

P

Plunger Piston Motor-driven pumps

The metering pumps **P series** are driven by an electric motor, the dosage takes place thanks to a piston. The **P series** pumps make their robustness and reliability their main characteristic..

GENERAL FEATURES

- Max Flow Rate:
 - 1027 l/h at 50Hz
 - 1004 l/h at 60Hz
- Max Pressure: 25 bar.
- Standard power supply: 230-400V 3fase 50Hz.
- Motor: 0.25, 0.37, 0.55 or 0.75 kW.
- Frequency:
 - 60, 103 and 120 strokes/min at 50Hz
 - 72 and 122 strokes/min at 60Hz
- Pump head: PVC, SS316L or PVDF.
- Valves:
 - PVC pump head – double ball valves, except for piston $\Phi 95$ with single ball
 - SS316L – Single ball, except for piston $\Phi 16$ and $\Phi 30$ with double balls
- Balls: ceramic or SS316L.
- Ball seats: FPM, EPDM or NBR.
- Valves seats: PVC or PVDF.
- Piston in SS316 or Ceramic.
- Piston seals NBR, FPM or EPDM.
- Die-cast aluminum housing protected by epoxy/anti-acid paint.
- Protection degree: IP55.
- Insulation class: F.



On request, ST-D pumps series can be equipped with

- Motorizations:
 - Without motor.
 - UL/CSA motor certification.
 - Single-phase motor.
 - Self-ventilated motor.
 - ATEX motor.
 - Tropicalized motor.
- Hydraulic:
 - NPT hydraulic connections.
 - Larger dimensions valves.
- Regulation and control by an external signal:
 - Electric actuator (automatic adjustment of piston "run" by a 4-20mA signal).
 - Inverter (automatic adjustment of motor speed by a 4-20mA signal).



TECHNICAL FEATURES

Model	Flow Rate		Pressure bar(psi)				Strokes /min		Lenght	Piston	Power	Valves
	l/h(Gal/h)		AISI		PVC				mm	(Φ) mm		
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50Hz	60Hz			kw	
BP0014	14(3.69)	17(4.49)	25(360)	25(360)	-	-	60	72	20	16	0,25	½" Gm
BP0024	24(6.34)	29(7.66)	25(360)	25(360)	-	-	103	122	20	16	0,25	½" Gm
BP0029	29(7.66)	-	25(360)	-	-	-	120	-	20	16	0,25	½" Gm
BP0052	52(13.74)	63(16.64)	20(290)	20(290)	10(145)	10(145)	60	72	20	30	0,25	½" Gm
BP0088	88(23.25)	106(28)	20(290)	18(261)	10(145)	10(145)	103	122	20	30	0,25	½" Gm
BP0103	103(27.21)	-	18(261)	-	10(145)	-	120	-	20	30	0,25	½" Gm
BP0128	128(33.81)	153(40.42)	12(174)	9.5(138)	10(145)	9.5(138)	60	72	20	48	0,25	¾" Gm
BP0220	220(58.12)	260(68.68)	9(131)	7.5(109)	9(131)	7.5(109)	103	122	20	48	0,25	¾" Gm
BP0256	256(67.63)	-	7.5(109)	-	7.5(109)	-	120	-	20	48	0,25	¾" Gm
BP0251	251(66.31)	302(79.78)	6(87)	5(72)	6(87)	5(72)	60	72	20	67	0,25	1" Gm
BP0431	431(113.86)	512(135.26)	4.5(65)	3.5(51)	4.5(65)	3.5(51)	103	122	20	67	0,25	1" Gm
BP0503	503(132.88)	-	3.5(51)	-	3.5(51)	-	120	-	20	67	0,25	1" Gm
BP0128*	128(33.81)	153(40.42)	18(262)	14(210)	10(145)	10(145)	60	72	20	48	0,37	¾" Gm
BP0220*	220(58.12)	260(68.68)	16(232)	13(189)	10(145)	10(145)	103	122	20	48	0,37	¾" Gm
BP0256*	256(67.63)	-	13(189)	-	10(145)	-	120	-	20	48	0,37	¾" Gm
BP0251*	251(66.31)	302(79.78)	9(131)	7.5(109)	9(131)	7.5(109)	60	72	20	67	0,37	1" Gm
BP0431*	431(113.86)	512(135.26)	7(102)	5.35(80)	7(102)	5.35(80)	103	122	20	67	0,37	1" Gm
BP0503*	503(132.88)	-	6(87)	-	6(87)	-	120	-	20	67	0,37	1" Gm
BP0251*	251(66.31)	302(79.78)	11(160)	9.5(138)	10(145)	9.5(138)	60	72	20	67	0,55	1" Gm
BP0431*	431(113.86)	512(135.26)	9(131)	8(116)	9(131)	8(116)	103	122	20	67	0,55	1" Gm
BP0503*	503(132.88)	-	8(116)	-	8(116)	-	120	-	20	67	0,55	1" Gm
BP0513	513(135.5)	614(162.2)	5.5(80)	4.5(65)	5.5(80)	4.5(65)	60	72	20	95	0,55	1½" Gm
BP0838	838(221.4)	1004(265.2)	4(58)	3(44)	4(58)	3(44)	103	122	20	95	0,55	1½" Gm
BPI027	1027(271.3)	-	3(44)	-	3(44)	-	120	-	20	95	0,55	1½" Gm
BP0251*	251(66.31)	302(79.78)	19(276)	17(254)	10(145)	10(145)	60	72	20	67	0,75	1" Gm
BP0431*	431(113.86)	512(135.26)	16(239)	14(210)	10(145)	10(145)	103	122	20	67	0,75	1" Gm
BP0503*	503(132.88)	-	14(210)	-	10(145)	-	120	-	20	67	0,75	1" Gm
BP0513*	513(135.5)	614(162.2)	12(174)	10(145)	10(145)	10(145)	60	72	20	95	0,75	1½" Gm
BP0838*	838(221.4)	1004(265.2)	8(116)	6.5(94)	8(116)	6.5(94)	103	122	20	95	0,75	1½" Gm
BPI027*	1027(271.3)	-	6.5(94)	-	6.5(94)	-	120	-	20	95	0,75	1½" Gm

