

*Hydraulic diaphragm
process metering pumps*

API 675

XL

XL ▶ B

XL ▶ C

The ultimate diaphragm process metering pump!

Hydraulic diaphragm process metering pumps

XL - XLB - XLC

XL pumps series (hydraulic diaphragm positive return) since they were launched on the market achieved a great deal of success thanks to the incredible price/quality ratio. They were further developed and improved with the XLB and XLC pumps. These pumps, with cast iron casing, designed and manufactured in full conformity with API 675 STD and ATEX 94/9/CE, zone of danger 1/21 e 2/22, are suitable for 24/7 demanding industrial applications.

XLB double hydraulic diaphragm metering pump with PVDF wetted parts. Diaphragm rupture detector via ATEX II 2 G Ex-d IIC T6. pressure switch. Because of the pH of the dosed chemical pressure switch had to be protected by a PTFE diaphragm fitted into two in Hastelloy C 276[®] backing rings. Because of the weight of the pressure switch and its protection system they are both supported by a bar made of AISI 316 bar. Same material is used for the base-plate to comply with stringent project specifications. >



As all OBL hydraulic diaphragm, these pumps come with built-in relief valve, air purge valve and mechanically actuated replenishing (smart diaphragm).

This valve guarantees at all times a constant hydraulic balance that overcomes all suction problems (suction valve closing, decreasing of NPSH available).

In case of worsening of the NPSH available, though volumetric efficiency would decrease, pump would still deliver chemical.

In case of complete closing of suction isolating valve, pump would not over-replenish oil and diaphragm

would not be over-stretched.

Once operating condition are restored, pump automatically starts delivering with no damage whatsoever.



< Five headed XLB metering pump with independent manual adjustments. AISI 316L wetted parts pump head with double diaphragm and visual rupture detector. Pump conforms to ATEX 94/9/CE, suitable, thanks to the double hydraulic diaphragm system, for dosing of flammable, toxic and explosive chemicals.

API 675

Applications field:

- OIL&GAS
- CHEMICAL AND PETRO-CHEMICAL
- POWER GENERATION
- WATER TREATMENT
- PULP & PAPER
- DEMINERALISATION AND RO PLANTS



XL pump with single diaphragm and PVDF wetted parts. Automatic adjustment of the flow rate via OBL-designed electrical actuator that being IP66 and thanks to the anticondensation heater, turns out to be suitable for installation in harsh environments such as saline and/or desertic areas with high humidity and wide temperature variation.

Constructional data

- Hydraulic diaphragm pump (single or double), with rupture detector both visual as well as remote (via pressure switch or pressure transmitter for both safe and hazardous areas).
- Design fully conforming with API 675 STD.
- Performances conforming to API 675 STD:
 - ±1% steady state accuracy between 10 and 100% of rated capacity;
 - ± 3% linearity between 10 and 100% of rated capacity;
 - ± 3% repeatability between 10 and 100% of rated capacity.
- Thanks to unique design, pump head can be dismantled and diaphragm checked, with no oil loss.
- Zero flow rate when pressure is zero and adjustment being set to "0%".
- Reduced maintenance; sealess oil-bathed plunger that guarantees as-new volumetric efficiency even after 50000 working hours. Diaphragm, protected by built-in relief valve and mechanical replenisher has working life in excess of 50000 working hours.
- Multiple pumps arrangement on demand (each pump can have different pump size, strokes/1' and wetted materials). These series can be ganged with other positive return pumps (L or X9 series); adjustment can be either independent or common.
- Standard automatic adjustment is via 0,1% steps knob.
- Pumps can be supplied with either electrical or pneumatic actuators (for both safe and hazardous areas) as well as with VSD rated motors.
- Wetted materials are: AISI 316L, PP, PVC and PVDF. On demand exotic materials (alloy 20, Hastelloy C 276, Titanium) can be supplied.
- IEC as standard but NEMA motors can be supplied too.



< XLC AISI 316L basic version with: double diaphragm with local visual rupture detector and flanged connections.

XL

Pump:	• Single and multiple
Max flow rate:	• 480 L/h
Max pressure:	• 15 bar
Motors:	• Threephase 0,37 kW - 0,75 kW - 1,5 kW 230/400 V - 50/60Hz - 4 poles IP55 - CLF - IEC38
Stroke:	• 15/25mm
Materials:	• Cast iron pump body
Weigth:	• 60÷70 Kgs



480 l/h 15 bar

XL pump technically advanced hydraulic diaphragm positive return pump, low cost, due to reduced number of components; can be used in both process and service applications.

