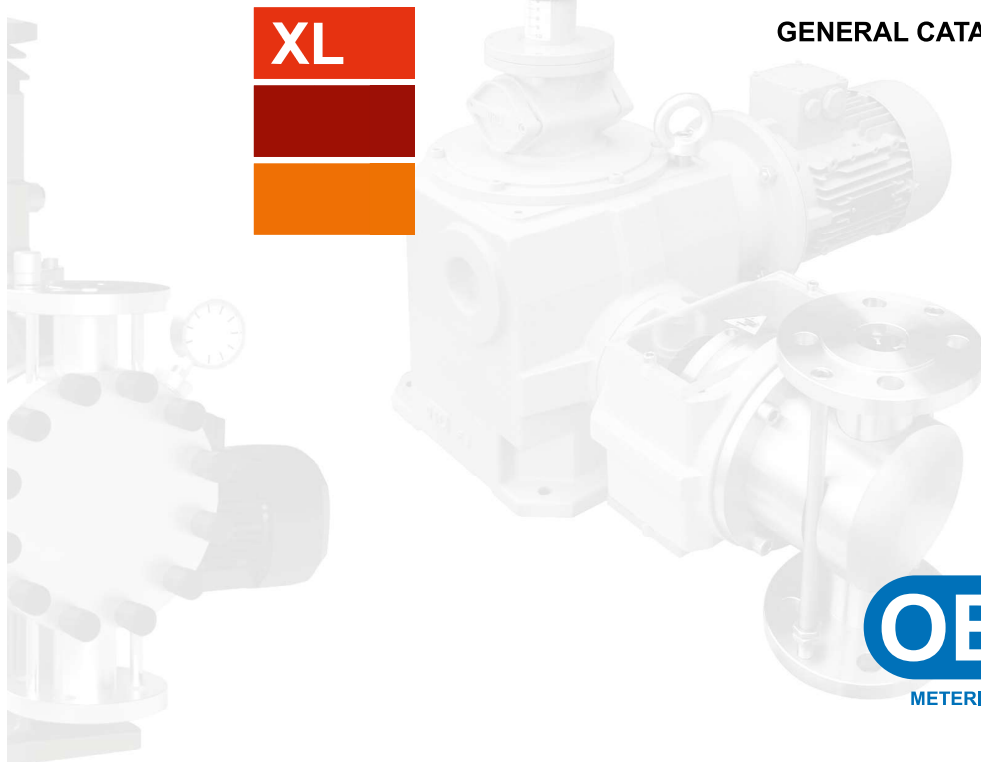


DIAPHRAGM AND PLUNGER PROCESS METERING PUMPS

