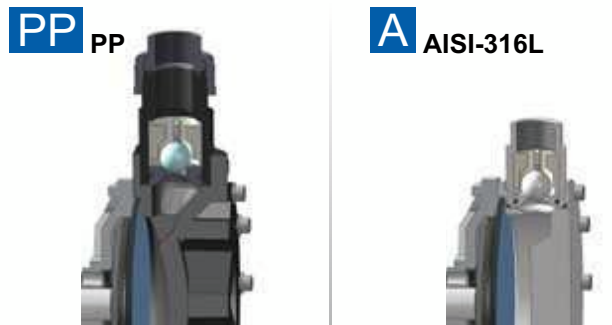
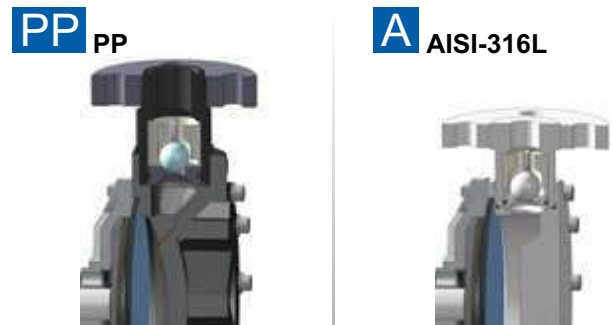


Sectional view

THREADED CONNECTIONS



FLANGED CONNECTIONS



FEATURE & BENEFITS

Valve & Seat material options: Ceramic, Stainless Steel, Incoloy-825, Hastelloy C-276.

Increased performance when handling high density and viscous as well highly abrasive and aggressive fluids while minimizing cost impact.

Extends pump life and lowers life-cycle cost.

Diaphragm Structure

The mechanical diaphragm works giving the swept volume, acting basically as plunger, and as a separator between casing and pumped fluid. The OBL's unique mechanical diaphragm design allows controlled volumetric displacement and ensures linear proportionality between flow rate and percentage of stroke.

FEATURE & BENEFITS

PP diaphragm back-support ring:

Protection against discharge overpressure.

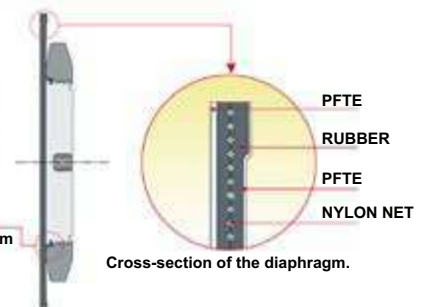
Reduces downtime and cleanup, minimizes chemical exposure.



METALLIC SUPPORT

RUBBER

Detail of the bonding between diaphragm and metallic support.



Cross-section of the diaphragm.

Flowrate linearity

The OBL mechanical diaphragm pump functioning reflect the same linearity of flowrate as a plunger pump.

This peculiarity is highlighted in the flow chart on the side. By the trend of the flow lines is clear the linear proportionality between flowrate and adjustment.

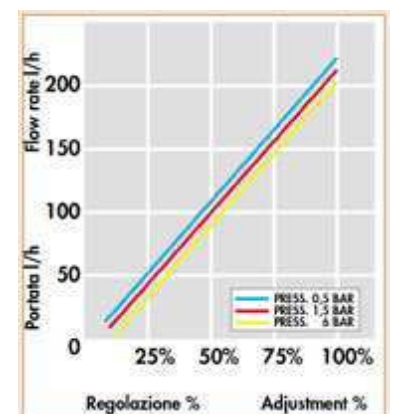
FEATURE & BENEFITS

Multiple layer PTFE diaphragm:

Flowrate is virtually unaffected by the working pressure variations (1% less every additional bar above 1,5 bar).

- Protection against corrosive fume entering diaphragm chamber.
- Reduced friction against back-support ring.
- Leak-free pump, due to OBL's stress-proof diaphragm.

Extends pump life and lowers life-cycle cost.



► Technical data

Ø DIAPH./ STROKE	50 Hz			60 Hz			MAX PRESS. bar	
	TYPE	STROKES / 1	MAX FLOW RATE l/h	TYPE	STROKES / 1	MAX FLOW RATE l/h	3ph	1ph
2 94	M 7	25	7	M 9	30	9	12	12
	M 11	36	11	M 14	43	14		
	M 16	50	16	M 19	60	19		
	M 23	70	23				10	10
	M 31	95	31	M 28	84	28		
	M 37	115	37	M 36	114	36		
	M 50	155	50	M 45	138	45		
4 108	M 35	36	35	M 42	43	42	10	10
	M 49	50	49	M 58	60	58		
	M 75	70	75	M 90	84	90		
	M 101	95	101				10	10
	M 120	115	120	M 118	114	118		
	M 155	155	155	M 145	138	145		
6 138	M 102	36	100	M 119	43	120	8	8
	M 131	50	132					
	M 201	70	197	M 158	60	158	7	7
	M 261	95	260	M 236	84	236		
	M 321	115	320	M 312	114	312	6	6
	M 421	155	420	M 384	138	384		
6 165	M 150	36	150	M 180	43	165	5	5
	M 190	50	200	M 228	60	228		
	M 301	70	300	M 360	84	350		
	M 431	95	435	M 519	114	515	5	4
	M 521	115	520					

