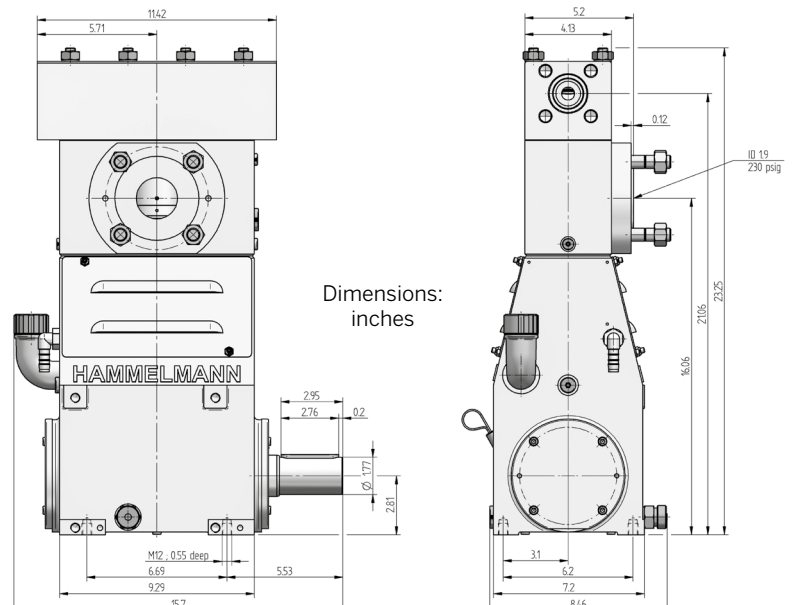


HAMPRO® 10 Process plunger pump

HAMMELMANN®

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



Technical details HAMPRO® 10

Operating pressure	Flow rate	Design	Weight
up to 27.5k psi	up to 27.2 gpm	Vertical 3 cylinder design	~ 207 lbs

Weight and dimensions refer to the pump only, without accessories. Detailed dimensional drawings and weights on request.

Quality and reliability

- Crank section calculation by 'Finite element method' ensures long working life under continuous load
- Stainless steel pump head free of alternating stress
- Bellows form hermetic seal between the suction chamber and crank section
- Large selection of materials available for different fluids
- Minimum crankshaft speed: 37 r.p.m.

Features

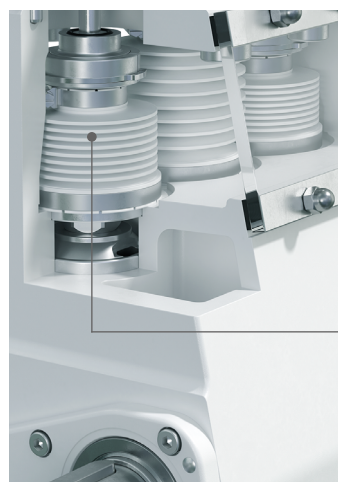
- Power ratings up to 15 hp
- Vertical 3 cylinder design

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.

Technical data, series HAMPRO® 10: Performance parameters (standard design)

HAM PRO®	Q** [gpm]	Required power rating [hp]			D [mm]	r.p.m.	
		7,5	10	15		n1	n2
		Operating pressure [psi]					
14	0.50	20306	27558		8	1401/1681	*490
	0.58	13054	18130	26832		1500/1800	625
	0.85	11168	15229	22481		1500/1800	900
	0.82	13054	17405	21031	10	1401/1681	*490
	0.92	8267	11313	16680		1500/1800	625
	1.35	7107	9573	14214		1500/1800	900

Data

- Rod force: 2,630 lbf
- Stroke: 1.2 inch
- Mean plunger speed at n2:

490 r.p.m. = 1.6 ft/sec

625 r.p.m. = 2.1 ft/sec

750 r.p.m. = 2.5 ft/sec

900 r.p.m. = 3.0 ft/sec

13	0.82	13054	17405	21031	10	1401/1681	*490
	0.92	8267	11313	16680		1500/1800	625
	1.11	7107	9573	14214		1500/1800	750
	1.22	8702	12328	14504	12	1401/1681	*490
	1.85	5802	7977	11748		1500/1800	625
	2.11	5076	6962	10298		1500/1800	750

Certificates

- Machine directive 2006/42/EG
- ATEX 2014/34/EG
- API 674
- TA-Luft (Clean Air)
- NORSOK M501
- NORSOK M650
- NACE MR0175

12	1.85	5802	7832	9573	15	1401/1681	*490
	2.38	4496	6092	9138		1500/1800	625
	2.91	3771	5076	7542		1500/1800	750
	2.64	4206	5802	6962	17,5	1401/1681	*490
	3.17	3191	4351	6527		1500/1800	625
	3.96	2756	3626	5512		1500/1800	750
	3.43	3191	4351	5366	20	1401/1681	*490
	4.23	2466	3336	5076		1500/1800	625
	5.28	2103	2756	4206		1500/1800	750
	5.3	2031	2756	3336	25	1401/1681	*490
	6.6	1595	2176	3191		1500/1800	625
	8.2	1378	1886	2756		1500/1800	750
	7.9	1450	1958	2393	30	1401/1681	*490
	10.0	1088	1523	2248		1500/1800	625
	11.9	943	1233	1886		1500/1800	750
	12.7	870	1233	1740	35	1401/1681	*490
	13.5	798	1088	1668		1500/1800	625
	16.4	653	943	1378		1500/1800	750
	16.6	653	943	1305	40	1401/1681	*490
	18.0	580	798	1233		1500/1800	625
	21.7	508	725	1088		1500/1800	750
	21.1	508	725	1015	45	1401/1681	*490
	22.7	508	653	1015		1500/1800	625
	27.2	363	508	798		1500/1800	750

Standards

- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 50001
- BS OHSAS 18001
- ASME-U
- Achilles
- EAC



Hammelmann plunger pumps convert 93 to 98 % of the shaft power to hydraulic energy.

**Data refer to the medium water (compressibility considered)

* Speed limit for continuous service according to API 674 – 6.3.1

D = Plunger diameter

n1 = Motor/Engine r.p.m.

n2 = Crankshaft r.p.m.