

POWER ASSISTED HYDRAULIC STEERING SYSTEMS

2019



Lecomble & Schmitt s.A.s.

BP N° 2
64240 URT – France

Sales Department: 33 (0) 559 56 24 11 - commercial@ls-france.com

Technical Department: 33 (0) 559 56 26 46 - commercial2@ls-france.com

Fax : 33 (0) 559 56 95 71

<http://www.ls-france.com>

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LS POWER ASSISTED STEERING SYSTEMS

Specifically designed for luxury vessels getting regular and intensive use, LS range of Power Assisted Steering Systems is designed in total compliance with the strictest norms applying to marine equipment.

The recommended solutions for 185 kpm to 2,000 kpm rudder torque are suitable to equip 15 to 40 metre vessels.

Absolute security comes first: steering is still possible even in case of electrical failure.

Features such as smoothness, accuracy and reduced number of wheel turns give LS power assisted steering systems unequalled comfort.

The ease of use of the catalogue enables the shipyards engineering and design departments to define straightaway the correct system in function of the rudder torque, the power supply available on board and the number of steering stations.

Rated torque, hydraulic connection diagram and assembly dimensions are all featured on a same page which can be added to the vessel technical file. A lettered diagram on page 12 facilitates the definition of the required flexible tubes with pre-crimp connections.

TORQUE CALCULATION

- **For boats fitted with a rudder**, the torque of the rudder or rudders is calculated as per the following formula and corrections.

It must be known that the torque necessary to manoeuvre a boat depends on :

- the speed of the water flowing on the surface of the rudder at a certain angle,
- the rudder size,
- the total sweep of the rudder (and part of the boat), if the rudder shaft is not perpendicular,
- the compensating surface of the rudder (balance).

$$C = S \times [(0,4 L_g) - L_c] \times V^2 \times K$$

C = Torque in kpm

S = Total surface of rudder (H x Lg) in sq. m

H = Height of rudder in m

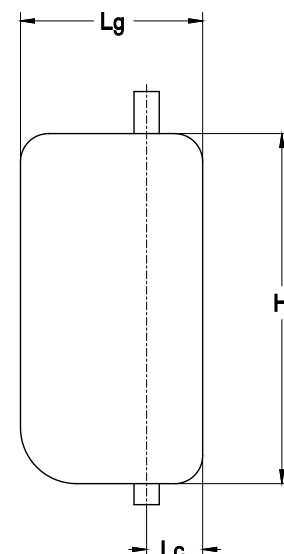
Lg = Width of rudder in m

Lc = Compensation width in m

V = Maximum speed of the boat in knots

K = Coefficient in function of total rudder angle

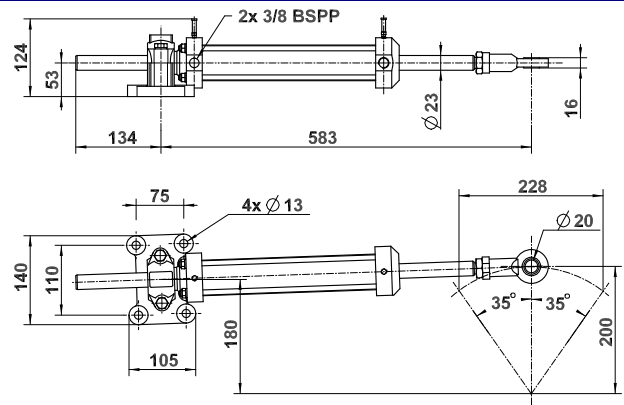
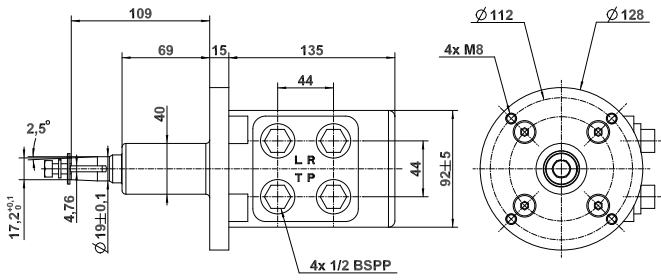
- Port to starboard 70° **K = 15,89**
- Port to starboard 80° **K = 17,80**
- Port to starboard 90° **K = 19,52**



- **Corrections in function of the type of boat :**

- For a boat with a steering nozzle **C x 2,0**
- For twin engine power boats with 1 rudder **C x 0,5**
- For boats fitted with several rudders (catamarans, monohulls), multiply the calculated torque result by the number of rudders fitted on the boat.

LS 185 kpm POWER ASSISTANCE

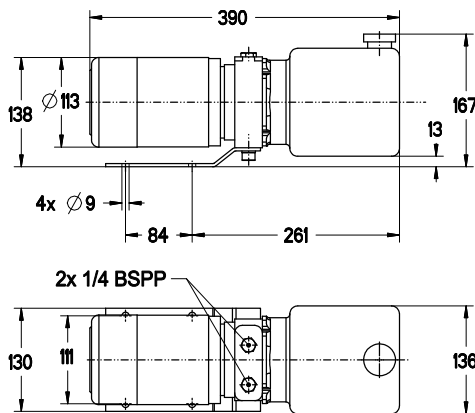


2203821 Servo assistance LS 50 - SC

Flow rate	3.1 cu.in/rev	Recommended wheel diam. Ø 16 1/2"
Minimum size of tubing	.31"x.39"	Number of turns
Weight	15 lbs	7 turns

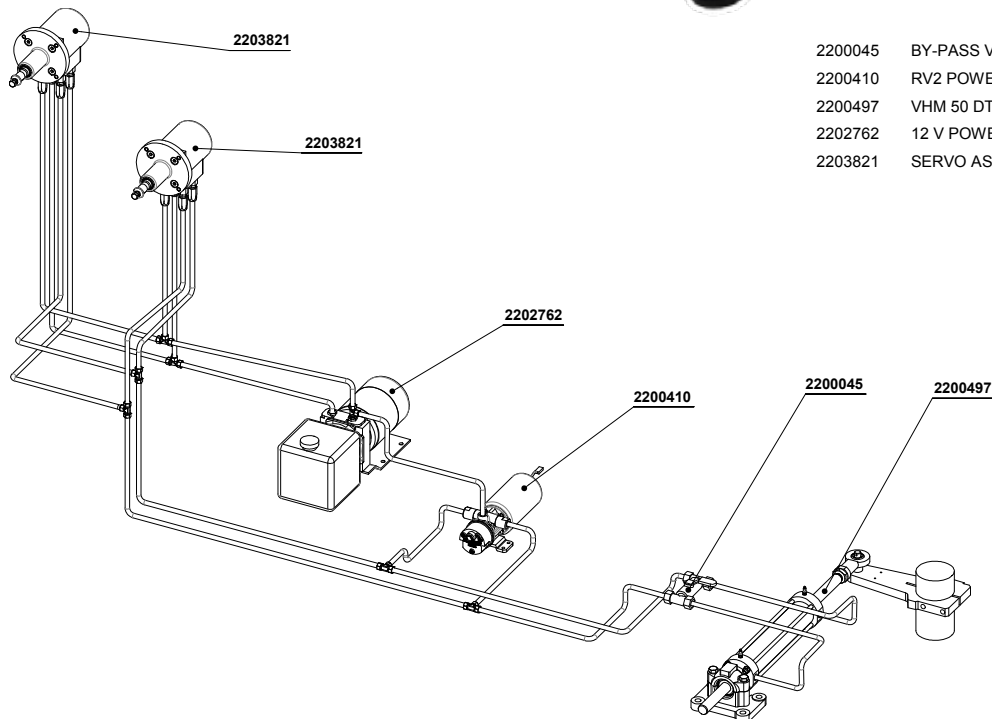
2200497 VHM 50 DTP

Maximum torque	1350 ft.lbs	Radius of tiller arm	7 7/8"
Stroke	9"	Total rudder angle	70°
Maximum pressure	870 PSI	Weight	11 lbs
Volume	21.5 cu.in		



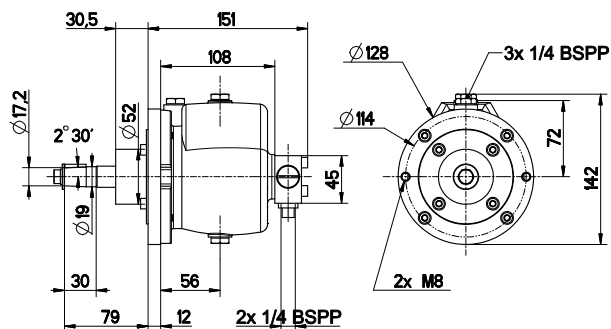
2202762 12 V power pack 2202763 24 V power pack

Maximum flow rate	4 l/mn	Maximum pressure	870 PSI
Volume	0.26 US gall	Weight	21 lbs



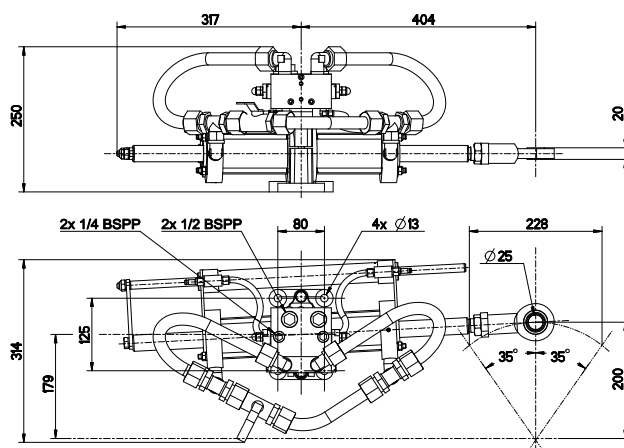
Please contact us to determine the lengths of the flexible tubes required.

