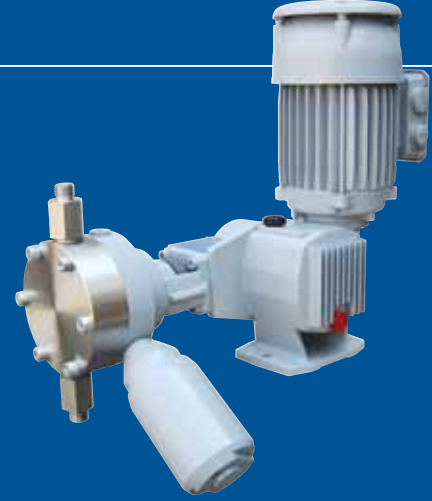


## Special Solutions

### OM

#### OM Pumps - Magnesium oxide slurry dosing

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).



Pump type RB 16 MA 36 OM

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

### MHN

#### 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).



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 diaphragm.**

### HV

#### 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).



Pump type RCC 16 HV 50 DV

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

### CN

#### 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 RCN 6A 70 TL

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



# OBL

Quality System ISO 9001 Certified

#### OBL s.r.l.

20090 Segrate - MILANO

Via Kennedy, 12

Tel. +39-02.269191

Fax +39-02.2133893

www.oblitalia.com

obl.info@idexcorp.com

## Metering Pumps

studio\_SCAFDI > Comunicazione/Visive



DPL\_CB\_0111

## Electric Actuator

### ELECTRIC ACTUATOR

All **OBL** pumps, can be equipped with **Z** type electrical actuator, with following characteristics:

- IP 66 STD (standard)
- Manual emergency override
- Anticondensation heater (on demand)
- Non standard voltages and frequencies
- External automatic/manual selector

Flow rate is adjusted according to following input signals:

- 4-20 mA, 0-20 mA, 20-4 mA e 0-10 V
- Pulses (0+2 Hz - 0+30 Hz)
- RS 485 protocol
- Profibus DP - V Ø



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).

## The Metering Evolution



# Metering Pumps



## Plunger

<b>RBA-RBB</b> <b>BLACKLine</b>		<b>RCC</b> <b>BLACKPlus</b> <span>Ex</span>		<b>R</b> <span>Ex</span>		<b>L</b> <b>API 675</b> <span>Ex</span>																																																																																																																															
Spring Return		Spring Return		Spring Return		Positive Return																																																																																																																															
Type	RBA	RBB	Type	RCC	Type	RH	Type	LY	LK	LN	LP																																																																																																																										
L/h	300	300	L/h	300	L/h	620	L/h	400	1300	3800	5500																																																																																																																										
<p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>Black anodizing Aluminium casing;</li> <li>Simple and robust spring return plunger pump;</li> <li>Low cost, due to reduced number of components;</li> <li>Ideal for metering of mild or non-aggressive fluids.</li> <li>Single and multiple arrangement.</li> </ul>																																																																																																																																					
<p><b>CHARACTERISTICS</b></p> <table border="1"> <tr> <td><b>RBA</b></td> <td>L/h</td> <td>7</td> <td>15</td> <td>20</td> <td>38</td> <td>55</td> <td>90</td> <td>150</td> <td>200</td> <td>300</td> </tr> <tr> <td>bar max</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td>9</td> <td>9</td> <td>5</td> </tr> <tr> <td><b>RBB</b></td> <td>L/h</td> <td>5.5</td> <td>11</td> <td>30</td> <td>55</td> <td>90</td> <td>150</td> <td>200</td> <td>250</td> <td>300</td> </tr> <tr> <td>bar max</td> <td>40</td> <td>40</td> <td>30</td> <td>23</td> <td>12</td> <td>10</td> <td>7</td> <td>5</td> <td>4</td> <td>4</td> </tr> </table> <table border="1"> <tr> <td><b>RCC</b></td> <td>L/h</td> <td>4</td> <td>11</td> <td>20</td> <td>30</td> <td>55</td> <td>90</td> <td>120</td> <td>160</td> <td>200</td> <td>250</td> <td>300</td> </tr> <tr> <td>bar max</td> <td>40</td> <td>40</td> <td>40</td> <td>40</td> <td>26</td> <td>12</td> <td>10</td> <td>9</td> <td>8</td> <td>6</td> <td>5</td> <td>5</td> </tr> <tr> <td><b>RCC TS</b></td> <td>L/h</td> <td>2</td> <td>2.8</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>10</td> <td>15</td> <td>18</td> <td>-</td> <td>-</td> </tr> <tr> <td>bar max</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>80</td> <td>60</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> <table border="1"> <tr> <td><b>RH</b></td> <td>L/h</td> <td>44</td> <td>60</td> <td>64</td> <td>86</td> <td>150</td> <td>176</td> <td>240</td> <td>300</td> <td>410</td> <td>500</td> <td>620</td> </tr> <tr> <td>bar max</td> <td>40</td> <td>35</td> <td>32</td> <td>23</td> <td>12</td> <td>10</td> <td>8</td> <td>7</td> <td>5</td> <td>4</td> <td>3.5</td> <td>3.5</td> </tr> </table>												<b>RBA</b>	L/h	7	15	20	38	55	90	150	200	300	bar max	10	10	10	10	10	10	10	9	9	5	<b>RBB</b>	L/h	5.5	11	30	55	90	150	200	250	300	bar max	40	40	30	23	12	10	7	5	4	4	<b>RCC</b>	L/h	4	11	20	30	55	90	120	160	200	250	300	bar max	40	40	40	40	26	12	10	9	8	6	5	5	<b>RCC TS</b>	L/h	2	2.8	4	5	6	7	10	15	18	-	-	bar max	100	100	100	100	100	100	100	80	60	-	-	-	<b>RH</b>	L/h	44	60	64	86	150	176	240	300	410	500	620	bar max	40	35	32	23	12	10	8	7	5	4	3.5	3.5
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## Hydraulic Diaphragm