- Hydraulic diaphragm metering pump both single and double
- Threaded (BSP female) or flanged connections (both DIN or ANSI)
- On demand full conformity with API 675 STD (variable setting built-in relief valve)
- Fully conforming with ATEX 94/9/CE, 1/21 and 2/22 zone of danger. Suitable for flammable chemicals thanks to the double diaphragm system
- PP wetted parts (single diaphragm only), AISI 316L, PVC e PVDF (with single and double diaphragm design)
- With PP, AISI 316L and PVDF wetted parts up to 60 °C pumping temperature
- With PVC wetted parts up to 40 °C pumping temperature



< Two-headed XL.
Each pump can have different number of strokes/1' and different wetted materials.

Technical characteristics

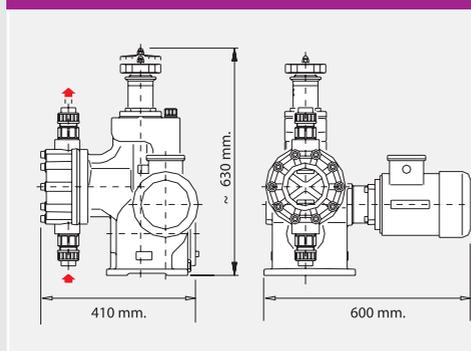
< XL single hydraulic diaphragm pump head with injection moulded glass filled PP and threaded connections. Max pressure up to 15 bar g.

TYPE	STROKES/1'	MAX FLOW RATE l/H	PVS SET PRESS. bar g			CONNECTIONS		
			WORK PRES.	PVS	kW	THREADED	FLANGED	
							UNI	ANSI
50 Hz								
PP-PP11-PP32								
XL 15.50	40	63	12	15	0,37	1/2" BSPF	DN15-PN16	1/2" 150
XL 25.50	40	105	12	15	0,37	1/2" BSPF	DN15-PN16	1/2" 150
XL 25.50	60	155	12	15	0,37	1/2" BSPF	DN20-PN16	3/4" 150
XL 25.50	82	215	12	15	0,75	1/2" BSPF	DN20-PN16	3/4" 150
XL 25.50	100	260	12	15	0,75	3/4" BSPF	DN20-PN16	3/4" 150
XL 25.50	123	320	12	15	0,75	3/4" BSPF	DN20-PN16	3/4" 150
XL 25.50	140	370	11	14	0,75	1" BSPF	DN25-PN16	1" 150
XL 25.50	160	430	10	13	0,75	1" BSPF	DN25-PN16	1" 150
XL 25.50	185	480	8	10	0,75	1" BSPF	DN25-PN16	1" 150
MA-MMA								
XL 15.50	40	63	12	15	0,37	1/2" BSPF	DN15-PN16	1/2" 150
XL 25.50	40	105	12	15	0,37	1/2" BSPF	DN15-PN16	1/2" 150
XL 25.50	60	155	12	15	0,37	1/2" BSPF	DN20-PN16	3/4" 150
XL 25.50	82	215	12	15	0,75	1/2" BSPF	DN20-PN16	3/4" 150
XL 25.50	100	260	12	15	0,75	3/4" BSPF	DN20-PN16	3/4" 150
XL 25.50	123	320	12	15	0,75	3/4" BSPF	DN20-PN16	3/4" 150
XL 25.50	140	370	11	14	0,75	1" BSPF	DN25-PN16	1" 150
XL 25.50	160	430	10	13	0,75	1" BSPF	DN25-PN16	1" 150
XL 25.50	185	480	8	10	0,75	1" BSPF	DN25-PN16	1" 150
MP-MMP/MS-MMS								
XL 15.50	40	63	12	15	0,37	-	DN15-PN16	1/2" 150
XL 25.50	40	105	12	15	0,37	-	DN15-PN16	1/2" 150
XL 25.50	60	155	12	15	0,37	-	DN20-PN16	3/4" 150
XL 25.50	82	215	12	15	0,75	-	DN20-PN16	3/4" 150
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XL 25.50	123	320	12	15	0,75	-	DN25-PN16	1" 150
XL 25.50	140	370	11	14	0,75	-	DN25-PN16	1" 150
XL 25.50	160	430	10	13	0,75	-	DN25-PN16	1" 150
XL 25.50	185	480	8	10	0,75	-	DN25-PN16	1" 150
60 Hz								
PP-PP11-PP32								
XL 15.50	48	76	12	15	0,37	1/2" BSPF	DN15-PN16	1/2" 150
XL 25.50	48	126	12	15	0,37	1/2" BSPF	DN15-PN16	1/2" 150
XL 25.50	72	186	12	15	0,75	1/2" BSPF	DN20-PN16	3/4" 150
XL 25.50	96	258	12	15	0,75	3/4" BSPF	DN20-PN16	3/4" 150
XL 25.50	121	312	12	15	0,75	3/4" BSPF	DN20-PN16	3/4" 150
XL 25.50	144	384	11	14	0,75	1" BSPF	DN25-PN16	1" 150
XL 25.50	168	444	10	13	0,75	1" BSPF	DN25-PN16	1" 150
MA-MMA								
XL 15.50	48	76	12	15	0,37	1/2" BSPF	DN15-PN16	1/2" 150
XL 25.50	48	126	12	15	0,37	1/2" BSPF	DN15-PN16	1/2" 150
XL 25.50	72	186	12	15	0,75	1/2" BSPF	DN20-PN16	3/4" 150
XL 25.50	96	258	12	15	0,75	3/4" BSPF	DN20-PN16	3/4" 150
XL 25.50	121	312	12	15	0,75	3/4" BSPF	DN20-PN16	3/4" 150
XL 25.50	144	384	11	14	0,75	1" BSPF	DN25-PN16	1" 150
XL 25.50	168	444	10	13	0,75	1" BSPF	DN25-PN16	1" 150
MP-MMP/MS-MMS								
XL 15.50	48	76	12	15	0,37	-	DN15-PN16	1/2" 150
XL 25.50	48	126	12	15	0,37	-	DN15-PN16	1/2" 150
XL 25.50	72	186	12	15	0,75	-	DN20-PN16	3/4" 150
XL 25.50	96	258	12	15	0,75	-	DN25-PN16	1" 150
XL 25.50	121	312	12	15	0,75	-	DN25-PN16	1" 150
XL 25.50	144	384	11	14	0,75	-	DN25-PN16	1" 150
XL 25.50	168	444	10	13	0,75	-	DN25-PN16	1" 150