LS 265 kpm POWER ASSISTANCE



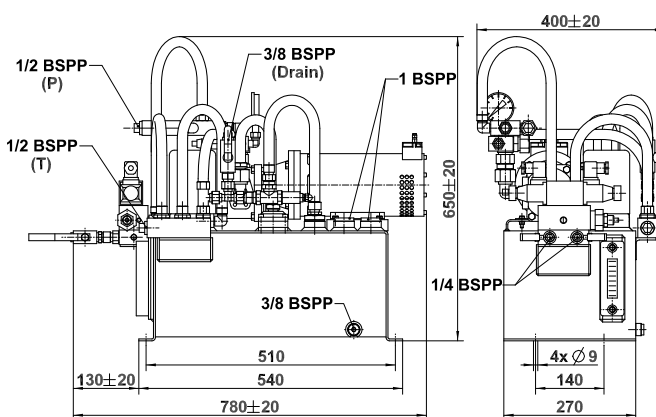
2201151 Pump 29 CT LV DB

Flow rate	1.7 cu.in/rev	Volume	24.4 cu.in
Minimum size of tubing	.31"x.39"	Recommended wheel diam.	Ø 16 1/2"
Weight	5 lbs	Number of turns	3.5 turns



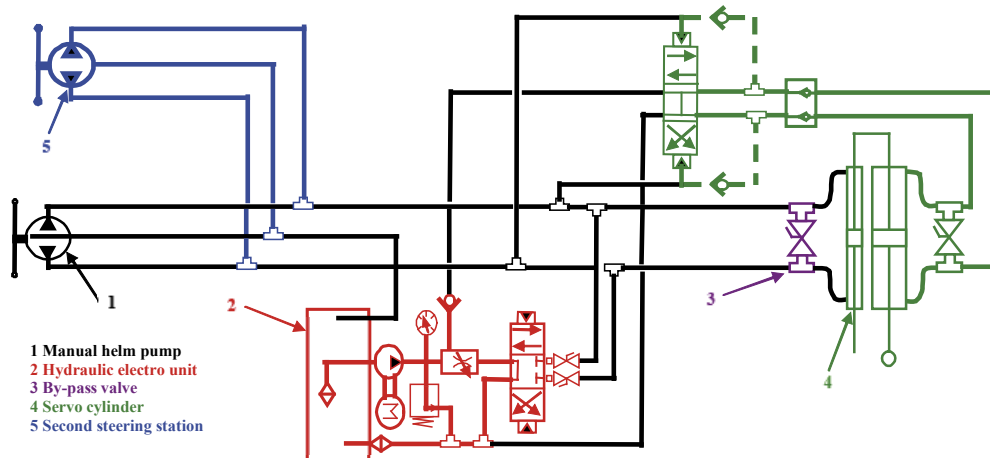
2200959 VHM 60 DT - 28 DT

Maximum torque	1957 ft.lbs	Radius of tiller arm	7 7/8"
Stroke	9"	Total rudder angle	70°
Maximum pressure	870 PSI	Weight	46 lbs



2201206 Hydraulic Electro Unit HF 1-8-24 V – Autopilot function
2202555 Hydraulic Electro Unit HF 1-8-230 V – Autopilot function
2202556 Hydraulic Electro Unit HF 1-8-400 V – Autopilot function

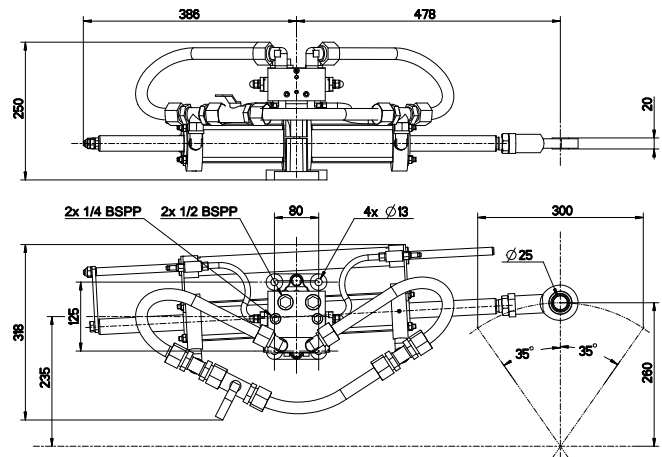
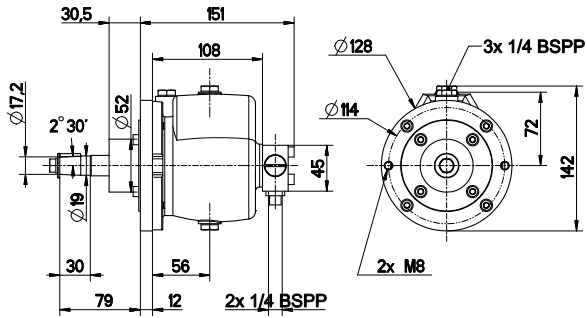
Maximum flow rate	8 l/mn	Maximum pressure	870 PSI
Volume	6.62 US gall	Weight	99.20 lbs



REFERENCE	24 VDC	230 VAC single-phase	400 VAC three-phase
Single steering station + autopilot function + fittings	2202500	2202501	2202502
Double steering station + autopilot function + fittings	2202503	2202504	2202505

Each reference refers to a complete set without flexible tubes. See page 13 to determine the lengths of the flexible tubes required.

LS 344 kpm POWER ASSISTANCE

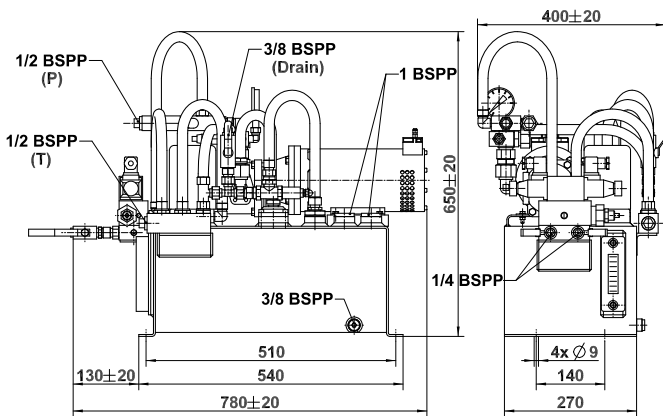


2201151 Pump 29 CT LV DB

2200960 VHM 60 DT C300 - 28 DT

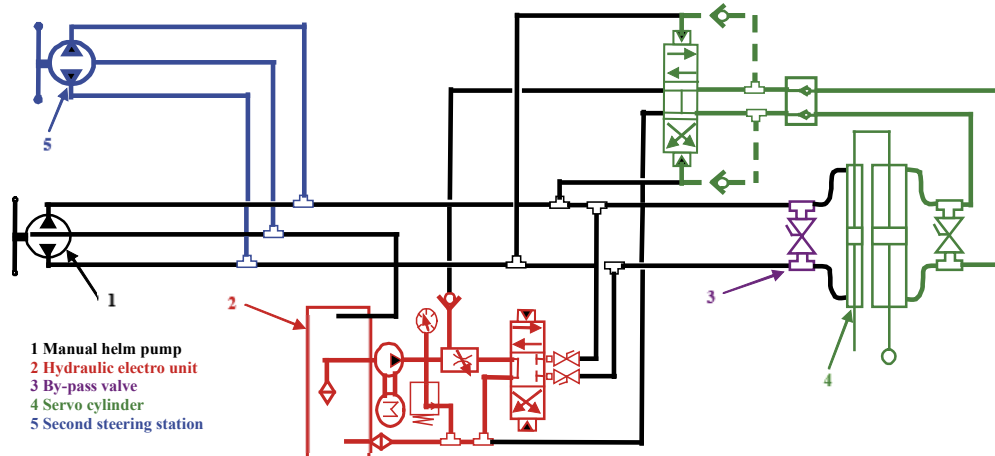
Flow rate	1.7 cu.in/rev	Volume	24.4 cu.in
Minimum size of tubing	.31"x.39"	Recommended wheel diam.	Ø 16 1/2"
Weight	5 lbs	Number of turns	4 turns

Maximum torque	2540 ft.lbs	Radius of tiller arm	10 1/4"
Stroke	11 13/16"	Total rudder angle	70°
Maximum pressure	870 PSI	Weight	47 lbs



2201206 Hydraulic Electro Unit HF 1-8-24 V - Autopilot function
2202555 Hydraulic Electro Unit HF 1-8-230 V - Autopilot function
2202556 Hydraulic Electro Unit HF 1-8-400 V - Autopilot function

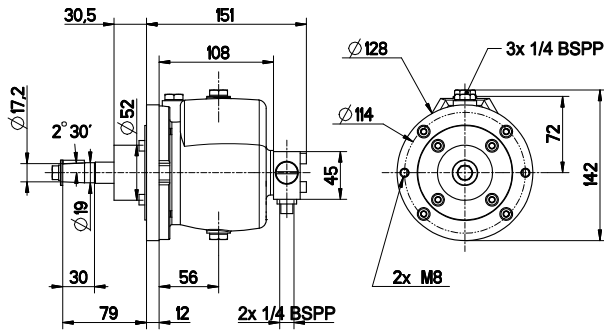
Maximum flow rate	8 l/mn	Maximum pressure	870 PSI
Volume	6.62 US gall	Weight	99.20 lbs



REFERENCE	24 VDC	230 VAC single-phase	400 VAC three-phase
Single steering station + autopilot function + fittings	2202506	2202507	2202508
Double steering station + autopilot function + fittings	2202509	2202510	2202511

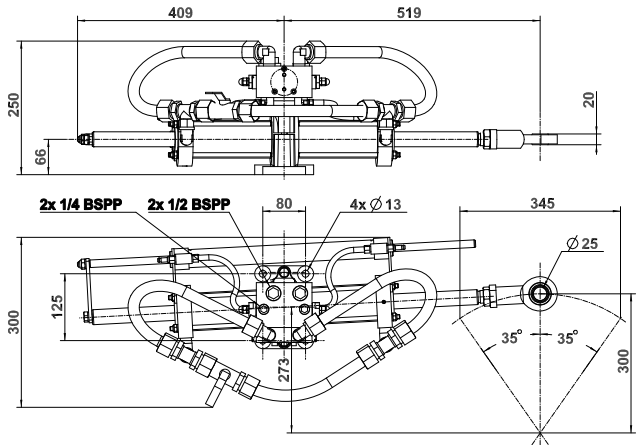
Each reference refers to a complete set without flexible tubes. See page 13 to determine the lengths of the flexible tubes required.

