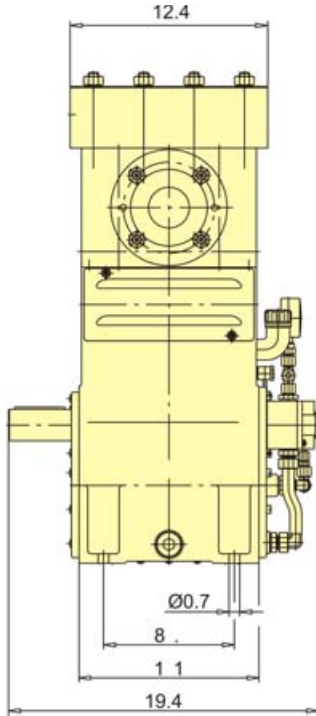


HDP 75 process plunger pump

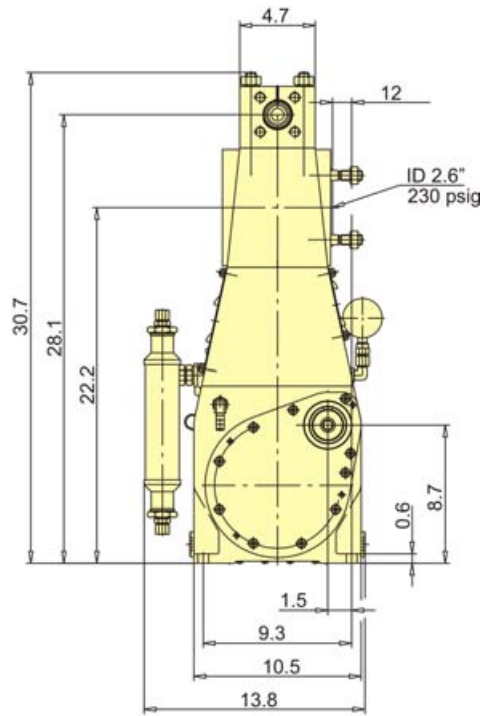
Hammelmann process pumps are built to operate at continuous maximum duty. Just compare the crankshaft speed, average plunger speed, plunger diameter and power rating.

High pressure pump

Weight: approx. 530 lbs



Dimensions: inch



Features

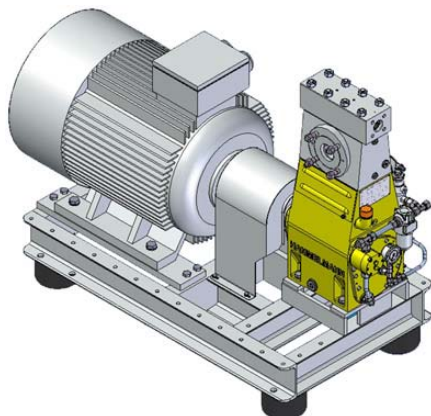
- Power ratings up to 60 HP
- Vertical 3 cylinder design
- Wide variety of complementary ancillaries

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: 59 inch
Width: 28 inch
Height: 43 inch
Weight: approx. 2,500 lbs at 60 HP

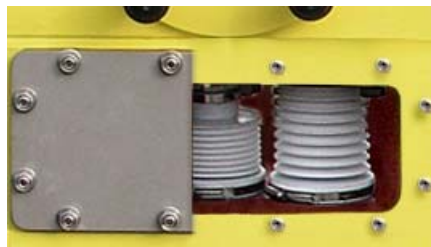


Main dimensions without accessories such as pulsation damper, safety valve etc. Relevant drawings and weights available on request.



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.

HAMMELMANN

HDP 75 series, technical data

Performance parameters

Q [GPM] *	Required power rating [HP]**				D	r.p.m.	
	30	40	50	60		n 1	n 2
	Operating pressure [psig]						
1.3	31900	43500			12	1000	420
1.5	26700	36300	43500			1000/1200	490
2.0	20400	28000	34500		15	1000	420
2.3	17100	23200	28700	34900		1000/1200	490
2.9	15100	20600	25400		17,5	1000	420
3.4	12500	17100	21000	25700		1000/1200	490

* At pressures over 29000 psi approx. 5% of the flow rate is lost due to the compressibility factor of water

3.8	11500	15700	19400		20	1000	420
4.5	9600	13100	16000	19600		1000/1200	490
4.6	9600	13100	16000		22	1000	420
5.5	8000	10900	13300	16200		1000/1200	490
5.6	8000	10900	13500		24	1000	420
6.6	6700	9000	11200	13600		1000/1200	490
6.6	6800	9300	11500		26	1000	420
7.7	5700	7700	9600	11600		1000/1200	490
8.8	5100	7000	8600		30	1000	420
10.3	4200	5800	7100	8700		1000/1200	490
12.1	3800	5100	6400		35	1000	420
14.2	3000	4200	5200	6400		1000/1200	490
16.0	2900	3900	4900		40	1000	420
18.8	2300	3200	4100	4900		1000/1200	490
20.3	2200	3000	3900		45	1000	420
23.7	1900	2500	3200	3800		1000/1200	490
25.0	1900	2500	3000		50	1000	420
29.3	1500	2000	2600	3000		1000/1200	490
30.2	1500	2000	2600		55	1000	420
35.5	1200	1700	2200	2600		1000/1200	490

* GPM = 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 hp = 0,746 kW
Op.pressure 1 psi = 0,069 bar
Flow rate 1 gpm = 0,227 m³/h

- Rod force: 9,670 lbf
- Stroke: 1.57 inch
- Mean piston speed at n₂
420 r.p.m. = 1.84 feet/sec
490 r.p.m. = 2.13 feet/sec

