

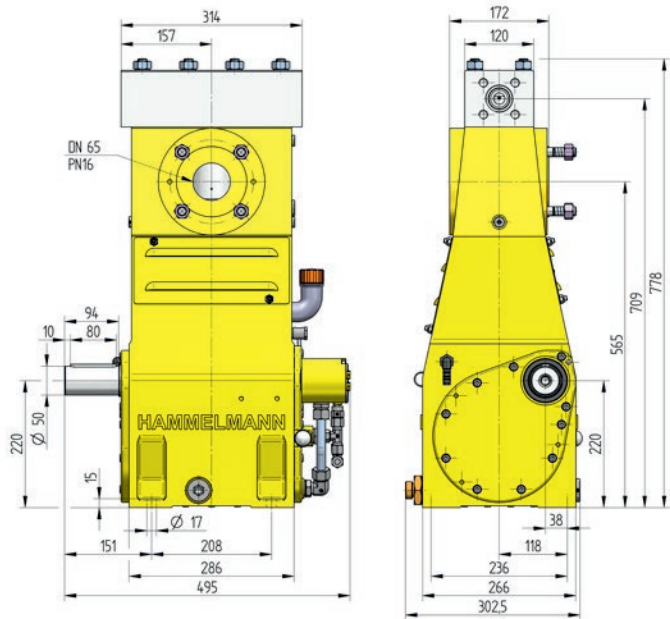
HAMPRO 70 Process Plunger Pump



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

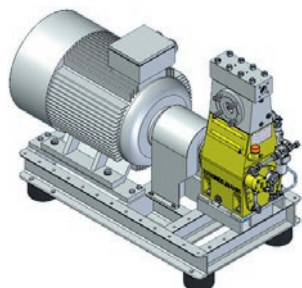
Weight: approx. 215 kg



Dimensions: inches

Stationary unit with electric motor

Length: 1502 mm
 Width: 720 mm
 Height: 1105 mm
 Weight: approx. 1150 kg at 75 kW



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 70 kW
- 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 oilpump 36 r.p.m.

Technical data, series HAMPRO 70

Performance parameters (Standard design)

HAM PRO	Q** [l/min]	Q** [m³/h]	Required power rating [kW]			D [mm]	r.p.m.	
			30	45	70		n1	n2
			Operating pressure [bar]					
74	4,8	0,29	2650	3500		12	960/1123	*470
	7,2	0,43	2000	3000			1500	625
	11	0,66	1400	2100	3000		1800/2150	900
	8,4	0,50	1700	2400		15	960/1123	*470
	11,9	0,71	1250	1900			1500	625
	17,2	1,03	890	1300	2050		1800/2150	900
	11,8	0,71	1250	1750		17,5	960/1123	*470
	17	1,02	930	1400			1500	625
23	1,38	650	980	1500	1800/2150		900	

73	16	0,96	950	1350		20	960/1123	*470
	21	1,26	710	1050			1500	625
	26	1,56	600	900	1350		1500/1800	750

72	19	1,14	750	1100		22	960/1123	*470
	26	1,56	600	900	1130		1500	625
	32	1,92	500	750	1130		1500/1800	750
	23	1,38	650	950		24	960/1123	*470
	32	1,92	500	750	950		1500	625
	38	2,28	420	630	950		1500/1800	750
	27	1,6	570	800		26	960/1123	*470
	38	2,3	430	640	810		1500	625
	45	2,7	350	530	810		1500/1800	750
	37	2,2	420	600		30	960/1123	*470
	50	3,0	320	480			1500	625
	59	3,5	260	400	600		1500/1800	750
	51	3,1	310	440		35	960/1123	*470
	69	4,1	230	350			1500	625
	81	4,9	190	290	440		1500/1800	750
	68	4,1	240	340		40	960/1123	*470
	91	5,5	180	270			1500	625
	107	6,4	150	220	340		1500/1800	750
	86	5,2	190	270		45	960/1123	*470
	115	6,9	140	210			1500	625
	135	8,1	110	170	270		1500/1800	750
	107	6,4	150	210		50	960/1123	*470
	142	8,5	110	170			1500	625
	167	10,0	90	140	210		1500/1800	750
130	7,8	120	180		55	960/1123	*470	
172	10,3	90	140			1500	625	
201	12,1	60	100	150		1500/1800	750	

Data

- Rod force: 43 kN
- Stroke: 40 mm
- Mean plunger speed at n2
470 r.p.m = 0,63 m/sec
625 r.p.m. = 0,84 m/sec
750 r.p.m. = 1,00 m/sec
900 r.p.m. = 1,20 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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