

HDP 200 High Pressure Pump Series

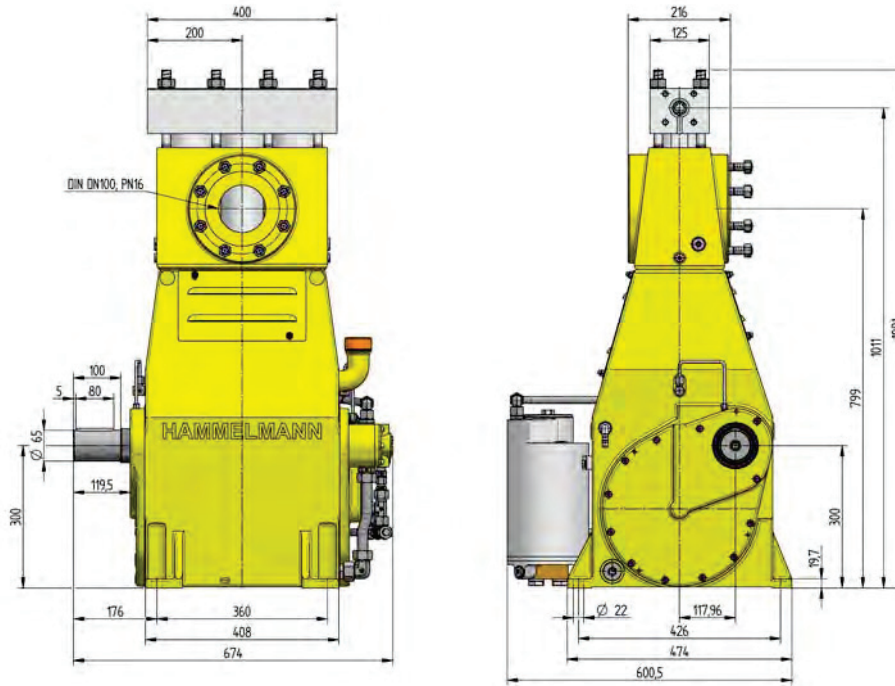


MultiJet Offshore Pump Units

Hammelmann 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. 525 kg

Energy efficient →



Features

- Power ratings up to 170 kW
- Vertical 3 cylinder design
- Wide variety of complementary ancillaries

Quality and reliability

- Crank section calculation by 'Finite element method' ensures long working life under continuous load
- Stainless steel pump head free of alternating stress
- Integral speed reduction gear
- Pressurised oil lubrication system with oil cooler/filter
- Bellows form hermetic seal between the suction chamber and crank section
- Solid ceramic or tungsten carbide plungers
- Choice of application specific seal assemblies
- Choice of bronze (standard) or stainless steel suction chamber



Typical Data
 Length: 2995 mm
 Width: 2492 mm
 Height: 2882 mm
 Weight: 8200 kg



HDP 200 series, technical data

Performance parameters (Standard design)

Note: Actual flow rates for water as pumped medium (volumetric efficiency has already been taken into account).

HDP	Q [l/min]	Required power rating [kW]						D	r.p.m.	
		75	90	110	132	160	170		n 1	n 2
		Operating pressure [bar]								
204	28	1350	1600	2000*	2350*	2850*	3200*	17,5	2150	593
	40	1000	1200	1500	1750	2150*	2253*	20	2150	593
* Ultra high pressure										
203	62	650	800	950	1150	1400	1454	25	2150	593
	78	500	600	750	900	1100	1156	28	2150	593
202	87	450	550	650	800	950	1036	30	2150	593
	110	370	450	550	660	800	820	33	2150	593
	120	330	400	490	580	710	751	35	2150	593
	158	250	310	370	450	540	571	40	2150	593
	202	200	240	300	360	430	447	45	2150	593
	252	160	200	240	290	350	358	50	2150	593
	303	140	160	200	240	290	298	55	2150	593
	359	110	140	170	200	240	251	60	2150	593
	425	100	120	140	170	210	212	65	2150	593
	489	80	100	120	150	180	185	70	2150	593

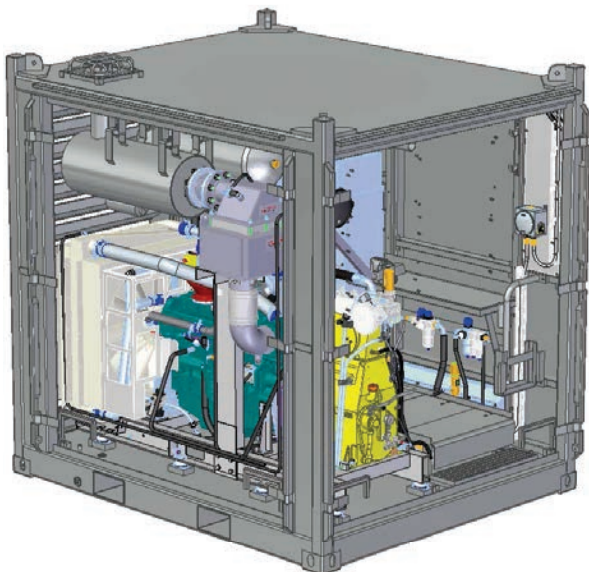
HDP	Seal **	Sealing system
204	Dynamic	Tungsten carbide plunger & bushing
	Packing	Special ceramic plunger *** / packing
203	Dynamic	Ceramic plunger / bronze bushing
	Packing	Ceramic plunger / packing
202	Dynamic	Ceramic plunger / bronze bushing
	Packing	Ceramik plunger / packing

D = Piston/Plunger dia. [mm]
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
1 l = 0.22 Imp. gallon

** The dynamic high pressure sealing extends the advantages of the labyrinth design with further increased efficiency.
*** Special ceramic plungers up to max. 3000 bar.

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



- Rod force: 88 kN
- Stroke: 75 mm
- Mean piston speed at n₂
416 r.p.m. = 1,04 m/sec
495 r.p.m. = 1,24 m/sec
593 r.p.m. = 1,48 m/sec

Every MultiJet unit is designed, built and tested by Calder



Diesel Units



Electric Units



Lightweight Units