LS 450 kpm POWER ASSISTANCE



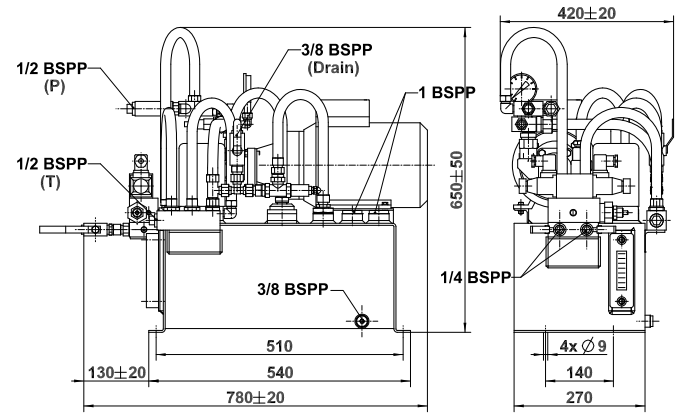
2201055 Pump 40 CT LV DB

Flow rate	2.44 cu.in/rev	Volume	24.4 cu.in
Minimum size of tubing	.31"x.39"	Recommended wheel diam.	Ø 16 1/2"
Weight	5 lbs	Number of turns	4 turns



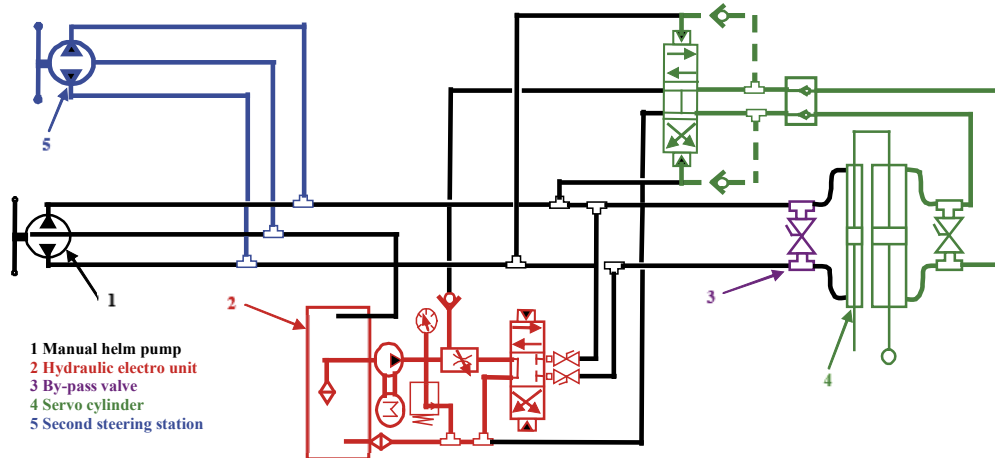
2202941 VHM 63 DT C345 - 28 DT

Maximum torque	3250 ft.lbs	Radius of tiller arm	11 13/16"
Stroke	13 19/22"	Total rudder angle	70°
Maximum pressure	870 PSI	Weight	66 lbs



2201361 Hydraulic Electro Unit HF 1.5-11-24 V – Autopilot function
2202570 Hydraulic Electro Unit HF 1.5-12-230 V – Autopilot function
2203320 Hydraulic Electro Unit HF 2-12- 400 V – Autopilot function

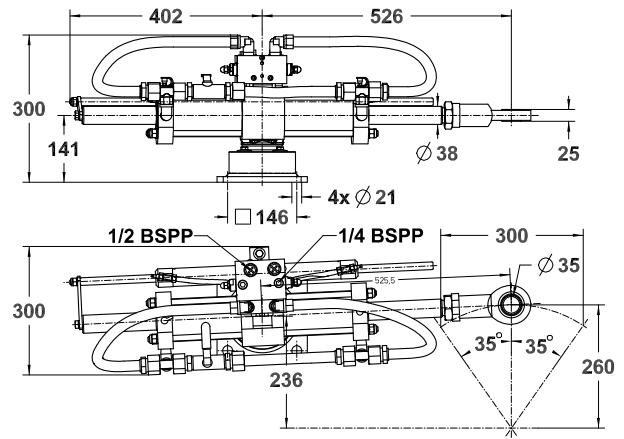
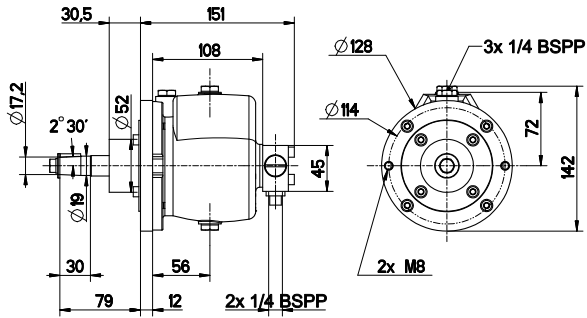
Maximum flow rate	12 l/mn	Maximum pressure	870 PSI
Volume	6.62 US gall	Weight	143 lbs



REFERENCE	24 VDC	230 VAC single-phase	400 VAC three-phase
Single steering station + autopilot function + fittings	2202513	2202514	2202515
Double steering station + autopilot function + fittings	2202516	2202517	2202518

Each reference refers to a complete set without flexible tubes. See page 13 to determine the lengths of the flexible tubes required.

LS 600 kpm POWER ASSISTANCE

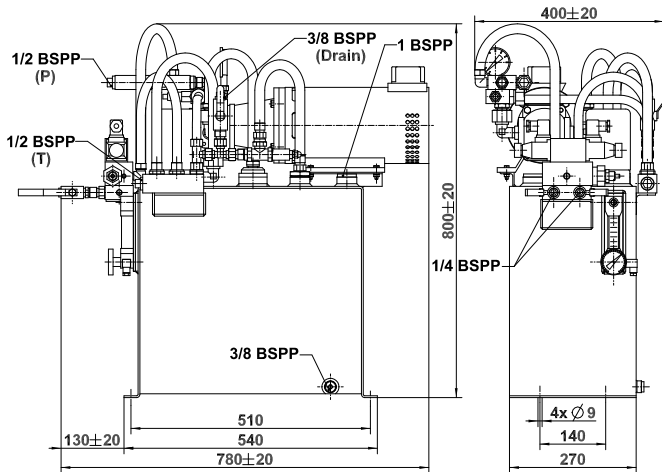


2201151 Pump 29 CT LV DB

Flow rate	1.7 cu.in/rev	Volume	24.4 cu.in
Minimum size of tubing	.31"x.39"	Recommended wheel diam.	Ø 16 1/2'
Weight	5 lbs	Number of turns	6 turns

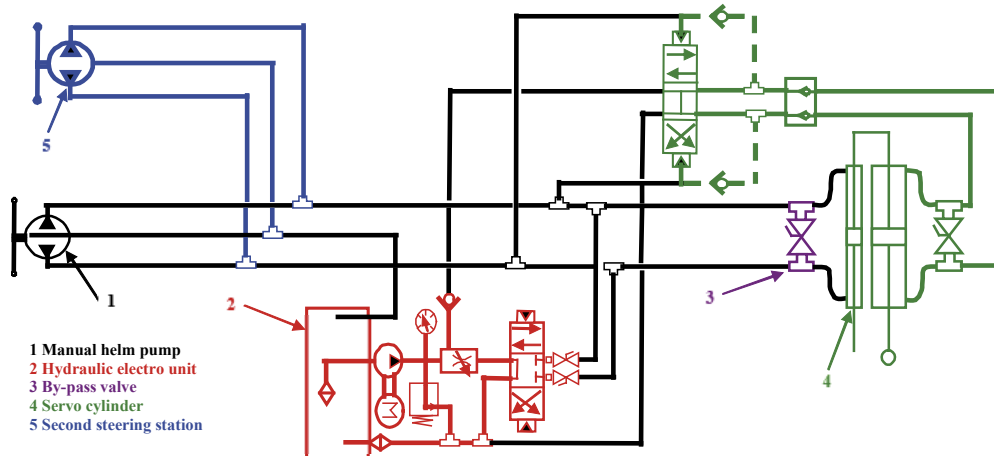
2202564 VHM 80 DT – 32 DT

Maximum torque	4430 ft.lbs	Radius of tiller arm	10 1/4"
Stroke	11 13/16"	Total rudder angle	70°
Maximum pressure	870 PSI	Weight	88 lbs



2201469 Hydraulic Electro Unit HF 1.5-18-24 V – Autopilot function 2201548 Hydraulic Electro Unit HF 3-17-230 V – Autopilot function 2201213 Hydraulic Electro Unit HF 3-17-400 V – Autopilot function

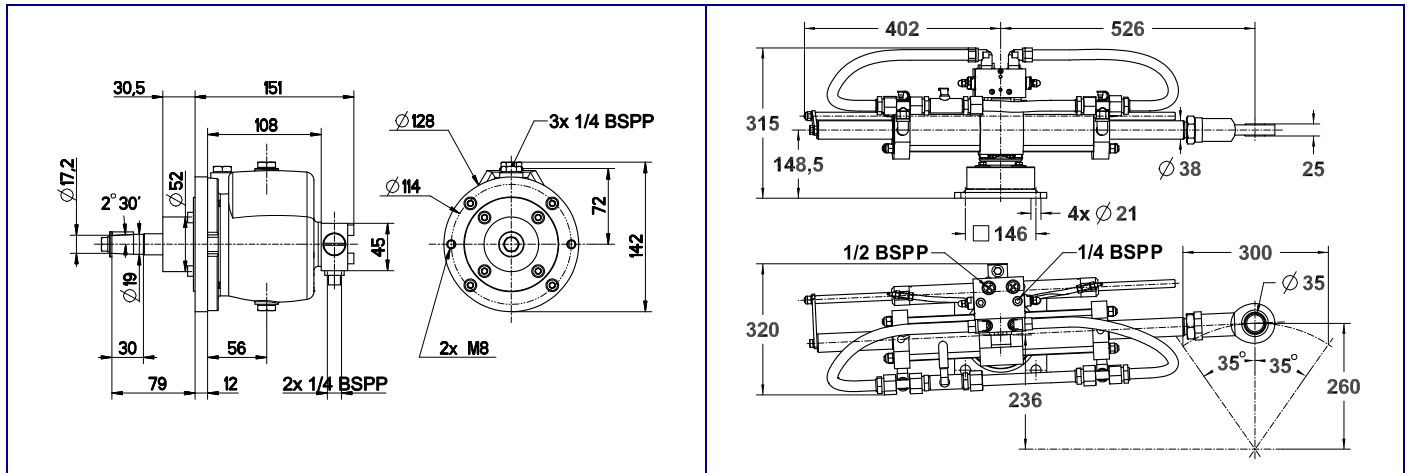
Maximum flow rate	18 l/mn	Maximum pressure	870 PSI
Volume	13.21 US gall	Weight	143 lbs



REFERENCE	24 VDC	230 VAC single-phase	400 VAC three-phase
Single steering station + autopilot function + fittings	2202506	2202507	2202508
Double steering station + autopilot function + fittings	2202509	2202510	2202511

Each reference refers to a complete set without flexible tubes. See page 13 to determine the lengths of the flexible tubes required.

