SYSTEM LUBRICATION PROGRESSIVE

30

CATALOG No. 803/30



ADVANCED FLUID MANAGEMENT SOLUTIONS









DESIGN IS AN

Aut







STUDY, RESEARCH AND DESIGN

The real strength of a firm starts with the ability of its study and research departments to always find the most suitable solutions to address market demands.





TESTING AND INSPECTIONS

A sophisticated test room enables careful testing of the quality of new products before they are put on the market.

ASSEMBLY LINES

Dedicated equipment specially designed to facilitate assembly operations, at the same time allowing an effective and automatic control of quality.



STORAGE OF COMPONENTS

Our vertical stores enable quick and careful preparation of the components and spare parts intended for assembly and sale.



TECHNOLOGY INNOVATION QUALITY SAFETY



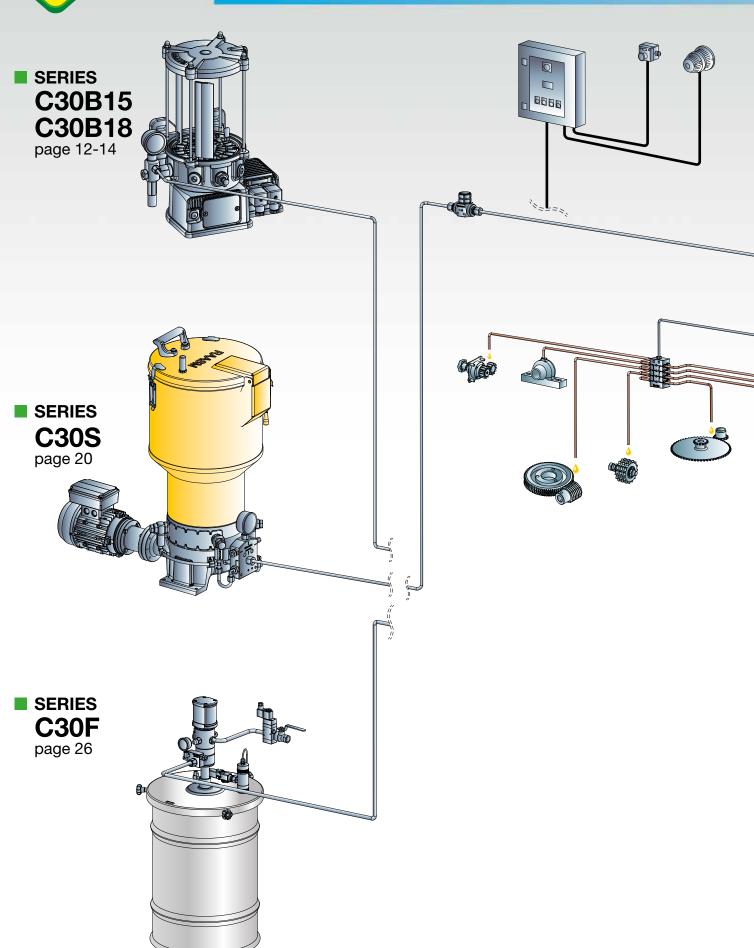
TECHNICAL ASSISTANCE

RAASM has the most complete range of products for lubrication and the dispensing of fluids. The aim is to always respond fully to the questions of our customers and meet all their needs.





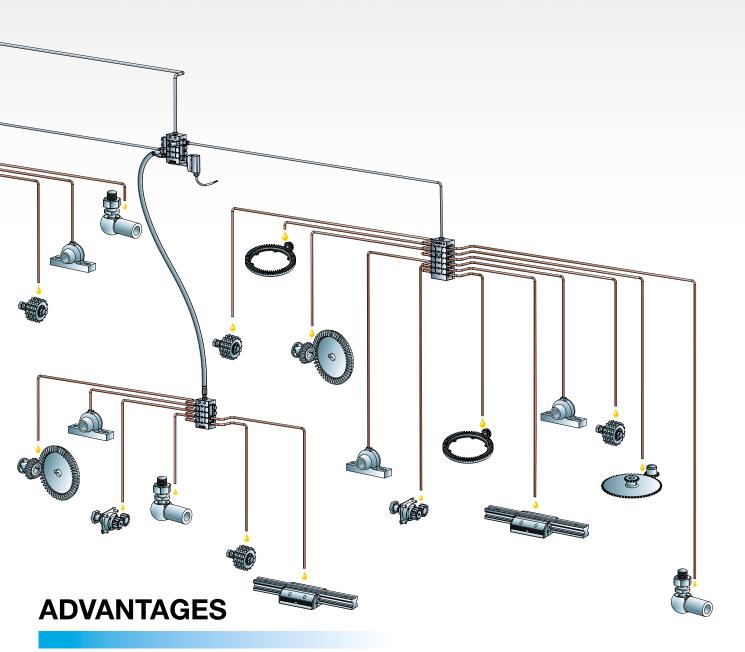
SYSTEM 30 PROGRESSIVE



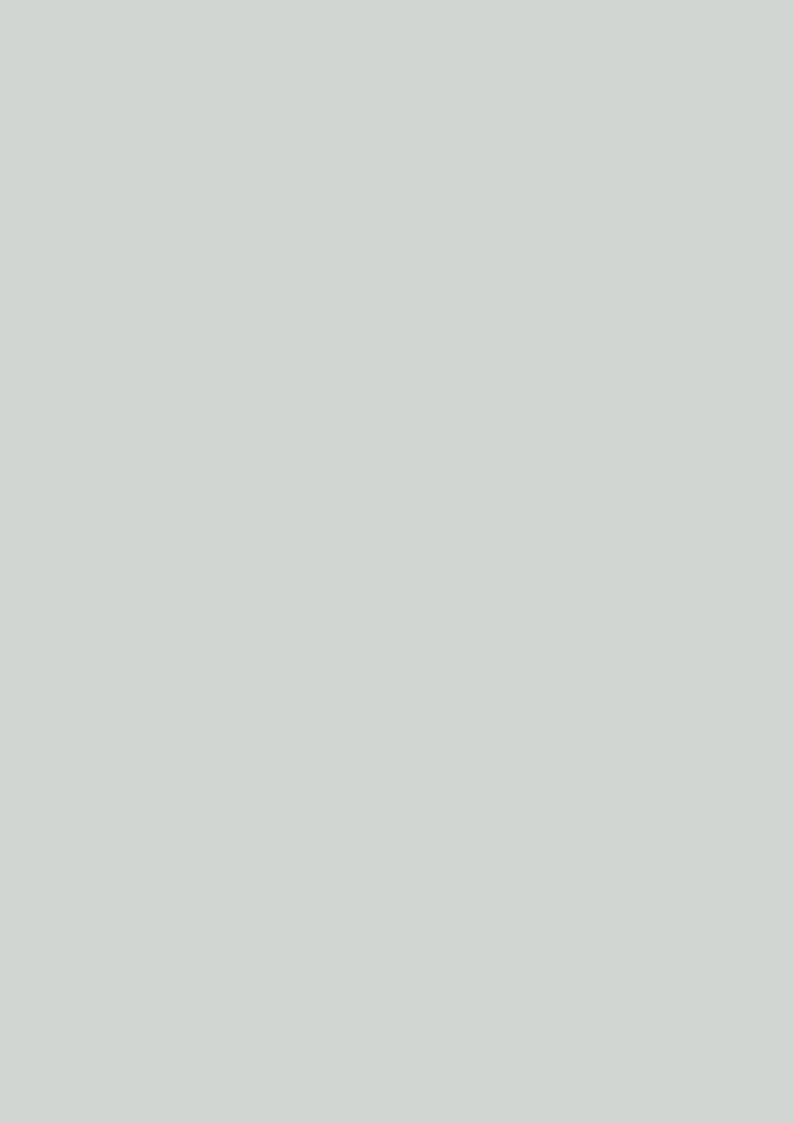
The progressive lubrication system consists of a pumping unit connected to divider valves which, through the pumping action of a piston placed inside them, ensure the delivery of a predetermined quantity of lubricant to a corresponding number of users

This system is defined such, since the action of each piston inside the divider valves, which allows the flow of lubricant to pass from one section to another of the divider valves, follows a progressive sequence of distribution to the various users.

Each divider valves is placed in series with all the others, therefore malfunctioning of just one causes blocking of all the others. Consequently the control of operation of a single divider valves allows the monitoring of the entire system. With this system, lubricating oils and greases up to grade NLGI 2 can be used.



- The progressive system ensures that each individual point is properly lubricated just by controlling any of the divider valves making up the system.
- Possibility of implementing the control for each individual point, when it is all-important to know where a malfunction can occur.
- Possibility of installing visual or electric-type controls.
- Various divider valves models are available for the number of outlets and for deliveries.
- Careful choice of materials and treatments, ensuring the long life of all components.
- The progressive system is normally used for short work times that include long pause times, hence reduced wear of all parts of the system.
- Suitable for medium short systems with a high number of users.









Sturdy and compact electric pumps with shockproof plastic cover for IP64 protection, ideal for stress work environments. Pumping pistons are radially placed in the aluminum basement below the lubricant reservoir.

Available in 3 versions:

- Remote control with all the programmable functions (pause and working time) managed by the control unit, depending on system requirements.
- Analog control with alarm signal, reset functions, and outside cycle operations management.
- Digital control with alarm signal, reset functions, pause and work times and outside cycle operations all managed by the control unit integrated board. The central body aluminum support is suitable for wall-type applications. Centrally located on the device there's the lubricator with filter (150 micron) for tank grease filling. For oil working versions, tank filling occurs through the filter mounted on the tank's cover top.

Colours:



RAL 7035

to order the article in grey colour Ral 7035 it is neccessary to add the suffix /C1

SERIES C30B15 ELECTRIC MOTOR OPERATED PUMPS

12/24 V DC - ø 150 mm



TECHNICAL CHARACTERISTICS				
Art. 3081100 - 4,27 cm ³ /min - 35 rpm				
1 - 4				
F 1/-	4" G			
300	bar			
1,5 - 3	3 litres			
by hydraulic greaser M20x1,5 with filter 150 μm				
minimum level (magnetic-capacitive sensor)				
IP 64				
- 25 °C / + 60 °C				
Oil > 40 cSt - Grease max NLGI 2				
12 V DC	24 V DC			
36 W	36 W			
78 W 72 W				
3 A 1,5 A				
6,5 A	3 A			
	Art. 3081100 - 4,27 cm³/min - 35 rpm 1 - 4 F 1/4" G 300 bar 1,5 - 3 litres by hydraulic greaser M20x1,5 with filter 150 μm minimum level (magnetic-capacitive sensor) IP 64 - 25 °C / + 60 °C Oil > 40 cSt - Grease max NLGI 2 12 V DC 36 W 78 W 78 W 72 W 3 A 1,5 A			

- * Approx. delivery with grease NLGI 2 at 18°C (The lubricant must have technical characteristics in compliance with working temperature).
- * Testing done at 250 bar at 20°C.

GUIDE TO CHOOSING PUMP ø 150 mm - 12 V DC

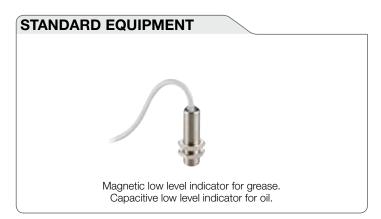
P/N		Tank	No. pumping	Delivery	Control
Grease	Oil	capacity (litres)	elements	(cm³/min)	type
3000130	3030340	1,5	1	4,27	remote
3003910	3034120	3	1	4,27	remote
3000040	3030250	1,5	1	4,27	analog
3003820	3034030	3	1	4,27	analog
3000085	3030295	1,5	1	4,27	digital
3003865	3034075	3	1	4,27	digital

Attention: items listed above are for electric motor pumps without delivery control assembly (Art. 3081350).

GUIDE TO CHOOSING PUMP ø 150 mm - 24 V DC

P/N		Tank	No. pumping	Delivery	Control
Grease	Oil	capacity (litres)	elements	(cm³/min)	type
3001210	3031420	1,5	1	4,27	remote
3004990	3035200	3	1	4,27	remote
3001120	3031330	1,5	1	4,27	analog
3004900	3035110	3	1	4,27	analog
3001165	3031375	1,5	1	4,27	digital
3004945	3035155	3	1	4,27	digital

Attention: items listed above are for electric motor pumps without delivery control assembly (Art. 3081350).

