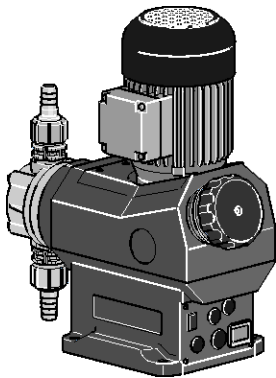


2.1 Vario C Diaphragm Metering Pumps

2.1.1 Vario C Diaphragm Metering Pumps



pk_2_126

The Vario C motor diaphragm metering pump is available in the standard version fitted with a 0.07 kW 230/400 V 50/60 Hz 3-phase AC motor and alternatively with a 0.06 kW, 230 V 50 Hz or 115 V 60 Hz single-phase AC motor. The capacity ranges between 8-76 l/h at a max. backpressure of 10-4 bar. The feed rate can be adjusted by a self-locking rotary dial in 1 % steps via the stroke length (3 mm).

The reproducibility of the metering is better than $\pm 2\%$ in the stroke length range of 30% - 100% given defined conditions and correct installation. (The notes in the operating instructions must be observed.)

The rugged, corrosion-resistant metal-plastic housing has the IP rating IP65. A choice of 4 gear ratios, 2 liquid end sizes, 2 liquid end materials (PVDF; SS) allows the pump to be ideally matched to the basic metering tasks.

For safety-technical reasons, suitable overflow guards are to be installed in all motor metering pumps.

Technical Data

Type	With motor 1500 rpm at 50 Hz				With motor 1800 rpm at 60 Hz			Suction height mWC	Perm. admiss. pressure suction side bar	Connection, suction/pressure side G-DN
	Delivery rate at max. backpressure		Max. stroke rate		Delivery rate at max. backpressure		Max. stroke rate			
	bar	l/h	ml/stroke	Strokes/min	psi	l/h / gph	Strokes/min			
10008	10	8	3.6	38	145	9.6/2.5	45	7	2.8	3/4-10
10016	10	16	3.6	77	145	19.2/5.1	92	7	2.8	3/4-10
07026	7	26	3.6	120	100	31.2/8.2	144	7	2.8	3/4-10
07042	7	42	3.6	192	100	50.4/13.3	230	7	2.8	3/4-10
07012	7	12	5.4	38	100	14.4/3.8	45	6	1.7	3/4-10
07024	7	24	5.4	77	100	28.8/7.6	92	6	1.7	3/4-10
04039	4	40	5.4	120	58	48.0/12.7	144	6	1.7	3/4-10
04063	4	64	5.4	192	58	76.8/20.3	230	6	1.7	3/4-10

The shipping weight of all pump types is 6/7.2 kg (PVDF/SS)

Materials in contact with medium

Material	Liquid end	Suction/pressure connector	Seals	Valve balls	Valve seat
PVT	PVDF	PVDF	PTFE	Ceramic	PTFE
SST	Stainless steel material number 1.4404	Stainless steel material number 1.4581	PTFE	Stainless steel material number 1.4404	PTFE

Motor Data

Identcode characteristic	Voltage supply	Remarks
S	3 ph, IP 55 220-240 V/380-420 V 250-280 V/440-480 V	50 Hz 0.07 kW 60 Hz 0.07 kW
M	1 ph AC, IP 55 230 V $\pm 5\%$	50/60 Hz 0.06 kW
N	1 ph AC, IP 55 115 V $\pm 5\%$	60 Hz 0.06 kW

Motor data sheets can be requested for more information.

Special motors or special motor flanges are available on request.

In compliance with the Ecodesign Directive 2005/32/EC, motors of less than 0.75 kW and motor that are designed for speed-controllable operation are not subject to the IEC2 standard.

2.1 Vario C Diaphragm Metering Pumps

2.1.2 Identcode Ordering System VAMc

Vario Diaphragm Metering Pump

VAMc	Type*	bar	l/h
		10	8
		10	16
		7	26
		7	42
		7	12
		7	24
		4	40
		4	64
Material Liquid end			
	PVT	PVDF, PTFE seal	
	SST	stainless steel, PTFE seal	
Liquid end version			
	0	no valve spring (standard) PVC	
	1	with 2 valve springs. Hastelloy C4	
Hydraulic connection			
	0	standard connection	
	1	union nut and PVC insert	
	2	union nut and PP insert	
	3	union nut and PVDF insert	
	4	union nut and stainless steel insert	
	7	union nut and PVDF hose nozzle	
	8	union nut and stainless steel hose nozzle	
Version			
	0	with ProMinent® logo (standard)	
	1	without ProMinent® logo	
	M	modified	
Electrical power supply			
	S	3 ph, 230 V / 400 V; 50/60 Hz	
	M	1 ph AC 230 V; AC 50 Hz	
	N	1 ph AC 115 V; AC 60 Hz	
Stroke sensor			
	0	no stroke sensor	
	3	with stroke sensor (Namura)	
Stroke length adjustment			
	0	manual (standard)	

* digits 1 and 2=back pressure [bar]; digits 3, 4, 5=capacity [l/h]

2.1 Vario C Diaphragm Metering Pumps

2.1.3 Spare Parts

Spare parts kits normally include the parts of the liquid ends subject to wear.

Standard delivery package for PVT material version

- 1 pump diaphragm
- 1 suction valve set
- 1 discharge valve set
- 2 valve balls
- 1 set of seals (packing rings, ball seat housings)

Standard delivery package for SST material version

- 1 pump diaphragm
- 2 valve balls
- 1 set of seals (packing rings, flat seals, ball seat)

Vario spare parts kit

Applicable to Identcode: Type VAMc 10008, 10016, 07026, 07042

Delivery unit	Materials in contact with medium	Order no.
FM 042 - DN 10	PVT	1003641
FM 042 - DN 10	SST	910751

Applicable to Identcode: Type VAMc 07012, 07024, 04039, 04063

Delivery unit	Materials in contact with medium	Order no.
FM 063 - DN 10	PVT	1003642
FM 063 - DN 10	SST	910756

Pump diaphragms

	Order no.
Vario with FM 042 Type VAMc 10008, 10016, 07026, 07042	811458
Vario with FM 063 Type VAMc 07012, 07024, 04039, 04063	811459



pk_2_105_1