SYSTEM LUBRICATION DUAL LINE



CATALOG No. 803/20



ADVANCED FLUID MANAGEMENT SOLUTIONS







ADVANCED FLUID MANAGEMENT SOLUTIONS









the human side of Quality 🥿

ma

RAASM

manna

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

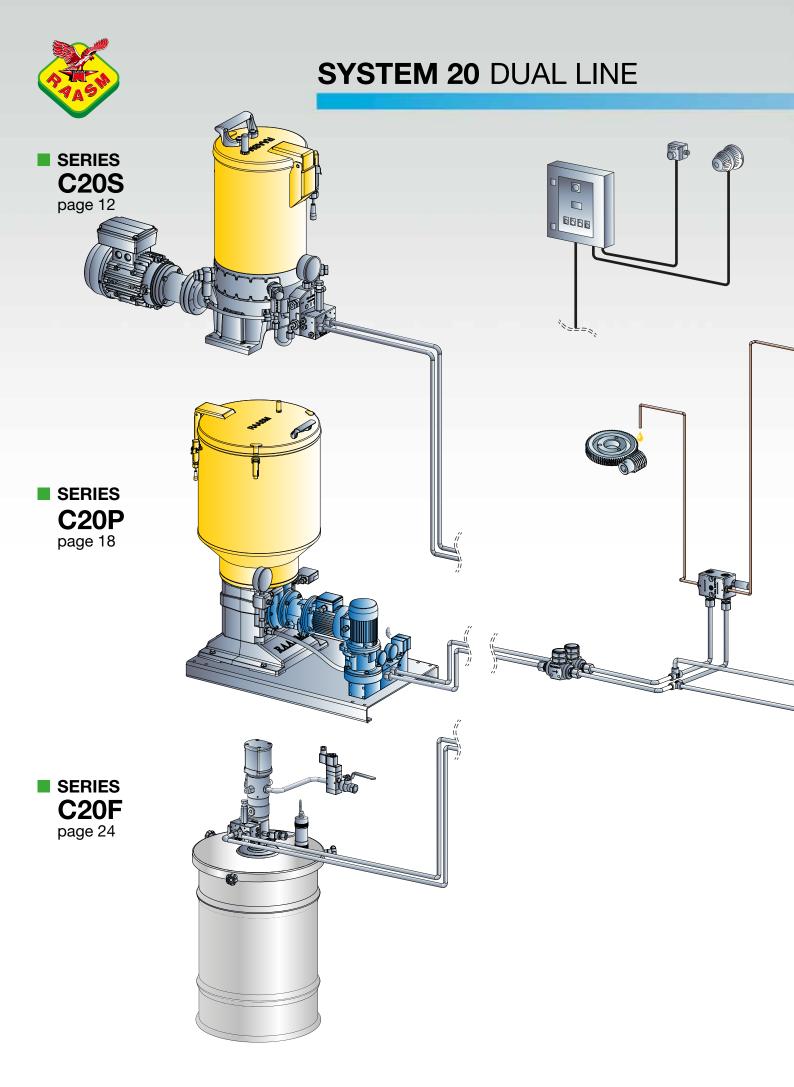
Our vertical stores enable quick and careful preparation of the components and spare parts intended for assembly and sale.

TECHNOLOGY INNOVATION QUALITY SAFETY RELIABILITY

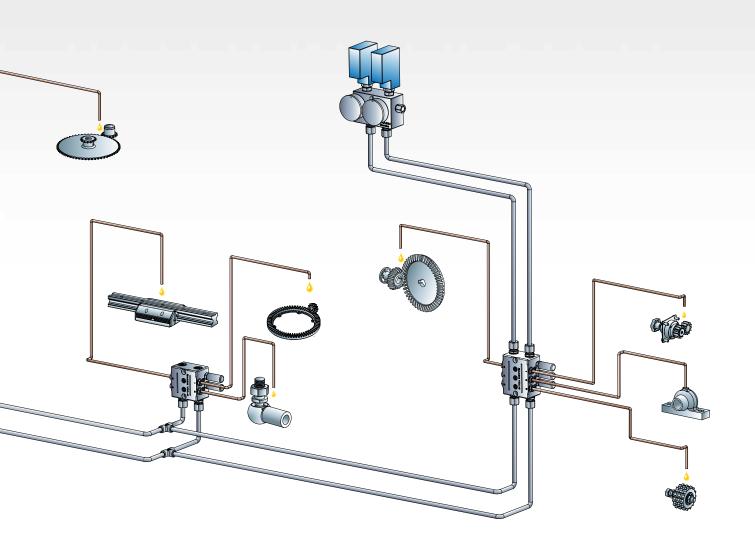
TECHNICAL ASSISTANCE

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.





The centralized dual-line lubrication systems are normally used in large systems and machines: steel mills, cement works, mines, overhead cranes, shipyard cranes and presses, for example the systems are sized in order to be able to reach rather high pressures from 200 to 400 bar. In such systems the length of the piping can easily exceed 70 metres. In this system you can use oils with viscosity from 40 cSt and greases up to NLGI 2.



ADVANTAGES

- Supplies an exact quantity of lubricant from the pumping unit to all the grease points located even at great distances.
- The dosing and measuring devices (called Volumetric distributors) are managed through two main lines, therefore the lubricant is always under the control of the system at the same time.
- The system can be easily extended through the addition of one or more Volumetric distributors.
- This high pressure system allows the use of particularly narrow pipes, enabling a reduction in the quantity and the deterioration of the residual grease inside the piping, while also reducing installation costs.
- Visual check of each Volumetric distributors or by means of a special sensor.
- If a volumetric distributor does not work, all the other outlets will continue to function normally.
- Easy re-calibration of lubricant dosing of each distributor even after installation.
- Optimum monitoring and control possibilities using appropriate equipment.
- The system keeps the pressure constantly regulated and is able to compensate temperature fluctuations.
- The system is able to generate only the necessary pressure required for each lubrication cycle, therefore the pump and other system components of the system are not subjected to pressure variations that can affect their service life.



ADVANCED FLUID MANAGEMENT SOLUTIONS



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Compact motor-operated pumps, equipped with line inverter mounted on the main body of the pump.

They have a sturdy and compact base in nickel-plated aluminium alloy, radially fitted with pumping elements in galvanized hardened steel. The epoxy powder painted lubricant tank is available in 3 different sizes: 10, 30 and 70 litres. Two electric motors (three-phase) are available with 4 poles or 6 poles, to which gearmotors with ratios of 35:1 and 70:1 are coupled. These all specifics allow a wide combination of tanks, motors and gear motors to meet all end-users' needs.