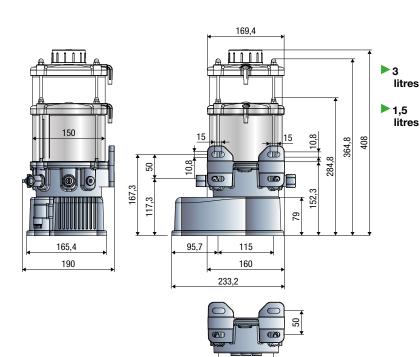






Art. 3081350 Delivery control assembly equipped with manometer and overpressure adjustable valve 100 - 300 bar

OVERALL DIMENSIONS (mm)



	1,5 litres		
	Grease Oil		
Packing-m³	1-0,05	1-0,05	
Net weight Kg	5,2	5,2	
Gross weight Kg	6,2	6,2	

	3 litres		
	Grease	Oil	
Packing-m³	1-0,05	1-0,05	
Net weight Kg	5,5	5,4	
Gross weight Kg 👸 6,4		6,3	



Sturdy and compact electric pumps with shockproof plastic cover for IP64 protection, with 3-5-8 liters tank capacity. Pumping pistons are radially placed in the aluminum basement below the lubricant reservoir.

Available in 3 versions:

- with remote control where the programmable functions (pause and working time) managed by the control unit, depending on system requirements
- with analog control for alarm signal, reset functions and outside cycle operations management
- with digital control for alarm signal, reset functions, pause and work times and outside cycle operations all managed by the control unit integrated board. Electrical parts are located in the bottom of the unit protected by a strong plastic cover.

SERIES C30B18 ELECTRIC MOTOR OPERATED PUMPS

12/24 V DC - ø 180 mm



Colours:



RAL 7035

to order the article in grey colour Ral 7035 it is neccessary to add the suffix /C1

	TECHNICAL CHARACTERISTICS		
Max. delivery 1 pumping element *	Art. 3081100 - 4,27 cm³/min - 35 rpm		
No. pumping elements	1 -	- 4	
Delivery union	F 1/-	4" G	
Max. pressure	300	bar	
Tank	3 - 5 -	8 litres	
Tank filling	by hydraulic greaser M2	20x1,5 with filter 150 μm	
Level control	minimum level (magnetic-capacitive sensor)		
Protection rating	IP 64		
Operating temperature	- 25 °C / + 60 °C		
Lubricant	Oil > 40 cSt - Grease max NLGI 2		
Gearmotor *	12 V DC	24 V DC	
Power input	36 W	36 W	
Power input (max. starting)	78 W 72 W		
Current absorbed	3 A 1,5 A		
Current absorbed (max. starting)	6,5 A 3 A		

- * Approx. delivery with grease NLGI 2 at 18°C (The lubricant must have technical characteristics in compliance with working temperature).
- * Testing done at 250 bar at 20°C.

GUIDE TO CHOOSING PUMP ø 180 mm - 12 V DC

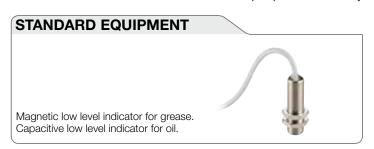
P/N		Tank	No. pumping	Delivery	Control
Grease	Oil	capacity (litres)	elements	(cm³/min)	type
3019030	3049240	3	1	4,27	remote
3022810	3053020	5	1	4,27	remote
3026590	3056800	8	1	4,27	remote
3018940	3049150	3	1	4,27	analog
3022720	3052930	5	1	4,27	analog
3026500	3056710	8	1	4,27	analog
3018985	3049195	3	1	4,27	digital
3022765	3052975	5	1	4,27	digital
3026545	3056755	8	1	4,27	digital

Attention: items listed above are for electric motor pumps without delivery control assembly (Art. 3081350).

GUIDE TO CHOOSING PUMP ø 180 mm - 24 V DC

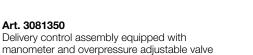
P/N		Tank	No. pumping	Delivery	Control
Grease	Oil	capacity (litres)	elements	(cm³/min)	type
3020110	3050320	3	1	4,27	remote
3023890	3054100	5	1	4,27	remote
3027670	3057880	8	1	4,27	remote
3020020	3050230	3	1	4,27	analog
3023800	3054010	5	1	4,27	analog
3027580	3057790	8	1	4,27	analog
3020065	3050275	3	1	4,27	digital
3023845	3054055	5	1	4,27	digital
3027625	3057835	8	1	4,27	digital

Attention: items listed above are for electric motor pumps without delivery control assembly (Art. 3081350).



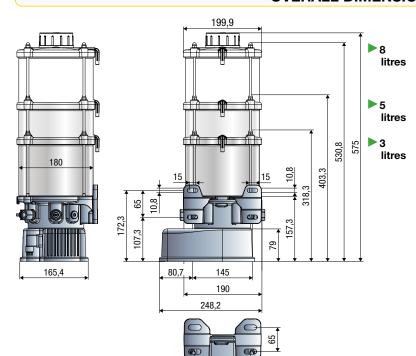
ON REQUEST

Art. 3081350





OVERALL DIMENSIONS (mm)



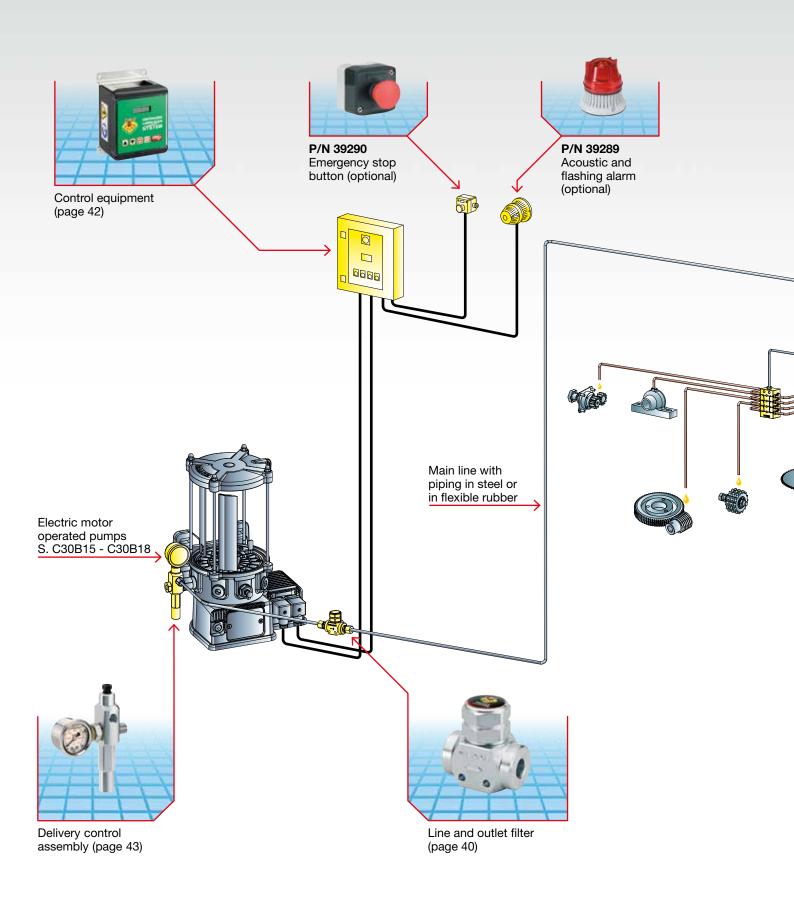
	3 litres		
	Grease Oil		
Packing-m³	1-0,05	1-0,05	
Net weight Kg	5,8	5,8	
Gross weight Kg	6,8	6,7	

	5 litres		
	Grease Oil		
Packing-m³	1-0,07	1-0,07	
Net weight Kg	6,2	6	
Gross weight Kg	7,1	7	

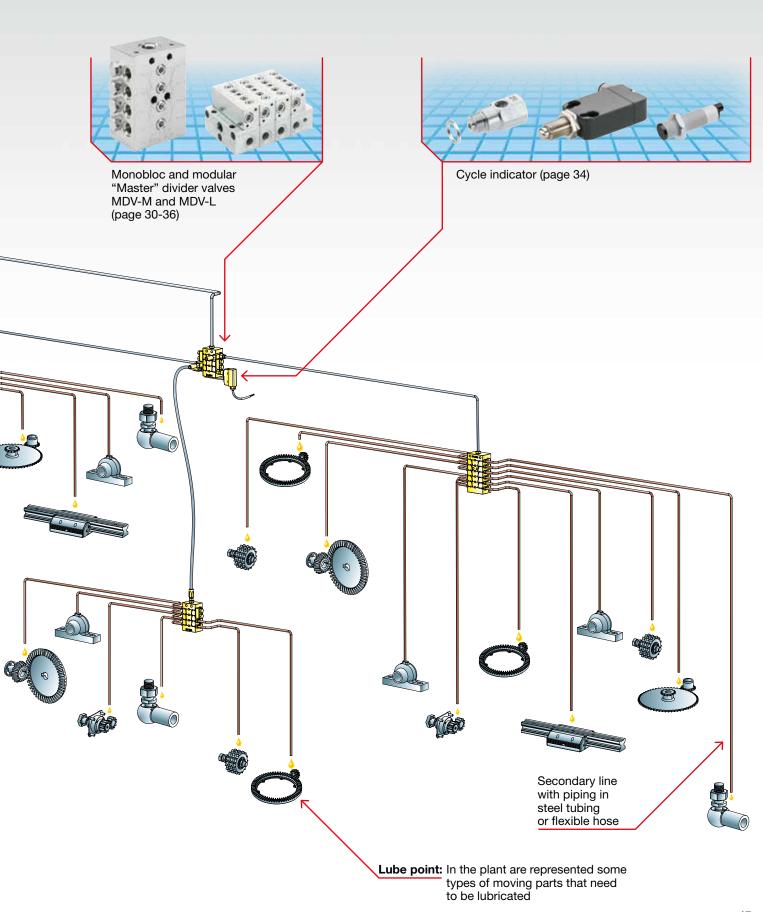
	8 litres		
	Grease Oil		
Packing-m³	1-0,07	1-0,07	
Net weight Kg	6,6	6,5	
Gross weight Kg 🖺	7,4	7,3	

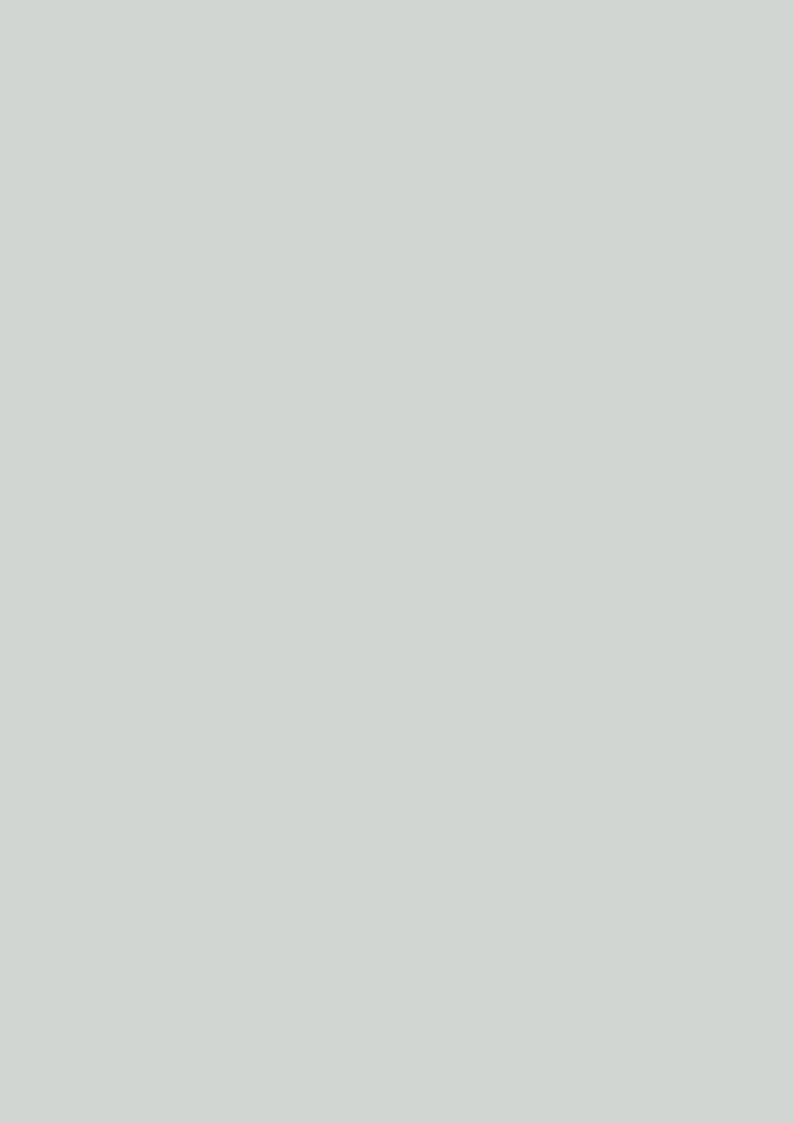


Type of lubrication system with



MOTOR-OPERATED PUMPS SERIES C30B15 - C30B18











SERIES C30S **ELECTRIC MOTOR OPERATED PUMPS**

230/400 V AC - 275-480 V AC

Compact electric motoroperated pump, with dispense control group mounted on pump's body. Pumping pistons are radially placed in the aluminum basement below the lubricant reservoir.