*version with increased engine



Pump Head Configurations

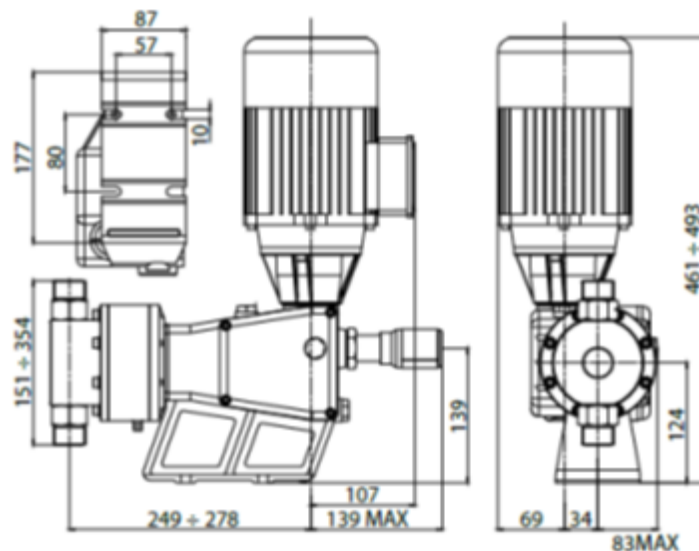
- Standard

Version	Head	Connections	Piston	Piston seals	Valves seats	Balls	Ball seats
AA	SS316L	SS316L	SS316L	NBR	PVDF	SS316L	NBR
BA	PVC	PVC	PTFE	Ceramica	PVC	Ceramica	FPM

-On request

Version	Head	Connections	Piston	Piston seals	Valves seats	Balls	Ball seats
AP	SS316L	SS316L	SS316L	FPM	PVDF	SS316L	FPM
AI	SS316L	SS316L	SS316L	EPDM	PVDF	SS316L	EPDM
BA	PVC	PVC	Ceramic	FPM	PVC	Ceramic	FPM
BI	PVC	PVC	Ceramic	EPDM	PVC	Ceramic	EPDM
SA	PVDF	PVDF	Ceramic	FPM	PVDF	Ceramic	FPM
SI	PVDF	PVDF	Ceramic	EPDM	PVDF	Ceramic	EPDM