SERIES C20S MOTOR-OPERATED

WITH RADIAL PISTONS

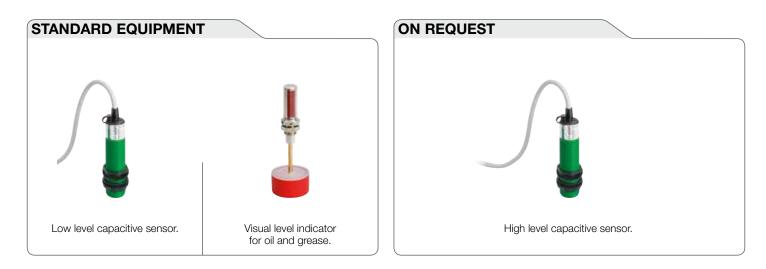


TECHNICAL CHARACTERISTICS

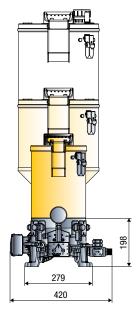
Max. delivery *	108 cm ³ /min	
Max. working pressure	400 bar adjustable	
Tank capacity	10-30-70 litres	
Ratio of reducer in pump	35:1 - 70:1	
Filling union	F 1/2" G	
Lubricant outlet union	F 1/4" G	
Pumping unit delivery	P/N 2081100 - 1 cm³/cycle	
Temperature	-25 °C / +60 °C	
Lubricant	Oil > 40 cSt - Greases 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	6 poles motor: 870 ÷ 1100 rpm	
	4 poles motor: 1370 ÷ 1660 rpm	
	protection: IP 55	
	base: aluminum alloy	
Materials	moving parts: steel	
Materials	pumping piston: hardened steel	
	reservoir: painted steel	
* Approx. delivery with grease NLGI 2 a 18 °C. (The lubricant must have technical characteristics in compliance with working temperature).	

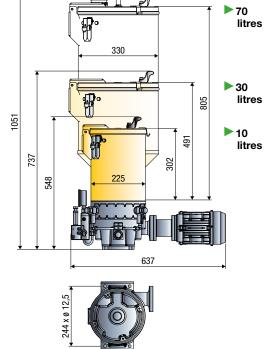
* Different rated voltages have to be indicated in the purchase order.

P/N		Tank	No. pumping	Reducer ratio	Motor	Delivery
Grease	Oil	capacity (litres)	elements		Motor	(cm ³ /min)
2070080	2070440	10	2	70:1	6 poles	28
2070200	2070560	30	2	70:1	6 poles	28
2070020	2070380	10	2	70:1	4 poles	40
2070140	2070500	30	2	70:1	4 poles	40
2070110	2070470	10	4	70:1	6 poles	56
2070230	2070590	30	4	70:1	6 poles	56
2070350	2070710	70	4	70:1	6 poles	56
2070050	2070410	10	4	70:1	4 poles	80
2070170	2070530	30	4	70:1	4 poles	80
2070290	2070650	70	4	70:1	4 poles	80
2070065	2070425	10	2	35:1	6 poles	54
2070185	2070545	30	2	35:1	6 poles	54
2070095	2070455	10	4	35:1	6 poles	108
2070215	2070575	30	4	35:1	6 poles	108
2070335	2070695	70	4	35:1	6 poles	108



OVERALL DIMENSIONS (mm)





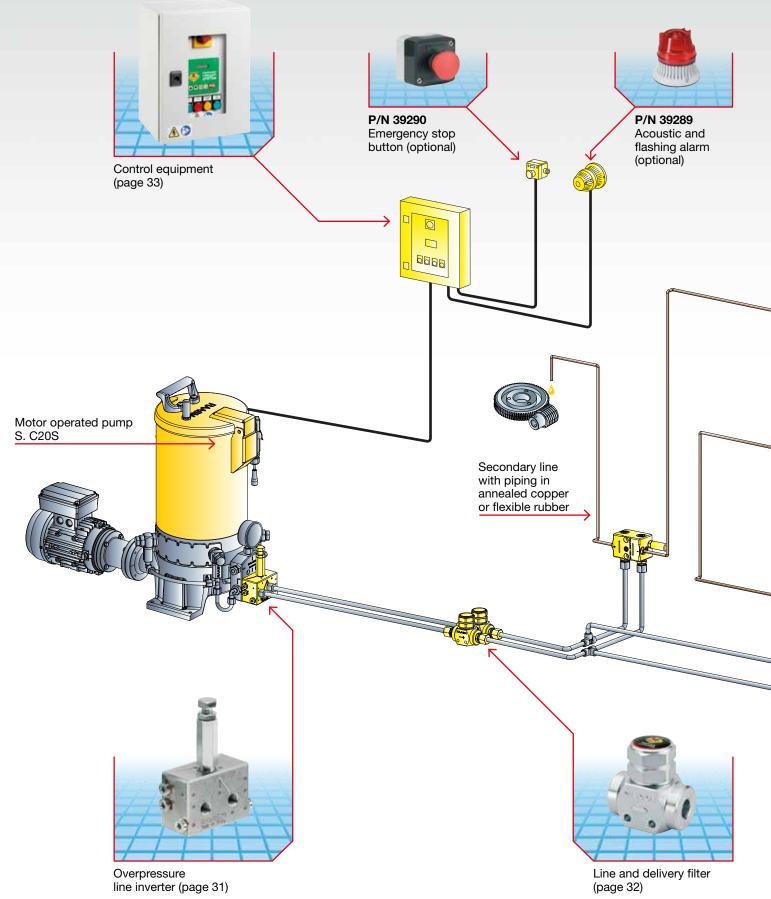
	10 litres			
	Grease	Oil		
Packing-m ³	1-0,152	1-0,152		
Net weight kg 🔒	29,5	29,3		
Gross weight kg 🖁	41,3	41,1		

	30 litres		
	Grease	Oil	
Packing-m ³	1-0,208	1-0,208	
Net weight kg 🔒	34,7	34,4	
Gross weight kg 🗳	46,9	46,6	