The hardened galvanized steel pump works radially into the sturdy and compact nickel plated base. The epoxy powder painted lubricant tank is available in 3 different sizes: 10, 30 and 70 liters. Two electric motor (three-phase) are available with 4 or 6 poles, coupled with 35:1 or 70:1 ratio gear motor. These all specifics allow a wide combination of tanks, motors and gear motors to meet all endusers' needs.



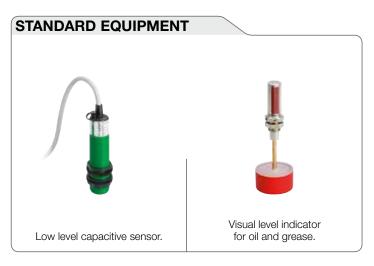
	TECHNICAL CHARACTERISTICS	
Max. delivery *	108 cm³/min	
Max. operating pressure	400 bar adjustable	
Tank capacity	10-30 litres	
Ratio of reducer in pump	35:1 - 70:1	
Filling union	F 1/2" G	
Lubricant outlet union	F 3/8" G	
Pumping unit delivery	P/N 2081100 - 1 cm³/cycle	
Temperature	- 25 °C / + 60 °C	
Compatible fluids	Oil > 40 cSt - Grease max NLGI 2	
Electric min. level control	supplied	
Electric min. max. level control	on request	
	power: 0,25 kW	
	230/400 V AC-50 Hz - 275/480 V AC-60 Hz *	
Motor	speed 6-pole: 870 ÷ 1100 rpm	
	speed 4-pole: 1370 ÷ 1660 rpm	
	protection: IP 55	
	base: aluminium alloy	
Materials	moving parts: steel	
Materials	pumping elements: treated steel	
	tank: painted steel	
* Approx delivery with grease NLGL2 at 18°C. (The li	lubricant must have technical characteristics in compliance with working temperature)	

^{*} Approx. delivery with grease NLGI 2 at 18°C. (The lubricant must have technical characteristics in compliance with working temperature).

^{*} Different rated voltages have to be indicated in the purchase order.

GUIDE TO CHOOSING PUMP

P/N		Tank	No. pumping	Reducer ratio	Motor	Delivery
Grease	Oil	capacity (litres)	elements	Reducer ratio	Motor	(cm³/min)
3070080	3070440	10	2	70:1	6 poles	28
3070200	3070560	30	2	70:1	6 poles	28
3070020	3070380	10	2	70:1	4 poles	40
3070140	3070500	30	2	70:1	4 poles	40
3070110	3070470	10	4	70:1	6 poles	56
3070230	3070590	30	4	70:1	6 poles	56
3070050	3070410	10	4	70:1	4 poles	80
3070170	3070530	30	4	70:1	4 poles	80
3070065	3070425	10	2	35:1	6 poles	54
3070185	3070545	30	2	35:1	6 poles	54
3070095	3070455	10	4	35:1	6 poles	108
3070215	3070575	30	4	35:1	6 poles	108

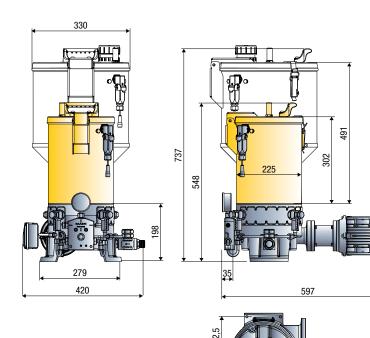




OVERALL DIMENSIONS (mm)

≥30 litres

► 10 litres

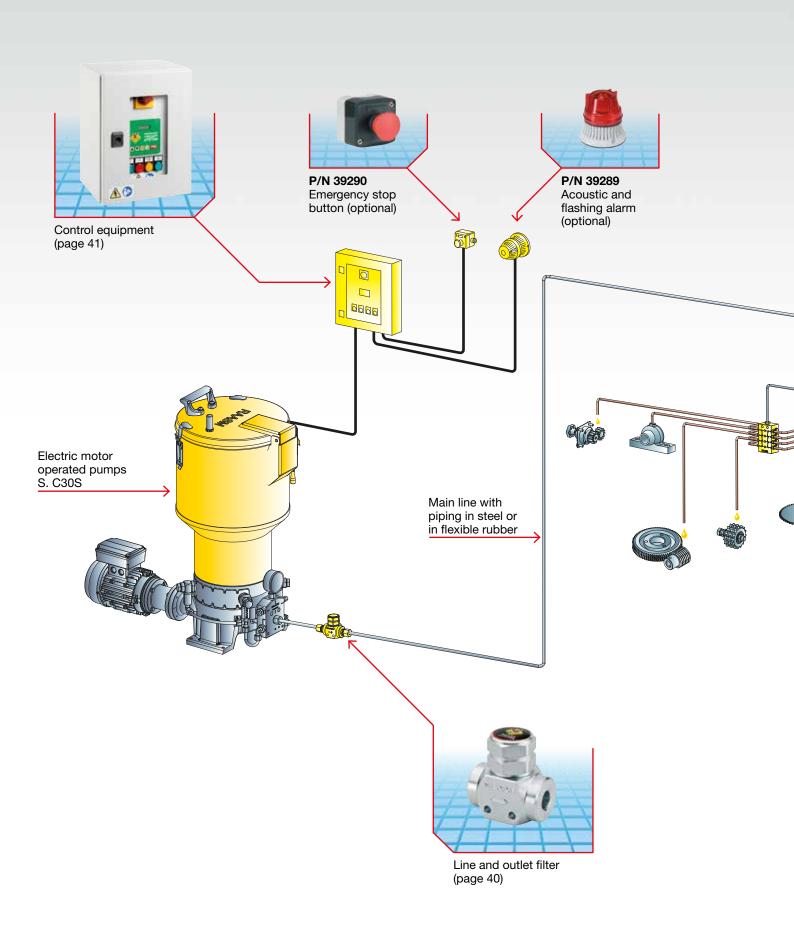


	10 li	10 litres				
	GREASE	OIL				
Packing-m³	1-0,144	1-0,144				
Net weight Kg	27,8	27,7				
Gross weight Kg 🔓	39,6	39,5				

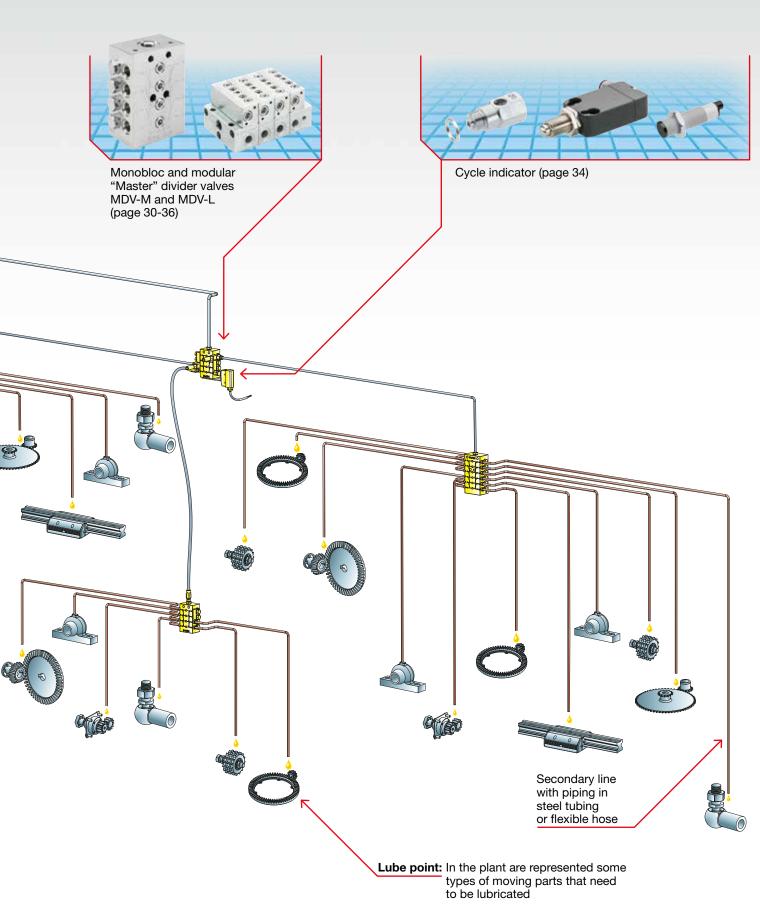
	30 litres				
	GREASE	OIL			
Packing-m ³	1-0,208	1-0,208			
Net weight Kg	33	32,8			
Gross weight Kg 🖁	45,2	45			

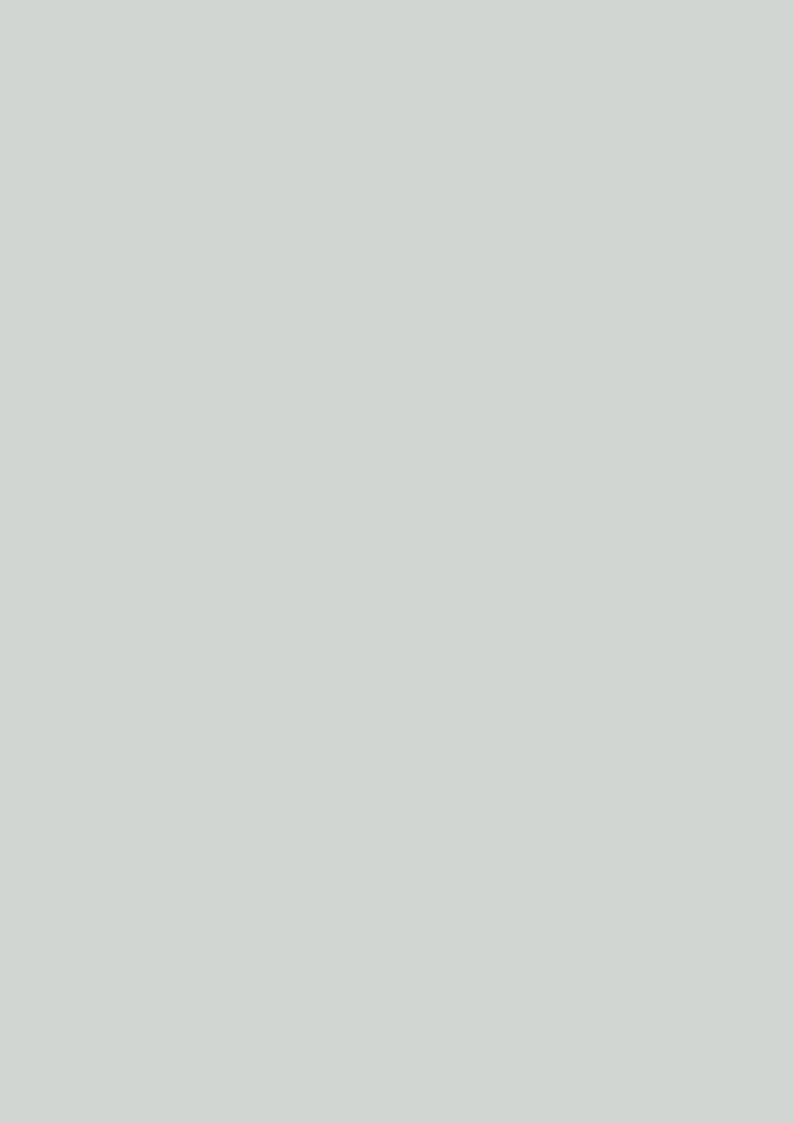


Type of lubrication system with



MOTOR-OPERATED PUMPS SERIES C30S











SERIES C30F AIR-OPERATED PUMP

10 Litres

Depending on available feed type, on system's specifics or on required dispense, an air-operated pump may be preferred to an electric one.

Various solutions are available for great versatility: with 10 liters tank or suitable for 20, 50 or 200 Kg drums, provided with drum cover and grease follower plate (if necessary).

If commercial drums are used, once the lubricant is finished the end user can replace the drum or fill it up again through the specific inlet, on request with a special kit. Oil pumps are provided with drum cover for open drums (up to 50 kg) or with ring nut for closed drums (usually from 50 kg to 200 kg). High compression ratio (50:1) and adjustable feeding pressure allow to set system's pressure to its specific requirements (from 100 to 350 bar).



