

Stroke: 50mm
 Max flow rate: 3800 L/h
 Motors: 0,75 - 1,5 - 3 - 4 kW



**Plunger
 Metering Pump
 Positive Return**

API 675

*LN pump is the third size of the four "L" sizes :
 LY-LK-LN-LP.*

The stroke adjustment is based on OBL's unique design.

CONSTRUCTION CHARACTERISTICS

■ OBL's metering pumps are used in several industrial plants. The "L" series ranges from the smallest capacity, 400 cc/h, to the largest, 11.000 L/h.

■ All models can be built as multiple units with different sized heads.

■ Each pumphead can have a different stroke rate since each has its own reduction gear.

■ Power transmission through multiple units is easily achieved by a common motor-speed shaft, so the torque is lower than after the reduction gears.

■ Positive displacement mechanism with mechanical return of the plunger, based on OBL's unique design.

■ Smooth flowrate adjustment by control knob, either with pump in motion or stationary.

■ 1% repeatability of flowrate within 10% and 100% of maximum capacity.

■ Low NPSH requirement: as low as 1,5m in recommended installation conditions.

TECHNICAL DATA

TIPO TYPE	STROKES/m	FLOW RATE L/h	MAX PRESS.BAR				CONNECTIONS				
			AISI 316L		PVC		UNI		ANSI		
			0,75 kW	1,5 kW	0,75 kW	1,5 kW	A	P	A	P	
LN30	40	72									
	47	90									
	56	105	45	90	-	-	20	-	3/4"	-	
	68	125									
	80	150									
LN40	68	230	30	50							
	80	275	25	50							
	97	340	20	40	-	-	20	-	3/4"	-	
	118	420	17	35							
LN50	68	380	17	30							
	80	445	15	30							
	97	540	13	26	10	-	25	25	1"	1"	
	118	650	10	20							
LN65	68	650	10	20	10						
	80	750	9	18	9						
	97	900	8	16	8	10	40	40	1"	2"	
	118	1100	6	12	6				1/2"	2"	
LN80	68	950		14		10					
	80	1100		12		10					
	97	1330	-	10	-	10	40	40	1"	2"	
	118	1650		8		8			1/2"	2"	
LN100	68	1500		9		9					
	80	1800		7		7					
	97	2150	-	6	-	6	40	40	1"	2"	
	118	2700		5		5			1/2"	2"	
LN120	68	2100		6		6					
	80	2500		5		5					
	97	3200	-	4	-	4	50	50	2"	2"	
	118	3800		3,5		3,5					
DOUBLE-ACTING	LN120 ADE	56	3300		7						
		68	4000	-	6	-	-	50		2"	
		80	4800		5						
LN135 ADE	56	4200		5							
	68	5300	-	4	-	-	65		2-1/2"		
	80	6500		3							

PUMP HEADS

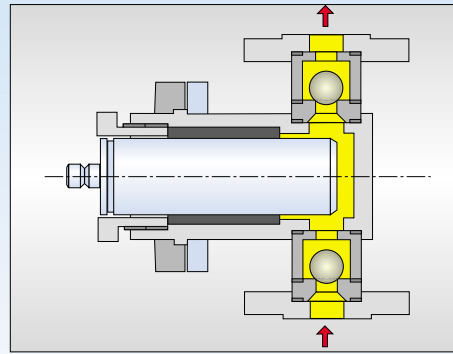
The standard construction, up to 420 L/h, has duplex ball valves; higher flowrates have single valves.

- Materials of construction for wetted parts are:

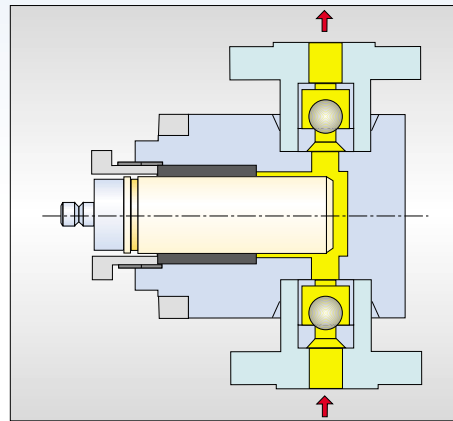
- **Construction A:** AISI 316L
- **Construction P:** PVC-Ceramic - PTFE

Pumps in other materials such as Hastelloy, other alloys, PVDF etc., can be supplied on demand.