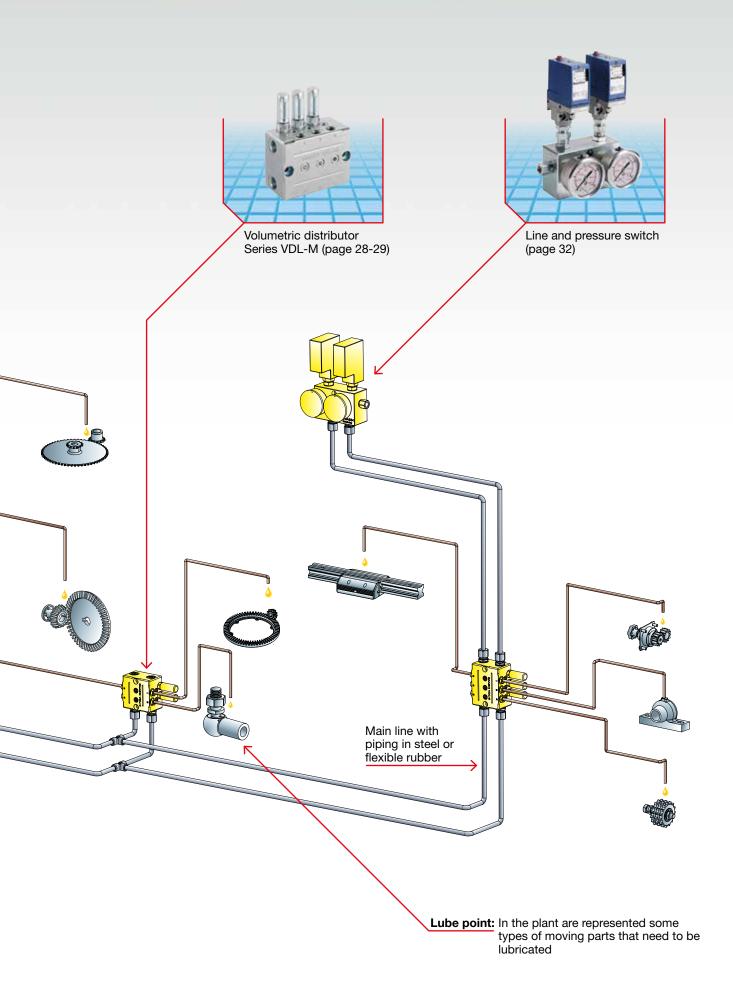
	70 litres		
	Grease	Oil	
Packing-m ³	1-0,296	1-0,296	
Net weight kg 🔒	39,2	38,5	
Gross weight kg 🖁	52	51,3	



Type of lubrication system with



MOTOR-OPERATED PUMP SERIES C20S





ADVANCED FLUID MANAGEMENT SOLUTIONS



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Motor-operated pumps equipped with three-phase motor (4-poles) with large epoxy powder painted tank (40 or 100 litres) mounted on base in nickel-plated aluminium alloy.

The pumping unit can be fitted with dosing pistons of two different diameters (7 or 10 mm), thereby offering a choice of different deliveries according to customer requirements. A minimum level sensor, standard on all models, informs the operator by means of a special luminous signal and stops pump operation, preventing it from running empty. The line inversion system is supplied separately. It can be electromechanical or overpressure-type, as illustrated on the following pages of this catalog.

SERIES C20P MOTOR-OPERATED PUMP

PISTONS WITH OSCILLATING UNIT



TECHNICAL CHARACTERISTICS

Doser piston flow rate	* 160 (ø 7 mm) - 400 (ø 10 mm) cm³/min
Max. working pressure	400 bar adjustable
Tank capacity (litres)	40 -100 litres
Doser piston diameter	7 - 10 mm
Lubricant inlet connection	F 1/2" G
Lubricant outlet connection	F 3/8" G
Working temperature	-25 °C / +60 °C
Lubricant	Oil > 40 cSt - Greases max NLGI 2
Min level electric control	Standard
Min and max level electric control	On request
	Power 0,55-0,66 kW
Madag	230/400 V AC-50 Hz - 275/480 V AC-60 Hz *
Motor	Speed 1370 ÷ 1640 rpm
	Protection IP 55
* Approx. delivery with grease NLGI 2 a 18	C. (The lubricant must have technical characteristics in compliance with working temperature).
. Different reted veltages have to be indicate	d in the purchase order

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

GUIDE TO CHOOSING PUMP P/N Tank dosing piston ø Delivery capacity (litres) (cm³/min) (mm) Grease Oil 2000065 2000305 40 7 160 2000185 2000425 100 7 160 2000095 2000335 40 400 10 2000215 2000455 100 10 400

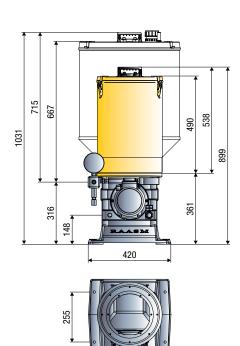


OSCILLATING PUMPING UNIT

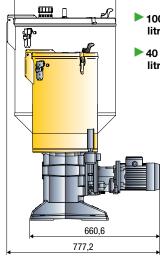
Dosing piston (ø 7 mm - ø 10 mm)

The reciprocating motion of pumping group's body allows to the two dosing pistons to dispense lubricant directly from pumping group to pump's outlet.

OVERALL DIMENSIONS (mm)



360 x ø 12,5



510

100 litres		40 litres				
40 litres		Grease	Oil			
	Packing-m ³	1-0,268	1-0,268			
	Net weight kg 🔒	63,2	61,3			
	Gross weight kg 🗳	79,6	77,7			

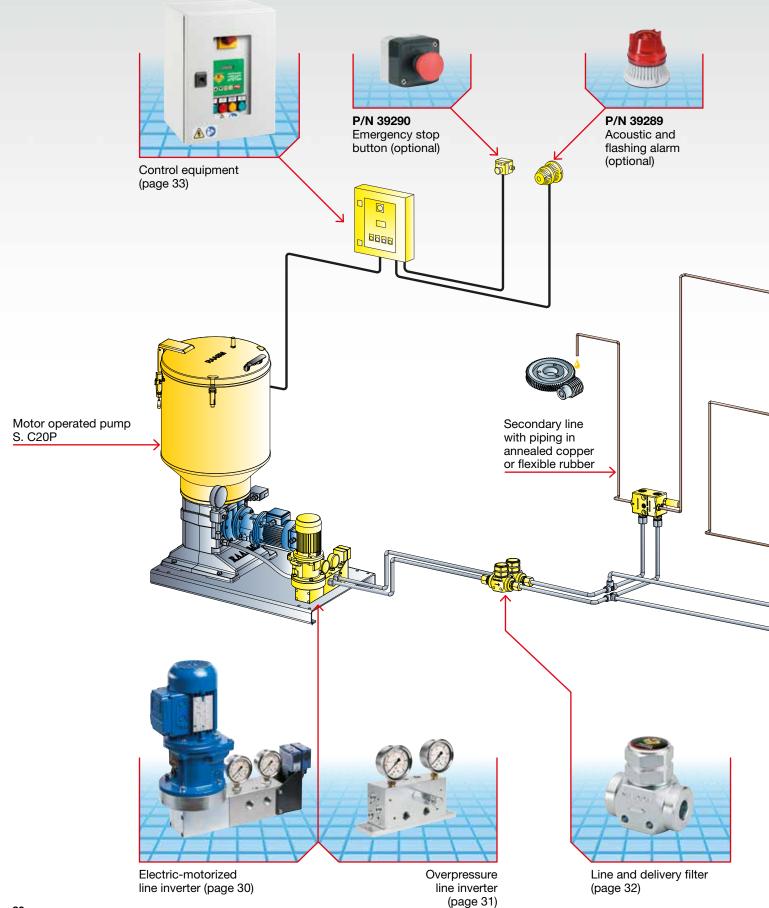
11

	100 litres		
	Grease	Oil	
Packing-m ³	1-0,435	1-0,435	
Net weight kg 🖞	75,7	73,6	
Gross weight kg 🖞	92,5	90,4	