DRUM

	TECHNICAL CHARACTERISTICS
Max flow rate *	1330 cm ³ /min
Max working pressure	8 bar
Pressure ratio	50:1
Air inlet connection	F 1/4" G
Lubricant outlet connection	F 3/8" G
Operating temperature	- 25 °C / + 60 °C
Lubricant	Oil > 40 cSt - Grease max NLGI 2

* Approx. delivery with grease NLGI 2 at 18°C.

PUMP OUTLET ASSEMBLY

This group includes:

- Manometer: checks system's pressure.
- Overpressure valve: allows to monitor system's pressure and discharges lubricant when system is over pressurized 100 - 350 bar.
- Inlet charging filter: to filter the lubricant during drum's filling.
- Bleeding valve: discharges system's residual air during first filling operations.

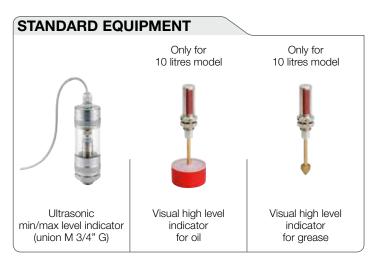


GUIDE TO CHOOSING GREASE PUMP

P/N	Tank	Drum internal ø	Pump	Drum cover	Follower plate	Pump outlet	
Grease	capacity	(mm)	(R 50:1)	Druin cover	Follower plate	assembly	
3085005	10 litres	220	62741	-	10/617	-	
3085275	20 Kg	255/300	62148	10/537	66310	3081710	
3085545	50 Kg	335/360	62174	10/533	66370	3081710	
3085680	60 Kg	360/400	62174	10/532	66400	3081710	
3085815	200 Kg	540/580	62195	10/531	66590	3081710	

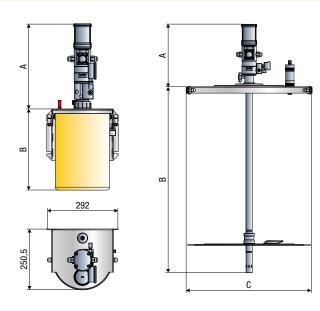
GUIDE TO CHOOSING OIL PUMP

P/N	Tank	Tank capacity Drum external Ø Pump (mm) Crum c		During cover	Drum cover Drum ring	
Oil	capacity			Drum cover	Drum ring	assembly
3085950	10 litres	240	62741	-	-	-
3086220	20 Kg	260/330	62148	10/537	-	3081710
3086490	50 - 60 Kg	340/385	62174	10/533	-	3081710
3086625	50 - 60 Kg	closed - thread 2"	62174	level 39650	38041	3081710
3086760	200 Kg	closed - thread 2"	62195	level 39650	38041	3081710





OVERALL DIMENSIONS (mm)



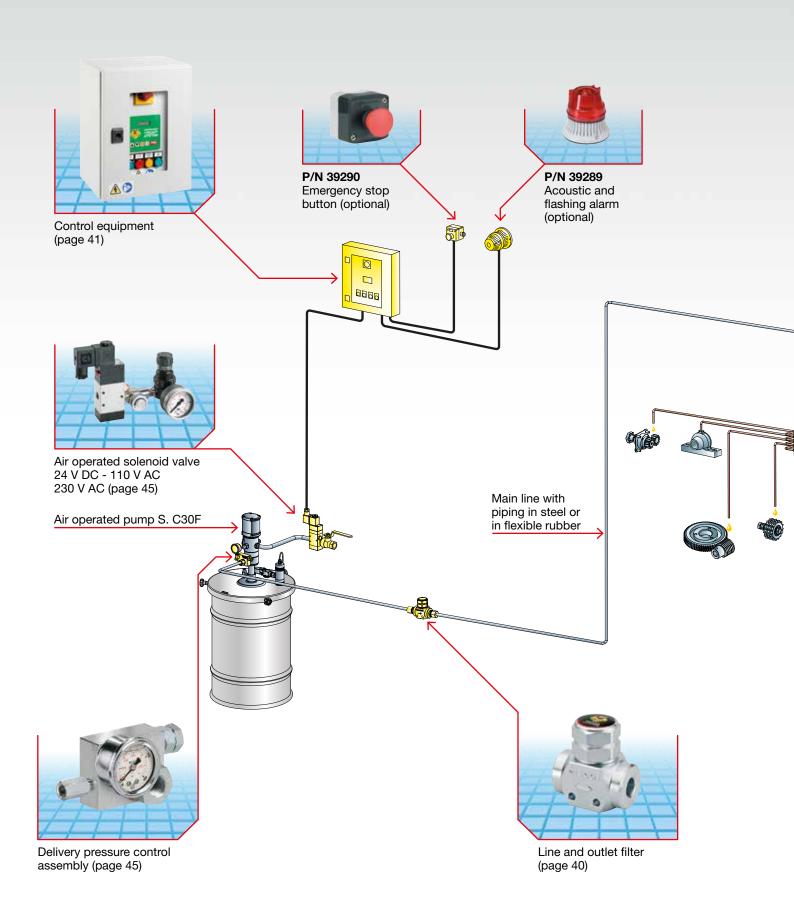
P/N Grease	Α	В	С
3085005	351	335	292
3085275	355	361	341
3085545	355	621	389
3085680	355	621	424
3085815	355	835	604

P/N Oil	Α	В	С
3085950	351	335	292
3086220	355	361	341
3086490	355	621	389
3086625	355	621	424
3086760	355	835	604

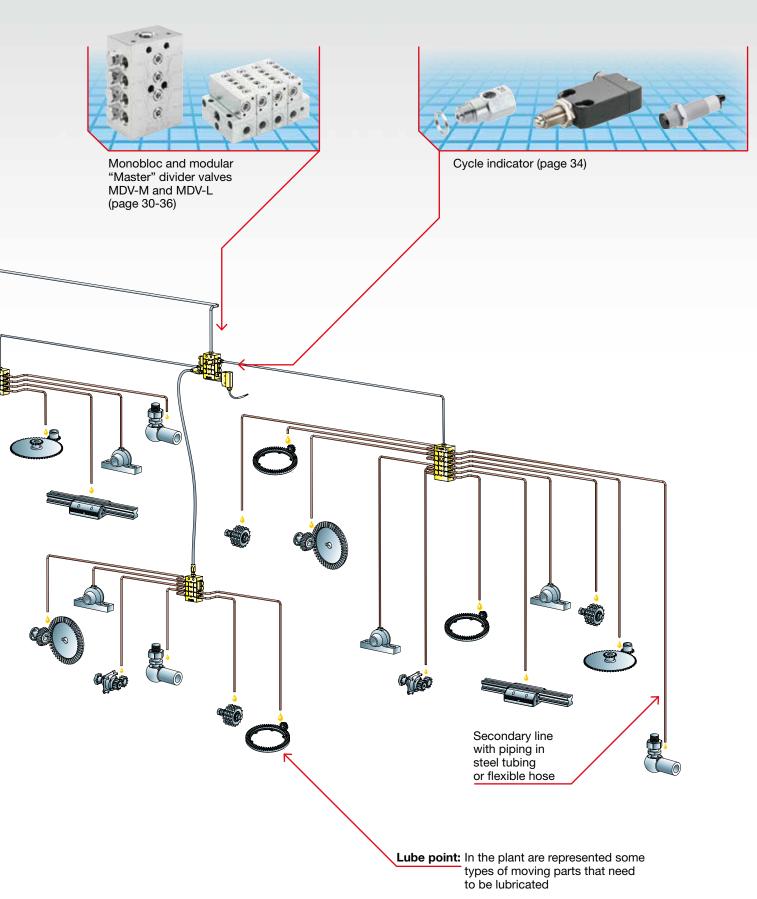
	10 litres		10 litres 20 Kg		50 Kg		60 Kg		220 Kg	
	Grease	Oil	Grease	Oil	Grease	Oil	Grease	Oil	Grease	Oil
Packing-m³	1-0,056	1-0,056	2-0,087	2-0,087	2-0,076	2-0,076	2-0,076	2-0,036	2-0,100	2-0,040
Net weight Kg	16,5	15,5	9,6	8,7	10,7	9,1	11,2	6,9	16,3	7,6
Gross weight Kg	16,8	15,8	10,2	9,3	11,3	9,7	11,8	7,5	17,1	8,4



Type of lubrication system with



AIR-OPERATED PUMP C30F





Monobloc divider valves MDV-M and MDV-L are full made of iridescent white zinc steel: lapped holes and pistons are hardened and ground steel to guarantee a seals-less working.

Actuated pump pistons dispense a set lubricant quantity each working cycle. Due to piston's action lubricant flows to a delivering step to the next one, so the lubrication action goes on. Each divider valve is placed in series with the others, therefore malfunctioning of just one causes blocking of all the others. Dispensed lubricant quantity is set by the adjusting screws of each piston. Lubricant oils with up to 40cSt viscosity and greases with up to NLGI 2 viscosity may be used.

MDV-M MDV-L MONOBLOC DIVIDER VALVES

MDV-M MDV-L



TECHNICAL CHARACTERISTICS

Min.pressure	20 bar oil - 20 bar grease
Max. pressure	150 bar oil - 250 bar grease
Delivery MDV-M	0,025 - 0,050 - 0,075 cm³/cycle
Delivery MDV-L	0,1 - 0,2 - 0,4 cm ³ /cycle
Material	Galvanized steel
Working temperature	- 25 °C / + 60 °C

Divider valves	Divider valves with cycle indicator		itor	or Alabar		Inlet	Outlet	
only	visual (A)	visual (B)	micro	proximity	Abbr.	Delivery	illet	Outlet
3141420	31414201	31414201/B	31414202	31414203	MDV-M6	6	1/8" G	5/16" UNF
3141500	31415001	31415001/B	31415002	31415003	MDV-M8	8	1/8" G	5/16" UNF
3141580	31415801	31415801/B	31415802	31415803	MDV-M10	10	1/8" G	5/16" UNF
3141660	31416601	31416601/B	31416602	31416603	MDV-M12	12	1/8" G	5/16" UNF
3141740	31417401	31417401/B	31417402	31417403	MDV-M14	14	1/8" G	5/16" UNF

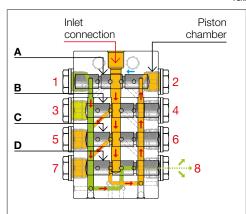
Standard dispensing plugs MDV-M 0,050 cm³/cycle

Divider valves	Div	Divider valves with cycle indicator		Delivery	Inlet	Outlet		
only	visual (A)	visual (B)	micro	proximity	Abbr.	Delivery	iiilet	Outlet
3150380	31503801	31503801/B	31503802	31503803	MDV-L6	6	1/4" G	1/8" G
3150460	31504601	31504601/B	31504602	31504603	MDV-L8	8	1/4" G	1/8" G
3150540	31505401	31505401/B	31505402	31505403	MDV-L10	10	1/4" G	1/8" G
3150620	31506201	31506201/B	31506202	31506203	MDV-L12	12	1/4" G	1/8" G
3150700	31507001	31507001/B	31507002	31507003	MDV-L14	14	1/4" G	1/8" G

Standard dispensing plugs MDV-L 0,20 cm³/cycle

HOW IT WORKS

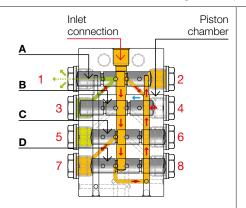
The following scheme shows how the monobloc divider valve works. In this example lubricant flows from outlets following the sequence 8 - 1 - 3 - 5 - 7.



PHASE 1

Lubricant flows from the inlet connection and fills the A piston chamber. The pressurized lubricant pushes A piston left-side. The piston pushes to outlet 8 the lubricant

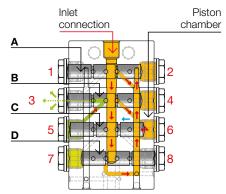
which was already in the chamber.



PHASE 2

Moving left-side piston A opens chamber B to lubricant flowing.

The pressurized lubricant pushes **B** piston leftside. The piston pushes to outlet 1 the lubricant which was already in the **B** chamber.

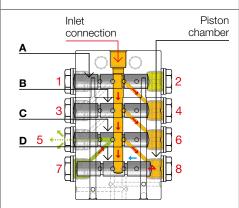


PHASE 3

Moving left-side piston **B** opens chamber **C** to lubricant flowing.

The pressurized lubricant pushes **C** piston left-side.