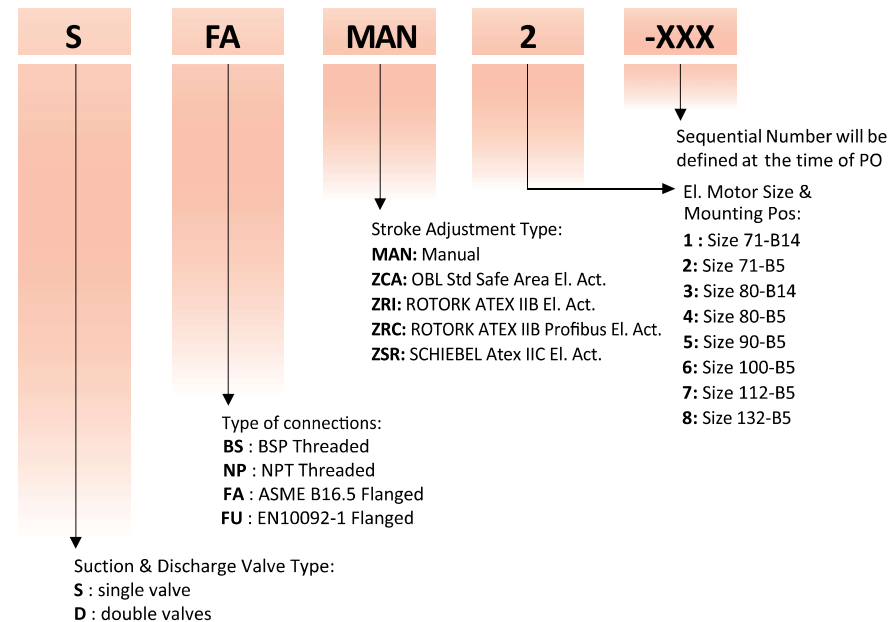
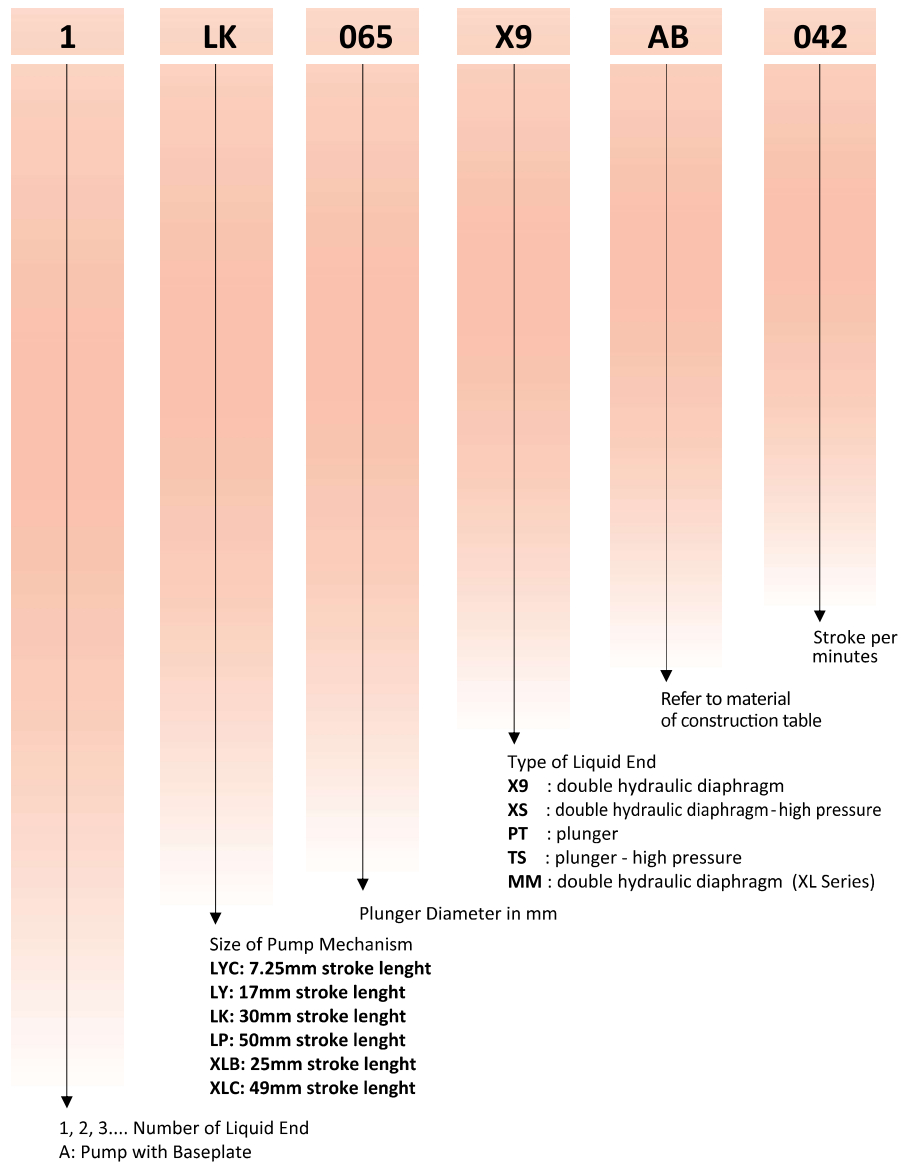
XL