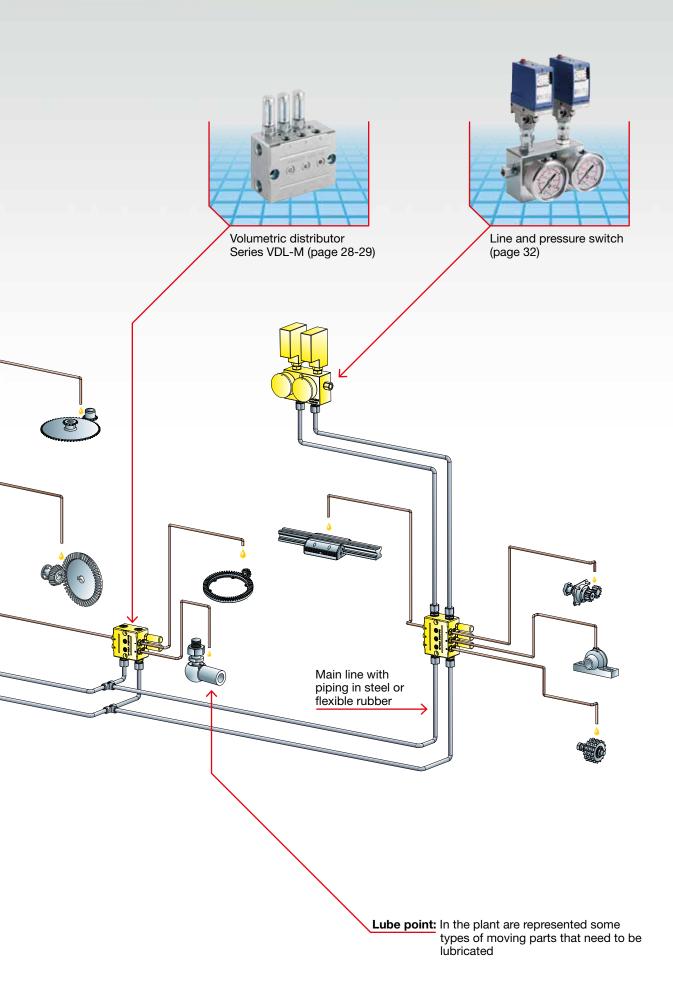
Dosing piston (ø 7 mm - ø 10 mm)



Type of lubrication system with



MOTOR-OPERATED PUMPS SERIES C20P





ADVANCED FLUID MANAGEMENT SOLUTIONS



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SERIES C20F AIR-OPERATED PUMP

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,

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).



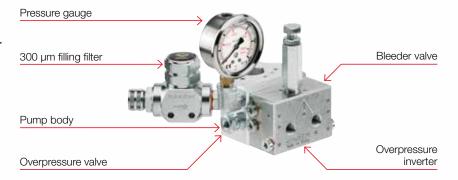
TECHNICAL CHARACTERISTICS

Max flow rate	1330 cm³/min			
Max working pressure	8 bar			
Pressure ratio	50:1			
Air inlet connection	F 1/4" G			
Lubricant outlet connection	F 1/4" G			
Overpressure valve	adjustable from 100 to 350 bar			
Operating temperature	-25 °C / +60 °C			
Lubricant	Oil > 40 cSt - Grease max NLGI 2			
* Approx. delivery with grease NLGI 2 at 18°C.				

DELIVERY INVERSION AND CONTROL ASSEMBLY

This group is composed by:

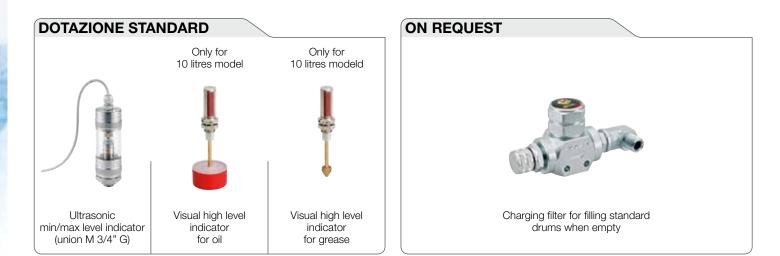
- Pressure gauge: to check the line pressure.
- **Overpressure valve:** allows to check the system pressure and to discharge the lubricant in case of overpressure 100 350 bar.
- **Filling filter:** for filling the lubricant in the tank.
- Bleeder valve: during the filling phase, it allows to remove the air inside.

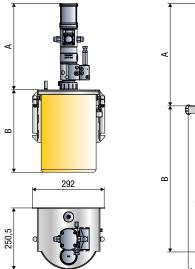


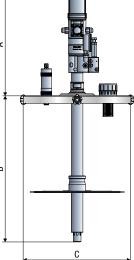
GUIDE TO CHOOSING PUMP

P/N	Tank capacity	Drum internal ø	Pump		Follower plate	Pump outlet assembly
Grease	(litres)	(mm)	(R 50:1)	Drum cover		
2010020	10 litres	220	62641	-	10/617	2080201
2010200	20 kg	255/300	62648	10/507	10/63	2080201
2010380	50 kg	335/360	62674	10/503	10/62	2080201
2010470	60 kg	360/400	62674	10/502	10/61	2080201
2010560	200 kg	540/580	62695	10/501	10/60	2080201

P/N	Tank capacity	Drum external ø	Pump			Pump outlet
Oil	(litres)	(mm)	(R 50:1)	Drum cover	Drum ring	assembly
2010650	10 litres	240	62641	-	-	2080201
2010830	20 kg	260/330	62648	10/507	-	2080201
2011010	50 - 60 kg	340/385	62674	10/503	-	2080201
2011100	50 - 60 kg	closed - thread 2"	62674	level 39650	10/14	2080201
2011190	200 kg	closed - thread 2"	62695	level 39650	10/14	2080201