LS 840 kpm POWER ASSISTANCE

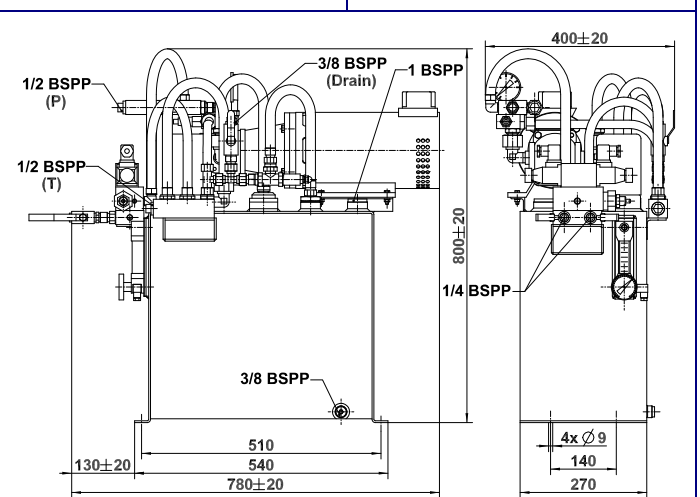


2201151 Pump 29 CT LV DB

Flow rate	1.7 cu.in/rev	Volume	24.4 cu.in
Minimum size of tubing	.31"x.39"	Recommended wheel diam.	Ø 16 1/2"
Weight	5 lbs	Number of turns	6 turns

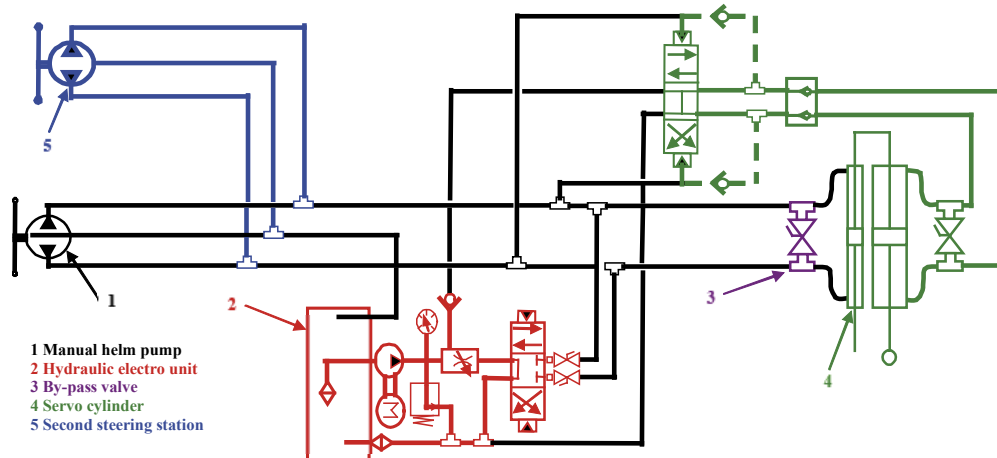
2202565 VHM 90 DT – 32 DT

Maximum torque	6076 ft.lbs	Radius of tiller arm	10 1/4"
Stroke	11 13/16"	Total rudder angle	70°
Maximum pressure	870 PSI	Weight	88 lbs



2201469 Hydraulic Electro Unit HF 1.5-18-24 V – Autopilot function
2201548 Hydraulic Electro Unit HF 3-17-230 V – Autopilot function
2201213 Hydraulic Electro Unit HF 3-17-400 V – Autopilot function

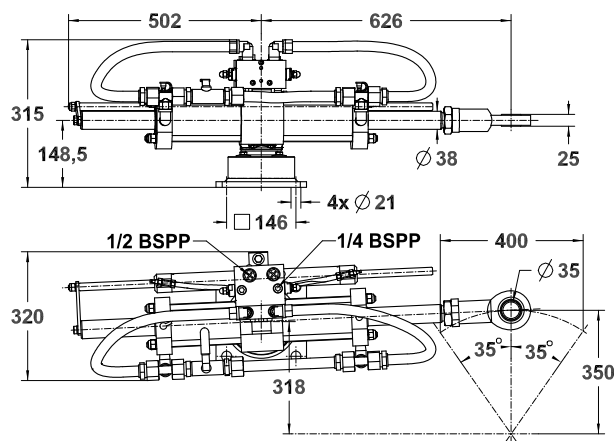
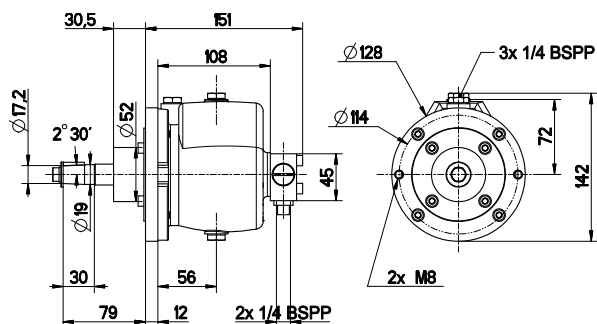
Maximum flow rate	18 l/mn	Maximum pressure	870 PSI
Volume	13.21 US gall	Weight	143 lbs



REFERENCE	24 VDC	230 VAC single-phase	400 VAC three-phase
Single steering station + autopilot function + fittings	2202525	2202526	2202527
Double steering station + autopilot function + fittings	2202528	2202529	2202530

Each reference refers to a complete set without flexible tubes. See page 13 to determine the lengths of the flexible tubes required.

LS 1,000 kpm POWER ASSISTANCE

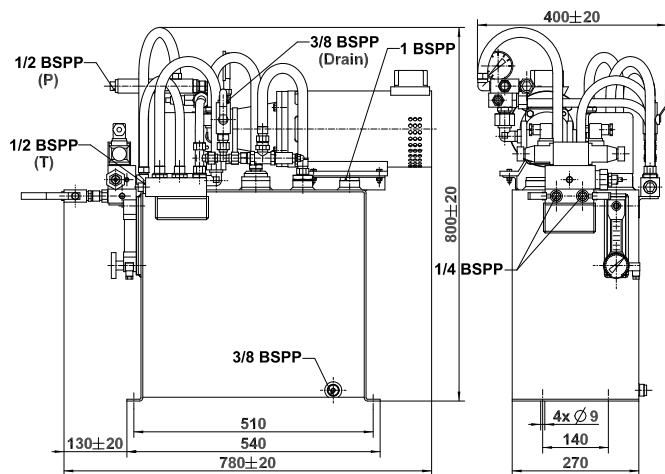


2201055 Pump 40 CT LV DB

Flow rate	2.44 cu.in/rev	Volume	24.4 cu.in
Minimum size of tubing	.31"x.39"	Recommended wheel diam.	Ø 16 1/2'
Weight	5 lbs	Number of turns	6 turns

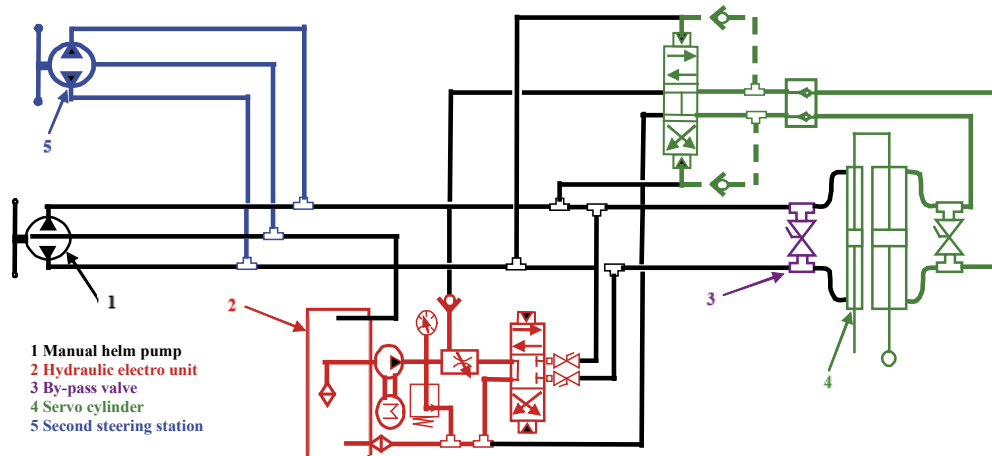
2202566 VHM 90 DT C400 – 32 DT

Maximum torque	7233 ft.lbs	Radius of tiller arm	13 3/4"
Stroke	15 3/4"	Total rudder angle	70°
Maximum pressure	870 PSI	Weight	110 lbs



- 2201469 Hydraulic Electro Unit HF 1.5-18-24 V – Autopilot function
- 2201548 Hydraulic Electro Unit HF 3-17-230 V – Autopilot function
- 2201213 Hydraulic Electro Unit HF 3-17-400 V – Autopilot function

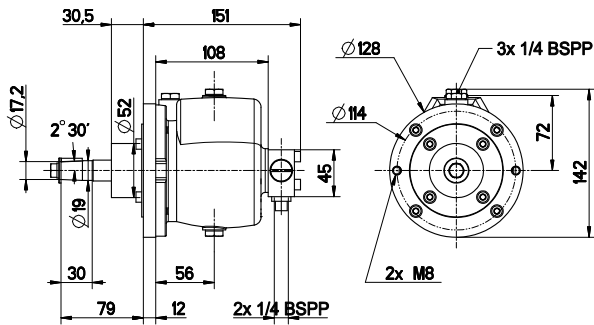
Maximum flow rate	18 l/mn	Maximum pressure	870 PSI
Volume	13.21 US gall	Weight	143 lbs



REFERENCE	24 VDC	230 VAC single-phase	400 VAC three-phase
Single steering station + autopilot function + fittings	2202531	2202532	2202533
Double steering station + autopilot function + fittings	2202534	2202535	2202536

Each reference refers to a complete set without flexible tubes. See page 13 to determine the lengths of the flexible tubes required.

