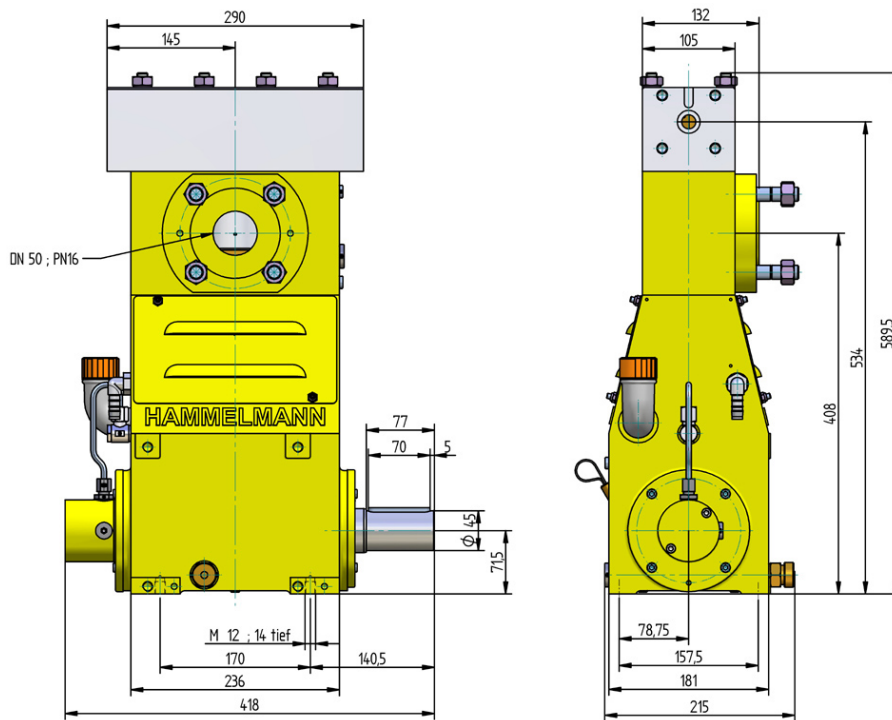


HDP 25 process plunger pump

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

High Pressure Pump

Weight: 95 kg



Features

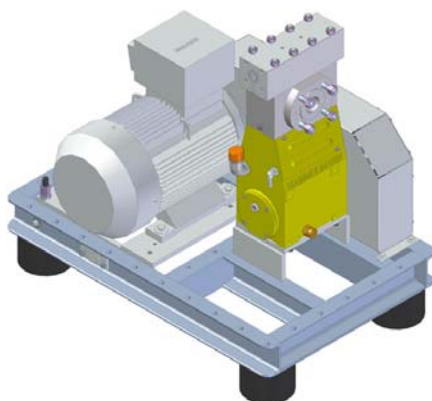
- Power ratings up to 18,5 kW
- Vertical 3 cylinder design
- Wide variety of complementary ancillaries

Quality and reliability

- Crank section calculation by 'Finite element method' ensures long working life under continuous load
- Pressurised oil lubrication system
- 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: 1000 mm
Width: 752 mm
Height: 890 mm
Weight: approx. 450 kg at 18,5 kW



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.

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

HDP 25 series, technical data

Performance parameters

Q [m ³ /h]*	Q [l/min]*	Required power rating [kW]**				D	r.p.m.	
		5,5	7,5	11	15		n ₁	n ₂
		Operating pressure [bar]						

0,082	1,4	1870	2320	3500		8	1000 / 1200	370
0,093	1,6	1650	2250	3200	3500			420
0,111	1,9	1380	1890	2700	3500			500

* At pressures over 2000 bar approx. 5% of the flow rate is lost due to the compressibility factor of water

0,14	2,3	1190	1500	2200		10	1000 / 1200	370
0,16	2,7	1050	1430	2000	2200			420
0,19	3,2	880	1200	1700	2200			500
0,21	3,5	830	1035	1550		12	1000 / 1200	370
0,23	3,8	730	1000	1450	1550			420
0,28	4,7	610	840	1200	1550			500
0,33	5,5	530	660	990		15	1000 / 1200	370
0,38	6,3	460	640	920	990			420
0,45	7,5	390	530	780	990			500
0,46	7,7	390	480	730		17,5	1000 / 1200	370
0,52	8,7	340	470	690	730			420
0,62	10,3	280	390	570	730			500
0,60	10,0	300	370	560		20	1000 / 1200	370
0,68	11,3	260	360	520	560			420
0,81	13,5	220	300	440	560			500
0,94	15,7	190	230	360		25	1000 / 1200	370
1,07	17,9	160	230	330	360			420
1,28	21,3	140	190	280	360			500
1,35	22,5	130	160	250		30	1000 / 1200	370
1,54	25,6	110	160	230	250			420
1,83	30,5	95	130	190	250			500
1,85	30,8	95	120	180		35	1000 / 1200	370
2,10	35,0	85	100	170	180			420
2,50	41,6	70	95	140	180			500
2,42	40,3	70	90	140		40	1000 / 1200	370
2,75	45,8	65	90	130	140			420
3,27	54,5	55	75	110	140			500
3,07	51,1	55	70	110		45	1000 / 1200	370
3,48	58,0	50	70	100	110			420
4,15	69,1	40	55	85	110			500

* 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.

- Rod force: 17,6 kN
- Stroke: 30 mm
- Mean piston speed at n₂

370r.p.m. = 0,37 m/sec

420 r.p.m. = 0,42 m/sec

500 r.p.m. = 0,50 m/sec



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

Hammelmann
Maschinenfabrik GmbH

Postfach 3309 • D-59282 Oelde
Zum Sundern 13-21 • Germany
eMail: pp@hammelmann.de

Telefon (0 25 22) 76-0
Telefax (0 25 22) 76-444
Internet: www.process-pumps.de

HAMMELMANN[®]