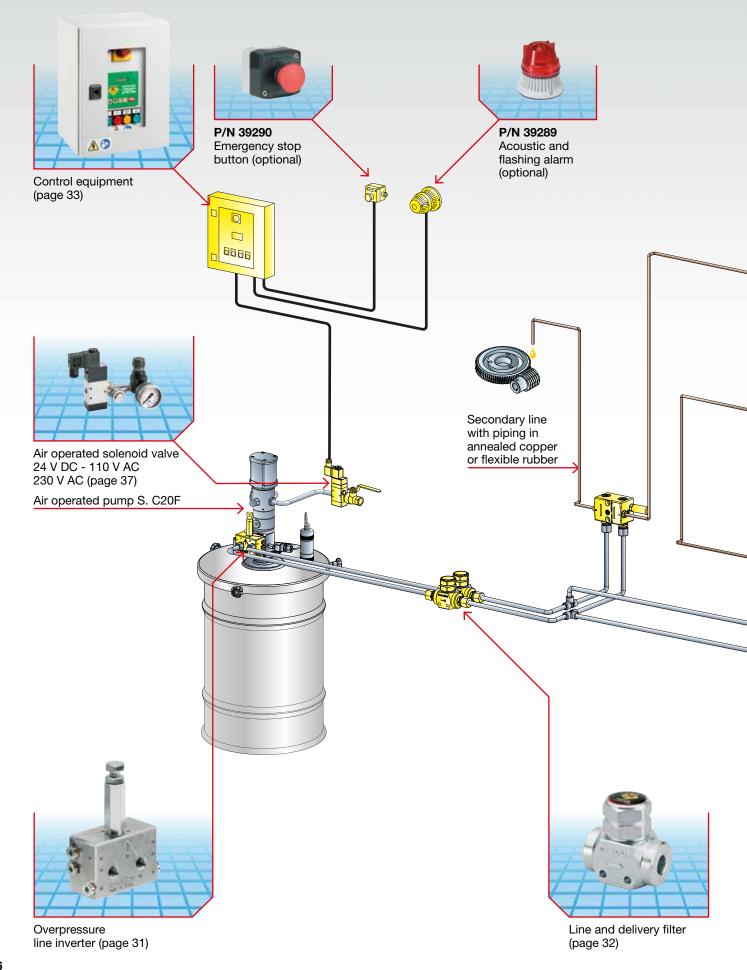
Grease	Α	В	С
2010020	351	335	292
2010200	355	361	341
2010380	355	621	389
2010470	355	621	424
2010560	355	835	604

Oil	Α	В	С
2010650	351	335	292
2010830	355	361	341
2011010	355	621	389
2011100	355	621	424
2011190	355	835	604

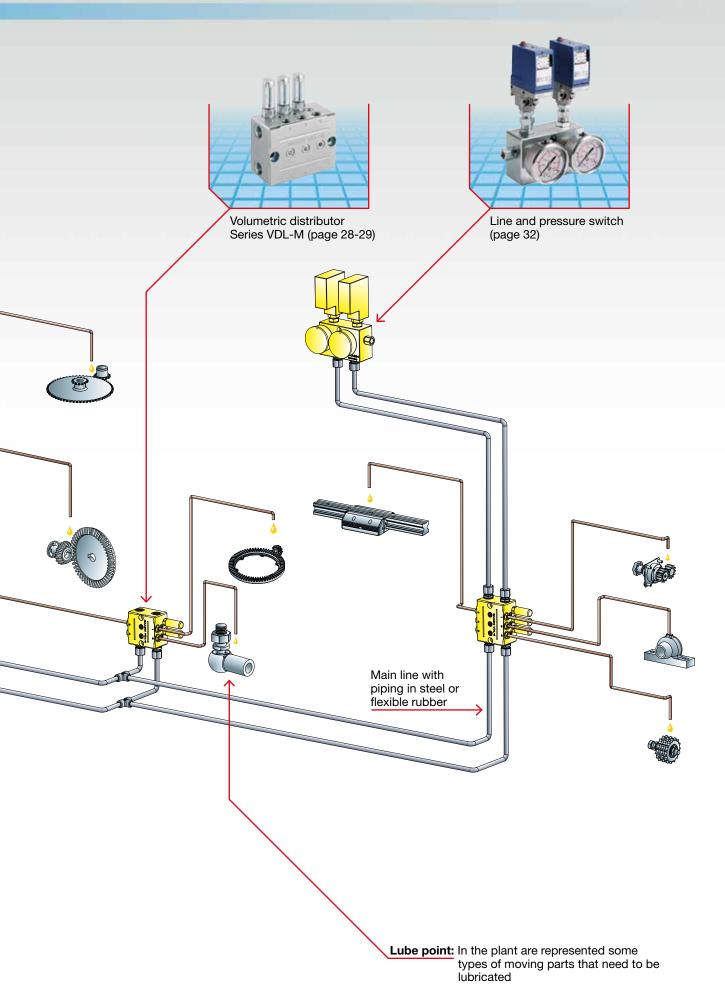
	10 li	tres	20 kg		50 kg		60 kg		220 kg	
	Grease	Oil								
Packing-m ³	1-0,056	1-0,056	2-0,094	2-0,094	2-0,086	2-0,086	2-0,086	2-0,050	2-0,115	2-0,060
Net weight kg 🖞	18,2	17,4	13,5	12,2	15,2	13,4	15,6	11,4	23,2	13,0
Gross weight kg	18,5	17,7	14,1	12,8	15,8	14,0	16,2	12,0	24,0	13,8



Type of lubrication system with



AIR-OPERATED PUMPS SERIES C20F





VDL-M VOLUMETRIC DISTRIBUTOR

The volumetric distributor VDL-M is very simple, efficient and precise, and also allows the adjustment of delivery directly to the system installation (page 8-9).

In the first stage of the lubrication cycle the fluid pressure in line 1, moving the first pilot piston and then the dosing piston, sends the lubricant to the user points connected in delivery 2. After the maximum pressure in line 1 is reached, indicated by the line end pressure switch, the inverter changes the feed from line 1 to line 2.

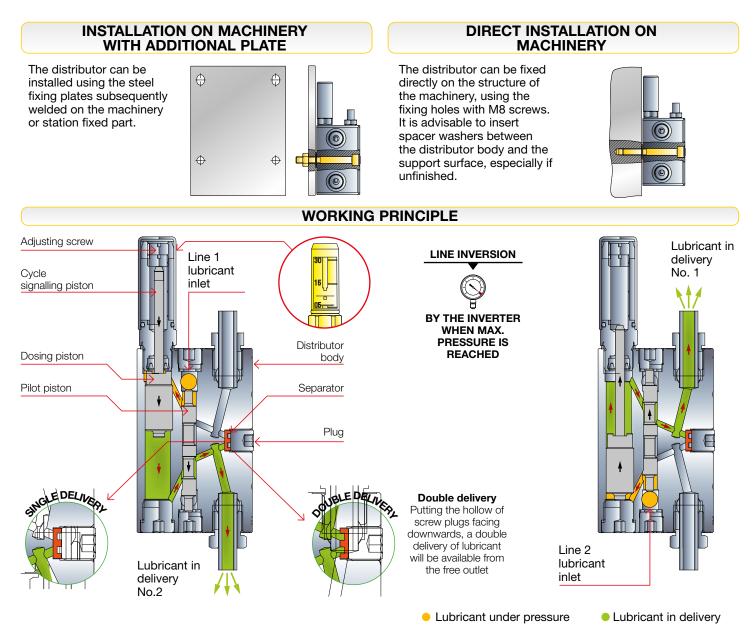
In the second stage, the procedure is repeated as above: the fluid pressure moving the first pilot piston and then the dosing piston, sends the lubricant to the user points connected in delivery 1.

