grooving as Standard only with rope diameter Ø 14 mm [0.55 in]. Right handal grooving on request. Other rope diameter available on request.



International System of Units: SI

BWE035-SD14..-01-33.6-APF037

Working layer		1	2	3	4	5	6 Storage length
Line pull	[kg]	3500	3220	2980	2770	2590	-
Rope speed	[m/min]	32	35	37	40	43	-
Rope length	[m]	14	30	47	65	85	106
Brevini® Motor B5VA037			Advised rope diameter		14	[mm]	
Starting lifting pressure 325 [bar]			Oil fill / drain plug		G3/4	T	
Operating pressure 275 [bar]			Lifting / Lowering port		G1/2	V1 / V2	
Operating oil flow at the motor 50 [l/min]			Motor drain port		G3/8	DR	
Minimum oil flow at the motor 5.0 [l/min]			Static braking torque ⁽¹⁾		352	[Nm]	
Gear ratio 33.6 [i]			Brake release pressure (Release / Max)		34 / 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
BWE035/B5VA037	Standard	187	250	2.7	3.8
	Extended drum	203	266	4.5	5.3

United States Customary Units: USC

BWE035-SD14..-01-33.6-APF037

Working layer			1	2	3	4	5	6
								Storage length
Line pull	[lbf]		7700	7100	6570	6110	5710	-
Rope speed	[fpm]		105	115	124	133	143	-
Rope length	[ft]		49	99	157	215	281	348
Brevini® Motor B5VA037				Advised rope diameter			0.55	[in]
Starting lifting pressure 4740 [psi]				Oil fill / drain plug			G3/4	[gal]
Operating pressure 3955 [psi]				Lifting / Lowering port			G1/2	V1 / V2
Operating oil flow at the motor 13 [gpm]				Motor drain port			G3/8	DR
Minimum oil flow at the motor 1.32 [gpm]				Static braking torque ⁽¹⁾			259	[ft·lbf]
Gear ratio 33.6 [i]				Brake release pressure(Release/Max) 495 / 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
BWE035/B5VA037	Standard	412	551	0.71	1.00
	Extended drum	448	586	1.19	1.40

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 12 [mm]	1918 (5) ⁽¹⁾	2500	690 (5) ⁽¹⁾	900	1918 (5) ⁽¹⁾	2500	805 (5) ⁽¹⁾	1050
Ø 14 [mm]	2690 (4) ⁽¹⁾	3400	712 (4) ⁽¹⁾	900	2532 (4) ⁽¹⁾	3200	831 (4) ⁽¹⁾	1050
Ø 16 [mm]	2834 (3) ⁽¹⁾	3400	750 (3) ⁽¹⁾	900	2668 (3) ⁽¹⁾	3200	875 (3) ⁽¹⁾	1050

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 0.47 [in]	4262 (5) ⁽¹⁾	5556	1533 (5) ⁽¹⁾	2000	4262 (5) ⁽¹⁾	5556	1789 (5) ⁽¹⁾	2333
Ø 0.55 [in]	5978 (4) ⁽¹⁾	7556	1582 (4) ⁽¹⁾	2000	5627 (4) ⁽¹⁾	7111	1847 (4) ⁽¹⁾	2333
Ø 0.63 [in]	6298 (3) ⁽¹⁾	7556	1667 (3) ⁽¹⁾	2000	5929 (3) ⁽¹⁾	7111	1944 (3) ⁽¹⁾	2333

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 12 [mm]	Rope length	[m]	17	35	54	75	97	120
Rope Diameter Ø 16 [mm]	Rope length	[m]	13	26	42	58	76	-

Working layer			1	2	3	4	5	6
Rope Diameter Ø 0.47 [in]	Rope length	[ft]	56	114	180	246	320	395
Rope Diameter Ø 0.63 [in]	Rope length	[ft]	43	87	139	192	252	-

Last indicated Layer is intended only as Storage

Other Ropes available - extended

Working layer			1	2	3	4	5	6
Rope Diameter Ø 12 [mm]	Rope length	[m]	24	49	77	106	137	169
Rope Diameter Ø 14 [mm]	Rope length	[m]	20	42	67	92	121	149
Rope Diameter Ø 16 [mm]	Rope length	[m]	18	37	59	82	108	-

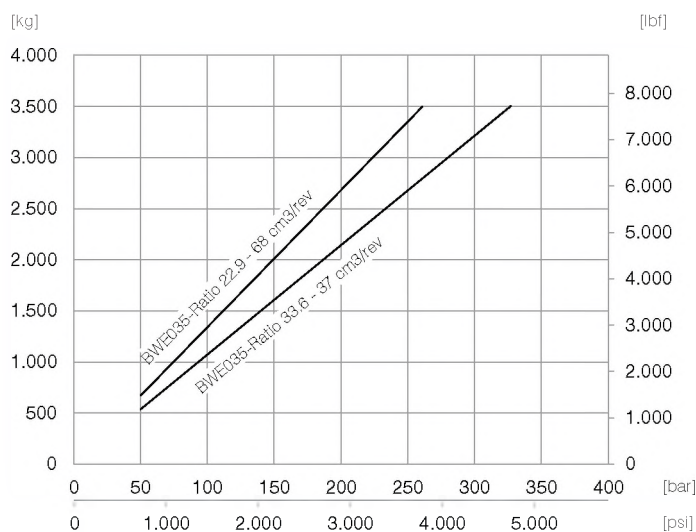
Working layer			1	2	3	4	5	6
Rope Diameter Ø 0,47 [in]	Rope length	[ft]	79	162	253	347	451	557
Rope Diameter Ø 0,55 [in]	Rope length	[ft]	68	140	221	304	397	492
Rope Diameter Ø 0,63 [in]	Rope length	[ft]	60	124	196	271	356	-

Last indicated Layer is intended only as Storage

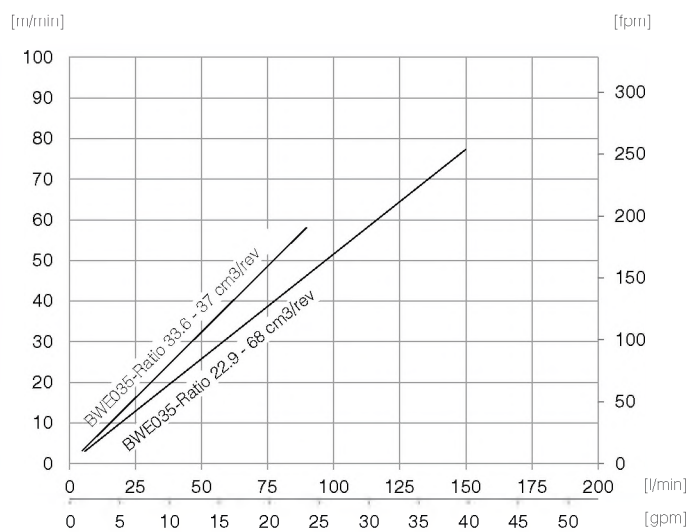
⁽¹⁾ Last working layer

Axial Piston Motor Fixed Displacement

Maximum Line pull at first layer



Maximum Speed at first layer

**Note:**

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