

Plunger Metering Pump ORLITA DR

For the precise metering of high-viscosity and extremely high-viscosity media even containing solid fractions



The plunger metering pump ORLITA DR does not need valves and can therefore be operated within a broad stroke rate range. It is therefore suitable for use with high-viscosity and extremely high-viscosity media of up to 10^6 mPas within a wide temperature range of -40 °C to 400 °C.

Technical Details

- DR 15 - stroke length: 0-15 mm, Rod force: 1,800 N
- DR 150 - stroke length: 0-32 mm, Rod force: 15,000 N
- Stroke length adjustment range: 0 – 100% in operation and idle
- Stroke length adjustment: manually by means of a manual adjustment wheel and scaled display (optionally with electric actuator or control drive)
- Metering reproducibility is better than $\pm 0.5\%$ within the stroke length adjustment range of 10 to 100% under defined conditions and with proper installation
- Wetted materials: Stainless steel, special designs are available on request
- A wide range of drive versions is available: Three-phase AC standard motors, motors for use in areas at risk from explosion and different flange designs for use in customer-specific motors
- Degree of protection: IP 55
- Temperature range - 40 °C to + 400 °C
- The play between the piston and cylinder responsible for the sealing effect is selected depending on the viscosity
- Turret on the rear head end, either designed as a circular collecting vessel for leaks or exposed to a sealing medium
- The turret is sealed by elastomer lip sealing rings



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Technical data for ORLITA DR 15 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
		58	77	116		
mm	ml/stroke	l/h	l/h	l/h	bar	
7	0.58	2.0	2.7	4.0	400	DN 8
12	1.70	5.9	7.9	11.8	400	DN 8
18	3.82	13.3	17.7	26.6	250	DN 16
25	7.36	25.6	34.1	51.2	147	DN 25
36	15.27	53.1	70.8	106.3	76	DN 32

Technical data for ORLITA DR 150 single-head pump 50 Hz

Plunger Ø	Theor. stroke volume	Theoretical pump capacity in l/h at strokes/min			Max. pressure	Standard type of valve
		70	94	141		
mm	ml/stroke	l/h	l/h	l/h	bar	
12	3.62	15.2	20.3	30.4	400	DN 8
18	8.14	34.2	45.6	68.4	400	DN 8
25	15.71	66.0	87.9	131.9	250	DN 16
36	32.57	136.8	182.3	273.6	147	DN 25

Note

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.