The dispensing of lubricant occurs alternately by pumping through two separate main circuits, each with its own independent outlet.



TECHNICAL CHARACTERISTICS

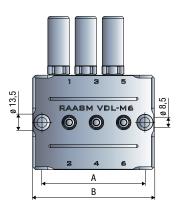
Doser piston flow rate	adjustable from 0,28 to 3,00 cm ³ /cycle			
Notch to regulate flow rate	1 - 2 - 3			
Flow rate for each notches	0,3 - 1,5 - 3,00 cm³/cycle			
Max working pressure	150 bar (oil) - 400 bar (grease)			
Min flow rate for each outlet	0,28 cm³/cycle			
Max flow rate for each outlet	3,00 cm³/cycle			
Lubricant	Oil > 40 cSt - Greases max NLGI 2			
No. of outlet	2 - 4 - 6 - 8 - 10			
Lubricant inlet connection	F 3/8" G			
Lubricant outlet connection	F 1/4" G			
Working temperature	-25 °C / +60 °C			

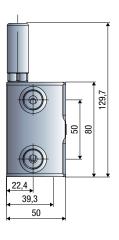


GUIDE TO CHOOSING DISTRIBUTOR

P/N Abbreviatio	Abbroviation	Ou	tlet	Threads *		
	Abbreviation	Min	Max	Inlet	Outlet	
2030310	VDL-M2	1	2	F 3/8" G	F 1/4" G	
2030330	VDL-M4	2	4			
2030350	VDL-M6	3	6			
2030370	VDL-M8	4	8			
2030390	VDL-M10	5	10			

* Threads on request F 3/8" NPT - F 1/4" NPT





Abbreviation	A	В
VDL-M2	41	57
VDL-M4	64	80
VDL-M6	87	103
VDL-M8	110	126
VDL-M10	133	146



OVERPRESSURE OR MOTOR-OPERATED REVERSING VALVE

The reversing valves are devices that enable the flow of lubricant, at the pump outlet, to be automatically diverted from line 1 to line 2.

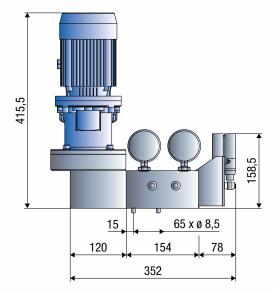
This operation allows the two lines to be alternately pressurized, thereby activating the distributors connected to them. They are available in two versions, depending on the method of operation: by overpressure and motor-operated.

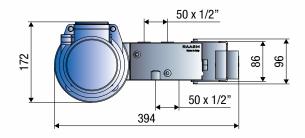
The overpressure reversing valves exploit the pressure generated by the pump in order to carry out the change between the two lines, whereas the motor-operated reversing valves obtain the line inversion by means of a servo control fed by a gearmotor.



TECHNICAL CHARACTERISTICS				
2080400				
up to 7700 cm³/min (420 kg/h)				
150 bar (oil) - 400 bar (grease)				
asynchronous three-phase 230/400V AC 50 Hz - 0,09 kW asynchronous three-phase 265/460V AC - 60 Hz - 0,09 kW Speed 900÷1120 giri/min				
F 1/2" G				
F 1/2" G				
IP55				
Oli > 40 cSt - Greases max NLGI 2				

Different rated voltages have to be indicated in the purchase order







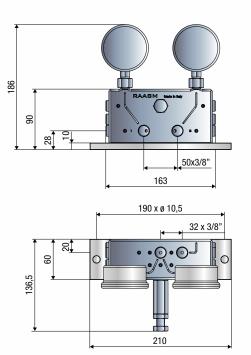
OVERPRESSURE REVERSING VALVES

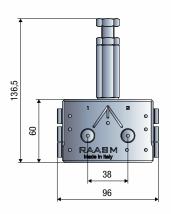
The overpressure reversing valves exploit the pressure generated by the pump in order to carry out the change between the two lines.

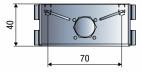


TECHNICAL CHARACTERISTICS

	TECHNICAE CHANACTERISTICS					
P/N	2080300	2080201				
Max flow rate	6600 cm³/min (360 kg/h)	5500 cm³/min (300 kg/h)				
Max working pressure	50 - 150 bar (oil) - 50 - 400 bar (grease)	50 - 150 bar (oil) - 50 - 400 bar (grease)				
Outlet connections line 1 and 2	F 3/8" G	F 1/4" G				
Working cycles	max. 120 per min	max. 120 per min				
Fluid inlet and discharging pressure outlet connection	E 3/8" (F					
Lubricant	Oil > 40 cSt - Greases max NLGI 2	Oil > 40 cSt - Greases max NLGI 2				









PRESSURE SWITCH AND FILTER

PRESSURE SWITCH

FILTER

Pressure switch

The line end pressure switches are used to control and monitor the correct operation of the centralized system, confirming the reaching of maximum pressure and end of cycle control.

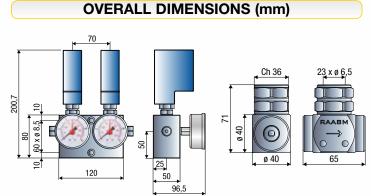
Filter

In order to ensure proper functioning of the system and that the lubricant intended for user points is totally free of impurities, the installation of appropriate filters at the control unit inlet (for filling) and outlet is recommended. The sturdy steel structure the filters are provided with ensures a sure seal and also allows their use in centralized lubrication systems where high operating pressures (500 bar). Working with lubricating oils and

greases, they are placed at the outlet of the pumping unit and along the line of the system.



Туре	Oil and Grease	Oil and Grease			
Max working pressure	400 bar	500 bar			
Filtration degree	- 30 - 60 - 100 - 150 - 300 μm				
Lubricant inlet connection	ction F 3/8"G F 3				
Lubricant outlet connection	-	F 3/8"G - F 1/2" G			
Electric contact	by clamps -				
Working temperature	-25 °C / +60 °C	-25 °C / +60 °C			
Lubricant	Oil > 40 cSt - Grease max NLGI 2	Oil > 40 cSt - Grease max NLGI 2			



Technical characteristics	P/N	Working pressure (bar)	Protection degree	Туре
2 pressure switches and	2080700	from 30	IP55	without box
2 manometers	2080703	to 400	IP65	with box
1 pressure switches and	2080710	from 30	IP55	without box
2 manometers	000000000000000000000000000000000000000	to 400	IP65	with box

DELIVERY-FILLING FILTER	
Filter holder plug	Filter spring
Filter block F 3/8"G x F 3/8"G F 1/2"G x F 1/2"G	Filter cartridge 30-60-100 150-300 µm