API 675

< XL pump with single diaphragm and moulded glass fibre reinforced PP wetted parts. Automatic adjustment of the flow rate via OBL-designed electrical (IP66 as STD). The robustness of the PP wetted parts allows dosing of any chemicals where AISI 316L would be unsuitable, at a working pressure up to 12 bar g. With the same pump head, combining metallic seats and balls (AISI 316L, incoloy 825, Hastelloy C 276 ®), it is possible to offer premium quality/price versions for dosing problematic chemicals such as 50% caustic, viscous polymers and concentrated sulphuric acid.

OVERALL DIMENSIONS



MATERIALS OF CONSTRUCTION

PARTS	PP	PP11	PP32	MA MMA	MP MMP	MS MMS
LIQUID END	PP	PP	PP	AISI 316L	PVC	PVDF
DIAPHRAGM	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
VALVE SEAT	PVC	AISI 316L	INCOLOY 825	AISI 316L	PVC	PVDF
VALVE GUIDE	PP	PP	PP	AISI 316L	PP	PVDF
VALVE	PIREX	AISI 316L	HASTELLOY C 276	AISI 316L	PIREX	PIREX
VALVE HOUSING	PP	PP	PP	AISI 316L	PVC	PVDF
VALVE SEAL	FPM	FPM	FPM	FPM	FPM	FPM
FLANGE	PVC	PVC	PVC	AISI 316L	PVC	PVDF

MODEL NUMBER

KEY TO SYMBOL

PUMP TYPE	XL
ø PLUNGER	25
PP EXECUTION	50
PP+AIISI-316L VALVE & VALVE SEAT	PP
4±20 mA OBL ELECTRIC ACTUATOR	120
0,2-1 BAR PNEUMATIC ACTUATOR	F
THREADED CONNECTIONS	Z
UNI-DIN FLANGED CONNECTIONS	
ANSI FLANGED CONNECTIONS	
N° STROKES PER MINUTE	
STROKE mm.	