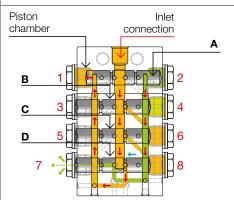
The piston pushes to outlet 3 the lubricant which was already in the C chamber.



PHASE 4

Moving left-side piston C opens chamber D to lubricant flowing. The pressurized lubricant pushes **D** piston left-side.

The piston pushes to outlet 5 the lubricant which was already in the **D** chamber.



PHASE 5

Moving left-side piston **D** opens chamber **A** to lubricant flowing.

The pressurized lubricant pushes A piston left-side. The piston pushes to outlet 7 the lubricant which was already in the A chamber.

Note: at the end of phase 5 cycle goes on to outlets 2 - 4 - 6 in the same working way. The complete cycle sequence is 8 - 1 - 3 - 5 - 7 - 2

Legend:

- Pressurized Lubricant
- In delivery lubricant
- Not under pressure lubricant



A-B-C-D Piston

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 Outlets

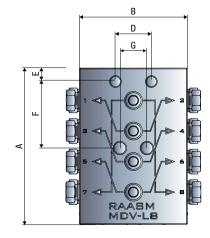
Attention:

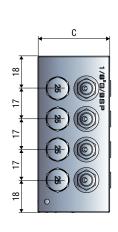
When lubricant feeding is stopped:

pistons stops
lubricant is not dispensed anymore

When lubricant feeding starts again:
- delivering cycle starts again from last interrupted

OVERALL DIMENSIONS (mm)





Abbr.	Α	В	С	D	E	F	G
MDV-M6	70	40	30	20	5,5	38	12
MDV-M8	88	40	30	20	5,5	38	12
MDV-M10	104	40	30	20	5,5	38	12
MDV-M12	122	40	30	20	5,5	38	12
MDV-M14	138	40	30	20	5,5	38	12
	_			_		_	
Abbr.	Α	В	С	D	E	F	G
Abbr. MDV-L6	A 70	B 60	C 40	D 20	E 7,5	F 37	G 15
			_			-	
MDV-L6	70	60	40	20	7,5	37	15
MDV-L6	70 88	60 60	40 40	20	7,5 7,5	37 37	15 15

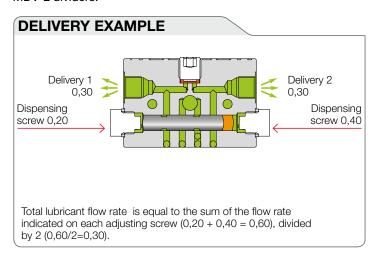


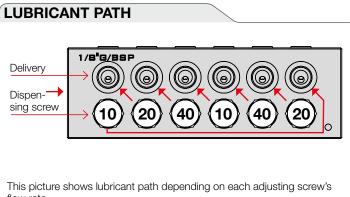
TECHNICAL CHARACTERISTICS MDV-M and MDV-L

OUTLETS AND FLOW RATES

Lubricant outlets are side placed and can work independently or bined.

Flow rate may be set by adjusting screws from 0,025 - 0,050 - 0,075 cm³/cycle for MDV-M dividers to 0,1 - 0,2 - 0,4 cm³/cycle for MDV-L dividers.



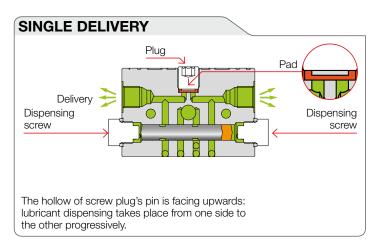


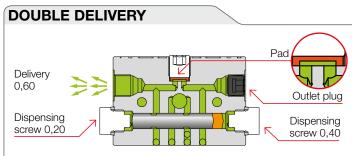
flow rate.

Dispensing sequence is represented on top side of the divider (see example in BYPASS ELEMENTS section).

SINGLE OR DOUBLE DELIVERY

Each section of the device can dispense lubricant through a single or double delivery. This is possible thanks to the screw plug's pin orientation, which is placed onto the frontal side of the divider.





The hollow of screw plug's pin is facing downwards: lubricant dispensing takes place both sides at the same time.

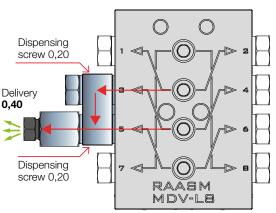
Placing the screw plug to an opposite outlet the lubricant flow rate will be the sum of each inlet quantity (0,20 + 0,40 = 0,60).

BYPASS ELEMENTS

Using a hollow screws bypass element, different flow rates may be available for each outlet (single, double, triple ecc.)

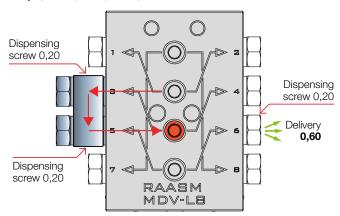
Double delivery

Delivery 0.20 + 0.20 = 0.40

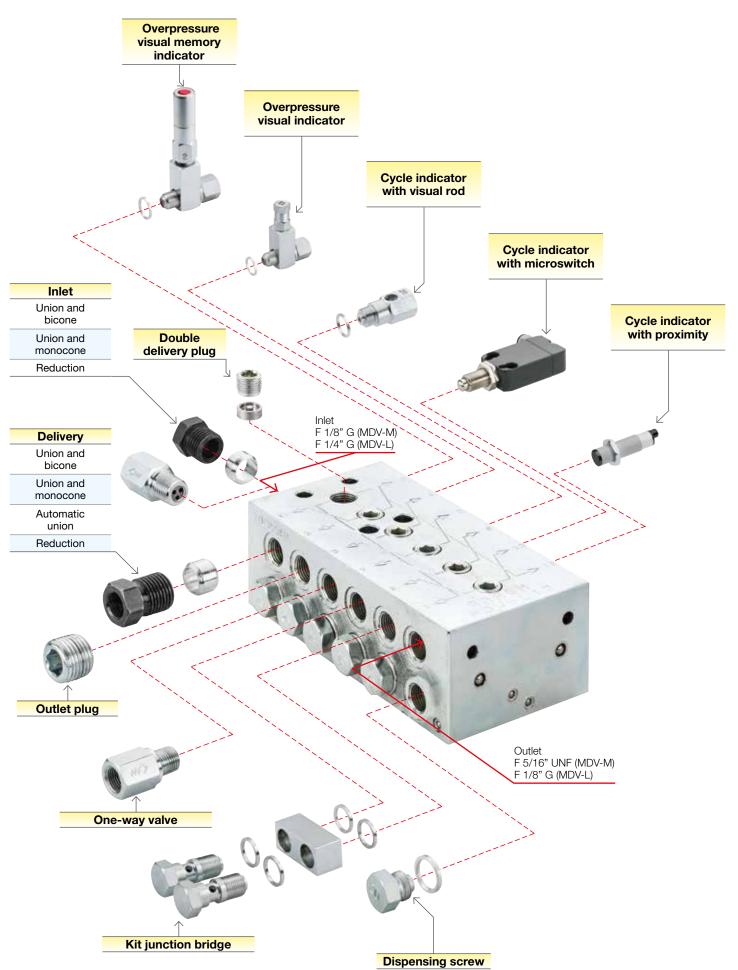


Triple delivery

Delivery 0.20 + 0.20 + 0.20 = 0.60



ACCESSORIES MDV-M and MDV-L



OVERPRESSURE VISUAL MEMORY INDICATOR

This indicator has a colored rod that raises and remains in position when there is an abnormal pressure rise in the system. This allows* to locate the discharge involved.

©	M 5/16 outlet F 5	" UNF 5/16" UNF	M 5/16 outlet F		M 1/ outlet F	'8"G - 1/8" G	M 1/ outlet F		Pressure
	Divider valves	P/N	Divider valves	P/N	Divider valves	P/N	Divider valves	P/N	
1		3081539		3081549		3081559		3081569	20 bar
		3081540] [3081550		3081560		3081570	30 bar
		3081541		3081551		3081561		3081571	50 bar
0 6	MDV-M	3081542	MDV-M	3081552	MDV-L	3081562	MDV-L	3081572	100 bar
		3081543		3081553		3081563		3081573	150 bar
		3081544] [3081554		3081564		3081574	200 bar
		3081545		3081555		3081565		3081575	250 bar

OVERPRESSURE VISUAL INDICATOR

This indicator has a rod that is raised when it reaches the set pressure and falls when the pressure falls below this value.

	M 5/16 outlet F 5	" UNF /16" UNF	M 5/16 outlet F		M 1/ outlet F	'8"G - 1/8" G	M 1/ outlet F		Pressure
0	Divider valves	P/N	Divider valves	P/N	Divider valves	P/N	Divider valves	P/N	
III.		3081579		3081586		3081593		3081532	20 bar
4	MDV-M	3081580	MDV-M	3081587	MDV-L	3081594	MDV-L	3081533	30 bar
- 1		3081581		3081588		3081595		3081534	50 bar
0		3081582		3081589		3081596		3081535	100 bar
		3081583		3081590		3081597		3081536	150 bar
		3081584		3081591		3081598		3081537	200 bar
		3081585		3081592		3081599		3081538	250 bar

Attention: overpressure indicators have to be installed on lubricant outlets which need to be checked.

CYCLE INDICATOR

Three different cycle indicator may be installed on the "Master" divider to check system status:

Visual rod indicator type A

Provided with female thread M12X1 for the connection with microswitch indicator (art. 3081480), proximity (art. 3081490) or sensors available in the market.

	Divider	Dispensing screw		
	valves	P/N (A) *	Delivery (cm³/ciclo)	
	MDV-M	3081401	0,025	
	MDV-M	3081402	0,050	
	MDV-M	3081403	0,075	
(A) —	MDV-L	3081421	0,100	
	MDV-L	3081422	0,200	
	MDV-L	3081423	0,400	

Visual rod indicator type B

Provided with a rod directly connected to divider's piston. The 1 rod comes out when the piston is working.

	Divider	Dispensing screw		
	valves	P/N (B)	Delivery (cm³/ciclo)	
	MDV-M	3081404 *	0,025	
	MDV-M	3081405	0,050	
0. 10	MDV-M	3081406	0,075	
	MDV-L	3081424	0,100	
(B)	MDV-L	3081425	0,200	
	MDV-L	3081426	0,400	

Microswitch indicator *

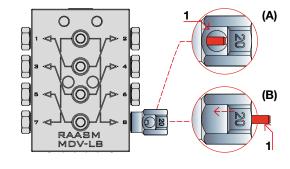
The rod of the visual indicator type A is directly connected to divider's piston and it activates a microswitch which produces an electrical signal each working cycle.

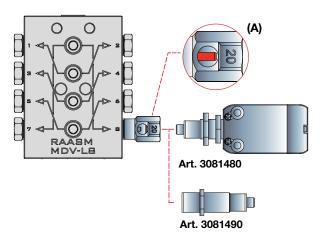
	Distril	outore	P/N
350	MDV-M	MDV-L	3081480

"Proximity" sensor indicator *

A "proximity" capacity sensor detects if the rod of the visual indicator type A connected to divider's piston is working and it produces an electrical signal each working cycle.

10	Distri	butore	P/N
	MDV-M	MDV-L	3081490





Attention:
The cycle indicators are installed in the standard version in correspondence of the pumping piston placed near the largest delivery of the distributor (bottom right). For non-standard installation please call the technical department.

