Special Solutions

OM Pumps

These are designed for dosing diluted MAGNESIUM OXIDE slurry into diesel. Working with the manufacturers of the magnesium oxide slurry, since 1980 the OM pump has been specifically designed with special wetted materials for this application. It is available with both spring and positive return mechanism (flow rates up to 68 litres per hour, 18 GPH and operating pressures up to 50 bar g, 725 PSI g).



MHBN/MHCN Pumps

- Filter aid (kieselgur) dosing

OBL is a world leader in the manufacture of metering pumps for FILTER AIDS, used for wine, beer and fruit juice filtration. These are diatomaceous earths known as Kieselgur. A range of pumps is available including lip seal plunger pump, mechanical diaphragm and hydraulically actuated diaphragm. These meet the general requirements for flow rates and pressure (100 litres per hour, 26,5 GPH at 10 bar g, 145 PSI g).



HV Pumps

- High viscosity dosing

Specifically designed to handle high VISCOSITY PRODUCTS the HV pumps are available in packed plunger version only with either spring or positive return mechanisms. These pumps are capable of handling products with a viscosity up to 55,000 cP with each head capable of achieving flow rates of up to 150 l/h (40 GPH).



CN Pumps
- Microdosing

These pumps are designed to handle EXTREMELY LOW FLOW RATES where continuous dosing is required. These packed plunger pumps are able to control down to addition levels of 15 ml/h (0.04 GPH) at a maximum pressure of 40 bar g (600 PSI g) due to the unique OBL packed plunger design and the use of exotic materials for valves components.



Pump type RB 16 MA 36 OM

5 l/h @ 40 bar g spring return mechanism.



Pump type MHBN100 PP

The type of pump that best meets both the technical and economic requirements is the MHBN/MHCN versions.

These are specially designed with PP heads, FDA silicone seals and an AISI 316L seats and balls coupled with the OBL unique PTFE mechanical



Pump type RCC 16 HV 50 DV

6 l/h 10 bar g. Spring return mechanism.



Pump type RCN 6A 70 TL

500 ml/h max capacity 40 bar g max pressure 1% step dial STD manual adjustment.





OBL s.r.l.

Via Kennedy, 12

⊠info@obl.it

Tel. +39-02.269191

Fax +39-02.2133893

www.obl.it,

20090 Segrate - MILANO





















- All OBL pumps, can be equipped with Z type electrical actuator, with
- IP 66 STD (standard)
- Manual emergency override
- Anticondensation heather (on demand)
- Non standard voltages and
- External automatic/manual selector

Flow rate is adjusted according to

- 4-20 mA, 0-20 mA, 20-4 mA e 0-10 V
- Pulses (0÷2 Hz 0÷30 Hz)



Z type actuator vertically fitted on XL pump ((hydraulic diaphragm to API 675 STD).



Z type actuator vertically fitted on LX9 pump (hydraulic diaphragm to API 675 STD).



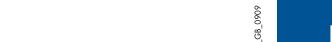
Z type actuator horizontally fitted on XRN pump (hydraulic diaphragm).



Detail of Analogical reading (1% steps).





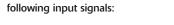




ELECTRIC ACTUATOR

- following characteristics:

- frequencies



- RS 485 protocol
- Profibus DP V Ø



MECHANISM

FLOW RATE

DESCRIPTION

CHARACTERISTICS

Spring Return

pump;

components;

300

Black anodizing Aluminium casing;

Simple and robust spring return plunger

Low cost, due to reduced number of

• Single and multiple arrangement.