GENERAL CATALOGUE



OBL
METERING PUMPS

PUMPS CODIFICATION



Markets & Applications

OBL pumps are designed to cover the needs of your system and other applications listed below:

WATER & WASTE WATER TREATMENT



- Coagulants and Flocculants dosing
- Chlorination
- Dosing of reagents for pH control
- Dosing of anti-scaling and de-oxygenating reagents
- Chemical physical plant

OIL & GAS - ONSHORE & OFFSHORE



- Chemical injection for oil & gas
- Dye injection for fuels
- Offshore chemical metering system
- Proportional injection in pipelines

CHEMICAL & PETROCHEMICALS



- Pipeline proportional Injection
- Continuous production of liquid detergents
- Liquid soap production
- Resin blending system
- Water treatment

POWER PLANTS



- Dosing of phosphates, hydrazine and other oxygen scavengers
- Combustion optimization for oil fired power stations

MINING



- Ore Separation: Leaching process (cyanides, sulphuric acid, solvents, etc.).
- Flotation collectors (polymers, etc). Defoamers emulsifiers. Depressants and Dispersant chemicals (Iron sulfide).
- Dust control (Dosing of wetting chemicals).

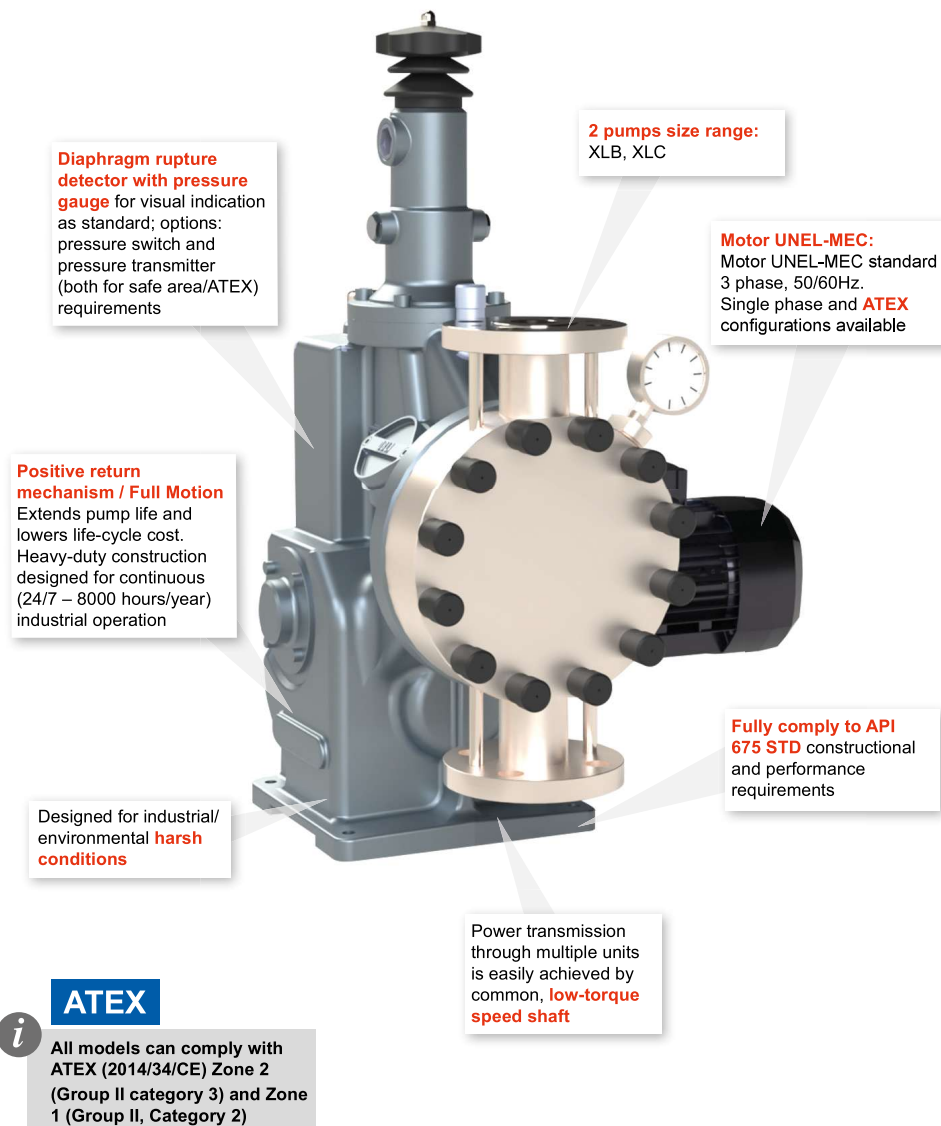
PULP & PAPER



- Whitening and Bleaching process (Hydrogen Peroxide, Hypochlorite, Chlorine).
- Sizing (fillers, e.g. starch, polymers), Strengthening (Urea based chemicals, etc.), Pigmentation (dyes, pigments, etc).
- De-inking chemicals in recycling paper process (Sodium Silicates, Sodium Hydroxide, Lime, Calcium Chloride, etc.).

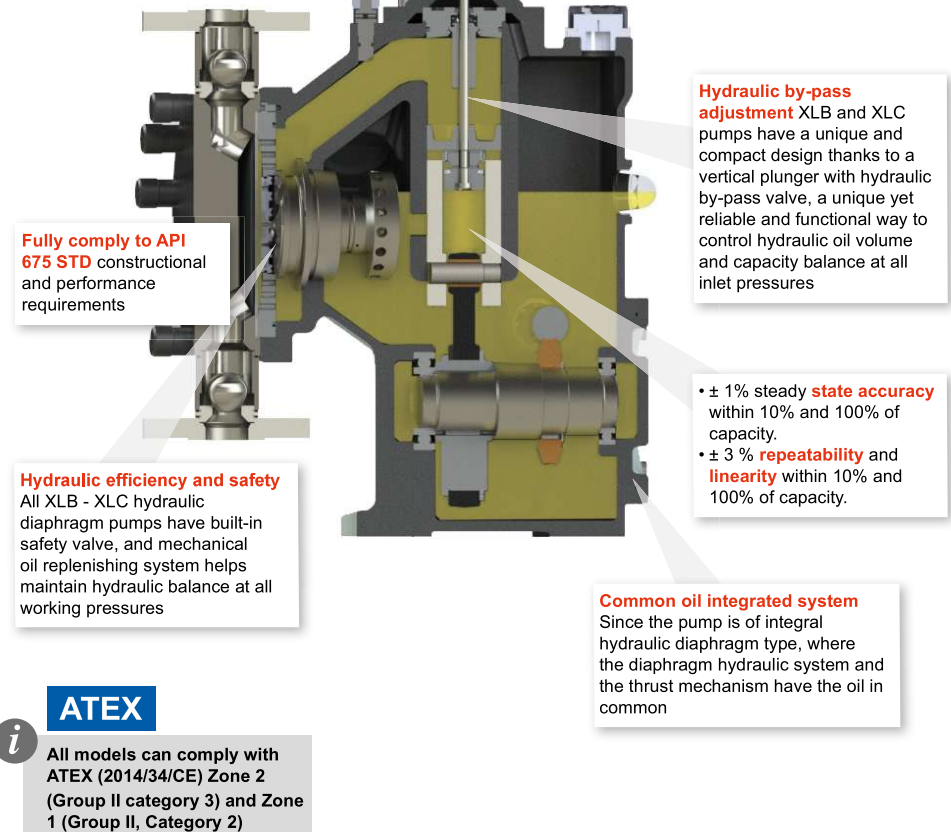
Approvals & References





High precision manual settings
XLB and XLC models have as standard a high-resolution manual adjustment readout with 0,1% increments, very useful for precisely setting the capacity manually

Air-bleed valve
XLB and XLC hydraulic diaphragm benefit from an automatic air-bleed valve. The valve eliminates air entrapped in the hydraulic system to maintain working pressure and volumetric efficiency. The valve operates automatically and does not require any action or maintenance from the operator




Individual capacity adjustment for each pumphead:

Standard manual adjustment via graduated knob, or optional electric or pneumatic stroke actuator.