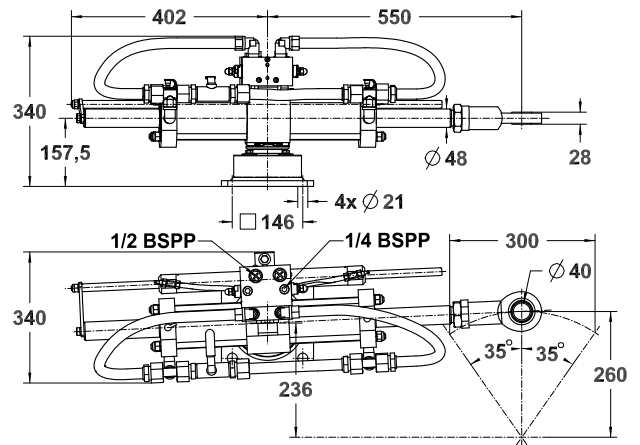
LS 1,200 kpm POWER ASSISTANCE



2201055 Pump 40 CT LV DB

Flow rate 2.44 cu.in/rev
Minimum size of tubing .31"x.39"
Weight 5 lbs

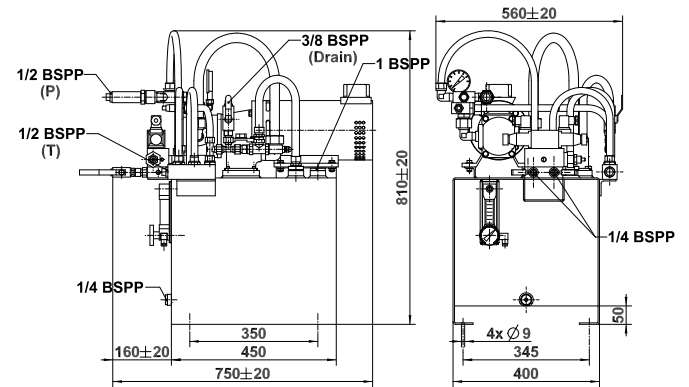
Volume 24.4 cu.in
Recommended wheel diam. Ø 16 1/2"
Number of turns 4 turns



2202568 VHM 110 DT C300 - 32 DT

Maximum torque 8680 ft.lbs
Stroke 11 13/16"
Maximum pressure 870 PSI

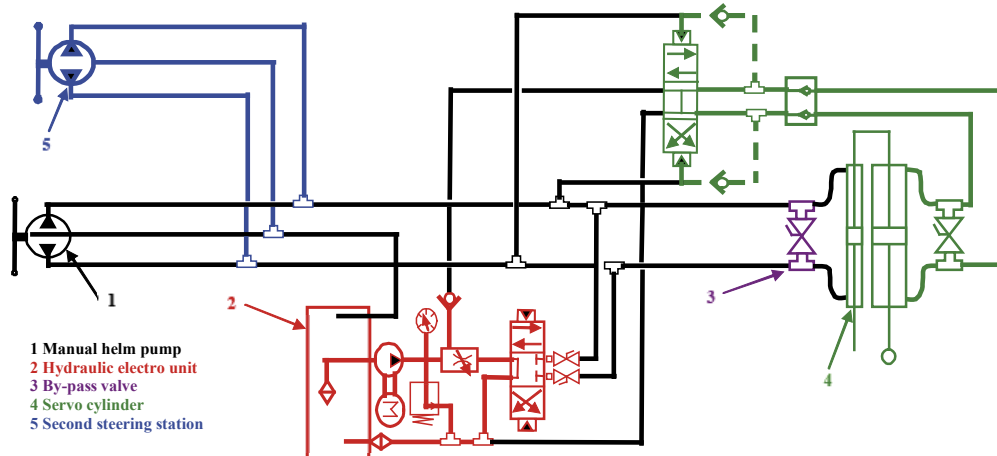
Radius of tiller arm 10 1/4"
Total rudder angle 70°
Weight 132 lbs



2203284 Hydraulic Electro Unit HF 23 I.-24 V – Autopilot function
2203362 Hydraulic Electro Unit HF 22 I.-230 V – Autopilot function
2203361 Hydraulic Electro Unit HF 22 I.-400 V – Autopilot function

Maximum flow rate 22 l/mn
Volume 15.85 US gall

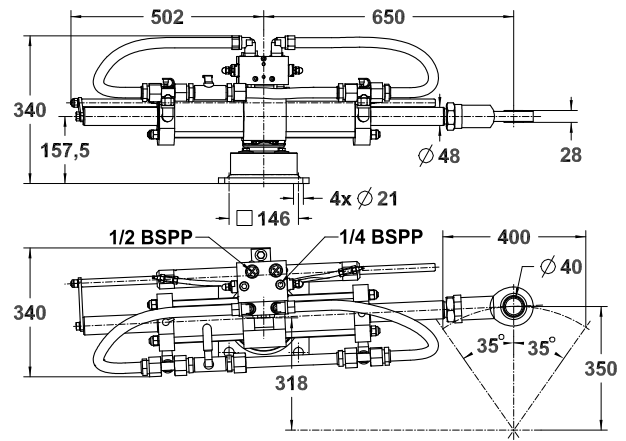
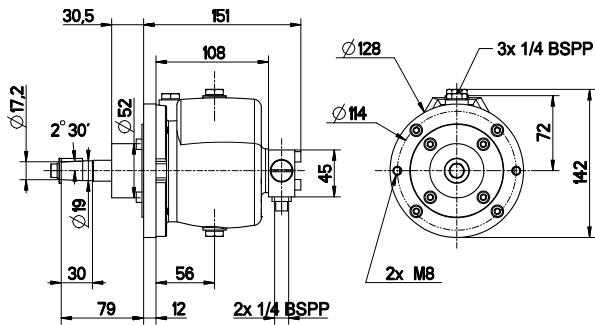
Maximum pressure 870 PSI
Weight 220 lbs



REFERENCE	24 VDC	230 VAC single-phase	400 VAC three-phase
Single steering station + autopilot function + fittings	2202537	2202538	2202539
Double steering station + autopilot function + fittings	2202540	2202541	2202542

Each reference refers to a complete set without flexible tubes. See page 13 to determine the lengths of the flexible tubes required.

LS 1,600 kpm POWER ASSISTANCE

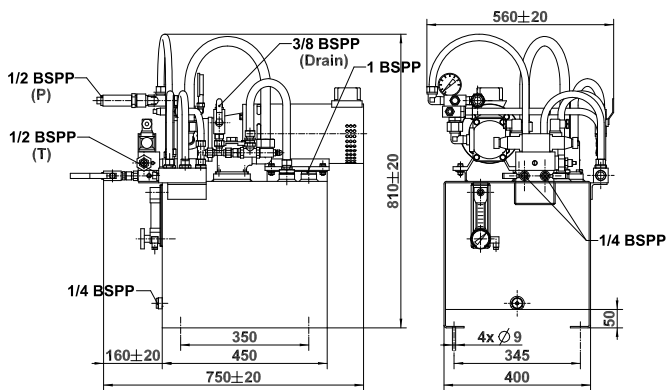


2201055 Pump 40 CT LV DB

Flow rate	2.44 cu.in/rev	Volume	24.4 cu.in
Minimum size of tubing	.31"x.39"	Recommended wheel diam.	Ø 16 1/2"
Weight	5 lbs	Number of turns	4 turns

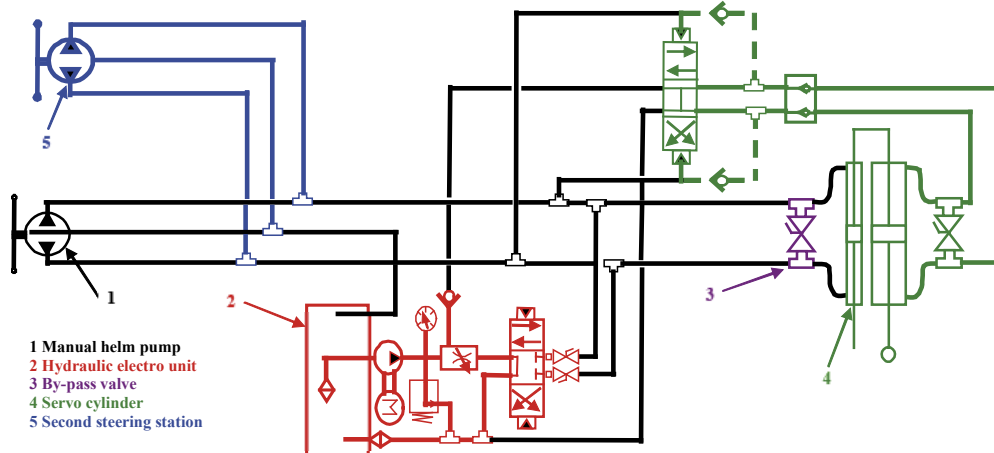
2202567 VHM 110 DT – 32 DT

Maximum torque	11800 ft.lbs	Radius of tiller arm	13 3/4"
Stroke	15 3/4"	Total rudder angle	70°
Maximum pressure	870 PSI	Weight	143 lbs



2203284 Hydraulic Electro Unit HF 23 I.-24 V – Autopilot function 2203362 Hydraulic Electro Unit HF 22 I.-230 V – Autopilot function 2203361 Hydraulic Electro Unit HF 22 I.-400 V – Autopilot function

