

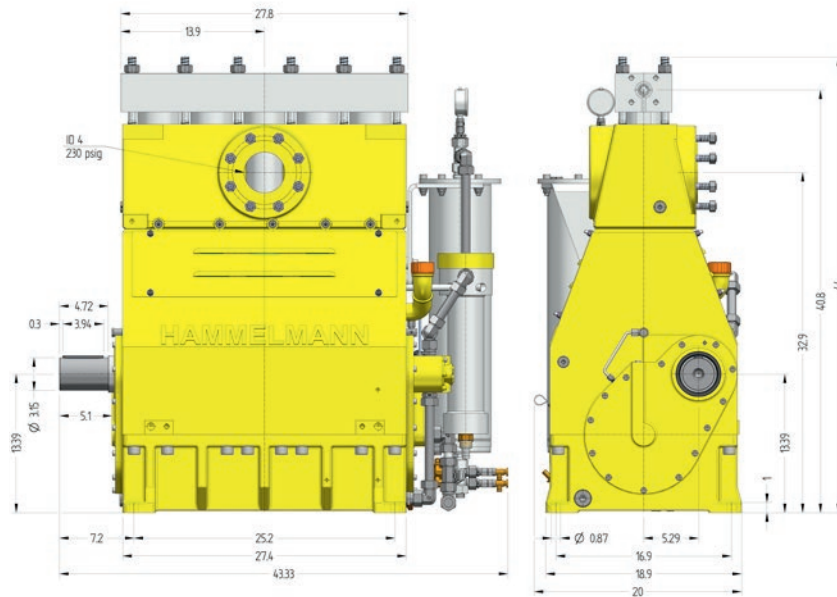
# HAMPRO 300 Process Plunger Pump



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

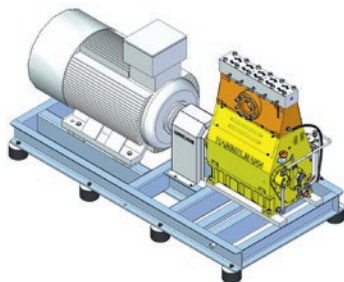
Weight: approx. 2,425 lbs



Dimensions: inches

## Stationary unit with electric motor

- Length: 101 inch
- Width: 51 inch
- Height: 57 mm
- Weight: approx. 7,055 lbs at 400 HP



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 400 HP
- Vertical 5 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 32 r.p.m.

# Technical data, series HAMPRO 300

Performance parameters (Standard design)

HAM PRO	Q** [GPM]	Required power rating [HP]				D [mm]	r.p.m.	
		150	220	270	400		n1	n2
		Operating pressure [psig]						
304	5.5	34084	46413			15	1216/1460	*400
	6.9	27558	39886	46413			1500/1800	493
	7.9	23206	33359	42062			1800/2150	591
	7.7	24657	36260	45688		17.5	1216/1460	*400
	10.3	19580	28283	36260			1500/1800	493
	12.4	16680	23932	33359	46413		1800/2150	591
	10.6	18855	27558	34810		20	1216/1460	*400
	13.5	15229	21756	27558	40611		1500/1800	493
16.4	13054	18855	23206	35535	1800/2150		591	

303	17.2	12328	17840	22336		25	1216/1460	*400
	22.7	9718	14069	17695	26107		1500/1800	493
	26.7	8122	11748	14794	23206		1800/2150	591
	22.2	9718	14214	17840		28	1216/1460	*400
	28.3	7687	11313	14069	20741		1500/1800	493
	33.3	6527	9428	11748	18855		1800/2150	591

302	25.6	8557	12473	15519		30	1216/1460	*400
	32	6672	9718	12183	17985		1500/1800	493
	38	5657	8267	10298	15954		1800/2150	591
	30	7397	10878	13634		32	1216/1460	*400
	37	5947	8557	10733	15809		1500/1800	493
	44	4931	7252	8992	14214		1800/2150	591
	36	6237	9138	11313		35	1216/1460	*400
	44	4931	7252	8992	13199		1500/1800	493
	53	4206	6092	7542	11603		1800/2150	591
	47	4786	6962	8702		40	1216/1460	*400
	58	3771	5512	6817	10153		1500/1800	493
	70	3191	4641	5802	8992		1800/2150	591
	60	3771	5512	6817		45	1216/1460	*400
	74	3046	4351	5512	7977		1500/1800	493
	89	2466	3626	4496	6962		1800/2150	591
	75	3046	4351	5512		50	1216/1460	*400
	93	2466	3481	4351	6527		1500/1800	493
	111	2031	2901	3626	5512		1800/2150	591
	91	2538	3626	4496		55	1216/1460	*400
	113	2031	2901	3626	5366		1500/1800	493
	134	1740	2466	3046	4641		1800/2150	591
	108	2103	3046	3771		60	1216/1460	*400
	133	1740	2466	3046	4496		1500/1800	493
	159	1450	2031	2611	3916		1800/2150	591
	127	1813	2611	3191		65	1216/1460	*400
	156	1450	2031	2611	3771		1500/1800	493
	187	1160	1740	2176	3336		1800/2150	591
	148	1523	2248	2828		70	1216/1460	*400
	180	1305	1740	2321	3336		1500/1800	493
	216	1015	1450	1886	2901		1800/2150	591
194	1160	1740	2176		80	1216/1460	*400	
236	943	1378	1740	2466		1500/1800	493	
282	798	1160	1450	2176		1800/2150	591	

## Data

- Rod force: 19,783 lbf
- Stroke: 3.0 inch
- Mean plunger speed at n2  
400 r.p.m. = 3.7 ft/sec  
493 r.p.m. = 4.0 ft/sec  
591 r.p.m. = 4.9 ft/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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