SYSTEM LUBRICATION 25 MULTI-DELIVERY

CATALOG No. 854/25





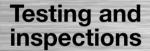


technology efficiency reliability



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.



A sophisticated test room enables careful testing of the quality of new products before they are sold 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 automated storage enables quick and careful preparation of the components and spare parts.



Technology Efficiency Reliability

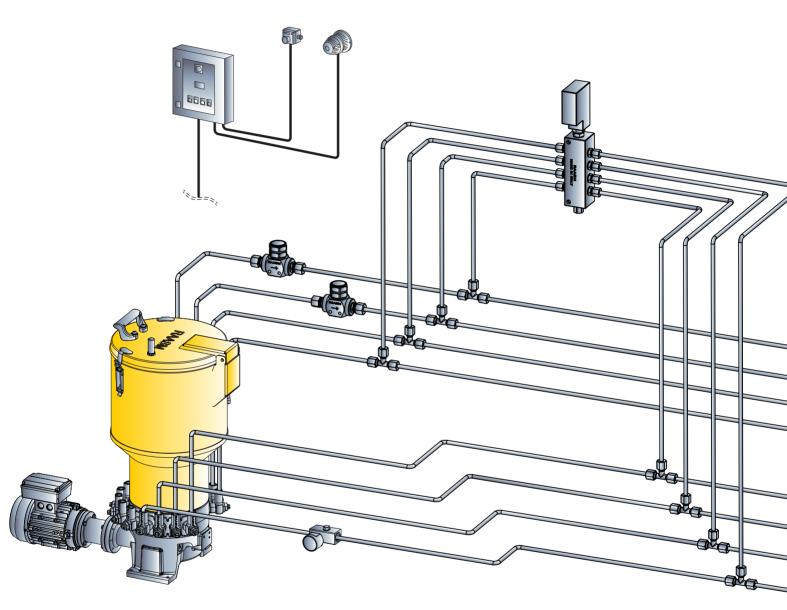


Technical Assistance

RAASM has one of the widest ranges of products for lubrication and the dispensing of fluids. The goal is to always respond fully to the questions of our customers and meet all their needs.



System 25 multi-delivery



Series **C25S** page 10

The multi-delivery system allows up to 16 separate user points to be lubricated. The central pumping unit comprises an electric pump radially fitted with a series of pumping elements which, through the movement of a cam, push in succession the lubricant to the various deliveries from where as many feed lines start.

With this system, lubricating oils and greases with maximum grade of NLGI 2 can be used.

The pump assembly can be supplied by a minimum of 1 up to a maximum of 16 pumping elements with adjustable delivery.

Each pumping element feeds one line, directly to users, volumetric distributors or distributors for spray lubrication.

A maximum pressure switch, connected to a special manifold, allows the control of any sudden changes in pressure in the various lines, which may be due to impurities or foreign matter obstructing the flow of lubricant.

pumping unit to various lubrication points pl medium-short distances, by adjusting the d each pumping elements. Pumping unit ensures easy maintenance an operations, working with oil as well as greas Pumping element delivery adjustable by me

Possibility of using from 1 to 16 pumping elements (with position and orientation) as required by the user. Pumping elements easily removable and replaceable. Possibility of monitoring the system by means of special control and management equipment /ariability of deliveries from 0.26 to 8.54 inch³/min grouping multiple pumping elements in a single delivery)









This series of pumps has been designed to combine high operating safety, easy maintenance and the possibility of adjusting each delivery with an adjusting screw on the pumping element.

The adjusting screw on the pumping element has three measurement notches indicating specific delivery values. Depending on the feed motor and the reduction unit ratio, with 1 pumping element, having a cycle capacity of 0,02 inch³, delivery quantities of 0.26 - 0.37 - 0.53 inch³/min can be reached.

