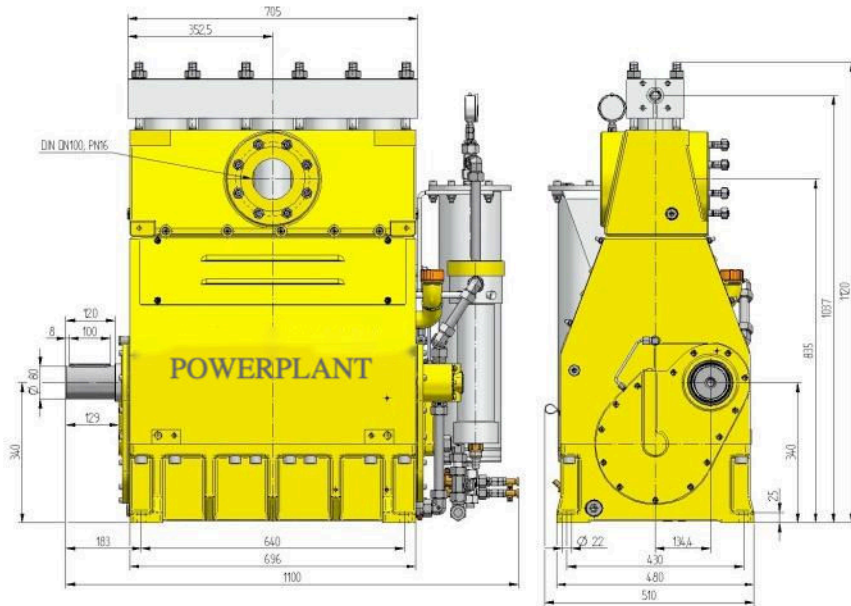


P5 - 355 High Pressure plunger Pump series

Size 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. 1100 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 355kW
- Vertical 5 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

P5-355 series

technical data

P5	Q [l/min]	Required power rating [kW]						D	r. p. m.	
		110	132	200	250	315	355		n 1	n 2
		Operating pressure [bar]								
A	26/24*	2300*	2800*	4200*	4500*			1500	411	
	31/29*	1920	2300*	3500*	4400*	4500*	15	1500/1800	493	
	37/35*	1600	1920	2900*	3600*	4400*		1800/2150	591	
	35/33*	1700	2000*	3100*			17,5	1500	411	
	42/40*	1410	1700	2600*	3200*			1500/1800	493	
	51/47*	1180	1410	2100	2700*	3200*		1800/2150	591	
	42/40*	1400	1670	2500*	3000*		19,3	1500	411	
	51/48*	1160	1400	2100*	2600*	3000*		1500/1800	493	
	61/58*	970	1160	1760	2200*	2600*		1800/2150	591	
	46/43*	1300	1550	2400	2800*		20	1500	411	
	55/51*	1080	1300	1960	2500*	2800*		1500/1800	493	
	65/61*	900	1080	1640	2100*	2500*		1800/2150	591	
	B	72	830	1000	1510	1800		25	1500	411
		86	700	830	1260	1570	1800		1500/1800	493
		103	580	700	1050	1310	1570		1800/2150	591
		89	660	800	1200	1430		28	1500	411
107		550	660	1000	1250	1430		1500/1800	493	
128		460	550	840	1040	1250		1800/2150	591	
C		101	580	700	1050	1240		30	1500	411
		122	480	580	870	1100	1240		1500/1800	493
		146	400	480	730	910	1100		1800/2150	591
		127	480	570	860	1030		33	1500	411
		152	400	480	720	900	1030		1500/1800	493
		182	330	400	600	750	900		1800/2150	591
		139	420	510	770	910		35	1500	411
		167	350	420	640	800	910		1500/1800	493
		200	300	350	530	670	800		1800/2150	591
		184	320	400	600	700		40	1500	411
	221	270	320	500	610	700		1500/1800	493	
	265	230	270	410	510	610		1800/2150	591	
	235	260	310	470	550		45	1500	411	
	282	210	260	400	480	550		1500/1800	493	
	338	180	210	320	400	500		1800/2150	591	
	294	210	250	380	450		50	1500	411	
	352	170	210	310	400	450		1500/1800	493	
	422	140	170	260	330	400		1800/2150	591	
	355	170	210	310	370		55	1500	411	
	426	140	170	260	320	370		1500/1800	493	
	511	120	140	220	270	320		1800/2150	591	
	418	140	170	260	310		60	1500	411	
	502	120	140	220	270	310		1500/1800	493	
	602	100	120	180	230	270		1800/2150	591	
491	120	150	220	270		65	1500	411		
589	100	120	200	230	270		1500/1800	493		
706	100	100	160	200	230		1800/2150	591		
569	110	130	200	230		70	1500	411		
683	100	110	160	200	230		1500/1800	493		
819	70	100	130	170	200		1800/2150	591		
744	80	100	150	180		80	1500	411		
892	70	80	120	150	180		1500/1800	493		
1069	60	70	100	130	150		1800/2150	591		

* Flow rate under Ultra high pressure

- Stroke: 75 mm
- Piston speed at n₂
411 r.p.m. = 1,02 m/sec
493 r.p.m. = 1,23 m/sec
591 r.p.m. = 1,48 m/sec

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

Reasonably use the piston linear speed according to the project requirements

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

D = Piston/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.

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