Greater flexibility of applications

Multi-head options:

- different materials (metallic and non metallic)
- different duty points (various flow rates and pressures)
- different pump model, strokes and size.

Greater flexibility in pump selection

XLB HYDRAULIC DIAPHRAGM METERING PUMP

► Technical data for 50 Hz

PUMP	STROKES PER MIN.	CAPACITY L/H	MAX. BUILT IN RELIEF VALVE SET PRESSURE (bar)	CONNECTIONS		
				THREADED	FLANGED	
			A		UNI EN10092-1	ASME B16.5
XLB 15.50	40	63	40	1/2" BSP f	15	1/2"
	60	105	40	1/2" BSP f	15	1/2"
XLB 25.50	82	155	30	1/2" BSP f	20	3/4"
	100	215	30	1/2" BSP f	20	3/4"
	123	260	30	3/4" BSP f	20	3/4"
	140	320	30	3/4" BSP f	20	3/4"
	160	370	25	1" BSP f	25	1"
		430	20	1" BSP f	25	1"

PUMP	STROKES PER MIN.	CAPACITY L/H	MAX. BUILT IN RELIEF VALVE SET PRESSURE (bar)		CONNECTIONS	
			U	S	FLANGED	
					UNI EN10092-1	ASME B16.5
XLB 15.50	40	63	13	18,5	15	1/2"
	60	105	13	18,5	15	1/2"
XLB 25.50	82	155	13	18,5	20	3/4"
	100	215	13	18,5	25	1"
	123	260	13,5	18,5	25	1"
	140	320	18,5	18,5	25	1"
	160	370	18,5	18,5	25	1"
		430	18,5	18,5	25	1"

Plunger stroke: 15; 25 mm

Indicative weight: 70 Kg

Flow rate adjustment system: manual

Via Micrometric Knob

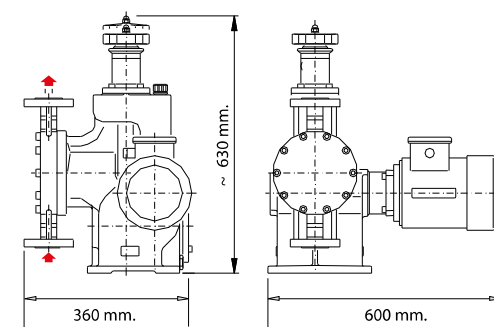
Oil pre-filled pump

Pumps painted:

- Casing: Water-Based painting, 50 microns dry thickness (RAL 7001)
- Motor: manufacturer standard color

Motor characteristics:

UNEL-MEC STD motors, 4Poles, IP55, CL.F, IEC 34-1

► Overall dimensions


XLC HYDRAULIC DIAPHRAGM METERING PUMP

► Technical data for 50 Hz

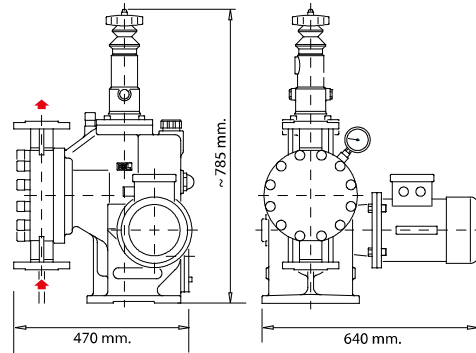
PUMP	STROKES PER MIN.	CAPACITY L/H	MAX. BUILT IN RELIEF VALVE SET PRESSURE (bar)	CONNECTIONS	
			A	FLANGED	
				UNI EN10092-1	ASME B16.5
XLC069	40	350	20	25	1"
	60	550	20	25	1"
	82	750	20	40	1" ½
	100	920	18	40	1" ½
	123	1135	16	40	1" ½
	140	1300	13	40	1" ½
	160	1500	12	40	1" ½

