

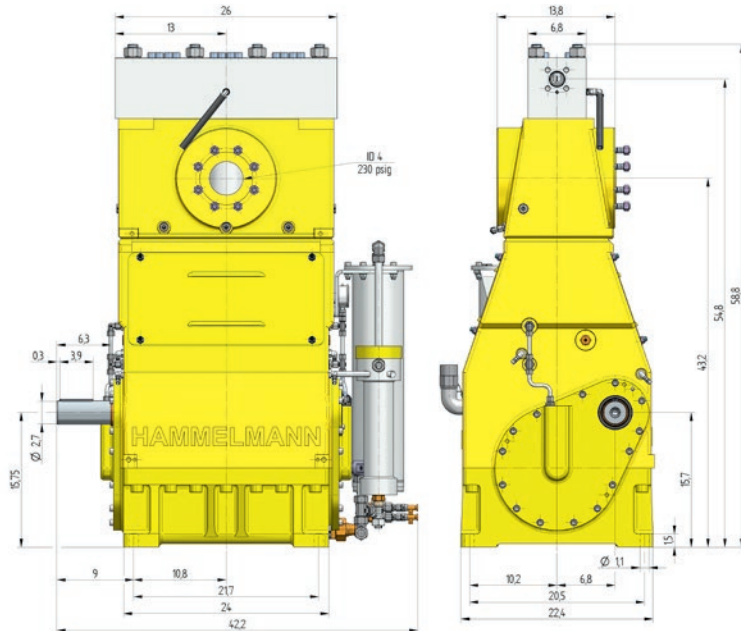
# HAMPRO 400 Process Plunger Pump



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.

## Process Plunger Pump

Weight: approx. 3,748 lbs



Dimensions: inches



## Stationary unit with electric motor



Main dimensions without accessories such as suction line, pressure regulator etc. All shown as right side drive. Detailed dimensional drawings and weights available on request.

## Features

- Power ratings up to 550 HP
- Vertical 3 cylinder design

## Zero Emission



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
- 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 oil pump 50 r.p.m.

# Technical data, series HAMPRO 400

Performance parameters (Standard design)

HAM PRO	Q** [GPM]	Required power rating [HP]			D [mm]	r.p.m.	
		300	400	550		n1	n2
		Operating pressure [psig]					
404	11.9	34810			28	1500	340
	12.2	28283	42787	46413		1427/1712	*390
	17.2	23932	36260	43512		1800	490
	15.3	26107	37710		32	1500	340
	16.4	21756	32634	37710		1427/1712	*390
	22.2	18855	26832	37710		1800	490
	18.8	21756	31909		35	1500	340
	20.3	18130	26832	31184		1427/1712	*390
27.2	14504	21756	29008	1800		490	

403	25.1	16680	24222		40	1500	340
	27.2	13779	21031	23932		1427/1712	*390
	36	11603	17405	23206		1800	490
	33	12328	18855		45	1500	340
	35	10878	15954	18855		1427/1712	*390
	48	8702	13054	17405		1800	490

402	40	10443	15519		50	1500	340
	44	8702	13054	15229		1427/1712	*390
	58	7252	10878	14504		1800	490
	49	8557	12764		55	1500	340
	54	7252	10878	12328		1427/1712	*390
	70	5802	8847	12038		1800	490
	59	7107	10733		60	1500	340
	66	6237	9283	10733		1427/1712	*390
	85	4786	7252	9863		1800	490
	69	5947	9138		65	1500	340
	77	5221	7977	9138		1427/1712	*390
	100	4061	6237	8412		1800	490
	81	5076	7832		70	1500	340
	90	4496	6817	7832		1427/1712	*390
	117	3481	5366	7107		1800	490
	92	4351	6817		75	1500	340
	104	3916	5802	6817		1427/1712	*390
	133	3046	4641	6237		1800	490
	105	3916	5947		80	1500	340
	119	3481	5221	5947		1427/1712	*390
151	2756	4061	5512	1800		490	

401 high flow	105	3916	5947		80	1500	340
	119	3481	5221	5947		1427/1712	*390
	151	2756	4061	5512		1800	490
	116	3481	5366		85	1500	340
	134	3046	4641	5221		1427/1712	*390
	167	2466	3771	4931		1800	490
	131	3191	4786		90	1500	340
	151	2756	4061	4786		1427/1712	*390
	189	2176	3191	4351		1800	490
	163	2466	3771		100	1500	340
	187	2176	3336	3771		1427/1712	*390
	235	1740	2611	3481		1800	490
	200	2031	3191		110	1500	340
	227	1740	2756	3191		1427/1712	*390
	288	1450	2176	2901		1800	490
	239	1740	2611		120	1500	340
	271	1450	2321	2611		1427/1712	*390
	341	1305	1886	2466		1800	490

## Data

- Rod force: 47,210 lbf
- Stroke: 3.1 inch
- Mean plunger speed at n2  
340 r.p.m. = 3.0 ft/sec  
390 r.p.m. = 3.6 ft/sec  
490 r.p.m. = 4.3 m/sec

## Certificates

- Machine directive 2006/42/EU
- ATEX 94/9/EU
- API 674 (with deviations)
- TA-Luft
- 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.

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