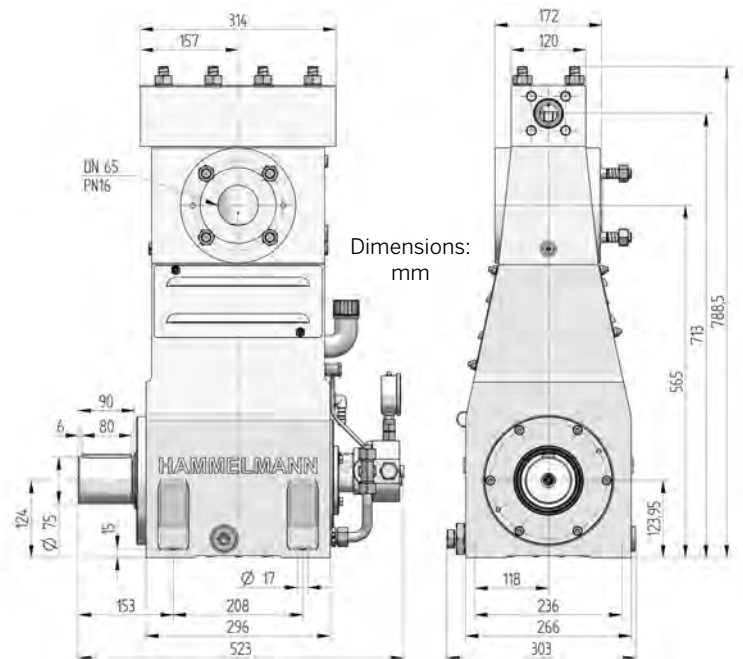


HAMPRO® 40 Process plunger pump



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.



Technical details HAMPRO® 40

Operating pressure	Flow rate	Design	Weight
up to 3400 bar	up to 9,3 m ³ /h	Vertical 3 cylinder design	~ 200 kg

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

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
- 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.

Features

- Power ratings up to 37 kW
- Vertical 3 cylinder design



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.

The bellows system is gastight.

HAMMELMANN®

Technical data, series HAMPRO® 40: Performance parameters (standard design)

HAM PRO®	Q** [l/min]	Q** [m³/h]	Required power rating [kW]			D [mm]	r.p.m.	
			15	22	37		n1	n2
			Operating pressure [bar]					
44	4	0,24	1700	2500	3400	12	1401/1681	*490
	5,7	0,34	1350	2050	3000		1500/1800	625
	8,2	0,49	930	1350	2400		1500/1800	900
	6,8	0,41	1050	1600	2200	15	1401/1681	*490
	8,5	0,51	860	1250	2200		1500/1800	625
	13	0,78	600	880	1500	17,5	1500/1800	900
	9,5	0,57	800	1150	1600		1401/1681	*490
	12,5	0,75	630	930	1550		1500/1800	625
18	1,08	440	650	1100	1500/1800	900		

43	12,7	0,76	610	900	1200	20	1401/1681	*490
	16,5	0,99	480	710	1200		1500/1800	625
	20	1,20	400	590	1000		1500/1800	750

42	15	0,90	500	740	1000	22	1401/1681	*490
	20	1,20	400	590	980		1500/1800	625
	24	1,44	330	490	820		1500/1800	750
	19	1,14	420	620	860	24	1401/1681	*490
	24	1,44	330	490	830		1500/1800	625
	29	1,74	280	410	690	1500/1800	750	
	22	1,32	360	530	730	26	1401/1681	*490
	28	1,68	280	420	710		1500/1800	625
	34	2,04	240	350	590		1500/1800	750
	30	1,8	270	380	550	30	1401/1681	*490
	38	2,3	210	310	530		1500/1800	625
	45	2,7	180	260	440		1500/1800	750
	41	2,5	200	290	400	35	1401/1681	*490
	52	3,1	150	230	390		1500/1800	625
	62	3,7	130	190	320		1500/1800	750
	54	3,2	150	220	310	40	1401/1681	*490
	68	4,1	120	170	300		1500/1800	625
	82	4,9	100	145	250		1500/1800	750
	68	4,1	120	170	240	45	1401/1681	*490
	86	5,2	95	140	230		1500/1800	625
	103	6,2	80	115	190		1500/1800	750
	84	5,0	95	140	195	50	1401/1681	*490
	107	6,4	75	110	190		1500/1800	625
	128	7,7	65	95	160		1500/1800	750
101	6,1	80	115	160	55	1401/1681	*490	
129	7,7	60	90	160		1500/1800	625	
155	9,3	50	75	130		1500/1800	750	

Data

- Rod force: 39 kN
- Stroke: 30 mm
- Mean plunger speed at n2:

490 r.p.m. = 0,49 m/sec

625 r.p.m. = 0,63 m/sec

750 r.p.m. = 0,75 m/sec

900 r.p.m. = 0,90 m/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.