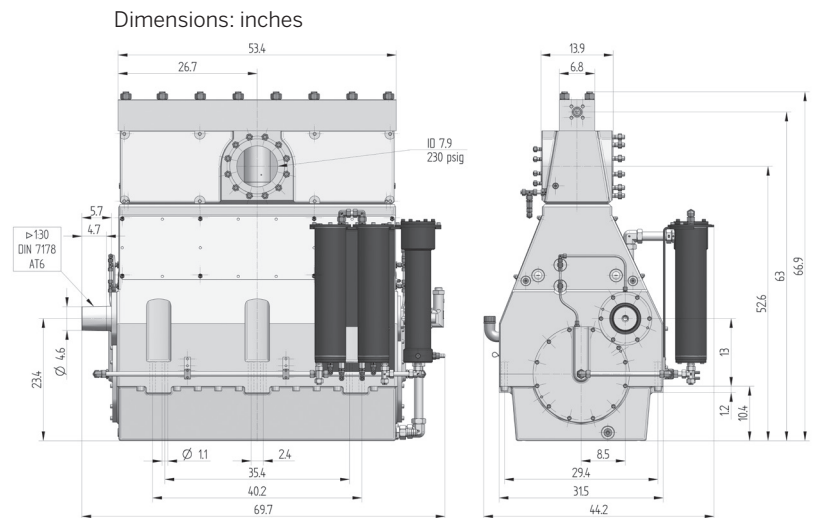
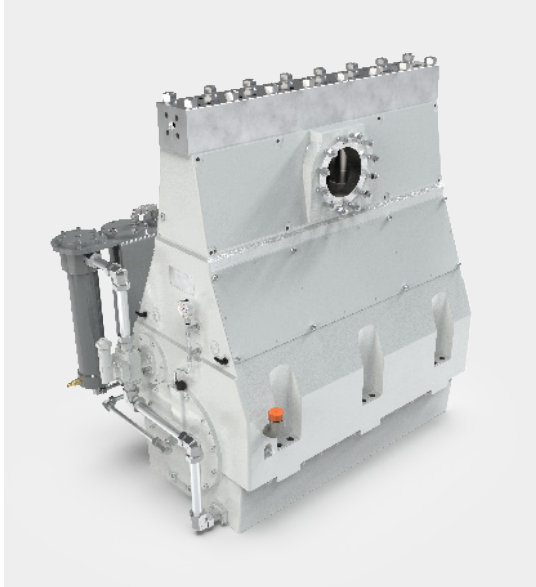


HAMPRO® 1200 Process plunger pump

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.



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
- Integral speed reduction gear
- Pressurised oil lubrication system with oil cooler/filter
- 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 50 r.p.m.

Features

- Power ratings up to 1540 hp
- Vertical 7 cylinder design

Technical details HAMPRO® 1200

Operating pressure	Flow rate
up to 43.5k psi	up to 799 gpm
Design	Weight
Vertical 7 cylinder design	~ 11,819 kg

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

The bellow system is gastight.



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.

Technical data, series HAMPRO® 1200: Performance parameters (standard design)

HAM PRO®	Q** [gpm]	Required power rating [hp]			D [mm]	r.p.m.	
		950	1250	1500		n1	n2
		Operating pressure [psi]					
1204	33	43512			28	1500	320
	32	37710	43512			1368/1628	*350
	47	30458	39161			1857	475
	43	32489			32	1500	320
	44	29733	37710			1368/1628	*350
	63	22626	28718	35100		1857	475
	52	26832			35	1500	320
	54	24657	31184			1368/1628	*350
76	18855	23932	30458	1857		475	

1203	71	21031			40	1500	320
	72	18855	23932			1368/1628	*350
	101	14359	18130	22336		1857	475
	89	16680			45	1500	320
	92	14504	19145			1368/1628	*350
	129	11313	14359	17550		1857	475

1202	111	13489			50	1500	320
	115	12038	15374			1368/1628	*350
	160	9138	11603	14214		1857	475
	133	11168			55	1500	320
	142	10008	12764			1368/1628	*350
	192	7542	9573	11748		1857	475
	159	9283			60	1500	320
	170	8412	10733			1368/1628	*350
	232	6382	8122	9863		1857	475
	188	7977			65	1500	320
	201	7107	9138			1368/1628	*350
	276	5366	6817	8412		1857	475
	218	6817			70	1500	320
	235	6092	7832			1368/1628	*350
	320	4641	5947	7252		1857	475
	251	5947			75	1500	320
	271	5366	6817			1368/1628	*350
	369	4061	5221	6237		1857	475
	277	5221			80	1500	320
	311	4641	5947			1368/1628	*350
	413	3481	4496	5512		1857	475

1201 High flow	277	5221			80	1500	320
	311	4641	5947			1368/1628	*350
	413	3481	4496	5512		1857	475
	312	4641			85	1500	320
	351	3626	5366			1368/1628	*350
	469	3191	4061	4931		1857	475
	354	4061			90	1500	320
	394	3626	4786			1368/1628	*350
	517	2756	3626	4351		1857	475
	441	3336			100	1500	320
	490	3046	3771			1368/1628	*350
	657	2321	2901	3481		1857	475
	539	2756			110	1500	320
	594	2466	3191			1368/1628	*350
	799	1886	2393	2901		1857	475

Data

- Rod force: 47,210 lbf
- Stroke: 3.9 inch
- Mean plunger speed at n2:

320 r.p.m. = 3.5 ft/sec

350 r.p.m. = 3.5 ft/sec

475 r.p.m. = 5.2 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.