MICROSWITCH CABLE

1	100	D.	
lik.		30	
-	-		_

Divider valves	P/N	Description	
		With connector cable M12 - 5 poles - 5 m	
		With connector cable M12 - 5 poles - 10 m	

DISPENSING SCREW



	Divider valves	P/N	Delivery (cm³/cycle)	Union	Dispensing screw Abbr.
		3081650	0,025	M7 x 1	25
	MDV-M	3081651	0,050	M7 x 1	50
		3081652	0,075	M7 x 1	75
		3081600	0,100	M10 x 1	10
	MDV-L	3081601	0,200	M10 x 1	20
Ī		3081602	0,400	M10 x 1	40

ONE-WAY VALVE



Divider valves	P/N For delivery		For inlet
Divider valves	P/N	Union	Union
	3200081	M 5/16" UNF - outlet F 5/16" UNF	-
MDV-M	3200082	M 5/16" UNF - outlet F 1/8" G	-
INIDA-INI	3200085	-	M 1/8" G - inlet F 1/8" G
	3200087	-	M 1/8" G - inlet F 1/4" G
	3200083	M 1/8" G - outlet F 1/8" G	-
MDV-L	3200084	M 1/8" G - outlet F 1/4" G	-
	3200086	-	M 1/4" G - inlet F 1/4" G

BYPASS ELEMENT KIT (without outlet)

1	0
- E	500 VA
1	
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	Divider valves	P/N	Union		
	MDV-M	3080050	M 5/16" UNF		
	MDV-L	3080070	M 1/8" G		

BYPASS ELEMENT KIT (with outlet)



Divider valves P/N		Union
MDV-M	3080051	M 5/16" UNF - outlet F 5/16" UNF
IVIDV-IVI	3080052	M 5/16" UNF - outlet F 1/8" G
MDV	3080071	M 1/8" G - outlet F 1/8" G
MDV-L	3080072	M 1/8" G - outlet F 1/4" G

OUTLET PLUG

		_			
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Divider valves	P/N	Union
MDV-M	3200091	M 5/16" UNF
MDV-L	3200095	M 1/8" G

CLOSED HOLLOW SCREW

V	400	- 6	110	3	
18	- 101	-	100		
					_

Divider valves	P/N (without one-way valve)	P/N (with one-way valve)	Union
MDV-M	3080055	3080054	M 5/16" UNF
MDV-L	3080075	3080074	M 1/8" G

OPEN HOLLOW SCREW



	Divider valves	P/N (without one-way valve)	P/N (with one-way valve)	Union
	MDV-M	3080058	3080056	M 5/16" UNF - outlet F 5/16" UNF
-	MDV-M	3080059	3080057	M 5/16" UNF - outlet F 1/8" G
14	MDV-L	3080078	3080076	M 1/8" G - outlet F 1/8" G
	MDV-L	3080079	3080077	M 1/8" G - outlet F 1/4" G

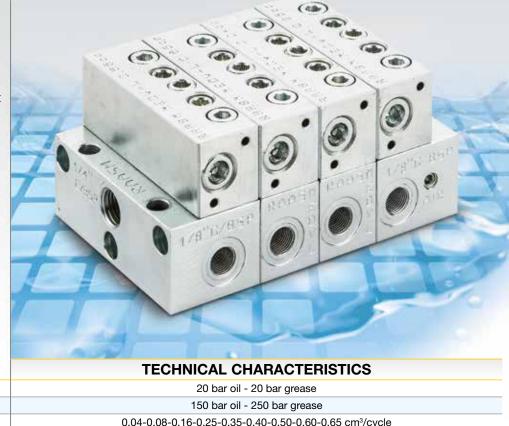


MEDV-LMODULAR DIVIDER VALVE

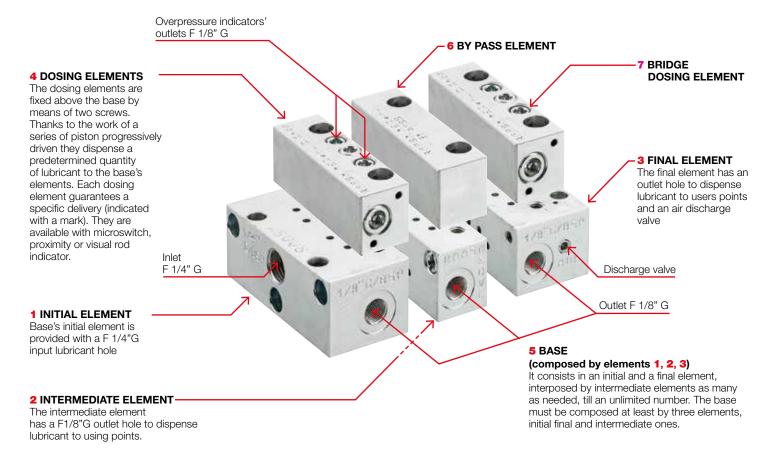
Modular Divider Valve MEDV-L is full made of iridescent white zinc steel: lapped holes and piston are hardened and ground steel to guarantee a seals-less working.

It consists of two main parts:

- a basement where inlets and outlet points are fixed on
- dosing elements which dose a predetermined amount of lubricant to the base



TECHNICAL CHARACTERISTICS		
Max flow rate	20 bar oil - 20 bar grease	
Max working pressure	150 bar oil - 250 bar grease	
Delivery dosing elements MEDV-L	0,04-0,08-0,16-0,25-0,35-0,40-0,50-0,60-0,65 cm³/cycle	
Material	Galvanized steel	
Operating temperature	- 25 °C / + 60 °C	



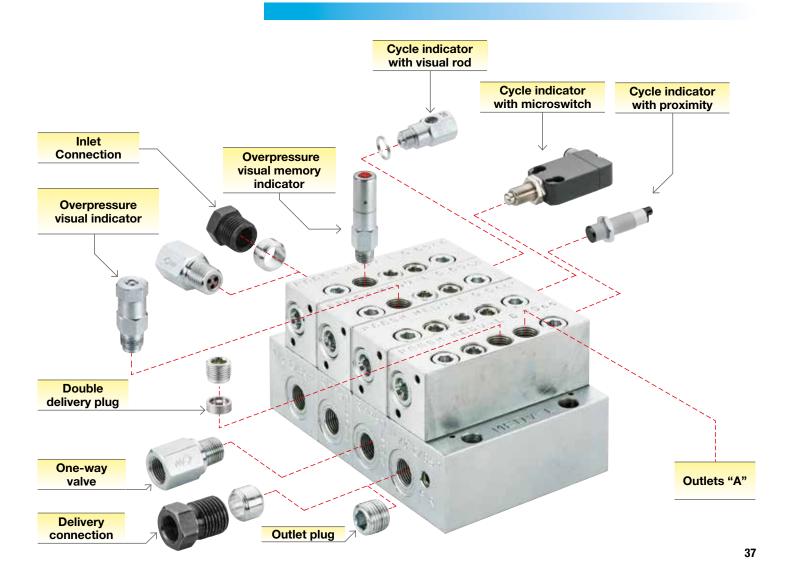
ı	Base's element type	P/N MEDV-L	Inlet	Outlet
1	Initial element	3200010	F 1/4" G	F 1/8" G
2	Intermediate element	3200012	-	F 1/8" G
3	Final element	3200013	-	F 1/8" G

DOSING'S element type	P/N MEDV-L
6 Bypass element	3200800

No.	5 Assembly base MEDV-L	No.	5 Assembly base MEDV-L	No.	5 Assembly base MEDV-L
elements	P/N	elements	P/N	elements	P/N
3	3200560	9	3200566	15	3200572
4	3200561	10	3200567	16	3200573
5	3200562	11	3200568	17	3200574
6	3200563	12	3200569	18	3200575
7	3200564	13	3200570	19	3200576
8	3200565	14	3200571	20	3200577

	4 Metering element MEDV-L				7 Bridge dosing element			
Delivery	Only	Cycle indicator		Delivery	l off side	Dialet side	Right and	
(cm³/cycle)	elements	Visual	Micro	Proximity	(cm³/cycle)	Left side	Right side	left side
0,04	3200600	3200601	3200602	3200603	0,04	3200840	3200860	3200850
0,08	3200610	3200611	3200612	3200613	0,08	3200841	3200861	3200851
0,16	3200620	3200621	3200622	3200623	0,16	3200842	3200862	3200852
0,25	3200630	3200631	3200632	3200633	0,25	3200843	3200863	3200853
0,35	3200640	3200641	3200642	3200643	0,35	3200844	3200864	3200854
0,40	3200650	3200651	3200652	3200653	0,40	3200845	3200865	3200855
0,50	3200660	3200661	3200662	3200663	0,50	3200846	3200866	3200856
0,60	3200670	3200671	3200672	3200673	0,60	3200847	3200867	3200857
0,65	3200680	3200681	3200682	3200683	0,65	3200848	3200868	3200858

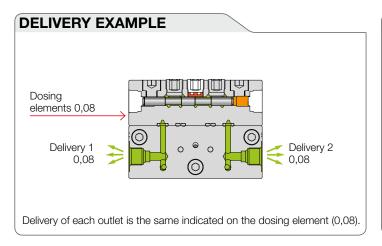
ACCESSORIES MEDV-L

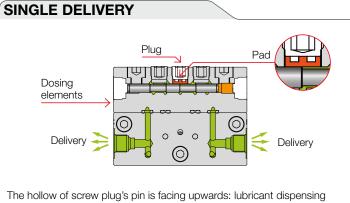


OUTLETS AND FLOW RATES

Lubricant outlets are side placed and can work independently or bined. Flow rate may be set by dosing elements, 0,04 - 0,08 - 0,16 - 0,25 - 0,35 -0,40 - 0,50 -0,60 - 0,65 cm³/cycle.

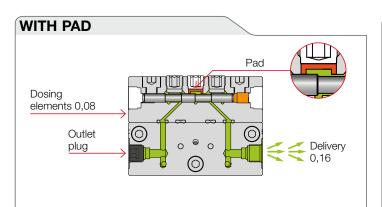
Each section of the divider can dispense lubricant by a single or double outlet, thanks to the screw plug's pin orientation, placed onto the frontal side of the divider.





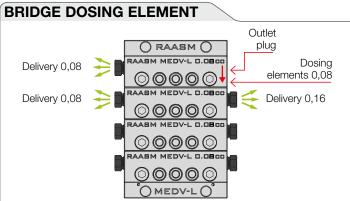
takes place from one side to the other progressively.

DOUBLE DELIVERY

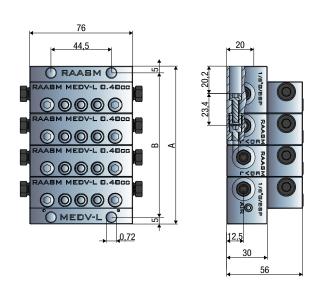


The hollow of screw plug's pin is facing downwards: lubricant dispensing takes place both sides at the same time.

Placing the screw plug to an opposite outlet the lubricant flow rate will be the sum of each inlet quantity (0,20+0,40=0,60).



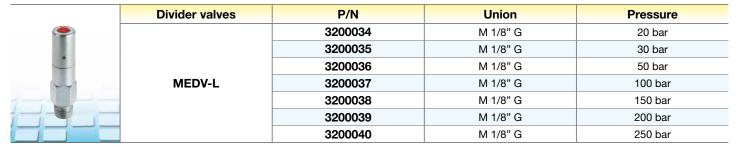
Using a bridge dosing element (right side, left side or both) and a tap on the outlet, a double delivery quantity is available for the next outlet (0.08 + 0.08 = 0.16).



No. elements	ME	DV-L
No. elements	A (mm)	B (mm)
3	93,0	83,0
4	116,4	106,4
5	139,8	129,8
6	163,2	153,2
7	186,6	176,6
8	210,0	200,0
9	233,4	223,4
10	256,8	246,8
11	280,2	270,2
12	303,6	293,6
13	327,0	317,0
14	350,4	340,4
15	373,8	363,8
16	397,2	387,2
17	420,6	410,6
18	444,0	434,0
19	467,4	457,4
20	490,8	480,8

OVERPRESSURE VISUAL INDICATOR

This indicator has a colored rod which comes out in case of anomalous pressure increase into the system. The involved outlet is so identifiable.



OVERPRESSURE INDICATOR WITH DISCHARGE VALVE

This indicator has a discharging valve which lets the lubricant flow out in case of anomalous pressure increase into the system.

	Divider valves	P/N	Union	Pressure
		3200014	M 1/8" G	20 bar
		3200015	M 1/8" G	30 bar
		3200016	M 1/8" G	50 bar
	MEDV-L	3200017	M 1/8" G	100 bar
		3200018	M 1/8" G	150 bar
		3200019	M 1/8" G	200 bar
	1	3200020	M 1/8" G	250 bar

Attention: overpressure indicators have to be installed on the top face of the dosing element.

CYCLE INDICATOR

Three different cycle indicator may be installed on the "Master" divider to check system status:

Visual rod indicator type A

Provided with female thread M12X1 for the connection with microswitch indicator (art. 3081480), proximity (art. 3081490) or sensors available in the market.

Attention: to order the metering element with visual indicator type A refer to the metering elements list on page 37.

Microswitch indicator *

The rod of the visual indicator type A is directly connected to divider's piston and it activates a microswitch which produces an electrical signal each working cycle.