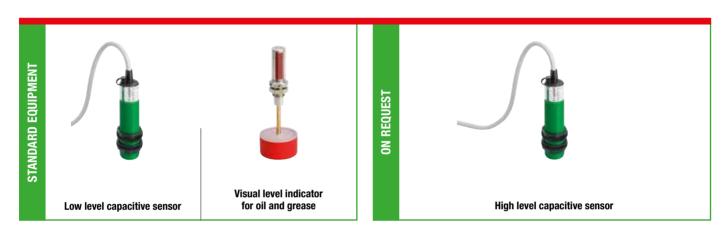
SERIES C25S MULTI-DELIVERY PUMP

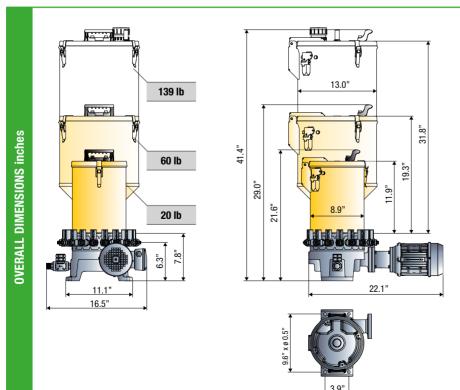


Technical Characteristics

Max. delivery (pump element) *	0.26 - 0.38 - 0.52 inch³/min
Delivery (for pumping element)	P/N 2581100-55 - 0,02 inch ³ /cycle
Max. operating pressure	5800 psi
Tank capacity	20-60-139 lb
No. pumping elements	1 - 16
Ratio of reducer in pump	35:1 - 70:1
Filling union	1/2" NPT (f)
Lubricant outlet union	1/4" NPT (f)
Temperature	- 13 °F / + 140 °F
Lubricant	Oil > 40 cSt - Greases max NLGI 2
Electric min. level control	Standard
Electric min. max. level control	Optional
	Power: 0.25 kW
	230/400 V AC - 50 Hz - 275/480 V AC - 60 Hz *
Motor	Speed 6 poles: 870 ÷ 1100 rpm
	Speed 4 poles: 1370 ÷ 1660 rpm
	Protection: IP 55
* Approx. delivery with grease NLGI 2 a 64	°F. (The lubricant must have technical characteristics in compliance with working temperature).
* Different rated voltages have to be indica	ted in the purchase order

	P/N		RESERVOIR NO. OF PISTONS	REDUCER	MOTOR	FLOW RATE	
	GREASE	OIL	CAPACITY (lb)	NU. UF PISTUNS	REDUCER	WUTUK	(inch³/min)
	2500600-55	2503480-55	20	4	70:1	6 pole	1.04
	2500720-55	2503600-55	20	8	70:1	6 pole	2.07
	2501680-55	2504560-55	60	8	70:1	6 pole	2.07
₽	2501920-55	2504800-55	60	16	70:1	6 pole	4.15
PUMP	2502640-55	2505520-55	139	8	70:1	6 pole	2.07
	2502880-55	2505760-55	139	16	70:1	6 pole	4.15
CHOOSING	2500120-55	2503000-55	20	4	70:1	4 pole	1.53
8	2500240-55	2503120-55	20	8	70:1	4 pole	3.05
픙	2501200-55	2504080-55	60	8	70:1	4 pole	3.05
입	2501440-55	2504320-55	60	16	70:1	4 pole	6.10
	2502160-55	2505040-55	139	8	70:1	4 pole	3.05
GUIDE	2502400-55	2505280-55	139	16	70:1	4 pole	6.10
	2500585-55	2503465-55	20	4	35:1	6 pole	2.14
	2500705-55	2503585-55	20	8	35:1	6 pole	4.27
	2501665-55	2504545-55	60	8	35:1	6 pole	4.27
	2501905-55	2504785-55	60	16	35:1	6 pole	8.54
	2502625-55	2505505-55	139	8	35:1	6 pole	4.27
	2502865-55	2505745-55	139	16	35:1	6 pole	8.54



