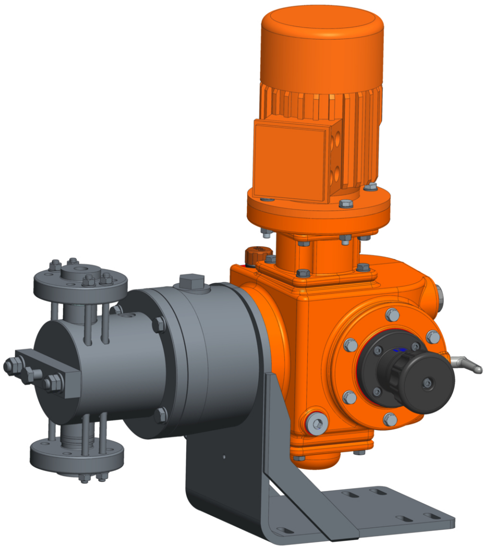
Plunger metering pump Orlita® Evolution

Simple and flexible.



Capacity range of single head pump: 15 – 545 l/h, 520 – 9 bar

The Orlita® Evolution plunger metering pumps EP1a and EP2a form an integrated product range with stroke lengths of 15 mm. This covers a capacity range from 5 to 511 l/h at 293 – 8 bar. A wide range of drive versions is available, including some for use in Zone 1 or Zone 2 areas at risk from explosion with ATEX certification. The Orlita® Evolution product range is designed to comply with API 675.

Your benefits

Flexible adaptation to the process:
- Precise capacity even at maximum pressure
- Metering reproducibility is better than ± 0.5 % within the 10 - 100 % stroke length range under defined conditions and with correct installation.
- Excellent hydraulic efficiency

Excellent flexibility:
- The modular and compact construction with single and multiple pump versions permits a wide range of applications. In multiple pump systems up to 5 metering units can be combined, including units with different pump capacities
- 7 gear ratios are available
- Power end configuration ideal for installation in any position (vertical or horizontal)

Field of application

- Oil/ gas production (onshore/offshore)
- Refineries
- Chemical / petrochemical industry
- Pharmaceuticals & cosmetics
- Packaging industry (bottling pumps)
- Maximum temperature applications of up to + 200 °C

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Technical Data

Technical data for EP1a single pump 50 Hz SST

Plunger Ø	Theor. stroke volume	Theoretical pump capacity in l/h at strokes/min (50 Hz)							Max. pressure	Efficiency at	Efficiency at	Standard type of valve
		73 [2]	97 [3]	116 [4]	145 [5]	165 [6]	181 [7]	201 [8]				
mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	l/h	l/h	bar	100% pressure	50% pressure	
10	1.26	5.5	7.3	8.7	10.9	12.4	13.6	15.2	331	0.85	0.95	DN 6
19	4.54	19.9	26.4	31.6	39.5	44.9	49.3	54.7	92	0.89	0.95	DN 10
26	8.49	37.2	49.4	59.1	73.9	84.1	92.3	102.4	49	0.92	0.95	DN 10
35	15.39	67.4	89.6	107.1	133.9	152.4	167.2	185.6	27	0.94	0.96	DN 16

Technical data for EP1a single pump 60 Hz SST

Plunger Ø	Theor. stroke volume	Theoretical pump capacity in l/h at strokes/min (60 Hz)					Max. pressure	Efficiency at	Efficiency at	Standard type of valve
		88 [2]	117 [3]	140 [4]	175 [5]	199 [6]				
mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	bar	100% pressure	50% pressure	
10	1.26	6.6	8.8	10.6	13.2	15.0	331	0.85	0.95	DN 6
19	4.54	24.0	31.8	38.1	47.6	54.2	92	0.89	0.95	DN 10
26	8.49	44.9	59.6	71.4	59.2	101.4	49	0.92	0.95	DN 10
35	15.39	81.3	108.1	129.3	161.6	183.8	27	0.94	0.96	DN 16

Note:

Abridged presentation of our complete product range. Other piston diameters (8-60 mm) on request.