<b>XRN</b> <b>BLACKPlus</b> <span>Ex</span>		<b>XL-XLB</b> <b>API 675</b> <span>Ex</span>		<b>XLC</b> <b>API 675</b> <span>Ex</span>		<b>X9</b> <b>API 675</b> <span>Ex</span>																																																																																																																																																																																																																																																																																																																		
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<p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>Black anodizing Aluminium casing;</li> <li>Technically advanced hydraulic diaphragm spring return pump;</li> <li>Combines the simplicity and economics of the spring return with the advantages of the hydraulic diaphragm using an innovative mechanically actuated oil replenishing system;</li> <li>Built-in relief valve on the oil circuit to protect the pump against over pressure;</li> <li>Can be used in both process and service applications;</li> <li>Minimum maintenance required;</li> <li>ATEX STD compliance (94/9/CE), group II category 3 (zone 2/22).</li> </ul>																																																																																																																																																																																																																																																																																																																								
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X9</b>	L/h	90	235	415	295	650	1095	1450	2590	2090	3700	bar max	100	100	80	60	48	30	15	11	12	8	<b>LY X9 TS</b>	L/h	2.5	4	6	7	-	-	-	-	-	-	bar max	250	250	200	-	-	-	-	-	-	-	-	<b>LK X9 TS</b>	L/h	3	5	7	9	11	18	22	-	-	-	bar max	300	300	300	270	250	235	-	-	-	-	-	<b>LN X9 TS</b>	L/h	30	35	43	54	63	80	100	120	150	-	bar max	220	220	200	200	180	160	110	100	-	-	<b>LP X9 TS</b>	L/h	30	35	42	52	60	76	95	120	185	230	bar max	350	350	350	330	310	220	155	140	-	-
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<b>LY X9 TS</b>	L/h	2.5	4	6	7	-	-	-	-	-	-																																																																																																																																																																																																																																																																																																													
bar max	250	250	200	-	-	-	-	-	-	-	-																																																																																																																																																																																																																																																																																																													
<b>LK X9 TS</b>	L/h	3	5	7	9	11	18	22	-	-	-																																																																																																																																																																																																																																																																																																													
bar max	300	300	300	270	250	235	-	-	-	-	-																																																																																																																																																																																																																																																																																																													
<b>LN X9 TS</b>	L/h	30	35	43	54	63	80	100	120	150	-																																																																																																																																																																																																																																																																																																													
bar max	220	220	200	200	180	160	110	100	-	-																																																																																																																																																																																																																																																																																																														
<b>LP X9 TS</b>	L/h	30	35	42	52	60	76	95	120	185	230																																																																																																																																																																																																																																																																																																													
bar max	350	350	350	330	310	220	155	140	-	-																																																																																																																																																																																																																																																																																																														