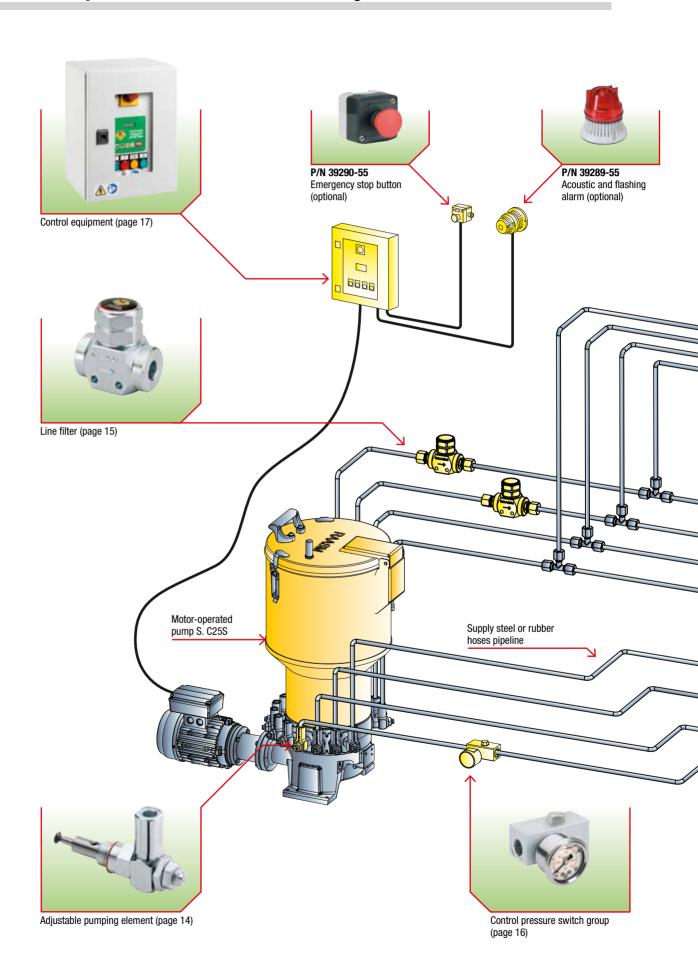


139 lb		GREASE	OIL
Packing-ft ³	A	1-10.5	1-10.5
Net weight lb	ů	90.3	88.8
Gross weight lb	ů	118.5	117.0

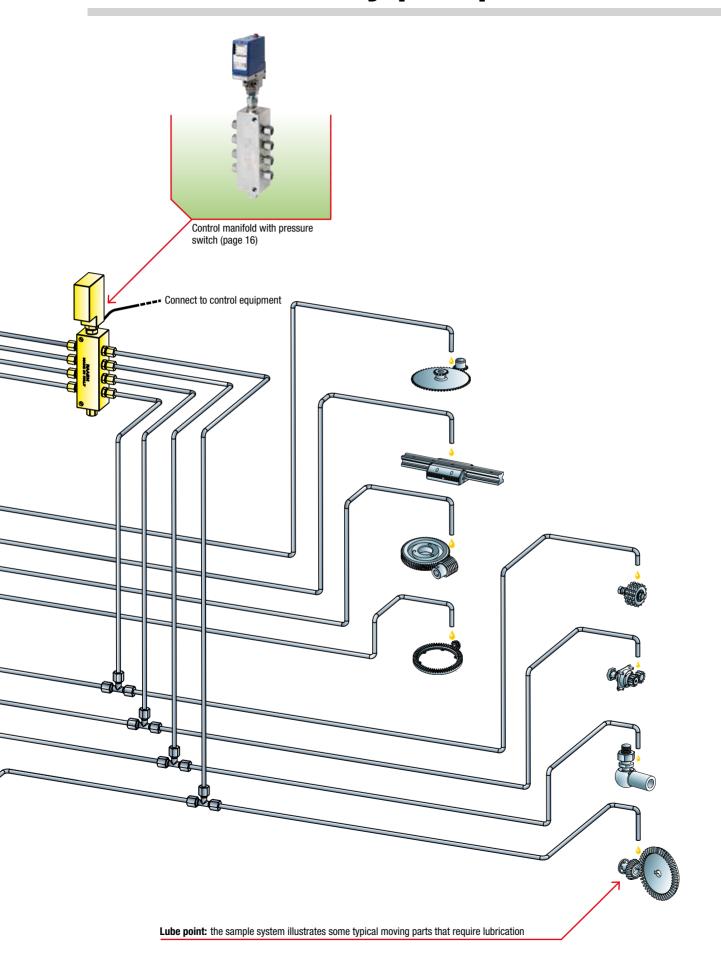
60 lb		GREASE	OIL
Packing-ft ³	4	1-7.3	1-7.3
Net weight lb	ů	80.4	79.7
Gross weight lb	ů	107.3	106.6

20 lb		GREASE	OIL
Packing-ft ³	Ø	1-5.0	1-5.0
Net weight lb	ů	69.0	68.5
Gross weight lb	Å	94.9	94.5

Sample lubrication system with



multi-delivery pump series C25S





A wide range of flow rates is obtainable, thanks to the following configurations:

- adjustable delivery per cycle of each single pumping element from 0 to 0.02 inch³.
- by joining two or more pumping element outlets;
- three operating speeds (cycles per minute) are available by the electro motors and reduction gears coupling.