Plunger stroke: 44,5 mm
 Indicative weight: 170 Kg
 Flow rate adjustment system: manual
 Via Micrometric Knob
 Oil pre-filled pump

Pumps painted:
 - Casing: Water-Based painting,
 50 microns dry thickness (RAL 7001)
 - Motor: manufacturer standard color

Motor characteristics:
 UNEL-MEC STD motors, 4Poles, IP55,
 CL.F, IEC 34-1

► Overall dimensions



XLC HYDRAULIC DIAPHRAGM METERING PUMP

► Technical data for 50 Hz

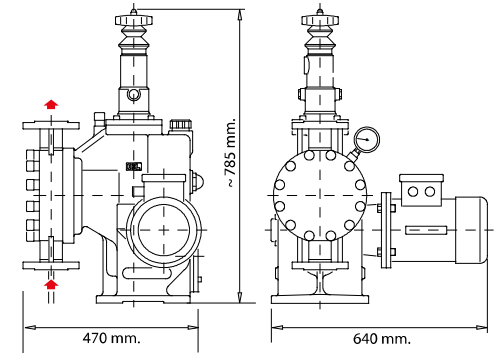
PUMP	STROKES PER MIN.	CAPACITY L/H	MAX. BUILT IN RELIEF VALVE SET PRESSURE (bar)		CONNECTIONS	
			U	S	FLANGED	
					UNI EN10092-1	ASME B16.5
XLC069	40	350	12	18,5	25	1"
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	82	750		18,5	40	2"
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Motor characteristics:
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 CL.F, IEC 34-1

► Overall dimensions



► MANUAL ADJUSTMENT

0÷100% manual adjustment via:

Knob with micrometer scale



Gravitational dial handwheel



► AUTOMATIC ADJUSTMENT

ELECTRICAL ACTUATOR Z TYPE



Electrical actuator features

- IP 66 standard
- 115/230V – 1 – 50/60 Hz
- 4-20 mA feedback signal
- Manual emergency override
- Anticondensation heater (on demand)
- External automatic/manual selector (on demand)
- Flow-rate limiter (Q.max trimmer) allows to reduce the pump maximum flow-rate (corresponding to 20 mA command signal) up to 50% of the nameplate rated capacity.

The flowrate is adjusted according to following input signals:

- 4-20 mA, 0-20 mA, 20-4 mA and 0-10 V
- Pulses (0÷2 Hz - 0÷30 Hz)
- RS 485 communication protocol

SAFE AREA

OBL Z type electric actuator, option available on all Topline pump models remotely controls the pumps flowrate via input signal.

► AUTOMATIC ADJUSTMENT

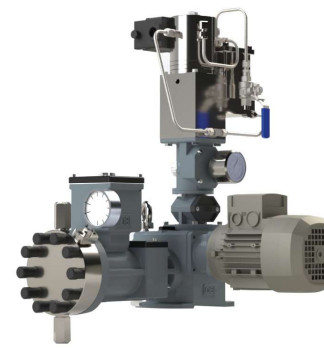
ELECTRICAL ACTUATOR ATEX

- II 2G Ex-de IIC T4
- 100/240V – 1 – 50/60 Hz IP66
- 4-20 mA signal and feedback



PNEUMATIC ACTUATOR W TYPE

- ATEX II 2G IIC T6
- Pneumatic actuator type W
- Pilot signal 3÷15 PSI
- Air supply 4-6 bar
- Emergency manual override



oblpumps.it/Topline.php

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