OVERALL DIMENSIONS



P SERIES

Plunger Piston Motor-driven pumps



PRODUCT CODES

Codice	Descrizione	Codice	Descrizione
BP0014AA0000	14 l/h – 25 bar SS316L Pump Head	BP0014BA0000	14 l/h – 10 bar PVC Pump Head
BP0024AA0000	24 l/h – 25 bar SS316L Pump Head	BP0024BA0000	24 l/h – 10 bar PVC Pump Head
BP0029AA0000	29 l/h – 25 bar SS316L Pump Head	BP0029BA0000	29 l/h – 10 bar PVC Pump Head
BP0052AA0000	52 L/h – 20 bar SS316L Pump Head	BP0052BA0000	52 L/h – 10 bar PVC Pump Head
BP0088AA0000	88 l/h – 20 bar SS316L Pump Head	BP0088BA0000	88 l/h – 10 bar PVC Pump Head
BP0103AA0000	103 l/h – 18 bar SS316L Pump Head	BP0103BA0000	103 l/h – 10 bar PVC Pump Head
BP0128AA0000	128 l/h – 12 bar SS316L Pump Head	BP0128BA0000	128 l/h – 10 bar PVC Pump Head
BP0220AA0000	220 l/h – 9 bar SS316L Pump Head	BP0220BA0000	220 l/h – 9 bar PVC Pump Head
BP0256AA0000	256 l/h – 7,5 bar SS316L Pump Head	BP0256BA0000	256 l/h – 7,5 bar PVC Pump Head
BP0251AA0000	251 l/h – 6 bar SS316L Pump Head	BP0251BA0000	251 l/h – 6 bar PVC Pump Head
BP0431AA0000	431 l/h – 4,5 bar SS316L Pump Head	BP0431BA0000	431 l/h – 4,5 bar PVC Pump Head
BP0503AA0000	503 l/h – 3,5 bar SS316L Pump Head	BP0503BA0000	503 l/h – 3,5 bar PVC Pump Head
BP0128AA0600	128 l/h – 18 bar SS316L Pump Head	BP0128BA0600	128 l/h – 10 bar PVC Pump Head
BP0220AA0600	220 l/h – 16 bar SS316L Pump Head	BP0220BA0600	220 l/h – 10 bar PVC Pump Head
BP0256AA0600	256 l/h – 13 bar SS316L Pump Head	BP0256BA0600	256 l/h – 10 bar PVC Pump Head
BP0251AA0600	251 l/h – 9 bar SS316L Pump Head	BP0251BA0600	251 l/h – 9 bar PVC Pump Head
BP0431AA0600	431 l/h – 7 bar SS316L Pump Head	BP0431BA0600	431 l/h – 7 bar PVC Pump Head
BP0503AA0600	503 l/h – 6 bar SS316L Pump Head	BP0503BA0600	503 l/h – 6 bar PVC Pump Head
BP0251AA0700	251 l/h – 11 bar SS316L Pump Head	BP0251BA0700	251 l/h – 10 bar PVC Pump Head
BP0431AA0700	431 l/h – 9 bar SS316L Pump Head	BP0431BA0700	431 l/h – 9 bar PVC Pump Head
BP0503AA0700	503 l/h – 8 bar SS316L Pump Head	BP0503BA0700	503 l/h – 8 bar PVC Pump Head
BP0513AA0700	513 l/h – 5,5 bar SS316L Pump Head	BP0513BA0700	513 l/h – 5,5 bar PVC Pump Head
BP0838AA0700	838 l/h – 4 bar SS316L Pump Head	BP0838BA0700	838 l/h – 4 bar PVC Pump Head
BP1027AA0700	1027 l/h – 3 bar SS316L Pump Head	BP1027BA0700	1027 l/h – 3 bar PVC Pump Head
BP0251AA0900	251 l/h – 19 bar SS316L Pump Head	BP0251BA0900	251 l/h – 10 bar PVC Pump Head
BP0431AA0900	431 l/h -16,5 bar SS316L Pump Head	BP0431BA0900	431 l/h -10 bar PVC Pump Head
BP0503AA0900	503 l/h – 14,5 bar SS316L Pump Head	BP0503BA0900	503 l/h – 10 bar PVC Pump Head
BP0513AA0900	513 l/h – 12 bar SS316L Pump Head	BP0513BA0900	513 l/h – 10 bar PVC Pump Head
BP0838AA0900	838 l/h – 8 bar SS316L Pump Head	BP0838BA0900	838 l/h – 8 bar PVC Pump Head
BP1027AA0900	1027 l/h – 6,5 bar SS316L Pump Head	BP1027BA0900	1027 l/h – 6,5 bar PVC Pump Head

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