PUMPING ELEMENT

The pump C25S is designed to be connected directly to the user points, therefore its pumping elements are used the same way as volumetric dosers. Each pumping element combines easy maintenance with high operating safety thanks to the two single-acting valves and delivery regulating unit. The pumping element is mounted radially on the chrome-plated aluminium base and fixed to a ring coupled to eccentric shaft. This is centrally mounted to the pump from which receives the axial pumping movement. Without using springs which could deteriorate or break



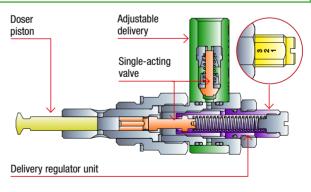
Technical Characteristics

P/N	2581100-55
Doser piston diameter	0.28"
Stroke length	0.63"
Max flow rate *	0,02 inch³/cycle
Flow rate with 70:1 motor 6 poles *	0.26" inch³/min
Flow rate with 70:1 motor 4 poles *	0.38" inch³/min
Flow rate with 35:1 motor 6 poles *	0.52" inch³/min
Outlet connection	1/4" NPT (f)
Max flow rate motor R70:1 - 6 poles *	with 16 doser pistons - 4.15 inch³/min
Max flow rate motor R70:1 - 4 poles *	with 16 doser pistons - 6.10 inch³/min
Max flow rate motor R35:1 - 6 poles *	with 16 doser pistons - 8.54 inch³/min
* Approx. delivery with grease NLGI 2 a 64	°F

ADJUSTABLE PUMPING ASSEMBLY

1.0" 1.3" Ch 30 Ch 30 4.6" 1.1" 1.2"	
--------------------------------------	--

Doser piston flow rate	Adjustable from 0 a 0.02 inch ³ /cycle	
Notch to regulate flow rate	1 - 2 - 3	
Flow rate for each notch (1-2-3)	0.00 - 0.01 - 0.02 inch³/cycle	



Fixing of pumping element inside eccentric ring groove

Eccentric ring growe

Pumping element



Filters

The installation of appropriate filters at the control unit inlet (for filling) and outlet is recommended. In order to ensure proper functioning of the system and that the lubricant intended for user points is free of impurities. The steel filters ensures a sure sealing and allows their use in centralized lubrication systems where high operating pressures (500 psi).

The minimum and maximum level sensor capacitive indicates when the minimum or maximum level of lubricant in the tank is reached, with an electrical signal to the control equipment.

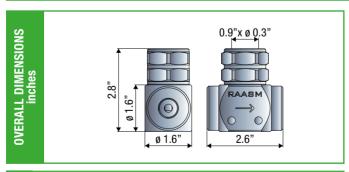
PRESSURE DISCHARGE SOLENOID VALVE

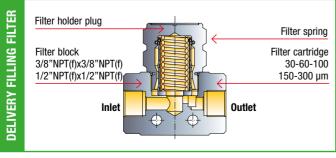
Filters. Highly recommended to ensure that the lubricant intended for user points is totally free of impurities, and proper functioning of the system.



Technical Characteristics

P/N	See table below	1581800-55
Typology	Oil and Grease	-
Max working pressure	7250 psi	-
Filtration degree	30 - 60 - 100 - 150 - 300 μm	-
Lubricant inlet connection	3/8" NPT (f) - 1/2" NPT (f)	-
Lubricant outlet connection	3/8" NPT (f) - 1/2" NPT (f)	-
Voltage	-	10 - 30 VDC
Max outlet current	-	200 mA max
Protection degree	-	IP 67
Contact	-	PNP
Working temperature	- 13 °F / + 140 °F	- 13 °F / + 140 °F
Lubricant	Oil > 40 cSt - Greases max NLGI 2	Oil > 40 cSt - Greases max NLGI 2





Lubricant	P/N	Connection	Filtration degree (µm)
	2080900-55		30
	2080930-55	3/8" NPT (f)	60
	2080950-55		100
	2080800-55	2/0" NDT /6	150
OIL AND	2080801-55	3/8" NPT (f)	300
GREASE	2080901-55		30
	2080931-55	1/2" NPT (f)	60
	2080951-55 2080850-55	100	
		150	
	2080851-55	1/2" NPT (f)	300



The control manifold with pressure switch, in white galvanized steel controls the delivery pressure of each line. It sends an alarm signal if the measured pressure is higher than a predefined value.

