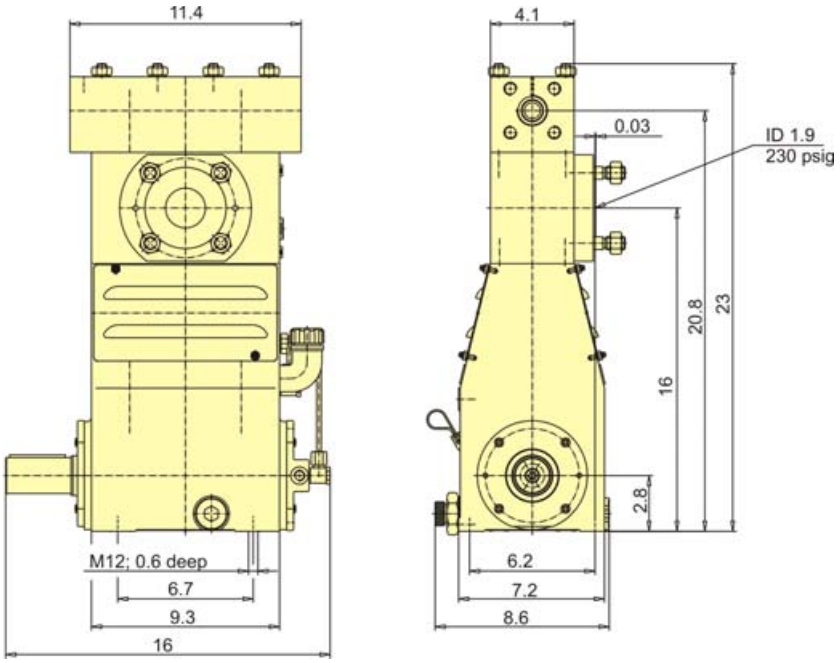
HDP 25 process plunger pump

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

High Pressure Pump
Weight: 210 lbs

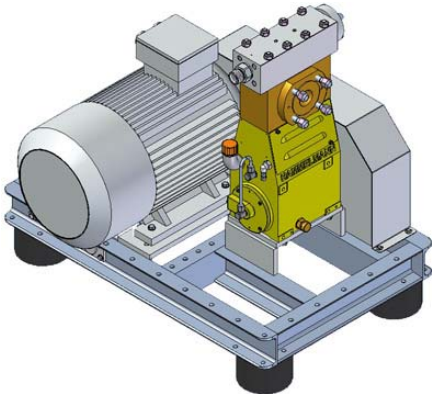


Dimensions: inches

Features

- Power ratings up to 25 HP
- Vertical 3 cylinder design
- Wide variety of complementary ancillaries

Stationary unit with electric motor
Length: 39 inch
Width: 29 inch
Height: 35 inch
Weight: approx. 990 lbs at 25HP

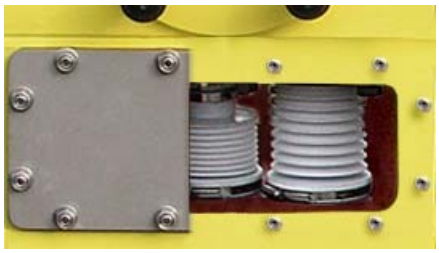


Main dimensions without accessories such as pulsation damper, safety valve etc. Relevant drawings and weights available on request.

ZERO EMISSION

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 bellow system is gastight.

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

HAMMELMANN®

HDP 25 series, technical data

Performance parameters

Q [GPM] *	Required power rating [HP]**				D	r.p.m.	
	10	15	20	25		n_1	n_2
	Operating pressure [psig]						
0.4	32300	47400	50800		8	1000 / 1200	420
0.5	27400	40200	50800				500
0.6	22800	33500	45700	50800			600
0.7	20600	30300	32500		10		420
0.8	17500	25700	32500				500
1.0	14500	21500	29100	32500			600

* At pressures over 29,000 psi approx. 5% of the flow rate is lost due to the compressibility factor of water

1.0	14400	21000	22500		12	1000 / 1200	420
1.1	12200	17800	22500				500
1.4	10200	14800	20300	22500			600
1.5	9300	13500	14500		15		420
1.8	7800	11500	14500				500
2.2	6500	9600	13100	14500			600

* 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: 3,960 lbf
- Stroke: 1.18 inch
- Mean piston speed at n_2

  420 r.p.m. = 1.38 feet/sec

  500 r.p.m. = 1.64 feet/sec

  600 r.p.m. = 1.97 feet/sec

Hammelmann Corp. 600 Progress Road
Dayton, Ohio 45449
eMail: mail@hammelmann.com
Phone (001) 937-859-8777
Fax: (001) 937-859-9188
http://www.hammelmann.com