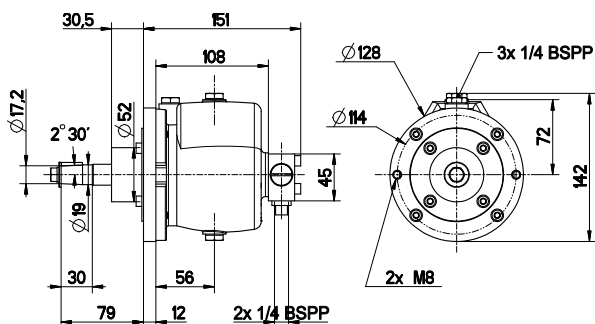
Maximum flow rate	22 l/mn	Maximum pressure	870 PSI
Volume	15.85 US gall	Weight	220 lbs



REFERENCE	24 VDC	230 VAC single-phase	400 VAC three-phase
Single steering station + autopilot function + fittings	2202543	2202544	2202545
Double steering station + autopilot function + fittings	2202546	2202547	2202548

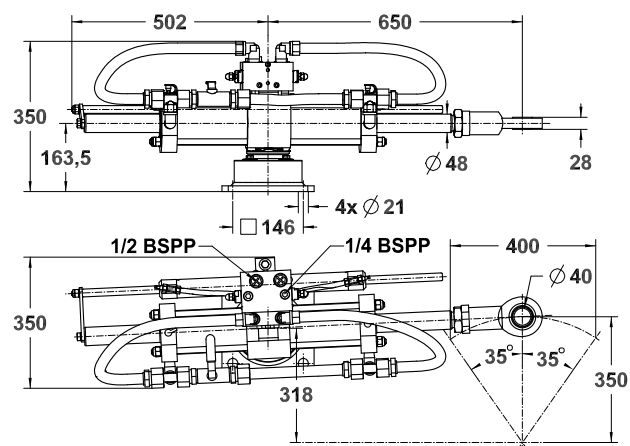
Each reference refers to a complete set without flexible tubes. See page 13 to determine the lengths of the flexible tubes required.

LS 2,000 kpm POWER ASSISTANCE



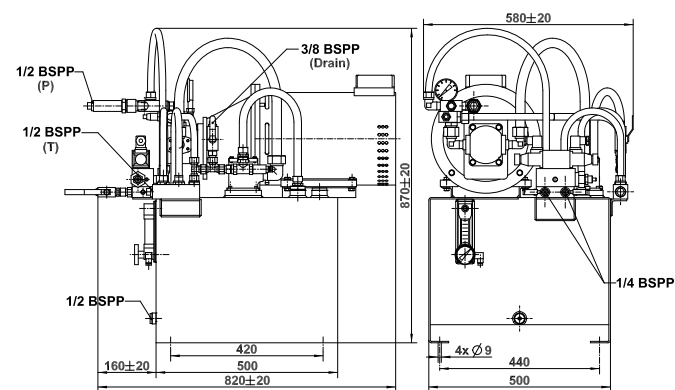
2201055 Pump 40 CT LV DB

Flow rate	2.44 cu.in/rev	Volume	24.4 cu.in
Minimum size of tubing	.31"x.39"	Recommended wheel diam.	Ø 16 1/2'
Weight	5 lbs	Number of turns	4 turns



2202569 VHM 120 DT - 32 DT

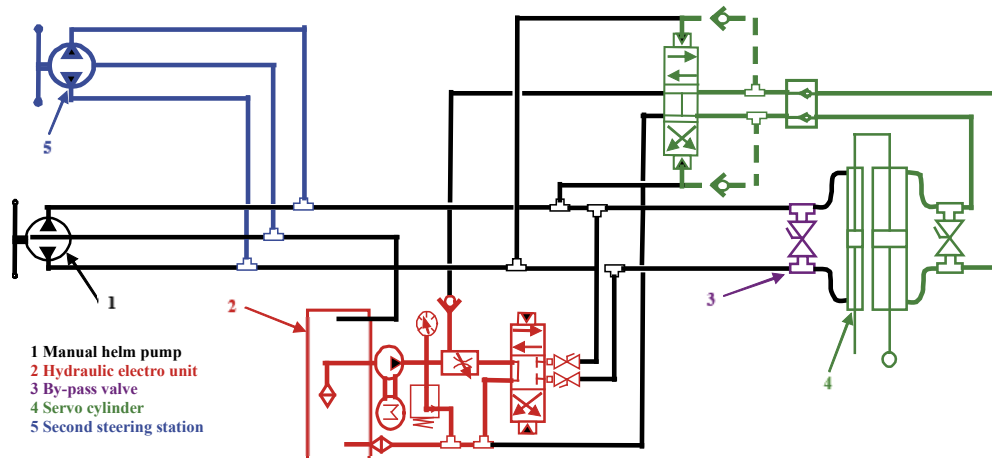
Maximum torque	14770 ft.lbs	Radius of tiller arm	13 3/4"
Stroke	15 3/4"	Total rudder angle	70°
Maximum pressure	870 PSI	Weight	143 lbs



2203364 Hydraulic Electro Unit HF 27 I.-230 V - Autopilot function

2203365 Hydraulic Electro Unit HF 27 I.-400 V - Autopilot function

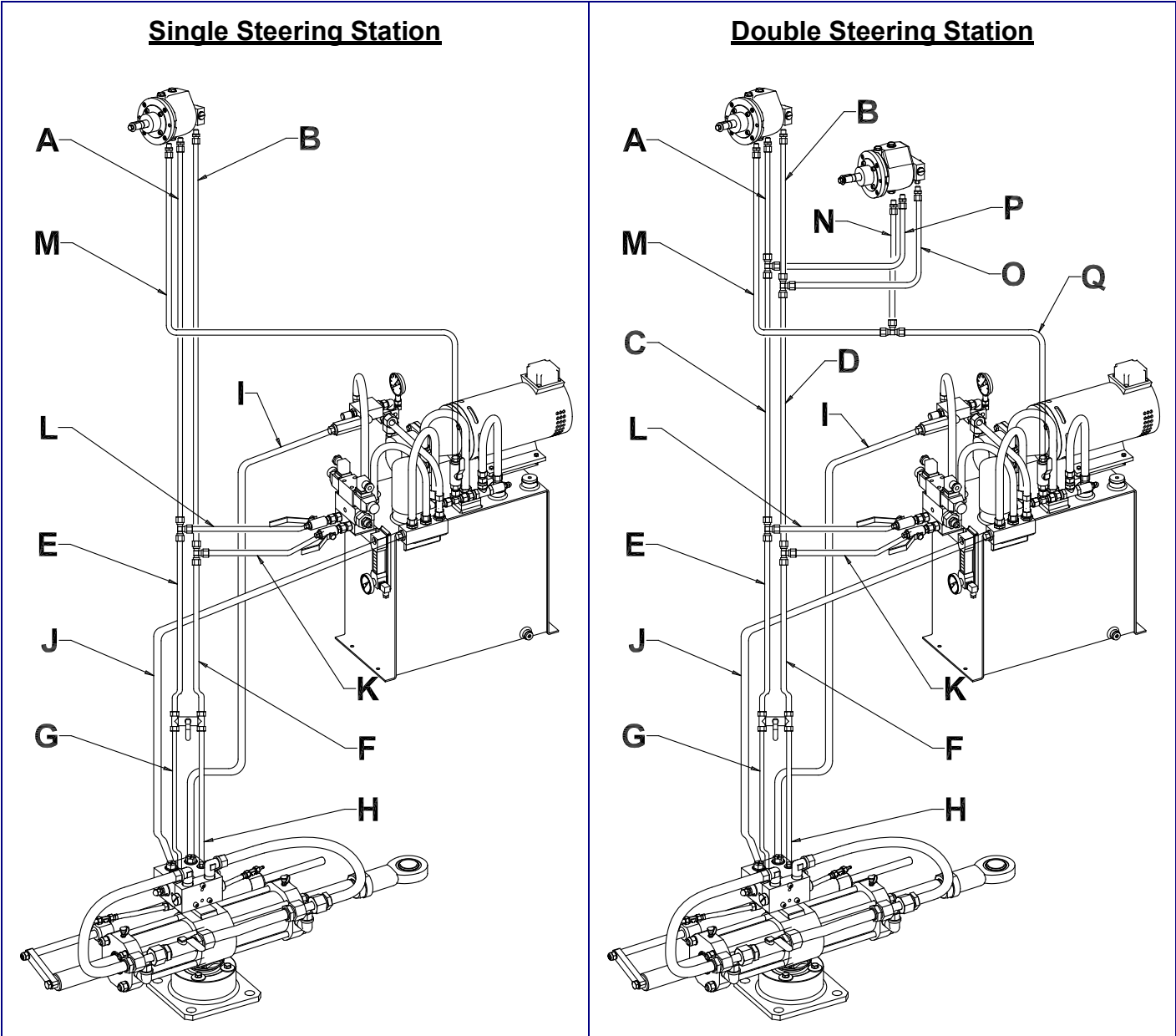
Maximum flow rate	27 l/mn	Maximum pressure	870 PSI
Volume	26.4 US gall	Weight	331 lbs



REFERENCE	24 VDC	230 VAC single-phase	400 VAC three-phase
Single steering station + autopilot function + fittings	On demand	2202550	2202551
Double steering station + autopilot function + fittings	On demand	2202553	2202554

Each reference refers to a complete set without flexible tubes. See page 13 to determine the lengths of the flexible tubes required.

DETERMINATION OF THE LENGTHS OF FLEXIBLE TUBES



Record in the chart below the dimensions as per the selected configuration above and send this page back to us by mail, fax or e-mail.

A = mm	I = mm
B = mm	J = mm
C = mm	K = mm
D = mm	L = mm
E = mm	M = mm
F = mm	N = mm
G = mm	O = mm
H = mm	P = mm
	Q = mm

FLEXIBLE TUBES WITH PRE-CRIMPED CONNECTIONS

High pressure flexible tubes of various lengths with pre-crimped connections of various kinds (several diameters, straight fittings, 90° elbow fittings). Stainless steel fittings available.

