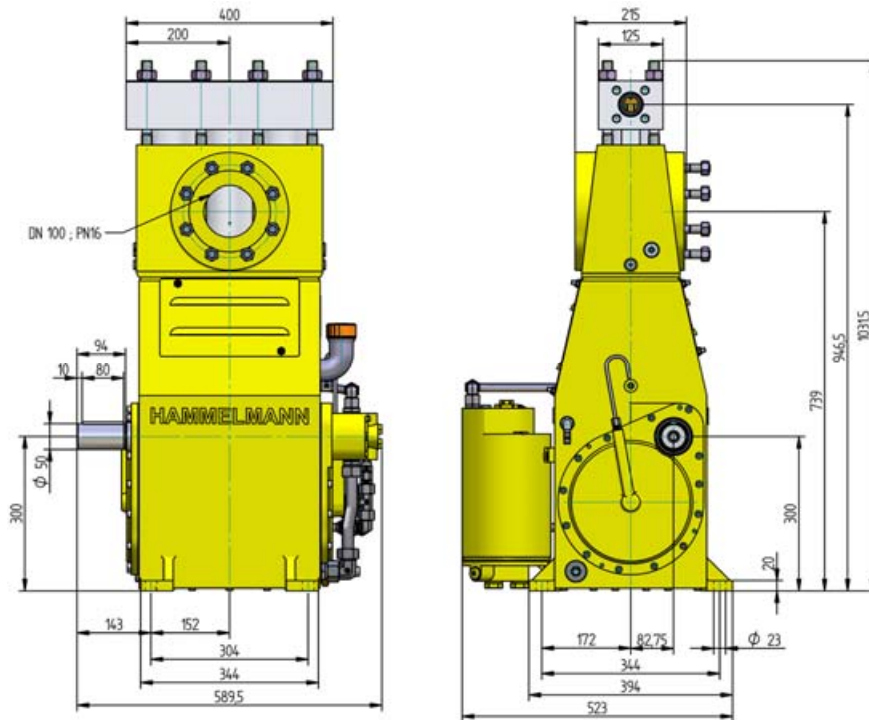


HDP 125 process plunger pump

Hammelmann process pumps are built to operate at continuous maximum duty. Just compare the crankshaft speed, average plunger speed, plunger diameter and power rating.

High pressure pump

Weight: approx. 380 kg



Features

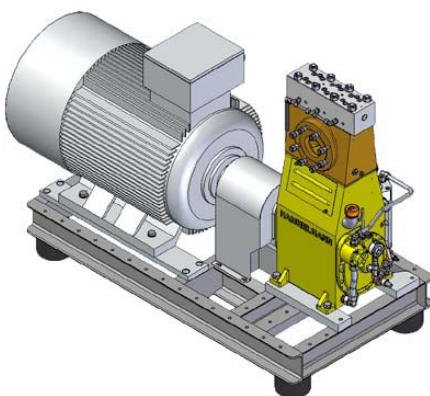
- Power ratings up to 90 kW
- Vertical 3 cylinder design
- Wide variety of complementary ancillaries

Quality and reliability

- Crank section calculation by 'Finite element method' ensures long working life under continuous load
- Twin helical integral reduction gear with crankshaft supported by 2 bearings
- Pressurised oil lubrication system incorporating an oil pump and oil cooler/filter unit
- Bellows form hermetic seal between the suction chamber and crank section
- Bronze or stainless steel suction chamber
- Solid ceramic or tungsten carbide plungers
- Stainless steel pump head free of alternating stress
- Choice of performance and pumped medium specific seal and pump head assemblies

Stationary unit with electric motor

Length: 1856 mm
Width: 850 mm
Height: 1290 mm
Weight: approx. 1600 kg at 75 kW



Main dimensions without accessories such as pulsation damper, safety valve etc. Relevant drawings and weights available on request.



TA-Luft (Clean Air) certified to VDI 2440

In the Zero Emission design the pumped fluid is hermetically sealed within the pump preventing leakage to atmosphere during operation.



The bellows system is gastight.

HDP 125 series, technical data

Performance parameters

Q [m³/hr.]*	Required power rating [kW]**					D	r.p.m.	
	37	45	55	75	90		n 1	n 2
Operating pressure [bar]								
0,52	2180	2650	3000	3000		17,5	1000	245
0,62	1800	2200	2650	3000			1000/1200	295
0,76	1500	1800	2250	3000			1200	350
0,79	1450	1770	2160	2950	3000		1500	365
0,70	2030	2480	2610	2610			1000	245
0,84	1690	2060	2610	2610		1000/1200	295	
1,01	1400	1720	2340	2600		1200	350	
1,04	1350	1650	2250	2250	2600	1500	365	
* At pressures over 2000 bar approx. 5% of the flow rate is lost due to the compressibility factor of water								
1,11	1070	1300	1590	1670		25	1000	245
1,34	890	1080	1320	1670			1000/1200	295
1,61	740	900	1100	1500	1670		1200	350
1,67	710	860	1060	1440	1670		1500	365
1,60	740	900	1100	1160			30	1000
1,92	610	750	910	1160		1000/1200		295
2,32	510	620	760	1040	1160	1200		350
2,41	490	600	730	1000	1160	1500		365
2,18	540	660	810	850		35		1000
2,62	450	550	670	850			1000/1200	295
3,15	370	460	560	760	850		1200	350
3,27	360	440	540	730	850		1500	365
2,88	410	510	620	650			40	1000
3,46	340	420	510	650		1000/1200		295
4,16	290	350	430	580	650	1200		350
4,32	270	340	410	580	650	1500		365
3,68	330	400	490	510		45		1000
4,42	270	330	400	510			1000/1200	295
5,32	230	280	340	460	510		1200	350
5,53	220	260	320	440	510		1500	365
4,60	270	320	400	420			50	1000
5,52	220	270	330	420		1000/1200		295
6,63	180	220	270	370	420	1200		350
6,89	180	210	260	360	420	1500		365
5,56	220	270	330	340		55		1000
6,67	180	220	270	340			1000/1200	295
8,03	150	180	220	310	340		1200	350
8,33	140	180	220	300	340		1500	365
6,60	180	220	270	290			60	1000
7,94	150	180	230	290		1000/1200		295
9,56	125	150	190	260	290	1200		350
9,92	120	150	180	250	290	1500		365
9,00	130	160	200	210		70		1000
10,81	110	130	160	210			1000/1200	295
13,02	95	115	140	190	210		1200	350
13,51	90	110	130	180	210		1500	365

- Rod force: 82 kN
- Stroke: 55 mm
- Mean piston speed at n₂
 - 245 r.p.m. = 0.45 m/sec
 - 295 r.p.m. = 0.54 m/sec
 - 350 r.p.m. = 0.65 m/sec
 - 365 r.p.m. = 0,67 m/sec



* m³/hr. = Water as measurement fluid
Flow rates can vary with type of medium

** Electric motor

D = Piston/Plunger dia. [mm]

n1 = Motor 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

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