Lubricant	P/N	Connection	Filtration degree (µm)
	2080900	F 3/8" G	30
	2080930		60
	2080950		100
	2080800	F 3/8" G	150
Oil and	2080801	13/8 G	300
Grease	2080901		30
	2080931	F 1/2" G	60
-	2080951		100
	2080850	F 1/2" G	150
	2080851	1 1/2 G	300

TECHNICAL CHARACTERISTICS



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	2170021	2170033	2170036	2170026	2170037	2170035	2170025
Proper for pump	C20S	- C20P	C20F	C20S ·	- C20P	C20F	C20S -	- C20P
Voltage	2	00÷500 V A	C	2	00÷500 V A	С	200÷50	0 V AC
Power consumed *		1500 W ma	x	-	1500 W max	ĸ	1500 \	V max
Button start /stop	NO	NO	NO	YES	YES	YES	YES	YES
Light allarm	NO	NO	NO	YES	YES	YES	YES	YES
Light filling	NO	NO	NO	YES	YES	YES	NO	NO
Tank full light	NO	NO	NO	YES	YES	YES	NO	NO
Trasparent window	NO	NO	NO	YES	YES	YES	YES	YES
Filling control	NO	NO	YES	YES	YES	YES	NO	NO
Protection rating		IP54			IP55	-	IP	55
Working temperature	- :	25°C / +60	°C	- 2	25°C / +60 °	°C	- 25°C /	′ +60 °C

* Depends on the type of motor applied to the pump.

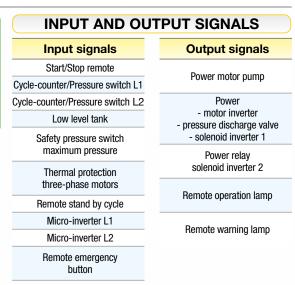
The card is installed in a metal box provided with or without transparent window and communicates with a display integrated into an easy to use flexible membrane keyboard. Within the enclosure all the components (connections, remote control switches, fuses, etc.) are easy accesable.

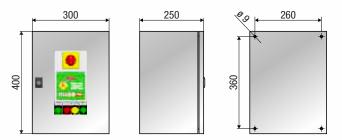
- Display integrated into the flexible membrane keyboard

- Simple user interface based on a menu, easy to start configure and programme

- Rugged and waterproof cover, meets the requirements of IP55
- 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.







Packing-m ³	Ø	1-0,03
Net weight kg	e	15,2-15,4
Gross weight kg	Ô	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.

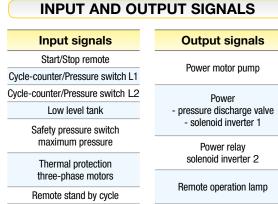


TECHNICAL CHARACTERISTICS P/N 1670035 1670036 C20F C20F Proper for pump 12/24 V DC 120-230 V AC 60/50 Hz Voltage Power consumed 200 W max 600 W max Inlet 9 9 5 5 Outlet Protection rating IP64 IP64 - 25°C / +60 °C Working temperature - 25°C / +60 °C

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





Micro-inverter I 1

Micro-inverter L2

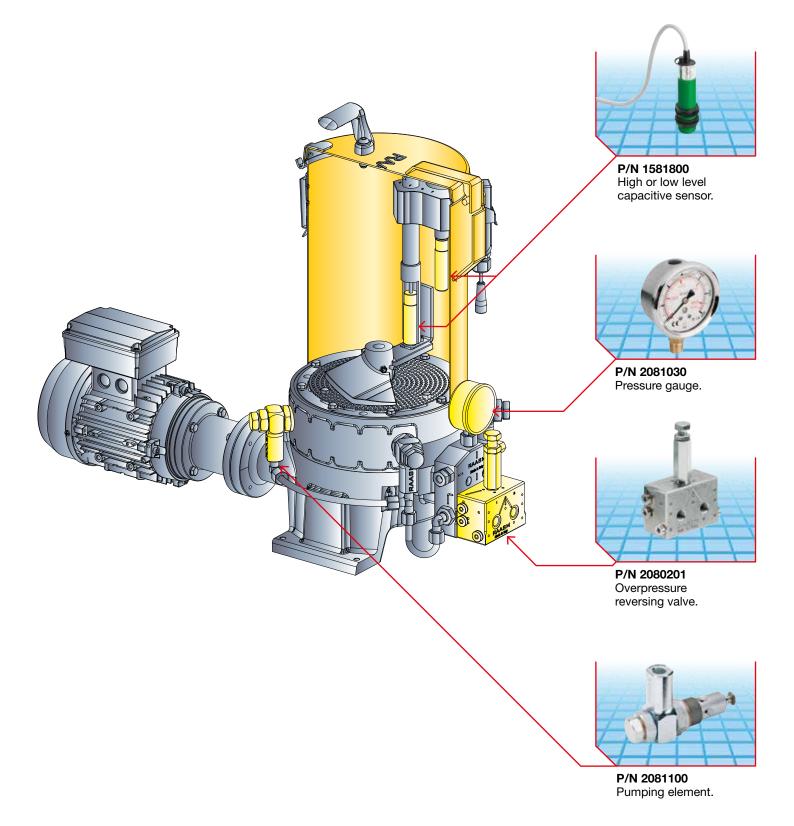
Remote warning lamp



Packing-m ³	6	1-0,005
Net weight kg	e	1,2-1,4
Gross weight kg	Ô	1,1-1,3



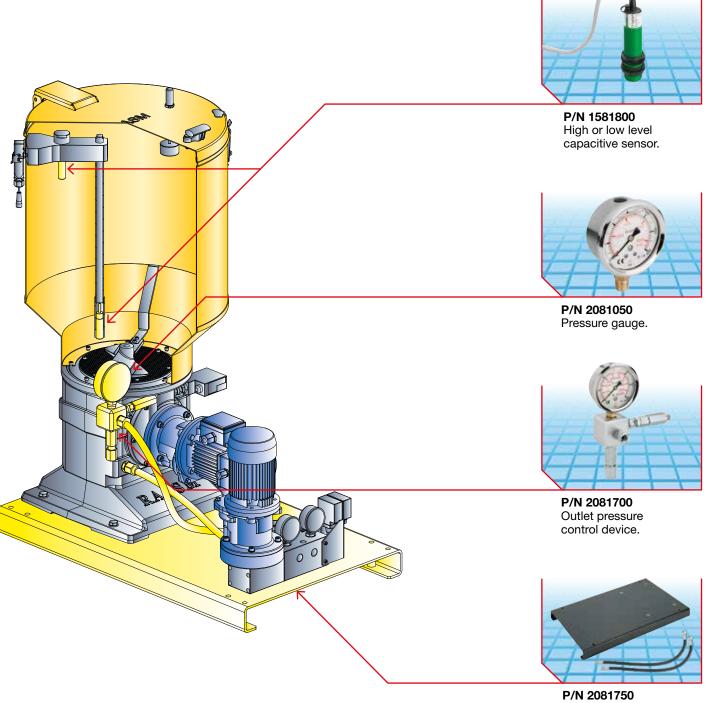
ACCESSORIES PUMP SERIES C20S



P/N	Description	Connection	Capacity/Pressure
1581800	Minimum and maximum capacitive level	M 18 x 1	-
2081030	Pressure gauge ø 63 mm 600 bar	M 1/4" G	600 bar
2080201	Overpressure reversing valve	outlet F 1/4" BSP	5500 cm ³ /min (50-150 bar oil) (50 - 400 bar grease)
2081100	Pumping element ø 12 mm	M27 x 1,5	1 cm ³ /cycle



