

Orlita[®] DR Series

High Accuracy Metering

The ProMinent[®] Orlita[®] DR is a valveless rotary piston metering pump capable of reaching pressures up to **5,800 psi (400 bar)** and flows up to **1,090 gph (4,125 l/h)**. Fluid is pumped by the combined oscillating and rotating movement of the piston. The valveless design allows accurate metering of highly viscous media up to 1,000,000 cPs.

The DR can also handle fluids containing solids as the slotted piston and the valveless technology allow for solids to move through the pump unobstructed.



Applications

- Drag Reducers
- High Viscosity Solutions

Markets

- Oil & Gas Production
- Refineries
- Chemicals
- Petrochemical
- Environmental
- Water treatment
- Food Applications

Features & Benefits

- Valveless design
- Accuracy +/- 0.5%
- Rotary piston mechanics
- Pumps solids in solution
- Stainless steel liquid end
- Flow can be reversed
- Flow rates to 1,090 gph
- Pressures to 5,800 psi
- Viscosity to 1,000,000 cPs

ProMinent[®]

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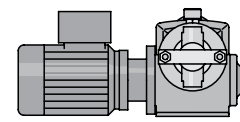
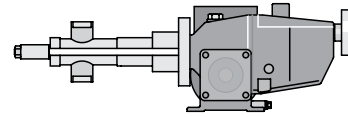
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Orlita® DR Series

Capacity data

DR 15 - 60Hz

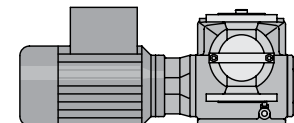
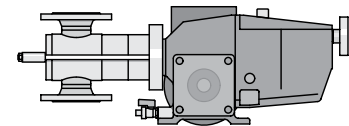
| Plunger \varnothing mm | Stroke Volume cm ³ / stroke | Pump capacity Q_{th} in gph per pump head at a stroke rate n in | | | Max pressure psig |
|-----------------------------|--|--|-------------|-------|-------------------------|
| | | 88 | rpm. 109 | 134 | |
| 7 | 0.58 | 0.6 | 0.8 | 1.3 | 5800 |
| 12 | 1.70 | 1.9 | 2.5 | 3.7 | 2305 |
| 18 | 3.82 | 4.2 | 5.6 | 8.4 | 1015 |
| 25 | 7.36 | 8.1 | 10.8 | 16.2 | 520 |
| 36 | 15.27 | 16.8 | 22.4 | 33.7 | 245 |
| 50 | 29.45 | 32.5 | 43.3 | 65.0 | 130 |
| 70 | 57.73 | 63.7 | 84.9 | 127.4 | 55 |



DR 15

DR 35 - 60Hz

| Plunger \varnothing mm | Stroke Volume cm ³ / stroke | Pump capacity Q_{th} in gph per pump head at a stroke rate n in | | | Max pressure psig |
|-----------------------------|---|--|------------|--------|-------------------------|
| | | 88 | rpm 109 | 134 | |
| 12 | 3.62 | 4.0 | 5.3 | 8.0 | 5800 |
| 18 | 8.14 | 9.0 | 12.0 | 17.9 | 5800 |
| 25 | 15.71 | 17.3 | 23.1 | 34.7 | 3625 |
| 36 | 32.57 | 35.9 | 47.9 | 71.9 | 2130 |
| 50 | 62.83 | 69.3 | 92.4 | 138.6 | 1100 |
| 70 | 123.15 | 135.9 | 181.2 | 271.7 | 550 |
| 90 | 203.58 | 224.6 | 299.4 | 449.2 | 330 |
| 120 | 361.91 | 399.3 | 532.4 | 798.6 | 185 |
| 140 | 492.60 | 543.5 | 724.6 | 1087.0 | 130 |



DR 150