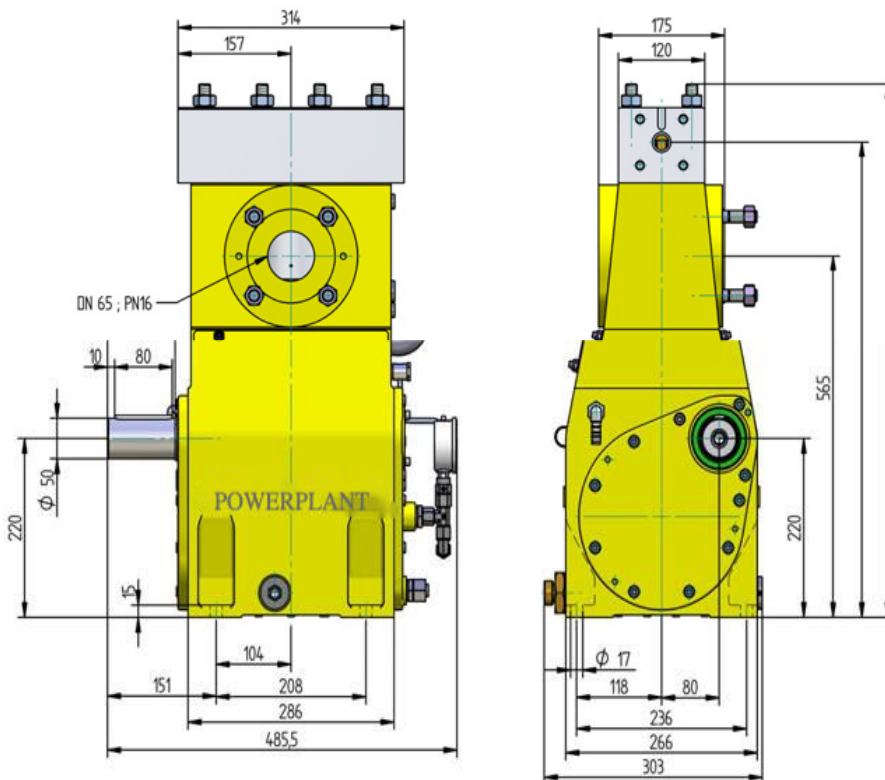


P3 - 75 High Pressure plunger Pump Series

Suze high pressure plunger 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 plunger pump

Weight: approx. 220kg



FEATURES

- Power ratings up to 75kW
- 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 oil filtration

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

P3-75 series

technical data

P3	Q [l/min] (±2%)	Required power rating [kW]					PLUNGER mm D	r.p.m.	
		30	37	45	55	75		n 1	n 2
		Operating pressure [bar]							
A	5,9 / 4,9* 7,1 / 5,9* 8,5 / 7,0*	2900* 2400* 2000*	3600* 3000* 2500*	4400* 3600* 3000*	4500* 4400* 3700*	4500*	10	1500 1500/1800 1800/2150	625 750 900
	7,5 / 7,2* 9,0 / 8,7* 11,0 / 10,0*	2000* 1680 1400	2500* 2100* 1730	3000* 2500* 2100*	3700* 3100* 2600*	3800* 3300*		12	1500 1500/1800 1800/2150
	12,0 / 11,0* 14,0 / 14,0* 17,0 / 16,0*	1300 1080 900	1600 1330 1110	1940 1610 1340	2400* 1970 1640	2400* 2100*	15		1500 1500/1800 1800/2150
	16 20 24	950 800 660	1170 970 810	1420 1180 1000	1740 1450 1210	1800 1540		17,5	1500 1500/1800 1800/2150
*Flow rate under Ultra high pressure									
B	21 26	730 600	900 750	1100 910	1330 1110	1370	20	1500 1500/1800 1500	625 750
	C	26 31	600 500	740 620	900 750	1100 920		1130	22
32 38		500 420	620 520	760 630	920 770	950	24	1500/1800 1500	
38 45		430 360	530 440	640 540	800 660	810		26	1500/1800 1500
50 60		320 270	400 330	480 400	600 500	610	30		1500/1800 1500
69 82		240 200	300 240	360 300	430 360	450		35	1500/1800 1500
90 109		180 150	220 200	270 230	330 280	340	40		1500/1800 1500
113 136		140 120	180 150	220 180	260 220	270		45	1500/1800 1500
140 168		120 100	140 120	170 150	210 180	220	50		1500/1800 1500
169 203		100 80	120 100	140 120	180 150	180		55	1500 1500/1800

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 = 0.22 gpm

- Stroke: 40 mm
- Input speed at n₁
- Piston speed at n₂
625 r.p.m. = 0,84 m/sec
750 r.p.m. = 1,00 m/sec
900 r.p.m. = 1,20 m/sec

Reasonably use the piston linear speed according to the project requirements

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

*** 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.