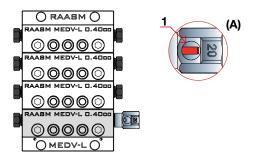
	Divide	valves	P/N
350	MDV-M	MDV-L	3081480

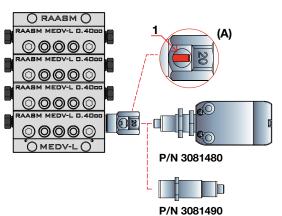
"Proximity" sensor indicator *

A "proximity" capacity sensor detects if the rod of the visual indicator type A connected to divider's piston is working and it produces an electrical signal each working cycle.

de	Divide	valves	P/N
	MDV-M	MDV-L	3081490

^{*} Cable for microswitch and "poximity" non included (sold separately)





OUTLET PLUG

Divider valves	P/N	Union
MDV-L	3200095	M 1/8" G

ONE-WAY VALVE

	Divider valves	P/N	Delivery union	Inlet union
		3200083	M 1/8" G - outlet F 1/8" G	-
	MEDV-L	3200084	M 1/8" G - outlet F 1/4" G	-
		3200086	-	M 1/4" G - outlet F 1/4" G

PIASH

FILTER

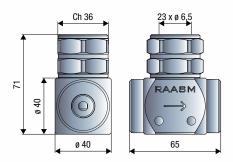
Filters for system's inlets and charging operations guarantee the good maintenance of the system. Also, they guarantee dispensed grease is clean and without any residuals. Their sturdy steel structure ensures a sure sealing and allows their use in centralized lubrication systems where high operating pressure (500 bar). Working with lubricating oils and greases, they are placed on pumping unit outlet and along the pipeline.



	TECHNICAL CHARACTERISTICS
Typology	Oil and Grease
Max working pressure	500 bar
Filtration degree	30 - 60 - 100 - 150 - 300 μm
Lubricant inlet connection	F 3/8"G - F 1/2" G
Lubricant outlet connection	F 3/8"G - F 1/2" G
Working temperature	-25 °C / +60 °C
Lubricant	Grease max NLGI 2 - Oil > 40 cSt

DELIVERY FILLING FILTER Filter holder plug Filter spring Filter cartridge 30-60-100 150-300 μm Outlet

Lubricant	P/N	Connection	Filtration degree (µm)
	2080900		30
	2080930	F 3/8" G	60
	2080950		100
	2080800	F 3/8" G	150
Oil and	2080801		300
Grease	2080901	F 1/2" G	30
G.: G.: G	2080931		60
	2080951		100
	2080850	F 1/2" G	150
	2080851		300





CONTROL **EQUIPMENT**

200÷500 V AC 50/60 Hz

System control board

The control equipment is dedicated to the management and control of centralized single-line lubrication. The dedicated card installed inside controls the inlet and outlet signals of the whole system.



		TECHNICAL CHARACTERISTICS								
P/N	2170031	2170033	2170036	2170037	2170035					
Proper for pump	C30S - C30P	C30F - C30B15 C30B18	C30S - C30P	C30F - C30B15 C30B18	C30S - C30P					
Voltage	200÷500 V AC	200÷500 V AC	200÷500 V AC	200÷500 V AC	200÷500 V AC					
Power consumed *	1500 W max	1500 W max	1500 W max	1500 W max	1500 W max					
Button start /stop	NO	NO	YES	YES	YES					
Light allarm	NO	NO	YES	YES	YES					
Light filling	NO	NO	YES	YES	NO					
Tank full light	NO	NO	YES	YES	NO					
Trasparent window	NO	NO	YES	YES	YES					
Filling control	NO	YES	YES	YES	NO					
Protection rating	IP54	IP54	IP55	IP55	IP55					
Working temperature	- 25°C / +60 °C	- 25°C / +60 °C	- 25°C / +60 °C	- 25°C / +60 °C	- 25°C / +60 °C					

^{*} Depends on the type of motor applied to the pump.

The card is installed in a metal box provided with or without transparent window and communicates with a display integrated into an easy to use flexible membrane keyboard. Within the enclosure all the components (connections, remote control switches, fuses, etc.) are easy accesable.

- Display integrated into the flexible membrane keyboard
- Simple user interface based on a menu, easy to start configure and programme
- Rugged and waterproof cover, meets the requirements
- Ability to customize the lubrication intervals, pause and the cycle count
- Programming of the operating parameters protected by password
- Call system filling tank (on request) with high level light indicator.



INPUT AND OUTPUT SIGNALS

Input signals

Start/Stop remote

Cycle-counter/Pressure switch L1

Cycle-counter/Pressure switch L2

Low level tank

Safety pressure switch maximum pressure

Thermal protection three-phase motors

Remote stand by cycle

Micro-inverter L1

Micro-inverter L2

Remote emergency button

Output signals

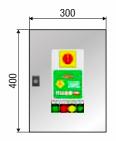
Power motor pump

Power - motor inverter - pressure discharge valve

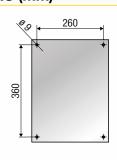
- solenoid inverter 1 Power relay solenoid inverter 2

Remote operation lamp

Remote warning lamp







Packing-m³	8	1-0,03
Net weight Kg	e	15,2-15,4
Gross weight Kg	ů	15,5-15,7



CONTROL EQUIPMENT

This unit of management and control is composed of an electrical panel in polycarbonate in reduced dimensions.

Inside is connected an electronic card that communicates with a display integrated in the practice flexible membrane keypad located on the front of the unit.



	I E O I II II O A E O I I	AIIAOIEIIIOIIOO
P/N	1670035	1670036
Proper for pump	C30F - C30B15 - C30B18	C30F
Voltage	12/24 V DC	120-230 V AC 60/50 Hz
Power consumed	200 W max	600 W max
Inlet	9	9
Outlet	5	5
Protection rating	IP64	IP64
Working temperature	- 25°C / +60 °C	- 25°C / +60 °C

The dedicated card installed inside controls the inlet and outlet signals of the whole system.

The hardware part is composed of the removable terminal blocks located inside of the unit to facilitate removal of the card in case of maintenance

- Display integrated into the flexible membrane keyboard
- Simple user interface based on a menu, easy to start, and use configure and programme
- Rugged and waterproof cover, meets the requirements of IP64
- Ability to customize the lubrication intervals, pause and the cycle count
- Programming of the operating parameters protected by password



INPUT AND OUTPUT SIGNALS

Input signals

Start/Stop remote

Cycle-counter/Pressure switch L1
Cycle-counter/Pressure switch L2

Low level tank

Safety pressure switch maximum pressure

Thermal protection

three-phase motors

Remote stand by cycle

Micro-inverter L1

Micro-inverter L2

Output signals

Power motor pump

Power
- pressure discharge valve
- solenoid inverter 1

Power relay solenoid inverter 2

Remote operation lamp

Remote warning lamp

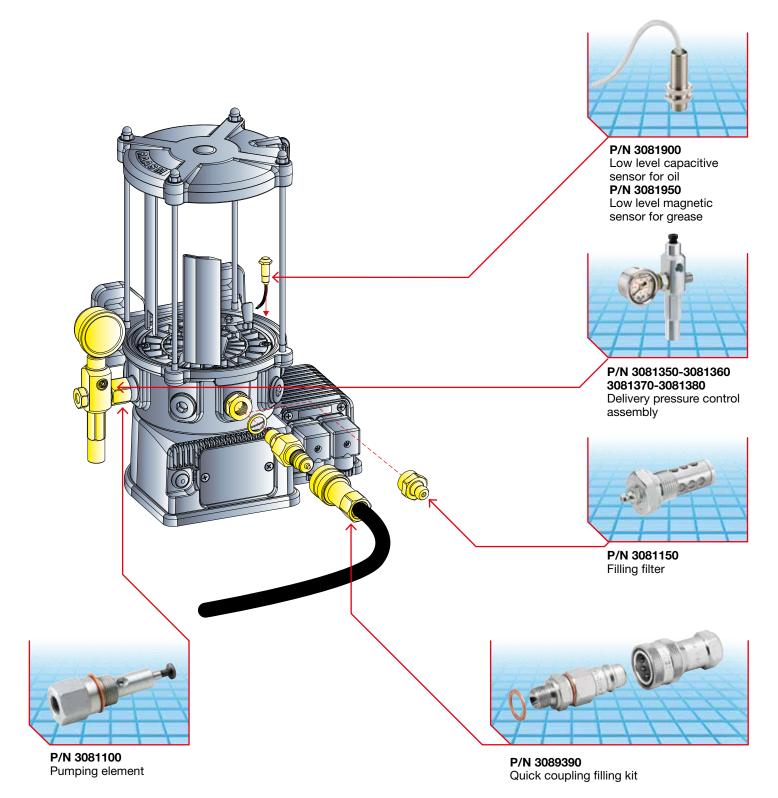




Packing-m³	1-0,005
Net weight Kg	1,2-1,4
Gross weight Kg 🔓	1,1-1,3



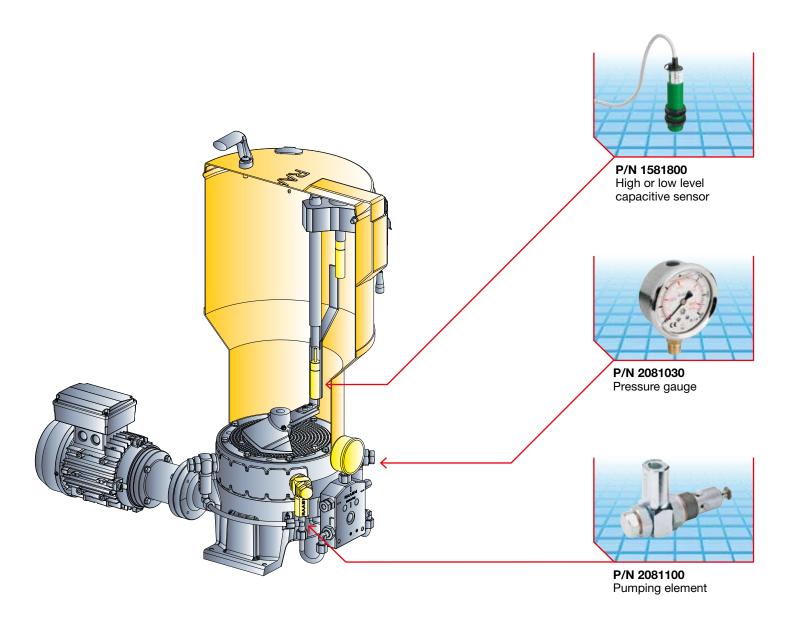
ACCESSORIES PUMP SERIES C30B15 - C30B18



P/N	Description	Connection	Pressure
3081350	Delivery pressure control assembly	on pumping element M 1/4"G	100 - 300 bar
3081360	Delivery pressure control and 2 pumping element kits	-	100 - 300 bar
3081370	Delivery pressure control and 3 pumping element kits	-	100 - 300 bar
3081380	Delivery pressure control and 4 pumping element kits	-	100 - 300 bar
3081150	Filling filter (for C15B15 - C15B18)	M 20 x 1,5	150 μm
3081100	Pumping element ø 6,5 mm	M 20 x 1,5	-
3089390	Quick coupling filling kit	M 1/4"	-



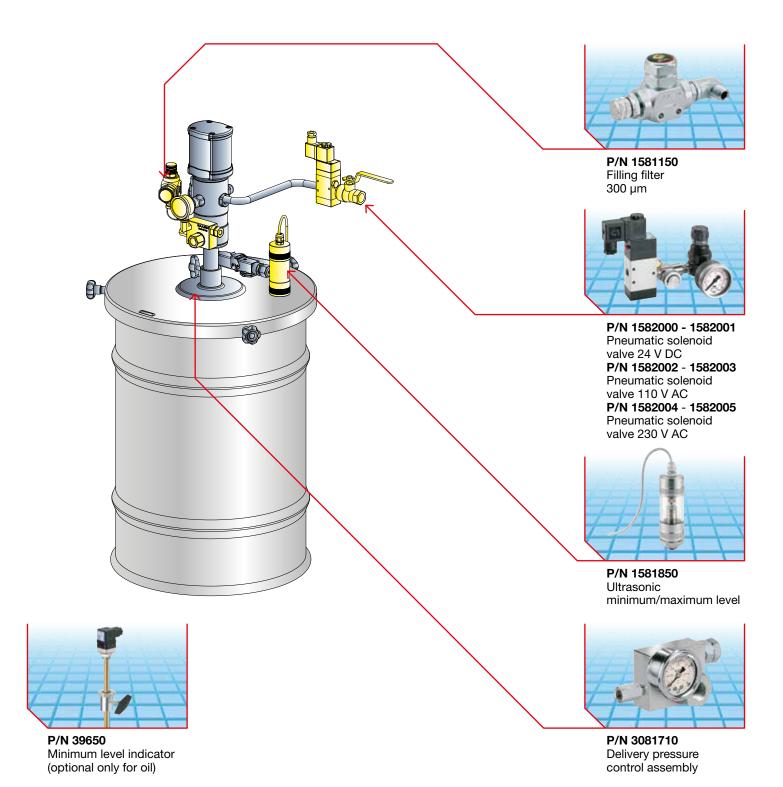
ACCESSORIES PUMP SERIES C30S



P/N	Description	Connection	Pressure		
1581800	Level minimum and maximum capacitive	M 18 X 1	-		
2081030	Pressure gauge ø 63 mm 600 bar	M 1/4" G	600 bar		
2081100	Pumping element ø 12 mm (for C30S)	M 27 x 1,5	1 cm³/cycles		