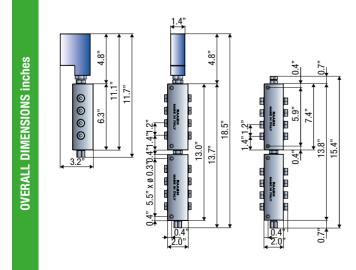
For example, this can occur in case of an obstruction on a pipe or at a user point. It is able to manage up to 8 delivery points. For more than 8 delivery points and up to 16 connect in series another manifold. It is also provided with a discharge outlet on the bottom of the manifold block. Each inlet is equipped with a single-acting valve with 1/4"NPT (f) connection. Control pressure switch group, allows to check if the overpressure valve in the control manifold works properly, by simulating an obstruction.

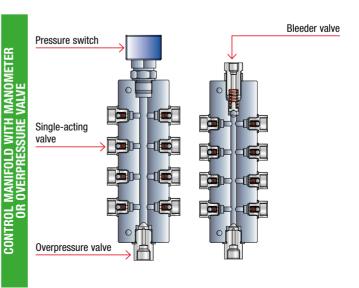


Technical Characteristics

	Control manifold	Control pressure switch group
P/N	see table below	2581200-55
Max working pressure	5800 psi	5800 psi
Electric contact	with clamps	-
Inlet connections	1/4" NPT (f)	-
Working temperature	- 13 °F / + 140 °F	-
Lubricant	Oil > 40 cSt - Greases max NLGI 2	Oil > 40 cSt - Greases max NLGl 2
Inlet/outlet connections	-	3/8" NPT (f)

Inlet	P/N	Control	Working pressure (psi)	Protection degree		
8	2581300-55	Pressure switch and	from 290 to 5800	IP55		
16	2581310-55	overpressure valve	from 290 to 5800	IP55		
8	2581330-55	Overpressure velve	from 290 to 5800	-		
16	2581340-55	Overpressure valve	from 290 to 5800	-		







System control board

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

CONTROL EQUIPMENT

200÷500 V AC 50/60 Hz







Technical Characteristics

P/N	2170031-55	2170035-55	2170036-55
Proper for pump	C25S	C25S	C25S
Voltage	200÷500 V AC	200÷500 V AC	200÷500 V AC
Power consumed *	1500 W max	1500 W max	1500 W max
Button start /stop	NO	YES	YES
Light allarm	NO	YES	YES
Light filling	NO	YES	NO
Tank full light	NO	YES	NO
Trasparent window	NO	YES	YES
Filling control	NO	NO	YES
Protection rating	IP54	IP55	IP55
Working temperature	- 13°F / +140 °F	- 13°F / +140 °F	- 13°F / +140 °F
* 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 the practice flexible membrane keyboard. Within the cassette is accessed to the hardware part (components and connections, remote control switches, fuses, etc.).

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

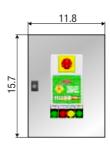


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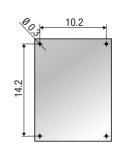
Input signals
Start/Stop remote
Cycle-counter/Pressure switch L1
Cycle-counter/Pressure switch L2
Low level tank
Safety pressure switch
maximum pressure
Thermal protection
three-phase motors
Remote stand by cycle
Micro-inverter L1
Micro-inverter L2
Remote emergency button