Materials in Contact With the Medium

Ball valve DN 6 – DN 10

	Suction/ pressure connector	Valve/ head seal	Valve ball	Valve seat	Valve housing	Clamp ring
DN 6 (double ball)	Stainless steel 1.4404	Stainless steel 1.4404	SiN ceramic	Stainless steel 1.4404	Stainless steel 1.4404	Hastelloy C4
DN 10 (single ball)	Stainless steel 1.4404	Stainless steel 1.4404	Al_2O_3 ceramic	Stainless steel 1.4404	Stainless steel 1.4404	Hastelloy C4

Plate valve DN 16

	Suction/ pressure connector	Valve/ head seal	Valve plate	Valve seat	Valve housing
DN 16	Stainless steel 1.4404	Stainless steel 1.4571	Stainless steel 1.4462	Stainless steel 1.4404	Stainless steel 1.4404

Further material versions and details available on request.

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Plunger metering pump Orlita® Evolution

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Technical data for EP2a single pump 50 Hz SST

Plunger Ø	Theor. stroke volume	Theoretical pump capacity in l/h at strokes/min (50 Hz)							Max. pressure	Efficiency at	Efficiency at	Standard type of valve
		73 [2]	97 [3]	116 [4]	145 [5]	165 [6]	181 [7]	201 [8]				
mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	l/h	l/h	bar	100% pressure	50% pressure	
10	1.26	5.5	7.3	8.7	10.9	12.4	13.6	15.2	520	0.82	0.95	DN 6
19	4.54	19.9	26.4	31.6	39.5	44.9	49.3	54.7	219	0.86	0.95	DN 10
26	8.49	37.2	49.4	59.1	73.9	84.1	92.3	102.4	117	0.90	0.96	DN 10
35	15.39	67.4	89.6	107.1	133.9	152.4	167.2	185.6	65	0.92	0.96	DN 16

Technical data for EP2a single pump 60 Hz SST

Plunger Ø	Theor. stroke volume	Theoretical pump capacity in l/h at strokes/min (60 Hz)					Max. pressure	Efficiency at	Efficiency at	Standard type of valve
		88 [2]	117 [3]	140 [4]	175 [5]	199 [6]				
mm	ml/stroke	l/h	l/h	l/h	l/h	l/h	bar	100% pressure	50% pressure	
10	1.26	6.6	8.8	10.6	13.2	15.0	520	0.82	0.95	DN 6
19	4.54	24.0	31.8	38.1	47.6	54.2	219	0.86	0.95	DN 10
26	8.49	44.9	59.6	71.4	89.2	101.4	117	0.90	0.95	DN 10
35	15.39	81.3	108.1	129.3	161.6	183.8	65	0.92	0.96	DN 16

Note:

Abridged presentation of our complete product range. Other types on request. Plunger diameter 11 - 80 mm.

Materials in Contact With the Medium

Ball valve DN 6 – DN 10

	Suction/ pressure connector	Valve/ head seal	Valve ball	Valve seat	Valve housing	Clamp ring
DN 6 (double ball)	Stainless steel 1.4404	Stainless steel 1.4404	SiN ceramic	Stainless steel 1.4404	Stainless steel 1.4404	Hastelloy C4
DN 10 (single ball)	Stainless steel 1.4404	Stainless steel 1.4404	Al_2O_3 ceramic	Stainless steel 1.4404	Stainless steel 1.4404	Hastelloy C4

Plate valve DN 16

	Suction/ pressure connector	Valve/ head seal	Valve plate	Valve seat	Valve housing
DN 16	Stainless steel 1.4404	Stainless steel 1.4571	Stainless steel 1.4462	Stainless steel 1.4404	Stainless steel 1.4404

Further material versions and details available on request.

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