A few references in 10 L :

- Flex. tube R1T8 lg 500 – 2 x EFT10L **1290013**
- Flex. tube R1T8 lg 1000 – 2 x EFT10L **1290023**
- Flex. tube R1T8 lg 1500 – 2 x EFT10L **1290025**
- Flex. tube R1T8 lg 2000 – 2 x EFT10L **1290027**
- Flex. tube R1T8 lg 3000 – 2 x EFT10L **1290117**

A few references in 12 L :

- Flex. tube R1T10 lg 500 – 2 x EFT12L **1290042**
- Flex. tube R1T10 lg 1000 – 2 x EFT12L **1290052**
- Flex. tube R1T10 lg 1500 – 2 x EFT12L **1290054**
- Flex. tube R1T10 lg 2000 – 2 x EFT12L **1290056**
- Flex. tube R1T10 lg 3000 – 2 x EFT12L **1290130**

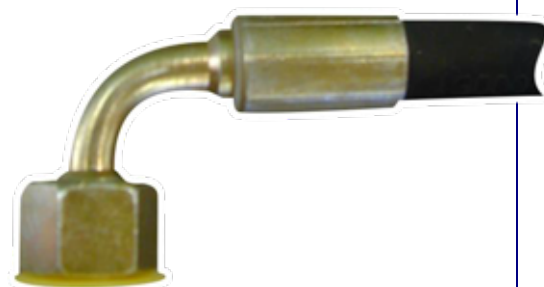
A few references in 15 L :

- Flex. tube R1T13 lg 500 – 2 x EFT15L **1290385**
- Flex. tube R1T13 lg 1000 – 2 x EFT15L **1290376**
- Flex. tube R1T13 lg 2000 – 2 x EFT15L **1290387**
- Flex. tube R1T13 lg 2500 – 2 x EFT15L **1290378**

A few references in 18 L :

- Flex. tube R1T16 lg 500 – 2 x EFT18L **1290077**
- Flex. tube R1T16 lg 1000 – 2 x EFT18L **1290087**
- Flex. tube R1T16 lg 1500 – 2 x EFT18L **1290089**
- Flex. tube R1T16 lg 2000 – 2 x EFT18L **1290091**
- Flex. tube R1T16 lg 3000 – 2 x EFT18L **1290112**

Other lengths on request. Possibility to make up specific kits as needed.



STEERING OIL



2203045 20 Litre oil can
white oil ISO 22

2203201 20 Litre oil can
Dexron II

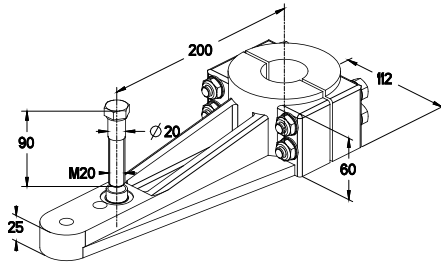
2200017 2 Litre oil can
Dexron II



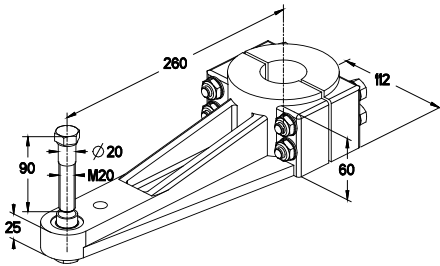
TILLER ARMS



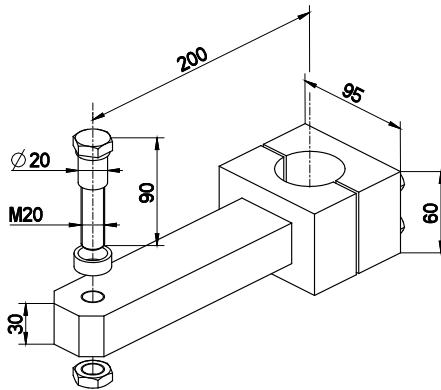
2200534
Rough equipped tiller arm LS 185 P
 $\varnothing 28$ rough boring – Maxi $\varnothing 50$



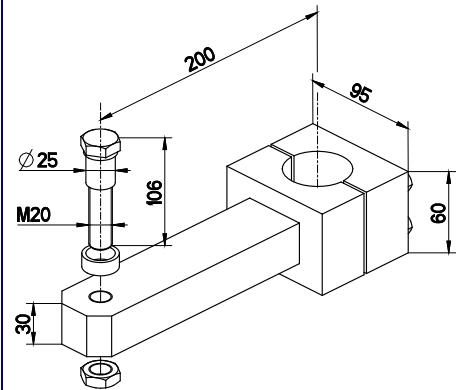
2200535
Rough equipped tiller arm LS 240 P
 $\varnothing 28$ rough boring – Maxi $\varnothing 50$



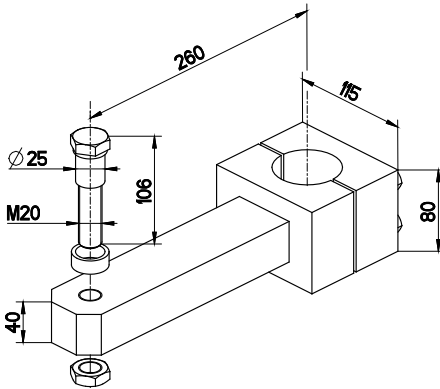
2200098
Rough equipped tiller arm LS 105
 $\varnothing 20$ rough boring – Maxi $\varnothing 50$



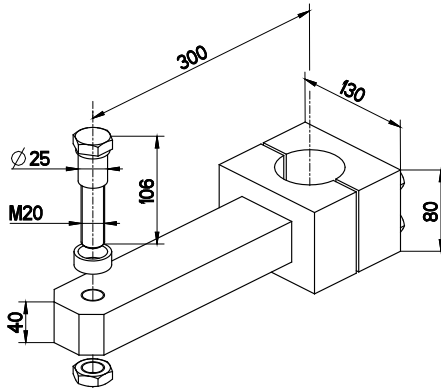
2200099
Rough equipped tiller arm LS 155
 $\varnothing 20$ rough boring – Maxi $\varnothing 50$



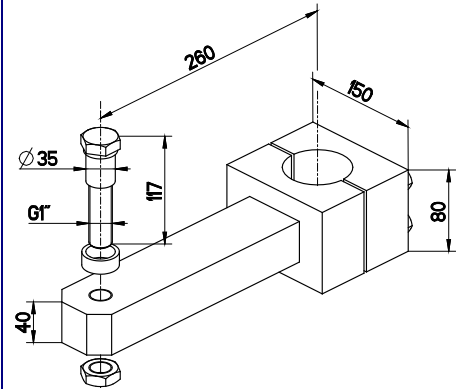
2200100
Rough equipped tiller arm LS 330
 $\varnothing 20$ rough boring – Maxi $\varnothing 64$



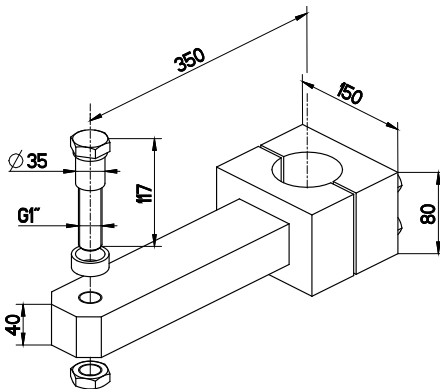
2201540
Rough equipped tiller arm LS 450
 $\varnothing 20$ rough boring – Maxi $\varnothing 64$



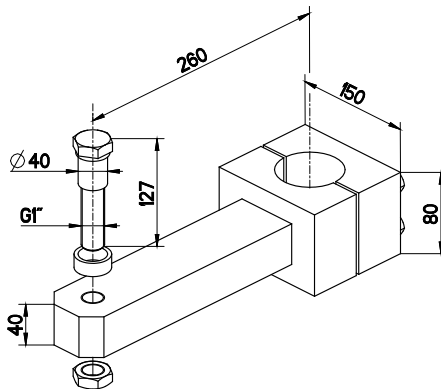
2200113
Rough equipped tiller arm LS 550-840
 $\varnothing 20$ rough boring – Maxi $\varnothing 88$



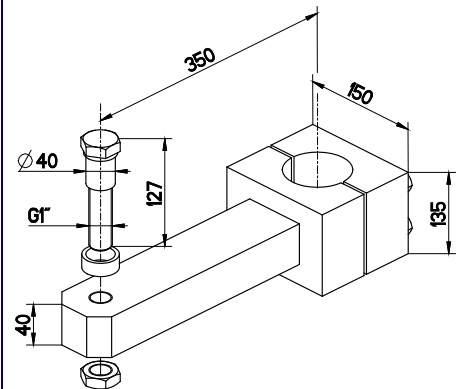
2202626
Rough equipped tiller arm LS 1000
 $\varnothing 20$ rough boring – Maxi $\varnothing 88$