Ideal for metering of mild or non-aggressive

300

Plunger

RBA-RBB BLACKLine RCC BLACK Spring Return

300

Black anodizing Aluminium casing;

Simple and robust spring return plunger

Low cost, due to reduced number of

Ideal for metering of mild or non-aggressive

ATEX STD compliance (94/9/CE), group II

BA L/h 7 15 20 38 55 90 150 200 300 bar max 10 10 10 10 10 10 10 0 9 5 bar max 40 40 30 23 12 10 7 5 4 BB L/h 5,5 11 30 55 90 150 200 250 300 bar max 40 40 30 23 12 10 7 5 4

category 2 (zone 1/21) and group II

• Single and multiple arrangement.

category 3 (zone 2/22).

components;





TS bar max 400 370 350 250 230 220 165 160 150 -





Hydraulic Diaphragm

5	X9	API 675
)		
	Positive Return	

LP X9 L/h 30 35 42 52 60 76 95 120 185 230 TS bar max 350 350 350 350 350 350 30 310 220 155 140



Mechanical Diaphragm



Metering Pumps

Spring	Return	Positive Return								
Type L/h	RH 620	Type L/h	LP 5500							
Low comp Ideal fluids ATEX category	cost, due to reduced number of conents; for metering of mild or non-aggressive	 Heavy contin Suital where ATEX categ categ Multi 	y-duty con nuous (24 ble for hig e accuracy STD com ory 2 (zon ory 3 (zon ple pump	nstruction hour) ind th pressure and relia upliance (9 ne 1/21) ar ne 2/22).	designed a ustrial ope e application ability are of 4/9/CE), g and group II ment with es/1'.	for eration; ons essential; roup II				

Positi	ve Retur	n				THE PARTY OF THE P						Sprir	ng l	Ret	turr					
Туре	e LY		L	K		LI	N		LI	•		Тур	е				>	(RI	١	
L/h	400		13	00		380	00		550	00		L/h	T				1	05		
Heacon Sui who ATI cate cate Mu	AVY-duty of the theory of the	cons 24 h nigh ncy a omp cone	pre and lian 2 1/2 2 2/2	rel ce (21) and ce (21) and ce (21) and ce (21).	n de dus re a iabi 94/ and	esign appl lity 9/C gro	ned op icat are E),	for era- ion ess gro II	tion s sent up l	ial;		 Co the hydrogen sys Builting processing processi	mb e sp drau echa ilt-in ilt-in mim EX ego	ical refined in extending in refined in refi	ly a turr s the dia dia dia dia light sed ons; n m	dva n pu he s turn phr vac in in in aint	nce imp imp iagn tuat ve o p as both	d hy;; blicit th t n us ed c on tl gain n pr nce	ydra yy ar he a ing he o st o oces req	auliond of advisor and epole opil cover ass a
LY	L/h 1,5 bar max 150	100	100	15	70	40	18	11	8	400 6,5		XRN	_	max		35	35	35	10 35	_
LK	L/h 30 bar max 100	90	80	70	35	25	12	7	6	1300			bar	L/h max		87	105	-	-	-
LN	L/h 150 bar max 90	50		20	16	8	6	5	4	3800										
LP	L/h 230 bar max 90	340 80	540 55	750 40	1100 27	1800 15		3200 9	4500 6	5500										
LY TS	L/h 2 bar max 300	300	300	5,5	6,5	10	13 140	-	-	-										
LK TS	L/h 3,5	5	7	10	15	20	25	30	42	-										
	bar max 400 L/h 14	400	400	350 26	230 34	220 40	160 48	140 58	120 75	105										
LN TS	bar max 400		375			250		-		110										
LP	L/h 48	58	70	75	90	105	135	165	195	-										

