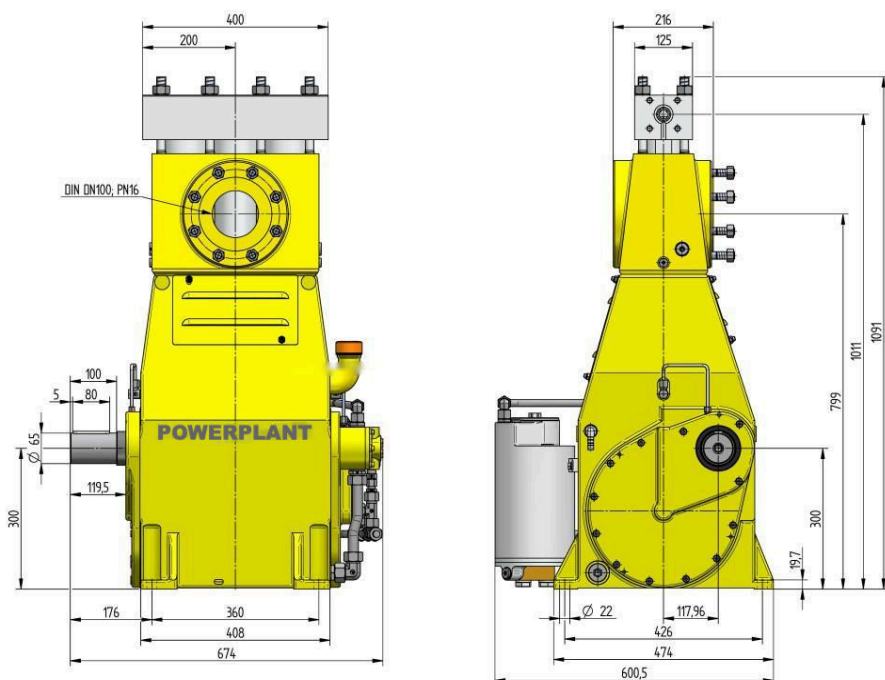


## P3 - 200 High Pressure plunger Pump Series

Suze high pressure pumps are built to operate at the continuous maximum duty stated in the performance parameters. Just compare the crankshaft speed, average plunger speed, plunger diameter and power rating.

### High pressure pump

Weight: approx. 530 kg



\*\*\* Dimensions vary by version;  
consult the engineer when designing the drawings.

\*\*\* Pump dimensions without accessories.  
The pressure regulating valve,  
safety valve and other mounting accessories  
are available for optional configuration and purchase.



### FEATURES

- Power ratings up to 200 kW
- Vertical 3 cylinder design
- Special seal matching

### Quality and reliability

- Stainless steel pump head free of alternating stress
- Choice of application specific seal plungers
- Choice of stainless steel suction chamber
- Solid ceramic or tungsten carbide
- Crank section calculation by 'Finite element method' ensures long working life under continuous load
- Herringbone built-in gear
- Built-in forced oil lubrication, cooling system and oilfiltration



# P3 - 200 series

## technical data

HDP	Q [l/min]	Required power rating [kW]						D	r.p.m.			
		75	90	110	132	160	200		n 1	n 2		
		Operating pressure [bar]										
A	16/14* 19/17* 22/20*	2600* 2200* 1810	3100* 2600* 2200*	3800* 3200* 2700*	4500* 3800* 3200*	4500* 3900*	4500*	15	1250/1500 1500/1800 1500/1800/2150	416 495 593		
	21/20* 25/24* 30/28*	1900 1600 1330	2300* 1910 1600	2800* 2300* 1950	3200* 2800* 2300*	3200* 3200* 2800*	3200*		17,5	1250/1500 1500/1800 1500/1800/2150	416 495 593	
	26/25* 31/30* 37/36*	1560 1310 1100	1870 1570 1310	2300* 1920 1610	2800* 2300* 1930	3000* 2800* 2300*	3000* 2900*			19,3	1250/1500 1500/1800 1500/1800/2150	416 495 593
	29/28* 34/33* 41/39*	1450 1220 1020	1740 1470 1220	2100* 1800 1500	2600* 2200* 1800	2800* 2600* 2200*	2800* 2700*		20		1250/1500 1500/1800 1500/1800/2150	416 495 593
	B	44 52 62	930 780 650	1120 940 780	1360 1150 960	1640 1380 1150	1800 1670 1400	1800 1740		25	1500 1500/1800 1500/1800/2150	416 495 593
		55 65 78	740 620 520	900 750 620	1100 910 760	1310 1100 920	1430 1300 1110	1430 1400			28	1500 1500/1800 1500/1800/2150
		C	62 73 88	650 540 450	780 650 540	950 800 660	1140 960 800	1240 1160 970		1240 1210		30
			78 92 111	530 450 370	640 540 450	780 660 550	940 800 660	1030 960 800	1030 1000	33	1500 1500/1800 1500/1800/2150	
84 100 119			470 400 330	570 480 400	700 600 500	840 700 600	910 850 710	910 900	35		1500 1500/1800 1500/1800/2150	416 495 593
111 132 158			360 310 250	440 370 310	530 450 370	640 540 450	700 650 540	700 680		40	1500 1500/1800 1500/1800/2150	416 495 593
141 168 202			300 240 200	340 300 240	420 350 300	510 420 350	550 510 430	540	45		1500 1500/1800 1500/1800/2150	416 495 593
176 210 252			230 200 160	280 230 200	340 300 240	410 340 300	450 420 350	440		50	1500 1500/1800 1500/1800/2150	416 495 593
213 254 304	200 160 130		230 200 160	280 240 200	340 280 240	370 340 300	370 360	55	1500 1500/1800 1500/1800/2150		416 495 593	
251 299 358	160 140 110		200 160 140	240 200 170	280 240 200	310 300 240	310 300		60	1500 1500/1800 1500/1800/2150	416 495 593	
298 355 425	140 120 100		170 140 120	200 170 140	240 200 170	270 250 210	270 260	65		1500 1500/1800 1500/1800/2150	416 495 593	
342 407 488	120 100 80		140 120 100	170 150 120	210 180 150	230 210 180	230 230 220		70	1500 1500/1800 1500/1800/2150	416 495 593	

\*Flow rate under Ultra high pressure

- Stroke: 75 mm
- Piston speed at n  
416 r.p.m. = 1,04 m/sec  
495 r.p.m. = 1,24 m/sec  
593 r.p.m. = 1,48 m/sec

n1 = Motor/Engine r.p.m.  
n2 = Crankshaft r.p.m.

Conversion table  
Rating 1 kW = 1.34 HP  
Op. pressure 1 bar = 14.5 psi  
Flow rate 1 l = 0.264 US gallon  
Flow rate 1 l = 0.22gpm

Suze plunger pumps convert 93 to 98 % of the shaft power to hydraulic energy.

Reasonably use the piston linear speed according to the project requirements

D = Plunger dia. [mm]

\*\*\* The latest high-precision high-pressure packingless seal has absolute advantages in current applications and brings significant benefits to projects, including long service life and low failure rate.

Conversion table  
Rating 1 kW = 1.34 HP  
Op. pressure 1 bar = 14.5 psi  
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