

# Plunger Metering Pump ORLITA PS

## ORLITA PS - simple, robust and reliable.



The high-performance plunger metering pump ORLITA PS enables precise pump capacities even at maximum pressure and temperatures of up to +400 °C. The ORLITA PS pump has a modular construction and is therefore very flexible.

### Technical Details

- PS 35 – stroke length: 0-20 mm, rod force: 3500 N
- PS 80 – stroke length: 0-20 mm, rod force: 14,000 N
- PS 180 – stroke length: 0-40 mm, rod force: 18,000 N
- PS 600 – stroke length: 0-40 mm, rod force: 40,000 N
- Stroke length adjustment range: 0 – 100% in operation and idle
- The plunger packing can be tightened by the tensioning screw on the front even during operation
- Metering reproducibility is better than  $\pm 0.5$  % within the 10 – 100% stroke length range under defined conditions and with correct installation
- Wetted materials: Stainless steel, special designs are available on request
- A wide range of drive versions are available: Three-phase standard AC motors, motors for use in Exe and Exde areas and different flange designs for use in customer-specific motors
- Degree of protection: IP 55
- Temperature range - 40 °C to + 400 °C
- Design in compliance with API 675 among others



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### Technical data for ORLITA PS 35 single-head pump 50 Hz

Plunger Ø mm	Theor. stroke volume ml/stroke	Max. capacity (theo.) in l/h at strokes/min (50 Hz)							Max. pressure bar	Standard type of valve
		36 l/h	45 l/h	58 l/h	91 l/h	112 l/h	145 l/h	207 l/h		
5	0.39	0.9	1.1	1.4	2.1	2.6	3.4	4.9	250	DN 3
6	0.57	1.2	1.5	2.0	3.1	3.8	4.9	7.0	250	DN 3
7 *	0.77	1.7	2.1	2.7	4.2	5.2	6.7	9.6	250	DN 3
8	1.01	2.2	2.7	3.5	5.5	6.7	8.7	12.5	250	DN 3
10	1.57	3.4	4.3	5.5	8.5	10.5	13.7	19.5	250	DN 6
12	2.26	4.9	6.1	7.9	12.3	15.1	19.7	28.1	250	DN 6
16	4.02	8.7	10.9	14.0	21.9	26.9	35.0	50.0	174	DN 6
20	6.28	13.7	17.1	21.9	34.2	42.0	54.7	78.1	111	DN 6
25	9.82	21.4	26.7	34.2	53.4	65.7	85.4	122.0	71	DN 10
30	14.14	30.7	38.4	49.2	76.9	94.6	123.0	175.7	50	DN 10
36	20.36	44.3	55.3	70.8	110.7	136.2	177.1	253.0	34	DN 16
40	25.13	54.7	68.3	87.5	136.7	168.2	218.7	312.4	28	DN 16
50	39.27	85.4	106.8	136.7	213.5	262.8	341.6	488.1	18	DN 16
65	66.37	144.3	180.4	231.0	360.9	444.1	577.4	824.8	11	DN 25

\* Plunger diameter 7 mm also available as high-pressure version

### Technical data for ORLITA PS 80 single-head pump 50 Hz

Plunger Ø mm	Theor. stroke volume ml/stroke	Max. capacity (theo.) in l/h at strokes/min (50 Hz)							Max. pressure bar	Standard type of valve
		68 l/h	78 l/h	86 l/h	104 l/h	134 l/h	160 l/h	193 l/h		
20	6.28	26	29	33	39	51	60	73	250	DN 6
30	14.14	58	66	73	88	114	136	163	198	DN 10
36	20.36	83	95	105	127	164	195	235	138	DN 16
40	25.13	102	118	130	157	203	241	290	111	DN 16
50	39.27	160	184	203	245	317	377	454	71	DN 16
60	56.55	230	265	293	353	456	543	653	50	DN 25
65	66.37	270	310	344	414	535	637	767	37	DN 25
100	157.08	639	735	814	980	1,267	1,508		18	DN 32
125	245.44	998	1,148	1,272	1,531	1,979	2,357		11	DN 40

### Technical data for ORLITA PS 180 single-head pump 50 Hz

Plunger Ø mm	Theor. stroke volume ml/stroke	Max. capacity (theo.) in l/h at strokes/min (50 Hz)							Max. pressure bar	Standard type of valve
		68 l/h	78 l/h	86 l/h	104 l/h	134 l/h	160 l/h	193 l/h		
30	28.27	115	132	147	176	228	272	327	250	DN 16
40	50.27	204	235	260	313	405	483	581	143	DN 16
50	78.54	319	367	407	490	633	754	907	92	DN 25
54	91.61	373	428	475	571	739	880	1,058	79	DN 25
80	201.06	818	940	1,042	1,254	1,621	1,931	2,323	36	DN 40

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### Technical data for ORLITA PS 600 single-head pump 50 Hz

Plunger Ø	Theor. stroke volume	Max. capacity (theo.) in l/h at strokes/min (50 Hz)							Max. pressure	Standard type of valve
		72	79	90	117	134	156	173		
mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	l/h	l/h	bar	
40	50.27	217	240	270	353	404	471	521	250	DN 16
70	153.94	665	734	828	1,081	1,237	1,442	1,596	104	DN 32
80	201.06	869	959	1,082	1,412	1,615	1,883	2,085	80	DN 40
94	277.59	1,199	1,324	1,494	1,949	2,230	2,600	2,878	58	DN 50

All performance data applies to 50 Hz. If a 60 Hz motor is used, the performance will be correspondingly higher.

Abridged presentation of our complete product range. Other types on request.