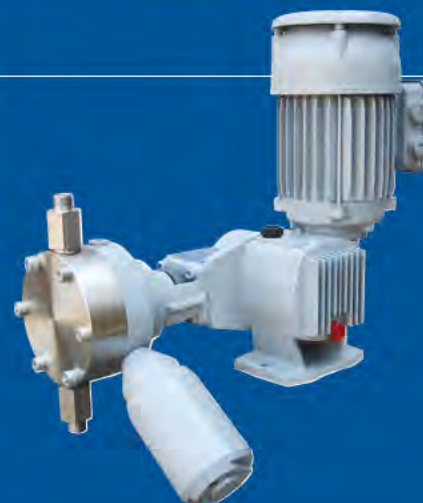


Special Solutions

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 s.r.l.

20090 Segrate - MILANO

Via Kennedy, 12

Tel. +39-02.269191

Fax +39-02.2133893

www.oblpumps.it

obl.info@idexcorp.com



Metering Pumps

audio_SCAFIDI - Comunicazioni



DPL_G8_0914

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

RBA-RBB BLACKLine



Spring Return

Type	RBA	RBB
L/h	300	300

- Black anodizing Aluminium casing;
- Simple and robust spring return plunger pump;
- Low cost, due to reduced number of components;
- Ideal for metering of mild or non-aggressive fluids.
- Single and multiple arrangement.

RBA	L/h	7	15	20	38	55	90	150	200	300
bar max	10	10	10	10	10	10	10	10	9	5
RBB	L/h	5.5	11	30	55	90	150	200	250	300
bar max	40	30	23	12	10	7	5	4		

RCC BLACKPlus



Spring Return

Type	RCC
L/h	300

- Black anodizing Aluminium casing;
- Simple and robust spring return plunger pump;
- Low cost, due to reduced number of components;
- Ideal for metering of mild or non-aggressive fluids;
- ATEX STD compliance (94/9/CE), group II category 2 (zone 1/21) and group II category 3 (zone 2/22).
- Single and multiple arrangement.

RCC	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	
RCC TS	L/h	2	2.8	4	5	6	7	10	15	18	-	-
bar max	100	100	100	100	100	100	100	80	60	-	-	-

R



Spring Return

Type	RH
L/h	620

- Simple and robust spring return plunger pump;
- Low cost, due to reduced number of components;
- Ideal for metering of mild or non-aggressive fluids;
- ATEX STD compliance (94/9/CE), group II category 2 (zone 1/21) and group II category 3 (zone 2/22).

RH	L/h	44	60	64	86	150	176	240	300	400	500	620
bar max	40	35	32	23	12	10	8	7	5	4	3.5	

L API 675



Positive Return

Type	LY	LK	LN	LP
L/h	400	1300	3800	5500

- API 675 positive return plunger pump;
- Heavy-duty construction designed for continuous (24 hour) industrial operation;
- Suitable for high pressure applications where accuracy and reliability are essential;
- ATEX STD compliance (94/9/CE), group II category 2 (zone 1/21) and group II category 3 (zone 2/22).
- Multiple pumps arrangement with different sizes, materials and strokes/1'.

LY	L/h	1.5	4.5	6.5	15	20	45	110	175	300	400
bar max	150	100	100	100	70	40	18	11	8	6.5	
LK	L/h	30	48	62	90	165	250	550	850	1000	1300
bar max	100	90	80	70	35	25	12	7	6	4	
LN	L/h	150	230	420	650	900	1500	2150	2700	3200	3800
bar max	90	50	20	16	8	6	5	4	3.5		
LP	L/h	230	340	540	750	1100	1800	2500	3200	4500	5500
bar max	90	80	55	40	27	15	10	9	6	5	
LY X9	L/h	2	3	4	5.5	6.5	10	13	-	-	-
bar max	300	300	300	300	160	150	140	-	-	-	-
LK X9	L/h	3.5	5	7	10	15	20	25	30	42	-
bar max	400	400	400	350	230	220	160	140	120	-	-
LN X9	L/h	14	20	21	26	34	40	48	58	75	105
bar max	400	400	375	350	260	250	230	200	150	110	
LP X9	L/h	48	58	70	75	90	105	135	165	195	-
bar max	400	370	350	250	230	220	165	160	150	-	-

Hydraulic Diaphragm

XRN BLACKPlus



Spring Return

Type	XRN
L/h	105

- Black anodizing Aluminium casing;
- Technically advanced hydraulic diaphragm process pump;
- Combines the simplicity and economics of the mechanism with the advantages of the hydraulic diaphragm using an innovative mechanically actuated oil replenishing system;
- Built-in relief valve on the oil circuit to protect the pump against over pressure;
- API 675 - like performances with variable on site press. relief valve;
- Minimum maintenance required;
- ATEX STD compliance (94/9/CE), group II category 2 (zone 1/21) and group II category 3 (zone 2/22).

XRN	L/h	0.6	1.5	2	4.5	6	10	13	20	26	32
bar max	20	20	40	40	40	40	40	20	13	13	
XRN	L/h	42	50	66	105	-	-	-	-	-	-
bar max	13	8	6	6	-	-	-	-	-	-	-

XLA API 675



Positive Return

Type	XLA
L/h	20

- Technically advanced hydraulic diaphragm positive return pump (API 675);
- Low cost, due to reduced number of components;
- Extreme reliability and durability due to positive return and double hydraulic diaphragm with mechanically actuated replenishing (smart diaphragm);
- Variable on site built-in relief valve on the oil circuit to protect the pump against over pressure;
- Minimum maintenance required;
- Multiple pumps arrangement with different sizes, materials and strokes/1'.

