

# Serie ZP1 / ZP2 / ZP3

## Positive Displacement Pumps

ZP Pumps Series are circumferential piston pumps, 100% compatible and interchangeable hydraulic and dimensionally with other brands in the market.

### Characteristics

- Rotors made of Nickel-based Alloy 88
- Oil seal retainer holders made of stainless steel T-304
- One piece high torque shafts made of S.S. alloy 17-4 ph H1150
- Helical gears
- Four mounting positions option available
- Greasers threaded on both sides of the gear box
- Mechanical seals with wave spring made of S.S. alloy 17-7 ph
- Threaded oil caps and sight glass
- Self-cleaning gaskets on oil caps and sight glass



## ZP3 Series

The front loading seals of the ZP3 Series are located close to the fluid allowing the pump to be 100% CIP-able without disassembling the pumps eliminating dead zones along the shafts, rotors and casing reducing the shutdown time and easing maintenance procedures.

ZP3 Series is 100% drainable because of the casing design in a vertical position (inlet/outlet).

Any ZP2 and equivalent pumps can be upgraded to ZP3, and every ZP3 pump can even be remanufactured 3 times.

## Applications

ZP Series pumps are designed for sanitary pumping applications mainly high viscosity products (up to 1,000,000 cP) for food, dairy, beverages, pharmaceutical and many others industries. Because of their close inner clearances these pumps can handle fluids such as water (low viscosity) to toothpaste (very high viscosity).

To verify the compatibility and interchangeability with other brands please visit [www.qpumps.com](http://www.qpumps.com) for the cross reference.

## Models

Q-Pumps	Other Brands
ZP1	Universal 1/TRA 10
ZP2	Universal 2/TRA 20
ZP3	Don't have this technology

## Technical Information ZP1 Series

ZP1 Model	Maximum Nominal Capacity		Displacement		Maximum Differential Pressure		Standard Connection		Optional Connection		Maximum Speed RPM	Temperature Range	
	GPM	LPM	Galons / per rev.	Liters / per rev.	PSI	Bar	in.	mm	in.	mm		°F	°C
6	6.56	24.8	0.0082	0.031	200	13.8	1	25	1½"	38	800	-40° a 300°	-40° a 149°
15	9.94	37.6	0.0142	0.054	200	13.8	1½"	38	-	-	700		
18	17.4	65.9	0.029	0.110	200	13.8	1½"	38	2"	51	600		
30	36.0	136.3	0.060	0.227	200	13.8	1½"	38	2"	51	600		
40	45.6	172.6	0.076	0.288	150	10.3	2"	51	2½"	64	600		
60	91.8	347.5	0.153	0.579	200	13.8	2½"	64	3"	76	600		
130	152.4	576.8	0.254	0.961	200	13.8	3"	76	-	-	600		
220	313.2	1185.5	0.522	1.976	200	13.8	4"	102	-	-	600		
320	452.4	1712.3	0.754	2.854	200	13.8	6"	152	-	-	600		
323	369.6	1398.9	0.616	2.332	225	15.5	6"	152	-	-	600		

	Maximum Nominal Capacity		Displacement		Maximum Differential Pressure		Rectangular Inlet (W x L)		Outlet		Maximum Speed RPM	Temperature Range	
	GPM	LPM	Galons / per rev.	Liters / per rev.	PSI	Bar	in.	mm	in.	mm		°F	°C
34	24.0	90.8	0.060	0.227	200	13.8	1.75 x 6.75	44 x 171	2"	51	400	-40° a 300°	-40° a 149°
64	61.2	231.6	0.153	0.579	200	13.8	2.24 x 8.82	57 x 224	2½" (3")	64 (76)	400		
134	101.6	384.6	0.254	0.961	200	13.8	2.97 x 9.25	75 x 235	3"	76	400		
224	208.4	788.8	0.521	1.972	200	13.8	3.78 x 11	98 x 279	4"	102	400		

## Technical Information ZP2 / ZP3 Series

Modelo ZP2 / ZP3	Maximum Nominal Capacity		Displacement		Maximum Differential Pressure		Standard Connection		Optional Connection		Maximum Speed RPM	Temperature Range	
	GPM	LPM	Galons / per rev.	Liters / per rev.	PSI	Bar	in.	mm	in.	mm		°F	°C
6	8.2	31.0	0.0082	0.031	300	20.7	1"	25	1½"	38	1000	-40° a 300°	-40° a 149°
15	11.36	43.0	0.0142	0.054	250	17.2	1½"	38	-	-	800		
18	20.3	76.8	0.029	0.110	200	13.8	1½"	38	2"	51	700		
30	36.0	136.3	0.060	0.227	250	17.2	1½"	38	2"	51	600		
40	45.6	172.6	0.076	0.288	150	10.3	2"	51	2½"	64	600		
45	58.8	222.6	0.098	0.371	450	31.0	2"	51	-	-	600		
60	91.8	347.5	0.153	0.579	300	20.7	2½"	64	3"	76	600		
130	152.4	576.8	0.254	0.961	200	13.8	3"	76	-	-	600		
180	228.0	863.0	0.380	1.438	450	31.0	3"	76	-	-	600		
210	301.2	1140.0	0.502	1.900	500	34.5	4"	102	-	-	600		
220	313.2	1185.5	0.522	1.976	300	20.7	4"	102	-	-	600		
320	452.4	1712.3	0.754	2.854	300	20.7	6"	152	-	-	600		

	Maximum Nominal Capacity		Displacement		Maximum Differential Pressure		Rectangular Inlet (W x L)		Outlet		Maximum Speed RPM	Temperature Range	
	GPM	LPM	Galons / per rev.	Liters / per rev.	PSI	Bar	in.	mm	in.	mm		°F	°C
34	24.0	90.8	0.060	0.227	250	17.2	1.81 x 6.84	44 x 174	2"	51	400	-40° a 300°	-40° a 149°
64	61.2	231.6	0.153	0.579	300	20.7	2.44 x 9.0	62 x 229	2½" (3")	64 (76)	400		
134	101.6	384.6	0.254	0.961	200	13.8	3.19 x 9.38	81 x 238	3"	76	400		
224	208.4	788.8	0.521	1.972	300	20.7	4.06 x 11.25	103 x 286	4"	102	400		



### Reference Data

**VSP COMPONENTI PER INDUSTRIA ALIMENTARE E FARMACEUTICA**



0331 / 13.51.403  
0331 / 15.86.028



vsp-italia@libero.it



www.pompealimentari.it