XLB

Pump:	• Single and multiple
Max flow rate:	• 430 L/h
Max pressure:	• 30 bar
Motors:	• Threephase 0,75 kW - 1,5 kW 230/400 V - 50/60Hz - 4 poles IP55 - CLF - IEC38
Stroke :	• 15/25mm
Materials :	• Cast iron pump body
Weigth :	• 60÷70 Kgs



430 l/h 30 bar

XLB hydraulic diaphragm positive return pump, suitable for industrial process applications; heavy duty mechanism for operating pressures up to 25 bar, suitable for 24h/7 duties.

- Hydraulic diaphragm metering pump both single and double
- Threaded (BSP female) or flanged connections (both DIN or ANSI)
- Fully conforming with API 675 STD
- Fully conforming with ATEX 94/9/CE, 1/21 and 2/22 zone of danger. Suitable for flammable chemicals thanks to the double diaphragm system
- AISI 316L, PVC e PVDF wetted parts (with single and double diaphragm design)
- With AISI 316L and PVDF wetted parts up to 60 °C pumping temperature
- With PVC wetted parts up to 40 °C pumping temperature



< Three-headed XLB pump with AISI 316L wetted parts.

< XLB single hydraulic diaphragm pump head with AISI 316L wetted parts and ANSI # 300 RF flanged connections.

Max pressure up to 30 bar g.

API 675

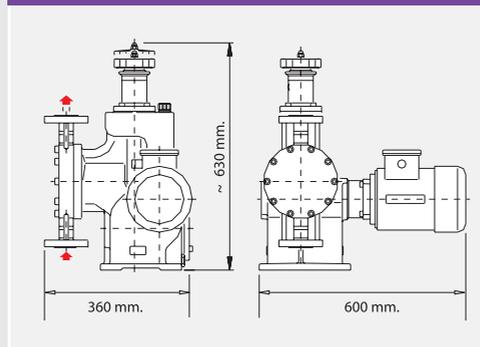
< XLB metering pump with ANSI # 300 RF flanged connections (max pressure up to 30 bar g), double hydraulic diaphragm, AISI 316L wetted parts and visual rupture detector via pressure gauge. Pump fully conforms to ATEX 94/9/CE and API STD 675.



Technical characteristics

TYPE	STROKES/1'	MAX FLOW RATE l/H	PVS SET PRESS. bar g						CONNECTIONS		
			0,37 kW		0,75 kW		1,5 kW		THREADED	FLANGED	
			W.PRES	PSV	W.PRES	PSV	W.PRES	PSV		UNI	ANSI
50 Hz											
MA - MMA											
XLB 15.50	40	63	12	15	25	30	-	-	1 1/2" BSPF	DN15-PN40	1/2" 300
XLB 25.50	40	105	12	15	25	30	-	-	1 1/2" BSPF	DN15-PN40	1/2" 300
XLB 25.50	60	155	12	15	25	30	-	-	1 1/2" BSPF	DN20-PN40	3/4" 300
XLB 25.50	82	215	8	10	16	20	25	30	1 1/2" BSPF	DN20-PN40	3/4" 300
XLB 25.50	100	260	-	-	15	18	25	30	3/4" BSPF	DN20-PN40	3/4" 300
XLB 25.50	123	320	-	-	12	15	25	30	3/4" BSPF	DN20-PN40	3/4" 300
XLB 25.50	140	370	-	-	11	14	20	25	1" BSPF	DN25-PN40	1" 300
XLB 25.50	160	430	-	-	10	13	16	20	1" BSPF	DN25-PN40	1" 300
MS - MMS											
XLB 15.50	40	63	12	15	15	18,5	-	-	-	DN15-PN25	1/2" 150
XLB 25.50	40	105	12	15	15	18,8	-	-	-	DN15-PN25	1/2" 150
XLB 25.50	60	155	12	15	15	18,5	-	-	-	DN20-PN25	3/4" 150
XLB 25.50	82	215	8	10	15	18,5	-	-	-	DN20-PN25	3/4" 150
XLB 25.50	100	260	-	-	15	18,5	-	-	-	DN25-PN25	1" 300
XLB 25.50	123	320	-	-	12	15	15	18,5	-	DN25-PN25	1" 300
XLB 25.50	140	370	-	-	11	14	15	18,5	-	DN25-PN25	1" 300
XLB 25.50	160	430	-	-	10	13	15	18,5	-	DN25-PN25	1" 300
60 Hz											
MA - MMA											
XLB 15.50	48	76	12	15	25	30	-	-	1 1/2" BSPF	DN15-PN40	1/2" 300
XLB 25.50	48	126	12	15	25	30	-	-	1 1/2" BSPF	DN15-PN40	1/2" 300
XLB 25.50	72	186	12	15	18	22	25	30	1 1/2" BSPF	DN20-PN40	3/4" 300
XLB 25.50	96	258	-	-	15	18	25	30	3/4" BSPF	DN20-PN40	3/4" 300
XLB 25.50	121	312	-	-	12	15	25	30	3/4" BSPF	DN20-PN40	3/4" 300
XLB 25.50	144	384	-	-	11	14	20	25	1" BSPF	DN25-PN40	1" 300
XLB 25.50	168	444	-	-	10	12	16	20	1" BSPF	DN25-PN40	1" 300
MS - MMS											
XLB 15.50	48	76	12	15	15	18,5	-	-	-	DN15-PN25	1/2" 150
XLB 25.50	48	126	12	15	15	18,5	-	-	-	DN15-PN25	1/2" 150
XLB 25.50	72	186	12	15	15	18,5	-	-	-	DN20-PN25	3/4" 150
XLB 25.50	96	258	-	-	15	18,5	-	-	-	DN25-PN25	1" 150
XLB 25.50	121	312	-	-	12	15	15	18,5	-	DN25-PN25	1" 150
XLB 25.50	144	384	-	-	11	14	15	18,5	-	DN25-PN25	1" 150
XLB 25.50	168	444	-	-	10	12	15	18,5	-	DN25-PN25	1" 150