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



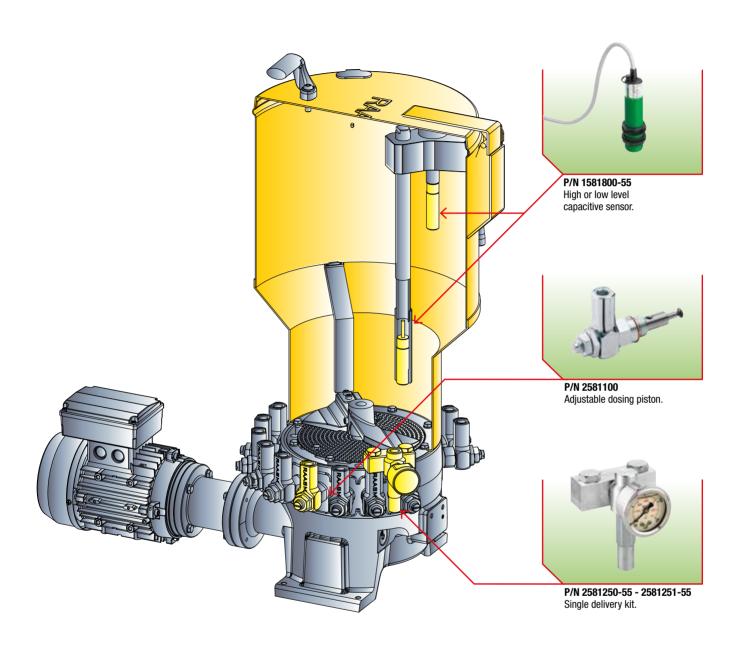






Packing-ft ³		1-1.1
Net weight lb	ů	33.0-34.0
Gross weight lb	A	34.4-34.9

Pump accessories for series C15S



P/N	Description	Connection	Flow rate/Pressure
1581800-55	High or low level capacitive sensor	M 18 x 1	-
2581100-55	Adjustable dosing piston ø 0.03"	M 22 x 1,5	0.02 inch³/cycle
2581250-55	2 deliveries union bridge kit	1/4" NPT (m)	-
2581251-55	2 deliveries union bridge kit with manometer	1/4" NPT (m)	-

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 C25S

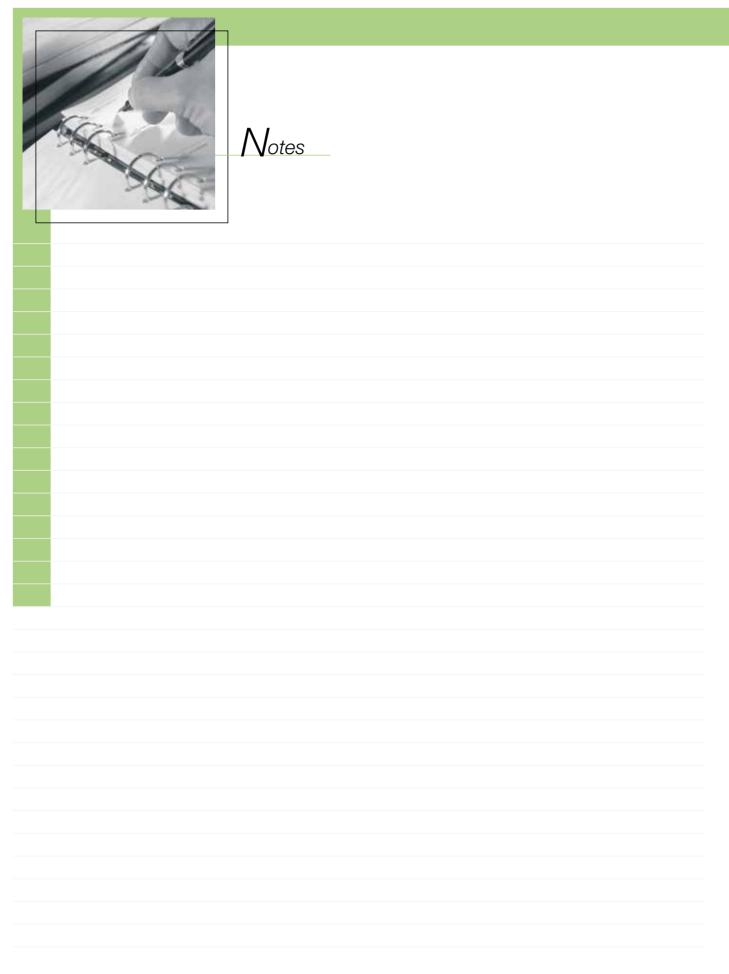
Series		ficant pe		Tank apaci		Po	les		No. Pumping elements								Red	ucer	Lev	el con	ntrol							
C25S	G	0	20	60	139	4	6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	3	7	0	L	Υ
System 25 Multi-delivery	Grease (max NLGI 2)	0ii(> 40 cSt)	ql	q	q	4 polees	seelod 9	1 pumping element	2 pumping elements	3 pumping elements	4 pumping elements	5 pumping elements	6 pumping elements	7 pumping elements	8 pumping elements	9 pumping elements	10 pumping elements	11 pumping elements	12 pumping elements	13 pumping elements	14 pumping elements	15 pumping elements	16 pumping elements	R 35:1	R 70:1	without minimum level	with minimum level	with minimum and maximum level
*****	···.	••••••	••••	······		·····	••••	•••••														/						
C	25S			G			1				6				1				10				7				L	







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- Agricultural machinery













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