ACCESSORIES PUMP SERIES C20P

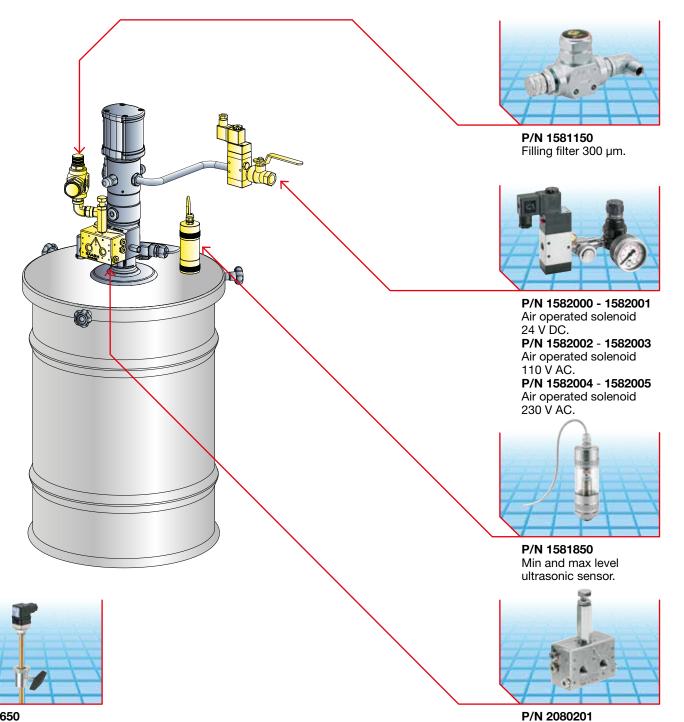


P/N 2081750 Base for pump and connecting hoses.

P/N	Description	Connection	Capacity/Pressure
1581800	Minimum and maximum capacitive level	M 18 x 1	-
2081050	Pressure gauge ø 100 mm 600 bar	M 1/4" G	600 bar
2081700	Outlet pressure control device	outlet F 3/8" BSP	50 - 400 bar
2081750	Base for pump and connecting hoses	hoses F 3/8"G x F 3/8"G	hoses 400 bar



ACCESSORIES PUMP SERIES C20F



Art. 39650 Min level indicator (optional only for oil).

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

P/N	Description	Connection	Pressure
1582004	Air operated solenoid 230 V AC	F 1/4"G x F 1/4"G	2,5-8 bar
1582005	Air operated solenoid 230 V AC	F 1/2"G x F 1/2"G	2,5-8 bar
1581850	Min and max level ultrasonic sensor	wole on drum cover ø 31 mm	-
2080201	Overpressure reversing valve	outlet F 1/4" BSP	50-150 bar oil 50-400 bar grease
39650	Min level indicator (optional only for oil)	Oil	-

Overpressure

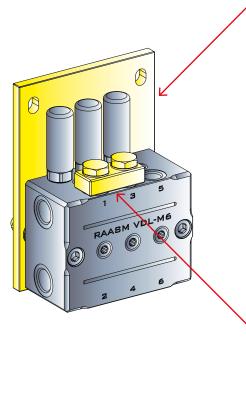
reversing valve.



ACCESSORIES FOR VOLUMETRIC DISTRIBUTOR **SERIES VDL-M**



P/N 2080100 - 2080101 P/N 2080102 - 2080103 P/N 2080104 Fixing plate for volumetric distributor "VDL-M".





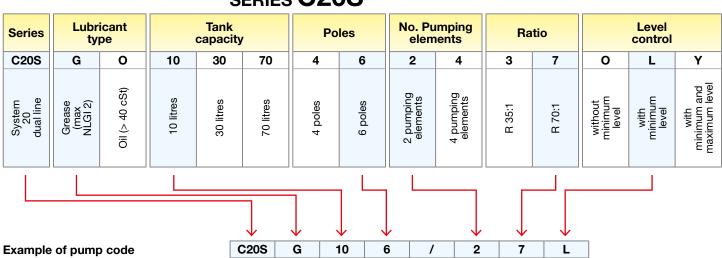
P/N 2080051 Distributor junction.

P/N	Description	Connection
2080100	Fixing plate for volumetric distributor "VDL-M"	2 outlet
2080101	Fixing plate for volumetric distributor "VDL-M"	4 outlet
2080102	Fixing plate for volumetric distributor "VDL-M"	6 outlet
2080103	Fixing plate for volumetric distributor "VDL-M"	8 outlet
2080104	Fixing plate for volumetric distributor "VDL-M"	10 outlet
2080051	Distributor junction "VDL-M"	Dosing screw M 1/4" BSP



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 C20S

SERIES C20P

Series	Lubri ty			nk acity	Ρον	Power Flow rate		Flow rate		Control equipment		Level control			Accessories 1		sories 2
C20P	G	0	40	100	Α	В	1	4	0	1	L	0	Y	1	1	/	1
System 20 dual line	Grease (max NLGI 2)	Oil (> 40 cSt)	40 litres	100 litres	0,75 Kw	0,37 Kw	160 cm³ ø 7 mm	$400 \text{ cm}^3 \text{ ø } 10 \text{ mm}$	without control equipment	with control equipment	with minimum level	without minimum level	with minimum and maximum level	without base for pump and connecting hoses	with base for pump and connecting hoses	without motor operated reversing valve	with motor operated reversing valve
1																	
								\downarrow	\downarrow	\downarrow		\downarrow	\downarrow			\downarrow	
Example	Example of pump code						G 4	40	Α	1	1	0	L		1	1	

SERIES C20F

Series	Lubri typ		Tank capacity	Tank external ø (mm)						Ratio			Level control			
C20F	G	0	10	28	35	37	38	42	60	5	6	7	0	1	2	
System 20 dual line	Grease (max NLGI 2)	Oil (> 40 cSt)	10 kg	da 240 a 280	da 300 a 350	da 260 a 330	da 340 a 385	da 370 a 420	da 550 a 600	R 50:1	R 65:1	R 75:1	without minimum level ultrasonic	with minimum level ultrasonic	with minimum and maximum level ultrasonic + visual maximum level + filling filter	
Example	Example of pump code C20F G 10 / 5 1															





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FOR FOREIGN MARKETS



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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.

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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

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- 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).

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