

Plunger Metering Pump Orlita® DR

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



Capacity range of single head pump: 0 – 4,000 l/h; 400 – 4 bar

Orlita® DR plunger metering pumps (DR 15 to DR 150) are special pumps for high-viscosity and extremely high-viscosity media, which can also contain solids. The pump can be

operated within a broad stroke rate range due to its operation without valves.

Your benefits

Optimum adaptation to processes with high-viscosity and extremely high-viscosity media, even containing solid fractions:

- Low-wear and precise operation even at high pressures, thanks to the rotary plunger with abrasion-resistant / wear-resistant surface coating
- Valve-free operation guarantees a broad stroke rate range
- Wide range of uses: Operating pressure of up to 400 bar, temperature range of - 40 °C to + 400 °C
- Pump direction can be selected depending on the fitting position of the plunger
- A reverse suction effect is continuously adjustable by rotating the pump head around its longitudinal axis
- Power end configuration ideal for installation in any position (vertical or horizontal)

Field of application

- Metering of high-viscosity and extremely high-viscosity media containing some solid fractions, for example in the food industry.

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Technical Data

Pump type	Plunger Ø	Theor. stroke volume	Capacity max. (theo.) in l/h at strokes/min (50 Hz)			Max. pressure
			58	77	116	
	mm	ml/stroke	l/h	l/h	l/h	bar
DR 15/	7	0.58	2.0	2.6	4.0	400
DR 15/	12	1.70	5.9	7.8	11.8	159
DR 15/	18	3.82	13.2	17.7	26.5	70
DR 15/	25	7.36	25.6	34.1	51.2	36
DR 15/	36	15.27	53.1	70.8	106.2	17
DR 15/	50	29.45	102.4	136.6	204.9	9
DR 15/	70	57.73	200.8	267.8	401.7	4

Pump type	Plunger Ø	Theor. stroke volume	Capacity max. (theo.) in l/h at strokes/min (50 Hz)				Max. pressure
			58	77	116	145	
	mm	ml/stroke	l/h	l/h	l/h	l/h	bar
DR 150/	12	3.62	12.5	16.7	25.1	31.4	400
DR 150/	18	8.14	28.3	37.7	56.6	70.8	400
DR 150/	25	15.71	54.6	72.8	109.3	136.6	250
DR 150/	36	32.57	113.3	151.1	226.7	283.3	147
DR 150/	50	62.83	218.6	291.5	437.3	546.6	76
DR 150/	70	123.15	428.5	571.4	857.1	1,071.4	38
DR 150/	90	203.58	708.4	944.5	1,416.8	1,771.1	23

Important note:

All performance data is stated at 50 Hz motor frequency

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