				Alfred Co											
rn	Positive	e Return		Positive	e Return	Positive Return									
XRN	Туре	XL	XLB	Туре	XLC	Туре	LY X9	LK X9	LN X9	LP X9					
105	L/h	480	430	L/h	1300	L/h	270	1050	2600	3700					
advanced hydraulic diaphragm rn pump; the simplicity and economics of return with the advantages of the liaphragm using an innovative lly actuated oil replenishing ef valve on the oil circuit to pump against over pressure; ed in both process and service s; maintenance required; compliance (94/9/CE), group II (zone 1/21) and group II (zone 2/22).	 Low of comp Built-prote Can be applied Minir ATEX categorates Multi 	nically advanced hydror return pump (A cost, due to reduced conents; in relief valve on the cot the pump against one used in both processions; mum maintenance record (STD compliance (94) and any 3 (zone 1/21) and any 3 (zone 2/22). ple pumps arrangen materials and strokers.	anumber of e oil circuit to e over pressure; eess and service equired; ad group II ad group II	 Low co Extrer positive diapher repler Built-iprotec Can be appliced Minin ATEX categoricatego Multiperson Multiperson 	pically advanced hydraulic diaphragm we return pump (API 675); cost, due to reduced number of components; me reliability and durability due to over return and double hydraulic ragm with mechanically actuated nishing (smart diaphragm); on relief valve on the oil circuit to cet the pump against over pressure; the eused in both process and service rations; num maintenance required; STD compliance (94/9/CE), group II ory 2 (zone 1/21) and group II ory 3 (zone 2/22). ple pumps arrangement with different materials and strokes/1'	positive return and double hydraulic diaphragm with mechanically actuated replenishing (smart diaphragm); • Sealess ceramic plunger guarantees low NPSHr and minimum maintenance; • Extreme safety due to built-in relief valve and innovative double diaphragm design; • SS 316L sandwich diaphragm for operating pressures above 250 barg; • ATEX STD compliance (94/9/CE), group II category 2 (zone 1/21) and group II category 3 (zone 2/22).									
3.8 2 4,5 6 10 13 20 33 42 50 10 35 35 35 35 35 20 15 15 10 66 87 105 - - - - - - - - 8 8 8 - - - - - - -	VLD	L/h 63 105 155 215 nr max 15 15 15 15 L/h 63 105 155 215 nr max 30 30 30 30 30	15 15 14 13 10 260 320 370 430 -	XLC ba	L/h 350 550 750 920 1150 1300	LK X9 bi	ar max 125 12 L/h 49 14 ar max 70 43 L/h 60 16 ar max 100 80 L/h 90 23 ar max 100 10 L/h 2,5 4 ar max 250 25 L/h 3 5 ar max 300 30 L/h 30 33	5 125 125 93 3 87 211 1: 8 40 28 2 0 230 415 66 0 60 32 2 5 415 295 66 0 80 60 4 6 7 0 250 200 7 9 1 0 300 300 25 6 43 54 66		0 22 14 50 520 1050 1 10 5,5 00 1660 2600 5 8 5 90 2090 3700 1 12 8 20 150 -					

		U							
Spring	Return		Spring	Return	Positive	Return	MECHANISM		
Туре	МВ	MC	Туре	MD	Туре	MLK	FLOW RATE		
L/h	155	420	L/h	520	L/h	1100	MLN 2000		
Simple diaphe Low compe Uses recombine pump advan Suitab Mining	anodizing Aluminius and robust spring ragm pump; ost, due to reduced onents; mechanically actuatine the characteristic (linear flow rate) witages of a diaphragule for batching openum maintenance read multiple arran	return mechanical number of ed diaphragm to cs of a plunger ith the sealing m pump; ration; equired.	 Simple diaph Uses comb pump advar Suital Minin ATEX categ 	anodizing Aluminium casing; le and robust spring return mechanical bragm pump; mechanically actuated diaphragm to bine the characteristics of a plunger of (linear flow rate) with the sealing htages of a diaphragm pump; ble for batching operation; mum maintenance required; STD compliance (94/9/CE), group II fory 3 (zone 2/22). e and multiple arrangement.	 Comb the "L' sealing Suitab 520 I/ Minin ATEX catego 	ve return mechanical vines the construct vines the construct vines series (positive in g advantages of a vine) of the for duties with the vines maintenance (STD compliance (vines) or y 3 (zone 2/22).	DESCRIPTION		
MC -	L/h 11 16 23 31 r max 12 12 12 10 L/h 100 132 197 260 r max 7 7 7 7	50 75 101 120 155 10 8 8 7 7 320 420 - - - 5 5 - - -	MD ba	L/h 1,5 7 11 31 75 101 132 260 320 420 520 L/m max 12 12 12 10 10 10 8 7 6 6 5	MIN	/h 360 420 500 600 750 max 7 7 7 4 4 /h 1340 1600 2000 max 4 4 4 4		CHARACTERISTICS	