

# Process Hydraulic Diaphragm Metering Pump Zentriplex API 674

The innovative process metering pump with the ideal dimensions and excellent efficiency.



## Capacity range 424 – 8,000 l/h, 367 – 36 bar

The Zentriplex is an oscillating process diaphragm metering pump, which has a very small footprint thanks to its unconventional design, as the pump and drive unit are mounted above each other to save space. Diaphragm

dosing heads and hydraulic units are arranged in a star pattern around the drive unit, resulting in minimised loads and significantly lower material and drive requirements. The Zentriplex is designed in compliance with API 674.

## Your benefits

Excellent conservation of resources:

- Excellent energy efficiency.
- Diaphragm replacement without dismantling the suction and discharge lines ensures cost-effective maintenance of the pump
- Low noise emissions
- Very quiet thanks to complete balancing of masses
- Only one connection required by the customer. Collective discharge and suction lines are integrated in the pump
- Low flow rate pulsation

## Field of application

- Chemical industry
- Petrochemical industry
- Refineries
- Oil and gas industry

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## Technical Data

Plunger Ø mm	Stroke volume ml/stroke	Theoretical pump capacity $Q_{th}$ at a stroke rate n in rpm					Max. operating pressure bar	Efficiency at 100% pressure	Efficiency at 50% pressure	Standard type of valve
		120 [3] l/h	145 [4] l/h	170 [5] l/h	200 [6] l/h	220 [7] l/h				
25	58.90	424	512	601	707	778	367	0.78	0.83	DN 10
26	63.71	459	554	650	765	841	339	0.78	0.83	DN 10
30	84.82	611	738	865	1,018	1,120	255	0.81	0.85	DN 15
36	122.15	879	1,063	1,246	1,466	1,612	177	0.84	0.87	DN 20
44	182.46	1,314	1,587	1,861	2,190	2,409	118	0.85	0.88	DN 20
60	339.29	2,443	2,952	3,461	4,072	4,479	64	0.90	0.92	DN 25
70	461.81	3,325	4,018	4,711	5,542	6,096	47	0.90	0.92	DN 32
80	603.19	4,343	5,248	6,152	7,238	7,962	36	0.90	0.92	DN 32

### Note:

Abridged presentation of our complete product range. Other piston diameters (14 - 75 mm) on request

## Materials in Contact With the Medium

Dosing head complete			Manifold	
Dosing head	Diaphragm retaining screw	Diaphragm	Suction/pressure connector	Seal, manifold
Stainless steel 1.4404	Stainless steel 1.4462	PTFE multi-layer diaphragm	Stainless steel 1.4571	Viton O-ring with seamless FEP jacket

## Ball valve DN 10

Suction/pressure connector	Seal valve/head	Valve ball	Valve seat	Valve housing
Stainless steel 1.4571	Stainless steel 1.4571	Al <sub>2</sub> O <sub>3</sub> ceramic	Stainless steel 1.4404	Stainless steel 1.4404

## Plate valve DN 15 / DN 20 / DN 25 / DN 32

Suction/pressure connector	Seal valve/head	Valve plate	Valve seat	Valve housing
Stainless steel 1.4571	Stainless steel 1.4571	Stainless steel 1.4462	Stainless steel 1.4571	Stainless steel 1.4571

Further material versions and details available on request.

## Motor and Gearbox Data

Motors and gearboxes from 7.5 to 15 kW are available for the Zentriplex product range. Further options and details available upon request.

Standard gear motor 7.5 kW, 9.2 kW, 11 kW, 15 kW	3 ph, IP 55	400/690V	50/60 Hz	Control range 1:5
Ex gear motor EExde IICT4 11 kW, 15 kW	3 ph, IP 65	400/690V	50/60 Hz	Control range 1:5
Standard external gearbox 11 kW...15 kW	IP 55			Version according to DIN/ISO standard flange
Standard external gearbox 11 kW...15 kW	IP 55			NEMA flange version
Ex gearbox 2 IIGD c,k T4/T120C external 11 kW...15 kW	IP 55			Version according to DIN/ISO standard flange
Ex gearbox 2 IIGD c,k T4/T120C external 11 kW...15 kW	IP 55			NEMW flange version

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