OVERALL DIMENSIONS



MATERIALS OF CONSTRUCTION

PARTS	MA/MMA	MS/MMS
LIQUID END	AISI 316L	PVDF
DIAPHRAGM	PTFE	PTFE
VALVE SEAT	AISI 316L	PVDF
VALVE GUIDE	AISI 316L	PVDF
VALVE	AISI 316L	PIREX
VALVE HOUSING	AISI 316L	PVDF
VALVE SEAL	FPM	FPM
FLANGE	AISI 316L	PVDF

MODEL NUMBER

KEY TO SYMBOL

PUMP TYPE	
ø PLUNGER	
MA	AISI 316L EXECUTION
MS	PVDF EXECUTION
Z	4±20 mA OBL ELECTRIC ACTUATOR
W	0,2-1 BAR PNEUMATIC ACTUATOR
---	THREADED CONNECTIONS
F	UNI-DIN FLANGED CONNECTIONS
FA	ANSI FLANGED CONNECTIONS
N°	STROKES PER MINUTE
STROKE mm.	

XLB 25 50 MA 120 FA Z

Pump:	• Single and multiple
Max flow rate:	• 1300 L/h
Max pressure:	• 20 bar
Motors:	• Trifase 0,75 kW - 1,5 kW - 2,2 kW 230/400 V - 50/60Hz - 4 poli IP55 - CLF - IEC38
Stroke :	• 44,5 mm
Materials:	• Cast iron pump body
Weigth :	• 170 Kgs



1300 l/h 20 bar

XLC pumps have high STD basic version: flanged connections and double diaphragm with local visual rupture detection via pressure gauge, suitable for dangerous toxic, flammable and even explosive chemicals. XLC pumps are suitable for 24/7 industrial applications.

- Double hydraulic diaphragm metering pumps
- Flanged connections only (either DIN or ANSI)
- Fully conforming with API 675 STD
- Fully conforming with ATEX 94/9/CE, 1/21 and 2/22 zone of danger. Suitable for flammable chemicals thanks to the double diaphragm system
- AISI 316L, PVC e PVDF wetted parts
- With AISI 316L and PVDF wetted parts up to 75 °C pumping temperature
- With PVC wetted parts up to 40 °C pumping temperature



< XLC PVC basic version with:
double diaphragm with local visual
rupture detector and flanged con-
nections.

Technical characteristics

< XLC pump with double hydraulic diaphragm, rupture detector via both pressure gauge and pressure switch (local/remote).

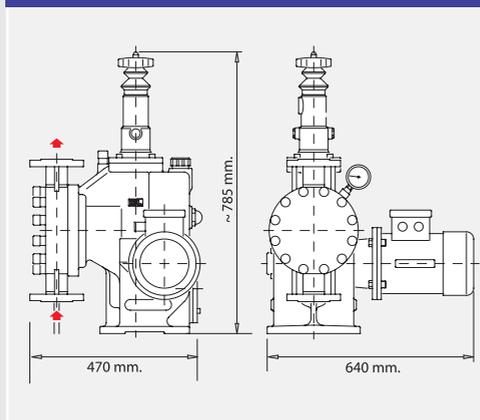
AISI 316L/PTFE wetted materials only and threaded connection to DIN 11851.

