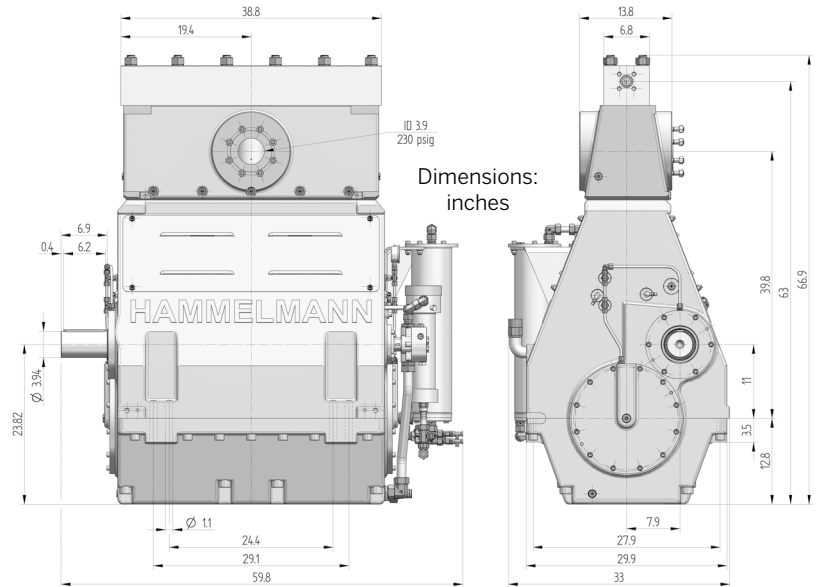


HAMPRO® 800 Process plunger pump

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 1100 hp
- Vertical 5 cylinder design

Technical details HAMPRO® 800

Operating pressure	Flow rate
up to 43.5k psi	up to 563 gpm
Design	Weight
Vertical 5 cylinder design	~ 8157 lbs

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® 800: Performance parameters (standard design)

HAM PRO®	Q** [gpm]	Required power rating [hp]			D [mm]	r.p.m.	
		700	850	1100		n1	n2
		Operating pressure [psi]					
804	23.0	43512			28	1500	315
	22.5	37710	43512			1362/1660	*350
	34	30458	37710	43512		1800	465
	30	32634			32	1500	315
	31	29008	36985	37710		1362/1660	*350
	44	22046	27848	35390		1800	465
	37	26832	31909		35	1500	315
	38	23932	30458	31184		1362/1660	*350
	54	18130	23206	30458		1800	465

803	50	20741	24222		40	1500	315
	52	18130	23642	24222		1362/1660	*350
	73	14214	17840	22771		1800	465
	63	16390	19145		45	1500	315
	66	14504	18710	19145		1362/1660	*350
	93	11168	14069	17985		1800	465

802	78	13344	15519		50	1500	315
	83	11893	15084	15374		1362/1660	*350
	115	9138	11458	14504		1800	465
	94	11023	12764		55	1500	315
	102	9863	12473	12764		1362/1660	*350
	138	7542	9428	12038		1800	465
	114	9283	10733		60	1500	315
	122	8267	10443	10733		1362/1660	*350
	166	6237	7977	10008		1800	465
	134	7832	9138		65	1500	315
	144	7107	8847	9138		1362/1660	*350
	197	5366	6817	8557		1800	465
	156	6817	7832		70	1500	315
	169	6092	7687	7832		1362/1660	*350
	228	4641	5802	7397		1800	465
	178	5947	6817		75	1500	315
	194	5221	6672	6817		1362/1660	*350
	262	4061	5076	6382		1800	465
	198	5221	5947		80	1500	315
	222	4641	5802	5947		1362/1660	*350
	289	3481	4496	5657		1800	465

801 High flow	198	5221	5947		80	1500	315
	222	4641	5802	5947		1362/1660	*350
	289	3481	4496	5657		1800	465
	223	4496	5366		85	1500	315
	251	4061	5221	5366		1362/1660	*350
	328	3046	3916	4931		1800	465
	253	4061	4786		90	1500	315
	283	3626	4641	4786		1362/1660	*350
	370	2756	3481	4496		1800	465
	315	3336	3771		100	1500	315
	350	2901	3771			1362/1660	*350
	461	2176	2756	3626		1800	465
	385	2756	3191		110	1500	315
	425	2466	3046	3191		1362/1660	*350
	563	1886	2321	2901		1800	465

Data

- Rod force: 47,201 lbf
- Stroke: 3.9 inch
- Mean plunger speed at n2:

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

350 r.p.m. = 3.8 ft/sec

465 r.p.m. = 5.0 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.