ACCESSORIES PUMP SERIES C30F



P/N	Description	Connection	Pressure		
1581150	Filling filter 300 µm	M 3/8" G	-		
1582000	Pneumatic solenoid valve 24 V DC	F 1/4"G x F 1/4"G	2,5-8 bar		
1582001	Pneumatic solenoid valve 24 V DC	F 1/2"G x F 1/2"G	2,5-8 bar		
1582002	Pneumatic solenoid valve 110 V AC	F 1/4"G x F 1/4"G	2,5-8 bar		
1582003	Pneumatic solenoid valve 110 V AC	F 1/2"G x F 1/2"G	2,5-8 bar		

P/N	Description	Connection	Pressure
1582004	Pneumatic solenoid valve 230 V AC	F 1/4"G x F 1/4"G	2,5-8 bar
1582005	Pneumatic solenoid valve 230 V AC	F 1/2"G x F 1/2"G	2,5-8 bar
1581850	Ultrasonic minimum/ maximum level	wole on drum cover ø 31 mm	-
3081710	Delivery pressure control assembly	F 3/8" G on pump's body	100 - 350 bar
39650	Minimum level indicator (optional only for oil)	Oil	-



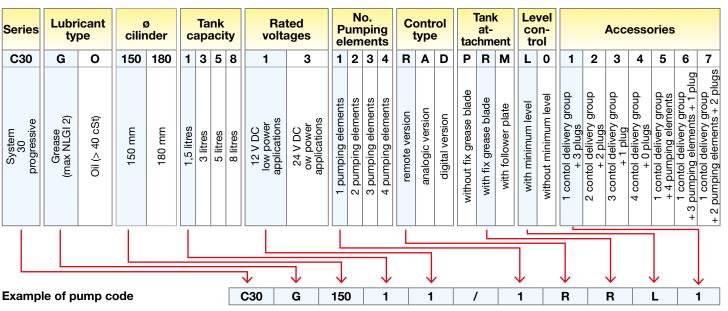
Customized pumps selection guide

Should the specific requirements be different from the ones of standard pumps, follow this model to customize your own pump.

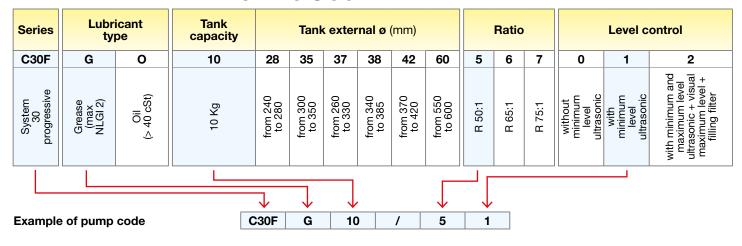
SERIES C30S

Series	Lubri ty _l	icant pe		Tank capacity		Poles		No. Pumping elements		Ratio		Level control		
C30S	G	0	10	30	70	4	6	2	4	3	7	0	L	Y
System 30 progressive	Grease (max NLGI 2)	Oil (> 40 cSt)	10 litres	30 litres	70 litres	4 poles	selod 9	2 pumping elements	4 pumping elements	R 35:1	R 70:1	without minimum level	with minimum level	with minimum and maximum level
						<u> </u>	<u> </u>	,			<u> </u>			
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Example	of pump	code		C	2308	G -	10 (6 /	2	7	L			

SERIES C30B15 - C30B18



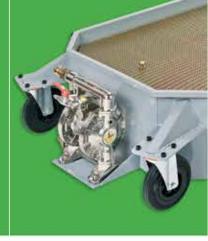
SERIES C30F













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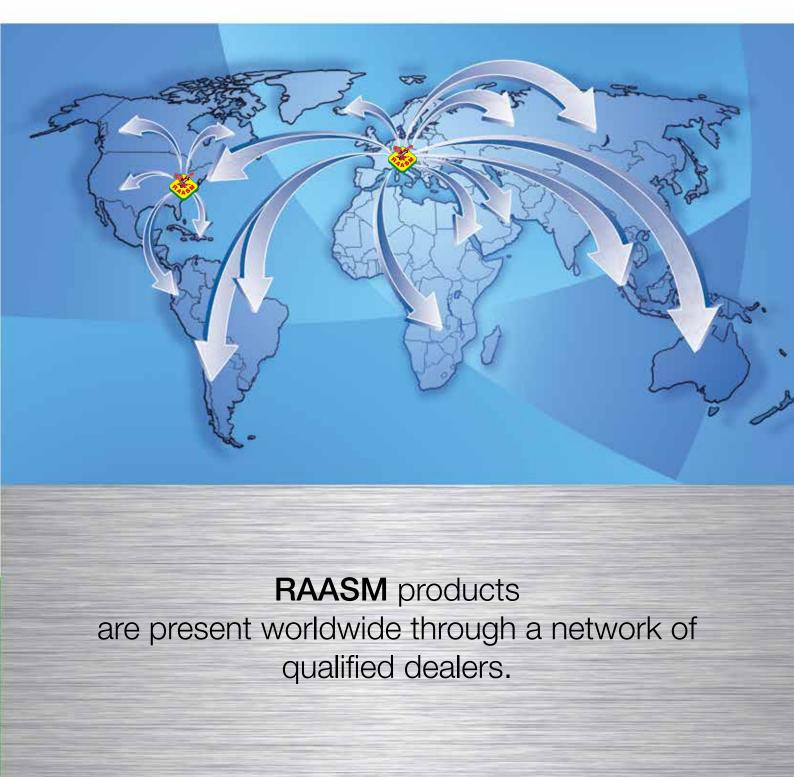












GENERAL SALES CONDITIONS

FOR FOREIGN MARKETS



The following general sales conditions regulate the sale of goods and services by the company RAASM S.p.A. for customers residing outside the territory of the Italian State.

P/N 1 GOODS DELIVERY TERMS

The goods are delivered ex works RAASM S.p.A. The subsequent transport/shipment must occur by, in the name and at the expense of the purchasing customer, even by means of a carrier appointed and designated by the same. All risks arising from loading, subsequent custody and transport are borne entirely by the purchasing customer.

P/N 2 MINIMUM ORDERS

Each order cannot be for less than € 1,500.00, net of fees, taxes, customs duties, discounts and rebates and any other charges not included in the price of the goods. If, at the option of RAASM S.p.A., orders for lower amounts are accepted, an extra charge of € 155,00 shall be applied for order management administrative expenses.

P/N 3 ACCESSORIES

All the accessories given in the price list (plugs, oil bar taps, oil guns, grease guns, probes, protection caps, clutches, swivelling supports, etc.) are supplied exclusively for fitting to or combining with the items RAASM S.p.A. produces

P/N 4 COMPLAINTS

Any defects immediately noticed after a brief inspection of the goods (damage, shortages or different product from that ordered) must be notified in writing to our company within 8 (eight) days of receipt the goods. Any defects in the product noticeable only during its use must be notified in writing to RAASM S.p.A. within 8 (eight) days of being detected. Any returns of goods must be authorized in advance by RAASM S.p.A. and freight charges are at the customer's expenses.

P/N 5 DELIVERY TIMES/TERMS

Delivery times and dates are only approximate and are subject to change. Any delays in delivery do not entitle the customer to cancel the order or claim compensation for damages caused by delay of delivery. Delivery times for urgent orders must be agreed directly with RAASM S.p.A. RAASM S.p.A. has the right not to carry out the order and/or totally or partially carry it out, without this giving rise to reimbursement or claims for compensation for damage.

P/N 6 PACKS AND PACKAGING

Packaging costs are included in the price, except for special packing, which shall be charged at cost.

P/N 7 PRICES

The current Price list cancels and replaces the previous price list. In the event of changes to our price list and/or individual items, the goods shall be forwarded at the price in force on the day of the order confirmation. The price list and/or the prices of individual items can be changed even without notice, according to the changes in market conditions or technical innovations/ modifications made to the product. The prices are understood to be ex works RAASM S.p.A.

P/N 8 PAYMENTS

Payments must be made exclusively to RAASM S.p.A. at the agreed conditions. Under no circumstances will deductions or roundings be accepted. In case of late payment with respect to the agreed conditions, RAASM S.p.A. reserves the right to charge interest at the current rate, effective from the day after that agreed for payment, plus any additional expenses. Discounts conditional on the payment term and already credited shall be recharged.

P/N 9 WARRANTY

RAASM S.p.A. provides each product with the communication of particular instructions for the installation, use and maintenance requirements and the need to carry out possible checks on the product. All the technical information and data mentioned in the catalogue and in the price-list in force are not binding and can be changed without prior notice for the purpose of improving the quality of the products. All products manufactured by RAASM S.p.A. are guaranteed for a period of 5 (five) years from the date of delivery to the first user. The user must keep and show the sales invoice - or an equivalent document - together with the item's serial number in order to make a claim under the RAASM S.p.A. guarantee. The 5 (five) year guarantee does not apply to components which are subject to normal wear and tear (such as gaskets, diaphragms, O-rings, hoses, etc.), electronic components and items that are sold but not manufactured by RAASM S.p.A. (marked with a red asterisk in the current product catalogue) which are guaranteed for 1 (one) year from the date of delivery to the first user.

- 1 (one) year warranty is valid also for the following products:
- digital litre counters and FCS system;
- cable reels;
- electric, pneumatic or hydraulic motor supplied with our industrial hose reels S. 600 and 700.

Incorrect installation, use or maintenance of the product shall void the warranty. Upon written notice, the articles must be returned free to our Factory for checking and acceptance. In any case, the guarantee expires in the 10th year from the date of manufacture (indicated by the serial number), if the stated expiry takes place before the expiration terms indicated above (1 or 5 years from delivery to the first user).

The manufacturer declines any responsibility for possible inaccuracies contained in this catalogue, due to printing or transcription errors. The manufacturer reserves the right to make any changes or improvements of a functional, technical or aesthetic nature without prior notice.

The publication and the reprint of this price list is forbidden.



P/N 10 RESPONSIBILITY

RAASM S.p.A. is exempt from any responsibility and liability for accidents that may occur to persons and property, as a result of or during the use of the equipment, due to or depending on the same whenever the products have been damaged during transport, tampered with or modified, or improperly used, or stored, installed, protected and preserved without complying with the instructions of RAASM S.p.A. as given in the installation, use and maintenance instruction manuals for each product. RAASM S.p.A. is liable for the value for the supplied product and cannot be held responsible in any way for other possible costs or additional costs that the customer may bear.

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In accordance with article 13 of Italian Legislative Decree 196/2003 - Personal Data Protection Code - you are hereby advised that the processing of the personal data, provided with the purchase of goods or services and/or the supply of goods or services is solely for the purposes of carrying out the contract-based obligations and to comply with the specific requests from customers/ suppliers, as well as adhering to legislative obligations, in particular accounting and tax obligations or to respect orders issued by public authorities or to exercise a right in court. The data shall also be used for commercial statistics for corporate use and to obtain commercial information on our products and services if expressly authorised by the applicant. The processing of data shall be done using hard-copy and computerised procedures, in the manner and within the limits necessary to achieve the aforementioned purposes.

Data may be communicated and processed by other companies in the Group for the same specified purposes, and may be made known to employees of our company, consultants and other suppliers, always and exclusively within the limits of the aforementioned purposes. The provision of data is mandatory for the correct execution of the contract and pre-contract based obligations, and failure to do so could result in it being impossible to fully comply with contractual obligations, and make it impossible to provide updates on the new products and services offered by our company. Data shall be processed for the duration of the contract relationship in place and subsequently to fulfil any legal formalities.

P/N 14 RIGHTS OF DATA SUBJECTS

The information is aimed at defining the limits and methods for the processing of data, based on which individual customers and/or suppliers may freely authorise the collection and subsequent use of data. Data subjects are entitled to the rights pursuant to article 7 of the aforementioned Code and in particular, the right to access their personal data, ask for the amendment, update and cancellation thereof, if incomplete, incorrect or collected in violation of the law, and may object to the processing for legitimate reasons, addressing requests in this regard to RASSM S.p.A. Pursuant to the same article the data subject also has the right to request the complete and updated list of the Data Supervisors, and to ask for the cancellation, transformation into anonymous form or blocking of data processed in violation of the law, and to oppose in any case, for legitimate reasons, the processing thereof.

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Company with an ISO 9001:2015 certified quality management system

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