## Mechanical Diaphragm

<b>MB-MC</b> <b>BLACKLine</b>		<b>MD</b> <b>BLACKPlus</b> <span>Ex</span>		<b>ML</b> <span>Ex</span>																																																																																																																					
Spring Return		Spring Return		Positive Return																																																																																																																					
Type	MB	MC	Type	MD	Type	MLK	MLN																																																																																																																		
L/h	155	420	L/h	520	L/h	1100	2000																																																																																																																		
<p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>Black anodizing Aluminium casing;</li> <li>Simple and robust spring return mechanical diaphragm pump;</li> <li>Low cost, due to reduced number of components;</li> <li>Uses mechanically actuated diaphragm to combine the characteristics of a plunger pump (linear flow rate) with the sealing advantages of a diaphragm pump;</li> <li>Minimum maintenance required.</li> <li>Single and multiple arrangement.</li> </ul>																																																																																																																									
<p><b>CHARACTERISTICS</b></p> <table border="1"> <tr> <td><b>MB</b></td> <td>L/h</td> <td>11</td> <td>16</td> <td>23</td> <td>31</td> <td>50</td> <td>75</td> <td>101</td> <td>120</td> <td>155</td> </tr> <tr> <td>bar max</td> <td>12</td> <td>12</td> <td>12</td> <td>10</td> <td>10</td> <td>8</td> <td>8</td> <td>8</td> <td>7</td> <td>7</td> </tr> <tr> <td><b>MC</b></td> <td>L/h</td> <td>100</td> <td>132</td> <td>197</td> <td>260</td> <td>320</td> <td>420</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>bar max</td> <td>7</td> <td>7</td> <td>7</td> <td>7</td> <td>5</td> <td>5</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> <table border="1"> <tr> <td><b>MD</b></td> <td>L/h</td> <td>1.5</td> <td>7</td> <td>11</td> <td>31</td> <td>75</td> <td>101</td> <td>132</td> <td>260</td> <td>320</td> <td>420</td> <td>520</td> </tr> <tr> <td>bar max</td> <td>12</td> <td>12</td> <td>12</td> <td>10</td> <td>10</td> <td>8</td> <td>7</td> <td>6</td> <td>6</td> <td>6</td> <td>5</td> </tr> </table> <table border="1"> <tr> <td><b>MLK</b></td> <td>L/h</td> <td>360</td> <td>420</td> <td>500</td> <td>600</td> <td>750</td> <td>900</td> <td>1100</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>bar max</td> <td>7</td> <td>7</td> <td>7</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td><b>MLN</b></td> <td>L/h</td> <td>1340</td> <td>1600</td> <td>2000</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>bar max</td> <td>4</td> <td>4</td> <td>4</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>								<b>MB</b>	L/h	11	16	23	31	50	75	101	120	155	bar max	12	12	12	10	10	8	8	8	7	7	<b>MC</b>	L/h	100	132	197	260	320	420	-	-	-	bar max	7	7	7	7	5	5	-	-	-	-	<b>MD</b>	L/h	1.5	7	11	31	75	101	132	260	320	420	520	bar max	12	12	12	10	10	8	7	6	6	6	5	<b>MLK</b>	L/h	360	420	500	600	750	900	1100	-	-	-	bar max	7	7	7	4	4	3	3	-	-	-	<b>MLN</b>	L/h	1340	1600	2000	-	-	-	-	-	-	bar max	4	4	4	-	-	-	-	-	-	-
<b>MB</b>	L/h	11	16	23	31	50	75	101	120	155																																																																																																															
bar max	12	12	12	10	10	8	8	8	7	7																																																																																																															
<b>MC</b>	L/h	100	132	197	260	320	420	-	-	-																																																																																																															
bar max	7	7	7	7	5	5	-	-	-	-																																																																																																															
<b>MD</b>	L/h	1.5	7	11	31	75	101	132	260	320	420	520																																																																																																													
bar max	12	12	12	10	10	8	7	6	6	6	5																																																																																																														
<b>MLK</b>	L/h	360	420	500	600	750	900	1100	-	-	-																																																																																																														
bar max	7	7	7	4	4	3	3	-	-	-																																																																																																															
<b>MLN</b>	L/h	1340	1600	2000	-	-	-	-	-	-																																																																																																															
bar max	4	4	4	-	-	-	-	-	-	-																																																																																																															

# Metering Pumps

### MECHANISM

### FLOW RATE

### DESCRIPTION

### CHARACTERISTICS

Technical data subject to change without prior notice.