2201935
Rough equipped tiller arm LS 1200
 $\varnothing 20$ rough boring – Maxi $\varnothing 88$

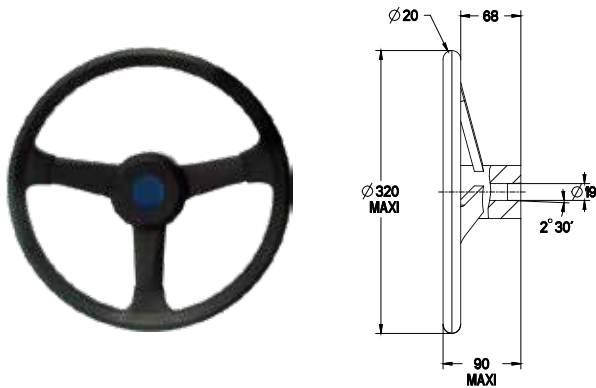


2200134
Rough equipped tiller arm LS 1350-1660
 $\varnothing 20$ rough boring – Maxi $\varnothing 100$

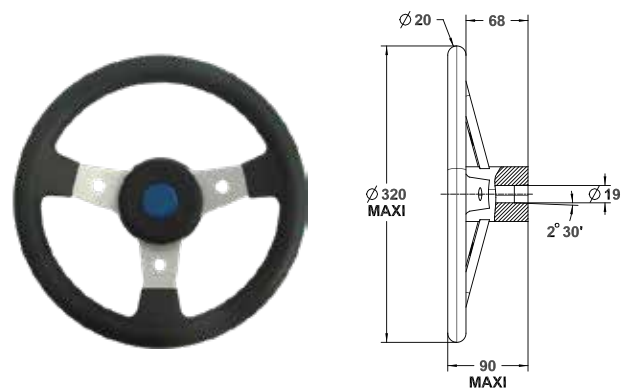


RANGE OF STEERING WHEELS

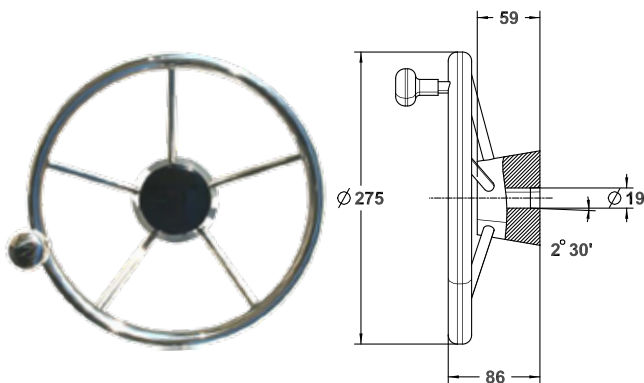
2200181 Plastic Wheel Ø 320



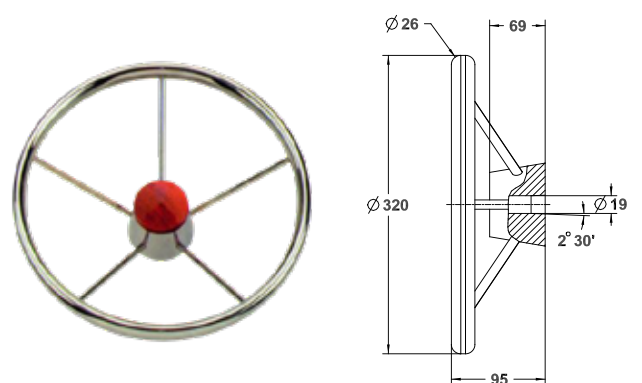
2200182 Imitation Leather/Anodised Alu Ø 320



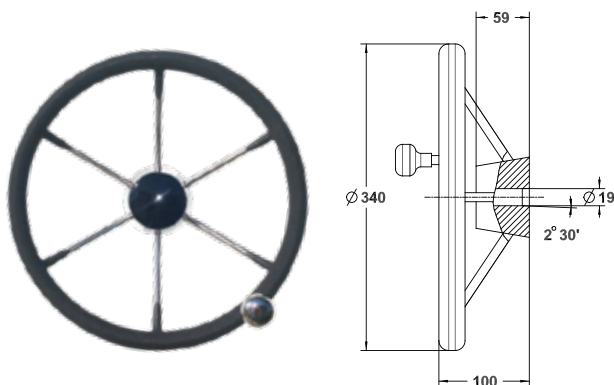
2202462 S/Steel Wheel with knob Ø 275



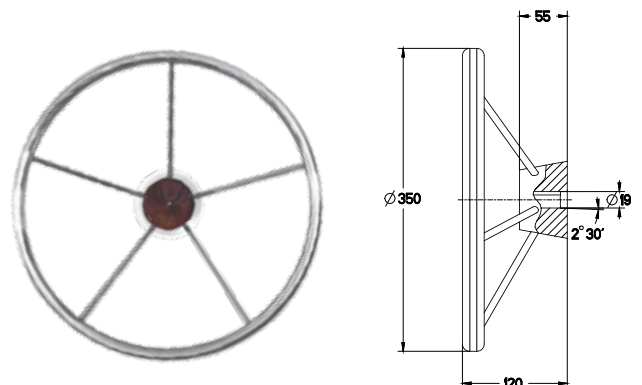
2203376 S/Steel Wheel Ø 320



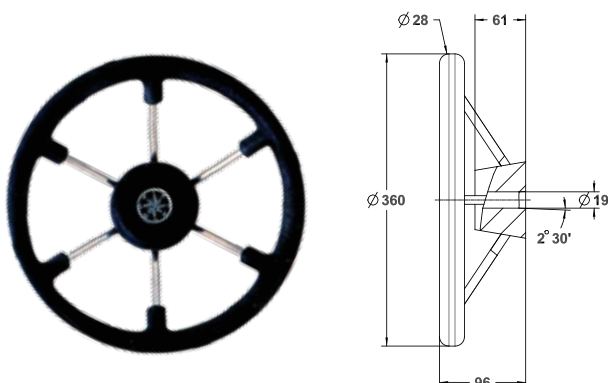
2202464 Covered S/Steel Wheel with knob Ø 340



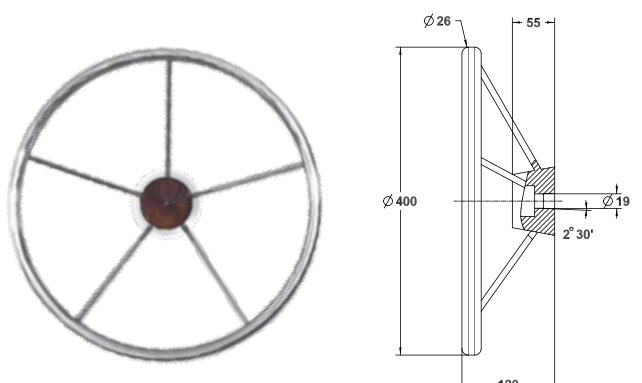
2200985 S/Steel Wheel Ø 350



2203377 Covered S/Steel Wheel Ø 360



2200986 S/Steel Wheel Ø 400



GUARANTEE

- 1) The manufacturer guarantees the equipment sold and supplied against any faulty manufacturing or defects whether they are the result of the design, the raw material, the manufacturing or construction under the terms and restrictions indicated below :
- 2) The guarantee is applicable only if the client has satisfied the general obligations of this contract, in particular, the terms of payment.
- 3) The guarantee only includes equipment sold by the manufacturer. It does not extend to equipment in which the manufacturer's supply has been installed and, in particular, to the performances of this equipment.
- 4) When the manufacturer's supplies are installed by the client or a third party into any other equipment, they remain solely responsible for this installation, the selection and suitability of the manufacturer's supplies as the manufacturer's diagrams, designs and proposals are given as an indication only, unless otherwise specified in the order. In particular, the manufacturer does not guarantee components or equipment not sold by him, nor the assembly, adaptation, design or operation of the assembly or parts of the assembly thus created. The manufacturer's supply, as well as the assembly created by the client or a third party, are assumed to be operated under the exclusive control of the client or the third party.
- 5) The period of the guarantee is eighteen months starting from the date of first use by the original consumer or twenty four months from the date of delivery of the products to the transporter, distributor or wholesaler. The manufacturer has the right to require from the client proof of the commissioning date specified on the guarantee request. This period is neither extended nor interrupted through legal or amicable claims on the part of the client. At the end of this period, the guarantee is terminated without further consideration.
- 6) The obligation of the guarantee only applies if the client establishes that the defect appeared under normal operating conditions stipulated for this type of supply, or indicated by the manufacturer in writing and during normal operation. It does not apply in case of negligence, faulty maintenance or supervision, operator's responsibility, imprudence, non observance of recommended or operating instructions, or the use of oil of insufficient quality for the equipment. The manufacturer is released from responsibility for any damage caused by loss of oil or leaks. The guarantee also does not apply for any incidents resulting from a case of force majeure or Acts of God, as well as any damage, replacement or repairs exceeding the normal material wear.
- 7) The guarantee is limited to the repair in the manufacturer's shop at his own cost within the shortest possible time, of the equipment and parts supplied by him, identified as defective by the technical department. These parts must be sent pre-paid. No claim may be made for compensation for any damage such as personal injury, damage to goods other than those concerned in this contract, privation of possession, operating losses, commercial damage or loss of earnings. During the guarantee period, the cost of labor, dismantling and reassembly of the equipment outside the manufacturer's plant, the shipping costs for repaired, replaced or faulty equipment, travelling and accommodation expenses for technicians are the responsibility of the client.

When the guarantees are given according to the industrial results for a given equipment, these results and the consequences of this undertaking will result in a special agreement between the parties.

- 8) In order to take advantage of this guarantee, the client must notify the manufacturer in writing as soon as possible of the defects attributed to the equipment and provide any proof concerning these defects. He must do his best for the manufacturer to be able to ascertain these defects and to perform corrective actions. The guarantee does not apply if the equipment is not returned to the manufacturer in the state in which it broke down or if it has previously been disassembled, repaired, modified either by a third party, the user or the client. After receiving proper notification of the equipment defect, the manufacturer shall correct this fault as soon as possible, reserving the right, if applicable, to modify all or part of equipment in order to fulfil the obligations.
- 9) The client agrees that the manufacturer will not be responsible for damage due to the fact that the client has not satisfied any one of the obligations defined above.

see us on the web
www.ls-france.com



Lecomble & Schmitt
BP n° 2 - 64240 URT - France



Sales Department

+33 (0)559 562 411 - commercial@ls-france.com

Technical Department

+33 (0)559 562 646 - commercial2@ls-france.com

Fax : +33 (0)559 569 571

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Lecomble & Schmitt Company

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Lecomble & Schmitt is a French company specialized in the design and manufacture of hydraulic steering systems for boats.

Lecomble & Schmitt offers an extensive product line for all types of sailboats and motorboats. We are well known for our quality.

Lecomble & Schmitt is there to advise you and deliver with you the most suitable system to adapt to the specificities of your needs.

Brief history

At the time of its setting up in the Pays basque in 1944, Lecomble & Schmitt was designing and manufacturing volumetric pumps with flow-rate regulation. It was not until 1968 that, thanks to 40 years of experience in hydraulics, the adventure in the nautical industry started. At the moment, the company has moved to the Basque Country in the wider south-west of France.

Nevertheless, Lecomble & Schmitt is the only French manufacturer to offer hydraulic and mechanical steering systems for pleasure boats, fishing and work crafts.

Since 1999 LS has been a subsidiary of the industrial group Arzamas which is also established in the Basque Country. The activities of the group and its know-how are as varied as complementary and include design, precision machining, sheet-metal working, plastic technology, injection and thermoforming and composite moulding.

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