TYPE	STROKES/1'	MAX FLOW RATE l/H	MAX PRESSURE - PVS SET PRESS. bar g			FLANGED CONNECTIONS	
			0,75 kW	1,5 kW	2,2 kW	UNI	ANSI
50 Hz							
AISI 316L							
XLC A	40	350	14	20	20	DN 25	1" 300RF
XLC A	60	550	10	20	20	DN 25	1" 300RF
XLC A	82	750	8	17	20	DN 40	1 1/2" 300RF
XLC A	100	920	6	12	17	DN 40	1 1/2" 150RF
XLC A	123	1150	-	10	15	DN 40	1 1/2" 150RF
XLC A	140	1300	-	8	12	DN 40	1 1/2" 150RF
PVC							
XLC P	40	350	12	12	-	DN 25	1" 150RF
XLC P	60	550	10	12	-	DN 25	1" 150RF
XLC P	82	750	8	12	-	DN 40	2" 150RF
XLC P	100	920	6	12	12	DN 40	2" 150RF
XLC P	123	1150	-	10	12	DN 40	2" 150RF
XLC P	140	1300	-	8	12	DN 40	2" 150RF
PVDF							
XLC S	40	350	14	18,5	-	DN 25	1" 150RF
XLC S	60	550	10	18,5	-	DN 25	1" 150RF
XLC S	82	750	8	17	18,5	DN 40	2" 150RF
XLC S	100	920	6	12	17	DN 40	2" 150RF
XLC S	123	1150	-	10	15	DN 40	2" 150RF
XLC S	140	1300	-	8	12	DN 40	2" 150RF
60 Hz							
AISI 316L							
XLC A	48	420	13	20	20	DN 25	1" 300RF
XLC A	72	660	10	17	20	DN 25	1" 300RF
XLC A	96	900	6	12	17	DN 40	1 1/2" 300RF
XLC A	121	1150	-	10	15	DN 40	1 1/2" 150RF
XLC A	144	1300	-	8	12	DN 40	1 1/2" 150RF
PVC							
XLC P	48	420	12	12	-	DN 25	1" 150RF
XLC P	72	660	10	12	-	DN 25	1" 150RF
XLC P	96	900	6	12	12	DN 40	2" 150RF
XLC P	121	1150	-	10	12	DN 40	2" 150RF
XLC P	144	1300	-	8	12	DN 40	2" 150RF
PVDF							
XLC S	48	420	12	18,5	-	DN 25	1" 150RF
XLC S	72	660	10	18,5	-	DN 25	1" 150RF
XLC S	96	900	6	12	17	DN 40	2" 150RF
XLC S	121	1150	-	10	15	DN 40	2" 150RF
XLC S	144	1300	-	8	12	DN 40	2" 150RF

API 675

< XLC AISI 316L basic version with: double diaphragm with local visual rupture detector and flanged connections.

OVERALL DIMENSIONS



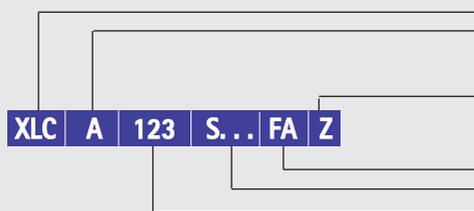
MATERIALS OF CONSTRUCTION

PARTS	A	P	S
LIQUID END	AISI 316L	PVC	PVDF
DIAPHRAGM	PTFE	PTFE	PTFE
VALVE SEAT	AISI 316L	PVC	PVDF
VALVE GUIDE	AISI 316L	PP	PVDF
VALVE	AISI 316L	PIREX	PIREX
VALVE HOUSING	AISI 316L	PVC	PVDF
VALVE SEAL	FPM	FPM	FPM
FLANGE	AISI 316L	PVC	PVDF

MODEL NUMBER

KEY TO SYMBOL

PUMP TYPE	
A	AISI 316L EXECUTION
P	PVC EXECUTION
S	PVDF EXECUTION
Z	4±20 mA OBL ELECTRIC ACTUATOR
W	0,2-1 BAR PNEUMATIC ACTUATOR
...	UNI/DIN FLANGED CONNECTIONS
FA	ANSI FLANGED CONNECTIONS
	MEMBRANE RUPTURE DETECTOR
N°	STROKES PER MINUTE



