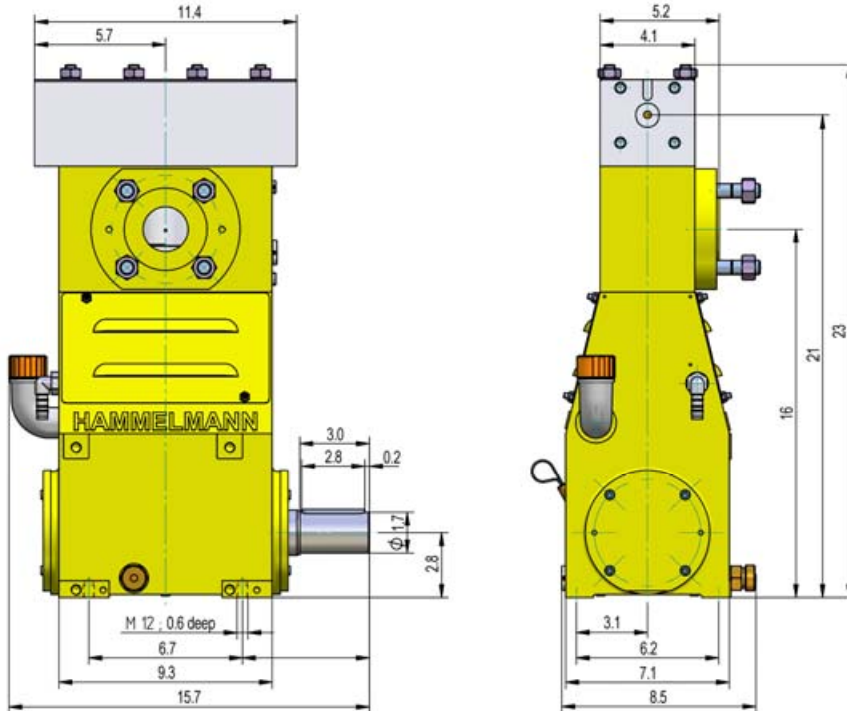


HDP 15 process plunger pump

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: 207 lbs



Dimensions: inches



Features

- Power ratings up to 15 hp
- Vertical 3 cylinder design

Qualität und Zuverlässigkeit

- Crank section calculation by 'Finite element method' ensures long working life under continuous load
- Splash lubricated crank section
- Bellows form hermetic seal between the suction chamber and crank section
- 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
- Continuous monitoring of plunger seals (optional)
- Flow control achieved with variable speed gear or frequency converter
- Flow turndown ratio 1:10
- Operation with flooded suction possible



Recommendations and standards

Machine directive 2006/42/EC
ATEX 94/9/EC
API 674 (with exceptions)

Other customer specified standards, i.e.

NORSOK M501
NORSOK M650
NACE MR 0175



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 15 series, technical data

Performance parameters

Q [GPM]*	Required power rating [HP]**				D	r.p.m.	
	5	7,5	10	15		n ₁	n ₂
Operating pressure [psig]							
0.4	17800	27100	33600	33600	8	1000 / 1200	370
0.4	15700	23900	32600	33600			420
0.5	13100	20000	27400	33600			500

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

0.6	11400	17300	21800	21800	10	1000 / 1200	370
0.7	10100	15200	20700	21800			420
0.8	8400	12800	17400	21800			500
0.9	7900	12000	15000	15000	12	1000 / 1200	370
1.0	6900	10600	14500	15000			420
1.2	5800	8800	12200	15000			500
1.5	5000	7700	9600	9600	15	1000 / 1200	370
1.7	4400	6700	9300	9600			420
2.0	3700	5700	7700	9600			500
2.0	3700	5700	7000	7000	17,5	1000 / 1200	370
2.3	3300	4900	6800	7000			420
2.7	2800	4100	5700	7000			500

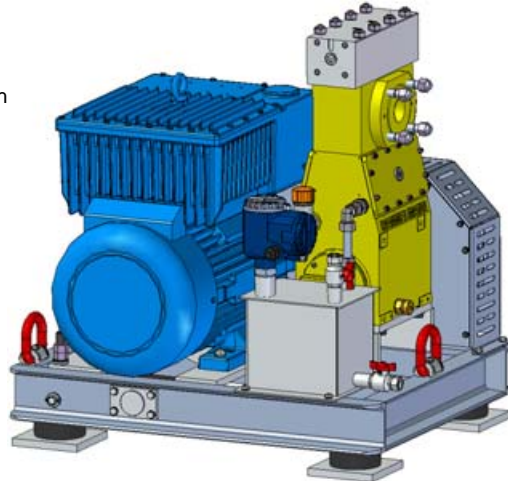
* m³/hr. = Water as measurement fluid
Flow rates can vary with type of medium

** Electric motor

D = Piston/Plunger dia. [mm]
n₁ = Motor r.p.m.
n₂ = Crankshaft r.p.m.

Conversion table

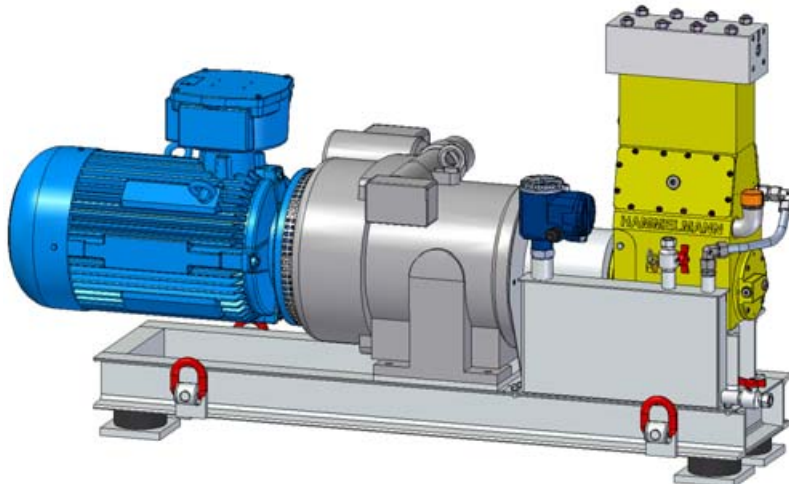
Rating 1 hp = 0,746 kW
Op.pressure 1 psi = 0,069 bar
Flow rate 1 gpm = 0,227 m³/h



Stationary unit with electric motor

Length: 31 inch
Width: 27 inch
Height: 33 inch
Weight: 1058 lbs
at 15 hp

Automatic flow control via frequency converter (integrated in motor housing).



Stationary unit with electric motor

Length: 61 inch
Width: 21 inch
Height: 34 inch
Weight: 1058 lbs
at 15 hp

Manual or automatic flow control via adjustable gear.

- Rod force: 2,630 lbf
- Stroke: 1.18 inch
- Mean piston speed at n₂
420 r.p.m. = 1.38 feet/sec
500 r.p.m. = 1.64 feet/sec
600 r.p.m. = 1.97 feet/sec



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