► Material of construction

COMPONENTS	A	PP	PP11	PP32	S562
PUMP HEAD	AISI-316L	PP	PP	PP	PVDF
DIAPHRAGM	PTFE	PTFE	PTFE	PTFE	PTFE
VALVE GUIDE	PP	PP	PP	PP	PVDF
VALVE SEAT	AISI-316L	PVC	AISI-316L	INCOLOY-825	PTFE
VALVE (BALL)	AISI-316L	PYREX	AISI-316L	HASTELLOY C-276	PYREX
VALVE HOUSING	AISI-316L	PP	PP	PP	PVDF
VALVE SEAL	FPM	FPM	FPM	FPM	PTFE
FLANGE	AISI-316L	PVC	PVC	PVC	PVDF

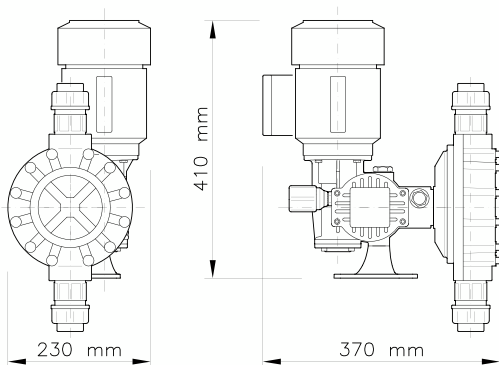
Identification code

M 236 PP DV FA ZC	
M	PUMP TYPE
236	MAX FLOWRATE l/h
PP	PUMPHEAD EXECUTION
...A...	AISI-316L
...PP...	POLIPROPILENE (PP)
...PP11...	PP + AISI-316L VALVES & SEATS
...PP32...	PP + INCOLOY-825 VALVES & HASTELLOY C-276 SEATS
...S562...	PP + PTFE VALVES & PYREX SEATS
DV	VALVES EXECUTION
...SV...	SINGLE VALVE
...DV...	DOUBLE VALVE
FA	CONNECTIONS
...B...	THREADED BSP f
...N...	THREADED NPT f
...F...	FLANGED UNI-DIN
...FA...	FLANGED ANSI
ZC	ADJUSTMENT
"..."	GRADUATE KNOB AND VERNIER
...W...	PNEUMATIC ACTUATOR
...Z...	ELECTRIC ACTUATOR

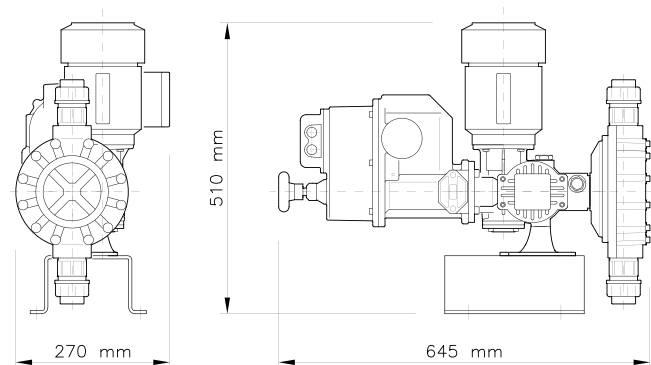
CONNECTIONS						MOTOR kW	
THREADED			FLANGED			3ph	1ph
A	PP	S562	A	PP	S562		
3/8" BSP f	3/8" BSP f	/	DN 15 1/2" ANSI	DN 15 1/2" ANSI	/	0,25 KW	0,25 KW
	1/2" BSP f	1/2" BSP f	DN 15 1/2" ANSI	DN 15 1/2" ANSI	DN 15 1/2" ANSI		
3/4" BSP f	3/4" BSP f	3/4" BSP f	DN 20 3/4" ANSI	DN 20 3/4" ANSI	DN 20 3/4" ANSI	0,37 KW	0,37 KW
1" BSP f	1" BSP f	1" BSP f	DN 25 1" ANSI	DN 25 1" ANSI	DN 25 1" ANSI		

Overall dimensions

SINGLE PUMP - Manual Adjustment



SINGLE PUMP - Electric Actuator Adjustment



MULTIPLE PUMP - Manual Adjustment

