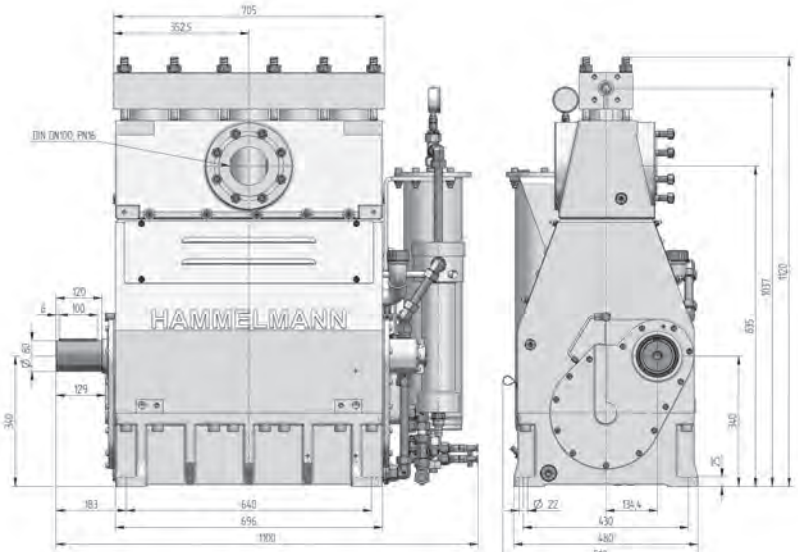
HAMPRO® 340 Process plunger pump

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.

Dimensions: mm



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 32 r.p.m.

Features

- Power ratings up to 340 kW
- Vertical 7 cylinder design

Technical details HAMPRO® 340

Operating pressure	Flow rate
bis 3200 bar	bis 64 m^3/h
Design	**Weight**
5 Zylinder, stehend	~ 1070 kg

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.

HAMMELMANN®

Technical data, series HAMPRO® 340: Performance parameters (standard design)

HDP	Q** [l/min]	Q** [m³/h]	Required power rating [kW] / Operating pressure [bar] 110	132	200	250	300	340	D [mm]	r.p.m. n1	n2
344	33	1,98	1700	2000	3100	-	-	-	17,5	1500	411
	40	2,40	1410	1700	2600	3200	-	-		1500 / 1800	493
	47	2,82	1180	1410	2100	2700	3200	-		1800 / 2150	591
	40	2,4	1400	1670	2500	3000	-	-	19,3	1500	411
	48	2,88	1160	1400	2100	2600	3000	-		1500 / 1800	493
	58	3,48	970	1160	1760	2200	2600	3000		1800 / 2150	591
	43	2,58	1300	1550	2400	2800	-	-	20	1500	411
	51	3,06	1080	1300	1960	2500	2800	-		1500 / 1800	493
	61	3,66	900	1080	1640	2100	2500	2800		1800 / 2150	591
343	72	4,32	830	1000	1510	1800	-	-	25	1500	411
	86	5,16	700	830	1260	1570	1800	-		1500 / 1800	493
	103	6,18	580	700	1050	1310	1570	1780		1800 / 2150	591
	89	5,34	660	800	1200	1430	-	-	28	1500	411
	107	6,42	550	660	1000	1250	1430	-		1500 / 1800	493
	128	7,68	460	550	840	1040	1250	1420		1800 / 2150	591
342	101	6,06	580	700	1050	1240	-	-	30	1500	411
	122	7,32	480	580	870	1100	1240	-		1500 / 1800	493
	146	8,76	400	480	730	910	1100	1240		1800 / 2150	591
	127	7,62	480	570	860	1030	-	-	33	1500	411
	152	9,12	400	480	720	900	1030	-		1500 / 1800	493
	182	10,92	330	400	600	750	900	1020		1800 / 2150	591
	139	8,34	420	510	770	910	-	-	35	1500	411
	167	10,02	350	420	640	800	910	-		1500 / 1800	493
	200	12	300	350	530	670	800	910		1800 / 2150	591
	184	11,04	320	400	600	700	-	-	40	1500	411
	221	13,26	270	320	500	610	700	-		1500 / 1800	493
	265	15,9	230	270	410	510	610	700		1800 / 2150	591
	235	14,1	260	310	470	550	-	-	45	1500	411
	282	16,92	210	260	400	480	550	-		1500 / 1800	493
	338	20,28	180	210	320	400	500	550		1800 / 2150	591
	294	17,64	210	250	380	450	-	-	50	1500	411
	352	21,12	170	210	310	400	450	-		1500 / 1800	493
	422	25,32	140	170	260	330	400	450		1800 / 2150	591
	355	21,3	170	210	310	370	-	-	55	1500	411
	426	25,56	140	170	260	320	370	-		1500 / 1800	493
	511	30,66	120	140	220	270	320	370		1800 / 2150	591
	418	25,08	140	170	260	310	-	-	60	1500	411
	502	30,12	120	140	220	270	310	-		1500 / 1800	493
	602	36,12	100	120	180	230	270	310		1800 / 2150	591
	491	29,46	120	150	220	270	-	-	65	1500	411
	589	35,34	100	120	200	230	270	-		1500 / 1800	493
	706	42,36	100	100	160	200	230	260		1800 / 2150	591
	569	34,14	110	130	200	230	-	-	70	1500	411
	683	40,98	100	110	160	200	230	-		1500 / 1800	493
	819	49,14	70	100	130	170	200	230		1800 / 2150	591
	744	44,64	80	100	150	180	-	-	80	1500	411
	892	53,52	70	80	120	150	180	-		1500 / 1800	493
	1069	64,14	60	70	100	130	150	170		1800 / 2150	591

Data

- Rod force: 88 kN
- Stroke: 75 mm
- Mean plunger speed at n2:

400 1/min. = 1,00 m/sek
493 1/min. = 1,23 m/sek
591 1/min. = 1,48 m/sek

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
- EAC

ENERGY EFFICIENT

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.

CALDER

+44 1905 751790
sales@calder.co.uk
www.calderltd.com

Calder Ltd
Prescott Drive
Worcester
WR4 9NE
United Kingdom

HAMMELMANN®