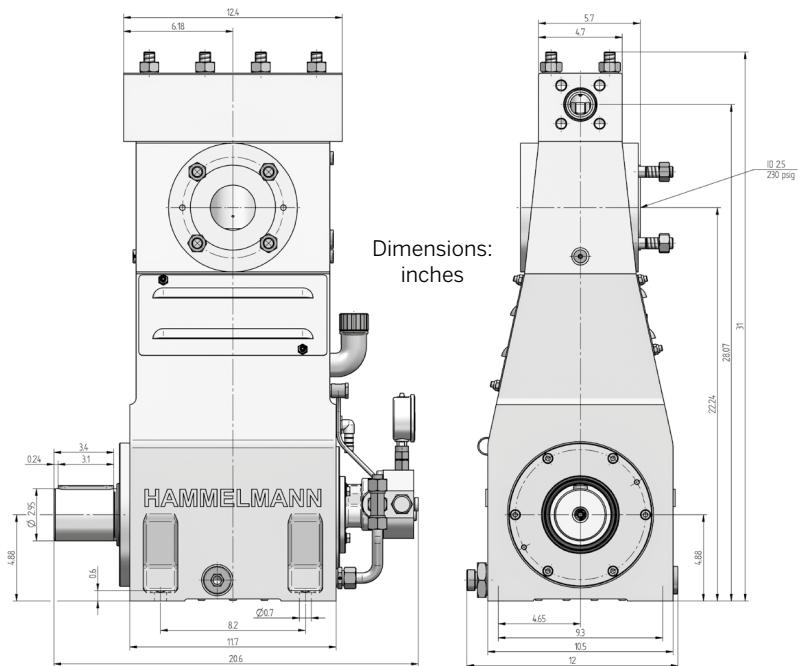


HAMPRO® 40 Process plunger pump

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® 40

Operating pressure	Flow rate	Design	Weight
up to 43.5k psi	up to 41 gpm	Vertical 3 cylinder design	~ 441 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 with external oilpump 36 r.p.m.

Features

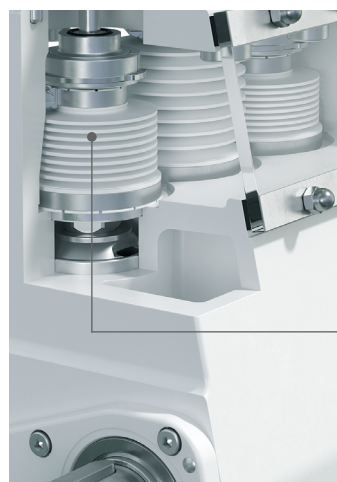
- Power ratings up to 50 hp
- Vertical 3 cylinder design

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® 40: Performance parameters (standard design)

HAM PRO®	Q** [gpm]	Required power rating [hp]			D [mm]	r.p.m.	
		20	30	50		n1	n2
		Operating pressure [psi]					
44	1.06	24657	36260		12	1401/1681	*490
	1.51	19580	29733	43512		1500/1800	625
	2.17	13489	19580	34810		1500/1800	900
	1.80	15229	23206	31909	15	1401/1681	*490
	2.25	12473	18130	31909		1500/1800	625
	3.43	8702	12764	21756		1500/1800	900
	2.51	11603	16680	23206	17,5	1401/1681	*490
	3.30	9138	13489	22481		1500/1800	625
	4.76	6382	9428	15954		1500/1800	900

43	3.36	8847	13054	17405	20	1401/1681	*490
	4.36	6962	10298	17405		1500/1800	625
	5.28	5802	8557	14504		1500/1800	750

42	4.0	7252	10733	14504	22	1401/1681	*490
	5.3	5802	8557	14214		1500/1800	625
	6.3	4786	7107	11893		1500/1800	750
	5.0	6092	8992	12473	24	1401/1681	*490
	6.3	4786	7107	12038		1500/1800	625
	7.7	4061	5947	10008		1500/1800	750
	5.8	5221	7687	10588	26	1401/1681	*490
	7.4	4061	6092	10298		1500/1800	625
	9.0	3481	5076	8557		1500/1800	750
	7.9	3916	5512	7977	30	1401/1681	*490
	10.0	3046	4496	7687		1500/1800	625
	11.9	2611	3771	6382		1500/1800	750
	10.8	2901	4206	5802	35	1401/1681	*490
	13.7	2176	3336	5657		1500/1800	625
	16.4	1886	2756	4641		1500/1800	750
	14.3	2176	3191	4496	40	1401/1681	*490
	18.0	1740	2466	4351		1500/1800	625
	21.7	1450	2103	3626		1500/1800	750
	18.0	1740	2466	3481	45	1401/1681	*490
	22.7	1378	2031	3336		1500/1800	625
	27.2	1160	1668	2756		1500/1800	750
	22.2	1378	2031	2828	50	1401/1681	*490
	28.3	1088	1595	2756		1500/1800	625
	33.8	943	1378	2321		1500/1800	750
	27	1160	1668	2321	55	1401/1681	*490
	34	870	1305	2321		1500/1800	625
	41	725	1088	1886		1500/1800	750

Data

- Rod force: 8,768 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. = 3.9 ft/sec
 900 r.p.m. = 3.0 ft/sec

Certificates

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

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.