XLA	L/h	1	1.5	2.2	3.3	4.5	5.3	6.5	8.1	9	11
bar max	130	130	130	130	130	130	130	130	100	100	
XLA	L/h	14.5	18	22.5	-	-	-	-	-	-	-
bar max	80	60	60	-	-	-	-	-	-	-	-

XL-XLB-XLC API 675



Positive Return

Type	XL	XLB	XLC
L/h	480	430	1300

- Technically advanced hydraulic diaphragm positive return pump (API 675);
- Low cost, due to reduced number of components;
- Extreme reliability and durability due to positive return and double hydraulic diaphragm with mechanically actuated replenishing (smart diaphragm);
- Built-in relief valve on the oil circuit to protect the pump against over pressure;
- Can be used in both process and service applications;
- Minimum maintenance required;
- ATEX STD compliance (94/9/CE), group II category 2 (zone 1/21) and group II category 3 (zone 2/22).
- Multiple pumps arrangement with different sizes, materials and strokes/1'.

XL	L/h	63	105	155	215	260	320	370	430	480
bar max	15	15	15	15	15	15	14	13	10	
XLB	L/h	63	105	155	215	260	320	370	430	-
bar max	30	30	30	30	30	30	25	20	-	-
XLC	L/h	350	550	750	920	1150	1300	-	-	-
bar max	20	20	20	17	15	12	-	-	-	-

X9 API 675



Positive Return

Type	LY X9	LK X9	LN X9	LP X9
L/h	270	1050	2600	3700

- Double diaphragm process metering pump (API 675);
- Extreme reliability and durability due to positive return and double hydraulic diaphragm with mechanically actuated replenishing (smart diaphragm);
- Seals 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 available on demand;
- ATEX STD compliance (94/9/CE), group II category 2 (zone 1/21) and group II category 3 (zone 2/22).
- Multiple pumps arrangement with different sizes, materials and strokes/1'.

LY X9	L/h	0.5	1.5	3	10	33	15	25	100	170	270
bar max	125	125	125	125	90	60	40	30	22	14	
LK X9	L/h	49	143	211	137	330	230	560	520	1050	
bar max	70	43	40	28	25	18	15	11	10	5.5	
LN X9	L/h	60	160	230	415	648	500	1050	1660	2600	
bar max	100	80	60	32	25	22	16	15	8	5	
LP X9	L/h	90	235	415	295	650	1095	1450	2590	3700	
bar max	100	100	80	60	48	30	15	11	12	8	
LY X9 TS	L/h	2.5	4	6	7	-	-	-	-	-	
bar max	250	250	200	-	-	-	-	-	-	-	
LK X9 TS	L/h	3	5	7	9	11	18	22	-	-	
bar max	300	300	300	300	270	250	235	-	-	-	
LN X9 TS	L/h	30	35	43	54	63	80	100	120	150	
bar max	220	220	200	200	180	160	110	100	-	-	
LP X9 TS	L/h	30	35	42	52	60	76	95	120	185	
bar max	350	350	350	350	330	310	220	155	140		

Mechanical Diaphragm

MB-MC BLACKLine



Spring Return

Type	MB	MC
L/h	155	420

- Black anodizing Aluminium casing;
- Simple and robust spring return mechanical diaphragm pump;
- Low cost, due to reduced number of components;
- Uses mechanically actuated diaphragm to combine the characteristics of a plunger pump (linear flow rate) with the sealing advantages of a diaphragm pump;
- Minimum maintenance required.
- Single and multiple arrangement.

MB	L/h	11	16	23	31	50	75	101	120	155
bar max	12	12	10	10	10	8	8	7	7	
MC	L/h	100	132	197	260	320	420	-	-	-
bar max	7	7	7	5	5	-	-	-	-	-

MD BLACKPlus



Spring Return

Type	MD
L/h	520

- Black anodizing Aluminium casing;
- Simple and robust spring return mechanical diaphragm pump;
- Uses mechanically actuated diaphragm to combine the characteristics of a plunger pump (linear flow rate) with the sealing advantages of a diaphragm pump;
- Minimum maintenance required;
- ATEX STD compliance (94/9/CE), group II category 3 (zone 2/22).
- Single and multiple arrangement.

MD	L/h	1.5	7	11	31	75	101	132	260	320	420	520
bar max	12	12	10	10	10	8	7	6	6	5		

ME



Spring Return

Type	ME
L/h	1500

- Black anodizing Aluminium casing;
- Simple and robust spring return mechanical diaphragm pump;
- Uses mechanically actuated diaphragm to combine the characteristics of a plunger pump (linear flow rate) with the sealing advantages of a diaphragm pump;
- Minimum maintenance required;
- Single arrangement only.

ME	L/h	750	1100	1250	1500
bar max	7	7	6	5	

Metering Pumps

MECHANISM

FLOW RATE

DESCRIPTION

CHARACTERISTICS

Technical data subject to change without prior notice