Control systems

Z type electrical actuator >

XL/XLB/XLC can be equipped with Z type electrical actuator, with following characteristics:

- IP 66 STD
- 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 A, 20-4 mA e 0-10 V
- Pulses (0÷2 Hz - 0÷30 Hz)
- RS 485 protocol
- PROFIBUS DP - VØ



Electrical actuator >

- ATEX II 2GD EEx-d IIB T4 IP6X
- 115/230V - 1 - 50/60 Hz
- 230/400V - 3 - 50/60 Hz
- 4-20 mA signal and feedback
- Manual emergency override
- Anticondensation heater (on demand)



W type pneumatic actuator >

- ATEX II 2G c IIC T6
- Pneumatic actuator type WA.
- Air instrument 3÷15 PSI
- Air supply 4-6 bar
- Emergency manual override



Knob >

- Micrometer control reading 0-100%.
- 0,1% steps sealed magnifying lens indicator.



References

Year	End user / contractor / Customer	Application	Country
2002	Consortium Enel-Power Hitachi Zosen	Power and desalination plant	Oman
2003	ICAP-SIRA chemicals and polymers	Chemical injection unit	Italy
2003	AKZO Nobel AB / ETEK pilot plant	Biodiesel production	Sweden
2003	Kellogs Brown & Root / South Oil Co.	Petrochemical	Iraq
2004	SIEMENS Power Generation	Demineralisation plant	Saudi Arabia
2004	West Delta Electricity production company Nubaria power plant	Power station	Egypt
2004	Nan Ya Plastic Corporation	Chemical plant	Taiwan
2004	Formosa plastic corporation	PVC production	Taiwan
2004	Bechtel Marathon Oil Company Albas Phase 3 Project Bioko Island	On-shore Oil & Gas	Equatorial Guinea
2005	Doosan Heavy Industries and Construction Co. Ltd. Sohar Independent Water and power project	Desalination plant	Oman
2005	Jordan Petroleum Refinery Co. Ltd. / Amman Refinery	Petrochemical	Jordan
2005	Nan Ya Plastic Corporation	Chemical plant	Taiwan
2005	Chanchun Petrochemical Co.	Chemical plant	Taiwan
2005	Formosa Petrochemical Corp.	Chemical plant	Taiwan
2005	ENI S.p.A.	Petrochemical	Italy
2005	Toyo Thai Corp Ltd / Vinithai Public Company	Petrochemical plant	Thailand
2006	Kellog Brown and Root SVCS Inc. North Rumaylah NGL Plant	Demineralisation plant	Iraq
2006	Bechtel -Abu Dhabi Gas Industries Ltd (GASCO) ASAB Gas Development Phase II (AGD-II)	Waste water treatment gas field	UAE
2007	ADWEC / Al Taweelah B Abu Dhabi	Waste water treatment	UAE
2007	UTE Desaladora Skikda Construction	Desalination plant	Algeria
2007	Uniens Co. Ltd	Waste water treatment	Vietnam
2007	Desmet Ballestra	Biodiesel plant	Spain
2007	Erg Raffinerie Mediterranee S.p.A.	Refinery	Italy
2007	Bejing DWELL Co. Ltd. Sudan Petroleum Engineering Co. Ltd.	Crude Oil chemical injection unit	Sudan
2007	Takreer / Inter Refinery pipelines injection	Refinery	UAE
2008	Qatar Electricity Water Co / Fisia Italimpianti	Power plant	Qatar
2008	PEQUIVEN (Petroquimica de Venezuela)	Phosphate recovery from rocks	Venezuela
2008	Desmet Ballestra	Biodiesel plant	Spain
2008	S.C. TERMICA -SUCEAVA	Power station	Romania
2008	TECNIMONT-Maire	Coke power plant	Chile
2008	Qatalum (joint venture Qatar Petroleum and Norsk Hydro ASA), SPIG Italy	Cooling tower	Qatar
2008	Fisia Italimpianti / Dubai Electricity and Water Authority Jebel Ali "M" station, package "D"	Power and water - Water desalination	UAE
2009	Ittehad Chemicals Ltd	Inorganic chemical production	Pakistan
2009	West Delta Electricity production Co Ltd	Power plant	Egypt

Technical data are subject to modifications without prior notice.

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