Gamma/X Diaphragm Metering Pump

gamma/ X – the proven best-seller intelligently extended



Discover a metering pump that sets high standards in terms of productivity, reliability, and cost-effectiveness.

The gamma/X diaphragm Metering Pump is user-friendly and has a long service life. A sophisticated magnetic control system measures the prevailing back pressure and protects the system from overload. Back-pressure measurement and pressure-resistant metering significantly increase operational reliability.

Whether the dosing volume varies or hydraulic malfunctions interfere with the dosing process—the gamma/X diaphragm dosing pump keeps everything under control.

It automatically ensures a trouble-free dosing process, and should the pump ever require maintenance, it alerts the operator with a service message.

Your benefits

- Easy installation of the dosing rate directly in l/h, ml/h, or GPH
- In concentration mode, direct entry of the desired final concentration for volume-proportional dosing tasks
- Various control options such as contact, 0/4–20 mA, Profibus, Profinet, Modbus, Ethernet/IP, and many more
- Pressure and air detection. Pressure-stable dosing and compensation for air locks
- Dosing rate control range 1:2,000
- Virtually wear-free Solenoid Drive, overload-protected, and economical

Technical Details

- Simple and precise installation of the flow rate in automatic mode. Can be reduced to as low as a few ml/h. Alternatively, the pump can also be operated in automatic “OFF” mode by adjusting the stroke length and stroke rate.
- Backlit LCD display and a 3-LED display visible from all sides for messages related to operation, warning, and error
- Bluetooth interface for app operation via smartphone and functions such as “over-the-air updates”
- Optional relays and 0/4–20 mA output for remote transmission of actual dosing rate and error messages

Technical changes reserved. Printed in Germany, 19-11-2026.

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Technical Data

Pump type	Pump capacity at max. back pressure			Stroke rate	Connector size o Ø x i Ø	Suction lift*	Shipping weight	
	bar	l/h	ml/stroke	Strokes/min	mm	m WC	PP, NP, PV, TT kg	SS kg
Metering pumps with non-self-bleeding dosing head								
GMXa 1602	16	2.3	0.19	200	6 x 4	6.0	3.6	4.1
GMXa 1604	16	3.6	0.30	200	6 x 4	5.0	3.6	4.1
GMXa 2504	25 **	3.8	0.32	200	8 x 4 ***	4.0	4.9	5.5
GMXa 0708	7	7.6	0.63	200	8 x 5	4.0	3.7	5.0
GMXa 1009	10	9.0	0.75	200	8 x 5	3.0	5.1	6.5
GMXa 0414	4	13.5	1.13	200	8 x 5 ****	3.0	3.7	5.0
GMXa 0715	7	14.5	1.21	200	8 x 5 ****	3.0	5.1	6.5
GMXa 0220	2	19.7	1.64	200	12 x 9	2.0	3.7	5.0
GMXa 0424	4	24.0	2.00	200	12 x 9	3.0	5.1	6.5
GMXa 0245	2	45.0	3.70	200	12 x 9 *****	2.0	5.2	7.0
Metering pumps with self-degassing dosing head (dosing head design 7)								
GMXa 1604	10	2.2	0.18	200	6 x 4	1.8	3.6	-
GMXa 0708	7	5.6	0.47	200	8 x 5	1.8	3.7	-
GMXa 1009	10	6.6	0.55	200	8 x 5	1.8	5.1	-
GMXa 0414	4	12.2	1.01	200	8 x 5	1.8	3.7	-
GMXa 0715	7	13.0	1.08	200	8 x 5	1.8	5.1	-
GMXa 0220	2	18.0	1.50	200	12 x 9	1.8	3.7	-
GMXa 0424	4	22.0	1.83	200	12 x 9	1.8	5.1	-
GMXa 0245	2	40.0	3.33	200	12 x 9	1.8	5.2	-

* Suction lift with a filled dosing head and filled suction line, with a self-bleeding dosing head with air in the suction line.

** 25 bar variant only available with a NP or SS dosing head material.

*** With stainless steel design, 6 mm connector width.

**** With stainless steel design, 12 mm connector width.

***** With stainless steel design DN 10.

gamma/ X metering pumps with dosing heads for higher-viscosity media have a 10 – 20 % lower capacity and are not self-priming with all feed chemicals. G 3/4-DN 10 connector with d 16-DN 10 hose nozzle.

The vPTFE diaphragm is limited to a maximum operating pressure of 10 bar. The pump capacities of the metering pumps with vPTFE diaphragm may be 10-20 % lower than those with a standard diaphragm.

All data calculated with water at 20 °C.

Materials in Contact with the Medium

Identity code of material	Dosing head	Connection on suction/discharge side	Ball seat	Seals	Balls
PVT	PVDF	PVDF	PVDF	PTFE	Ceramic
PPT	Polypropylene	PVDF	PVDF	PTFE	Ceramic
PPE	Polypropylene	Polypropylene	EPDM	EPDM	Ceramic
PPB	Polypropylene	Polypropylene	FKM A	FKM A	Ceramic
NPT	Clear acrylic	PVDF	PVDF	PTFE	Ceramic
NPE	Clear acrylic	PVC	EPDM	EPDM	Ceramic
NPB	Clear acrylic	PVC	FKM A	FKM A	Ceramic
SST	Stainless steel 1.4404	Stainless steel 1.4404	Ceramic	PTFE	Ceramic
TTT	Carbon-filled PTFE	Carbon-filled PTFE	Ceramic	PTFE	Ceramic

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Metering reproducibility: ±1% when used according to the instructions in the operating instructions

Permissible ambient temperature: -10 °C to +45 °C

Mean power consumption: 25/30 W

Degree of protection: IP 66, NEMA 4X, insulation class F

Scope of supply
Metering pump with mains cable, connector kit for hose/tube connector as per table.

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