- Plunger packing is of reinforced Teflon chevron rings.
- Suction and discharge connections are flanged.
- **Max. temperature of handled liquid:**
 - with standard stainless steel heads: 120 °C
 - with special stainless steel heads: 300 °C
 - with stainless steel heads and ceramic plunger: 100 °C
 - with PVC head: 40 °C
 - with PVDF head: 70 °C

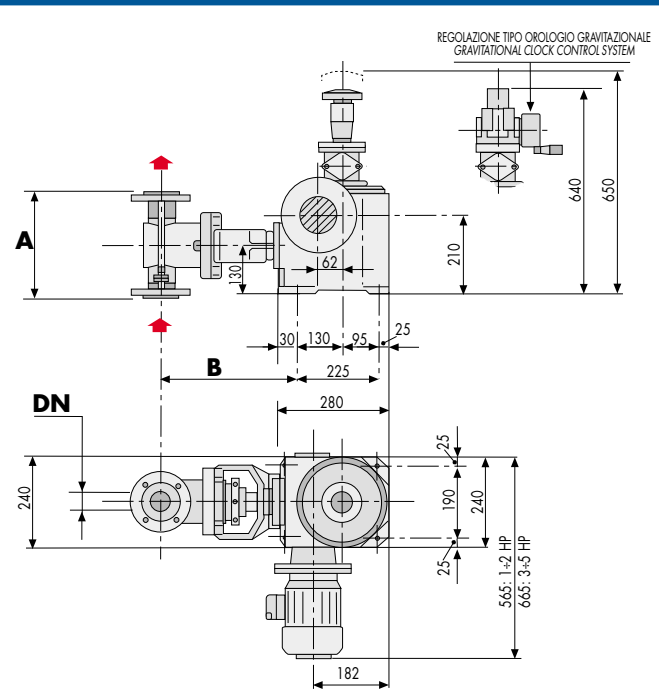


Stainless steel head "A" execution flanged connections.



PVC head, "P" execution, flanged connections.

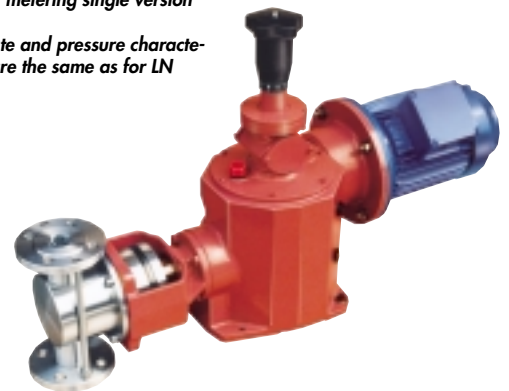
OVERALL DIMENSIONS



MODEL NUMBER

KEY TO SYMBOLS	
PUMP TYPE	
Ø PLUNGER	
A	AISI-316L VERSION
P	PVC VERSION
STROKES PER MINUTE	
Z...	ELECTRIC ACTUATOR 4÷20 mA
W	3÷1.5 PSI PNEUMATIC ACTUATOR
F	UNI-DIN FLANGED CONNECTIONS
FA	ANSI FLANGED CONNECTIONS
...	= 0 ÷ 10 BAR VERSION (NO NEED OF MODEL NO.)
TL	= 10 ÷ 40 BAR
TN	= 40 ÷ 100 BAR

LX Plunger metering single version only. Flow rate and pressure characteristics are the same as for LN pump.



TYPE	AISI 316L				PVC		DN UNI 2223/29		ANSI B 16.5	
	A	ADV	B	BTL	A	B	AISI: PN40	PVC: PN10	AISI 316L 150RF	PVC: 150RF
LN 40TL	-	226	-	335	-	-	20	-	3/4"300RF	-
LN 50	175	255	275	335	228	260	25	-	1"	1"
LN 65	224	358	275	335	297	265	40	-	1 1/2"	2"
LN 65TL	224	358	-	335	-	-	40	-	1 1/2"300RF	-
LN 80	243	377	275	335	308	275	40	-	1 1/2"	2"
LN 100	267	-	275	331	334	275	40	-	1 1/2"	2"
LN 120	307	-	300	-	430	300	50	-	2"	2"

MATERIALS OF CONSTRUCTION

PARTS	A	P	AC	ACV	H
LIQUID END	AISI 316L	PVC	AISI 316L	AISI 316L	AISI 316L
PLUNGER	AISI 316L	CERAMIC	CERAMIC	CERAMIC	CERAMIC
PACKING	TEFLON/PTFE	TEFLON/PTFE	TEFLON/PTFE	VULKOLLAN POLYURETHAN	TEFLON/PTFE
VALVE SEAT	AISI 316L	PVC	AISI 316L	AISI 316L	INCOLOY 825
VALVE	AISI 316L	PIREX	AISI 316L	AISI 316L	PIREX
VALVE SEAL	VITON/FPM	VITON/FPM	VITON/FPM	VITON/FPM	VITON/FPM