



MEMDOS KMS

Motor piston diaphragm dosing pump



Versatile and flexible

During the development of the MEMDOS KMS, a focus was placed on ensuring the following advantages for the user:

Ease of installation

- Quick diaphragm change possible
- No zero-point correction with dismantling of the piston flange required.

High flexibility

- The rational structure requires only a minimum of spare parts storage
- The addition of a second dosing unit to the drive with an identical or different capacity range produces a double head pump, the MEMDOS ZKMS.
- Thanks to its symmetrical form, the piston flange can be installed on the left-hand or right-hand side of the simple pump. This ensures an economical and compact system design.
- Due to the installation of only four stud bolts, the dosing pump can be converted from manual stroke adjustment to electrical stroke adjustment.

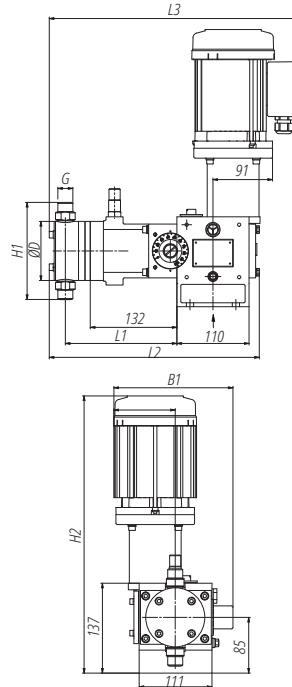
- For operation, motors with a multi-range voltage (220 – 240/380 – 420 V, 50 Hz; 440 – 480 V 60 Hz), a high protection class (IP55) and a high insulation class (F) are used. Special motors (ATEX) on request.
- TÜV-checked pressure relief valves are integrated in all pumps; these prevent damage to the pump and the periphery. The pressure relief valves have been selected to match the pump capacity and the desired maximum pressure in the system.

safety is our concern

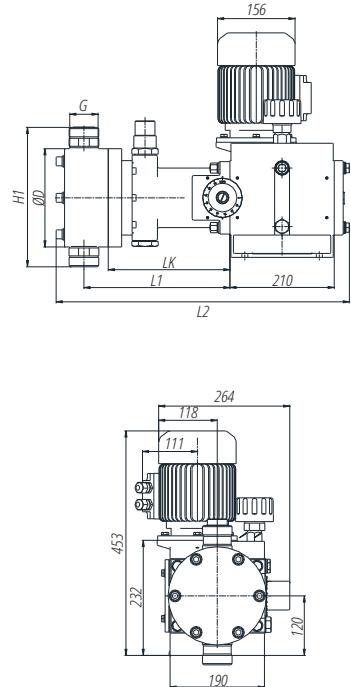
Dimensions

All dimensions in mm

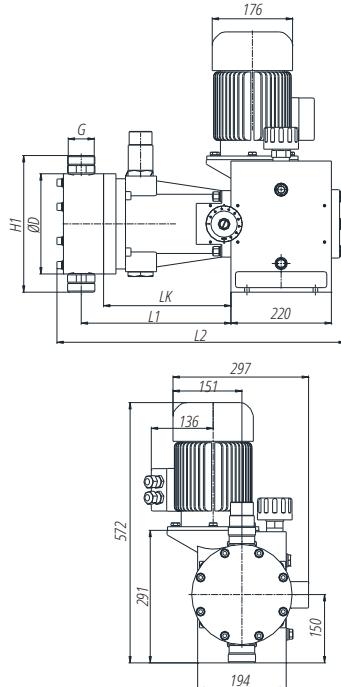
MEMDOS KMS 6 – 100 and 140
MEMDOS KMS-V 12, 20 and 50



MEMDOS KMS 137 and 272 – 582
MEMDOS KMS-V 137 and 175



MEMDOS KMS 582-HP – 1536
MEMDOS KMS-V 235 – 640



MEMDOS KMS, KMS-HP	Piston-Ø	L1	L2	L3	H1	H2	B1	ØD	G
6, 9-HP, 12, 24, 24-HP	14 – 20	170	320 approx.	382 approx.	148	423 approx.	182 approx.	90	G5/8
46	27	183	333 approx.	387 approx.	168	423 approx.	182 approx.	110	G5/8
80, 100, 140	37 – 45	192	354 approx.	407 approx.	166	423 approx.	182 approx.	110	G1 1/4

MEMDOS KMS, KMS-HP	Piston-Ø	L1	L2	LK	H1	ØD	G
137	32	272	557 (555**) approx.	240	196	150	G1 1/4
272	45	275	562 (560**) approx.	245	204	150	G1 1/4
350	52	280	562 (560**) approx.	245	232	178	G1 1/4
490, 582	58 – 65	294	597 (595**) approx.	245	281	198	G2
582-HP	65	294	697 (695*)	245	281	198	G2
882, 1058	80	328	629 (627**)	279	300	220	G2
1280, 1536	95	336	643 (641**)	281	331	250	G2

MEMDOS KMS-V	Piston-Ø	L1	L2	L3	H1	H2	B1	ØD	G
12-V	27	183	345 approx.	407 approx.	164	300 approx.	172 approx.	110	G1 1/4
20-V	37	190	365 approx.	436 approx.	200	300 approx.	172 approx.	120	G2
50-V	45	190	365 approx.	436 approx.	208	320 approx.	180 approx.	130	G2

MEMDOS KMS-V	Piston-Ø	L1	L2	LK	H1	ØD	G
137-V	45	290	584 approx.	240	228	150	G2
175-V	52	290	584 approx.	245	256	178	G2
235-V, 291-V	58 – 65	294	697 (695*)	245	278	198	G2
440-V	80	328	629 (627**)	279	298	220	G2
640-V	95	336	643 (641**)	281	330	250	G2

*) p > 10 bar, PVC/PVDF

(**) with stainless steel dosing head

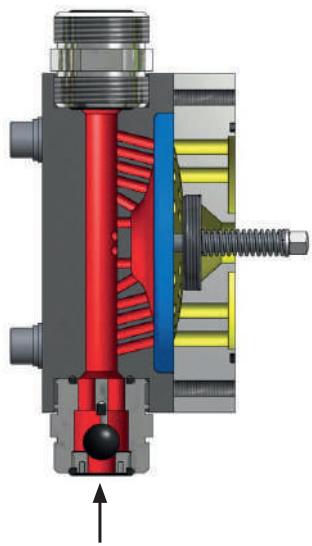
Voltage supply

MEMDOS KMS, KMS-HP	6	9-HP	12	24	24-HP	46	80	100	140	137
400 V 3ph 50 Hz 0.18 kW	•	•	•	•	•	•	•	•	•	
460 V 3ph 60 Hz 0.21 kW	•	•	•	•	•	•	•	•	•	
400 V 3ph 50 Hz 0.55 kW										•
460 V 3ph 60 Hz 0.65 kW										•
Protection class						IP55				
Insulation class						F				

MEMDOS KMS, KMS-HP	272	350	490	582	582-HP	882	1058	1280	1536
400 V 3ph 50 Hz 0.55 kW	•	•	•	•					
460 V 3ph 60 Hz 0.65 kW	•	•	•	•					
400 V 3ph 50 Hz 1.1 kW					•	•	•	•	•
460 V 3ph 60 Hz 1.3 kW					•	•		•	
Protection class					IP55				
Insulation class					F				

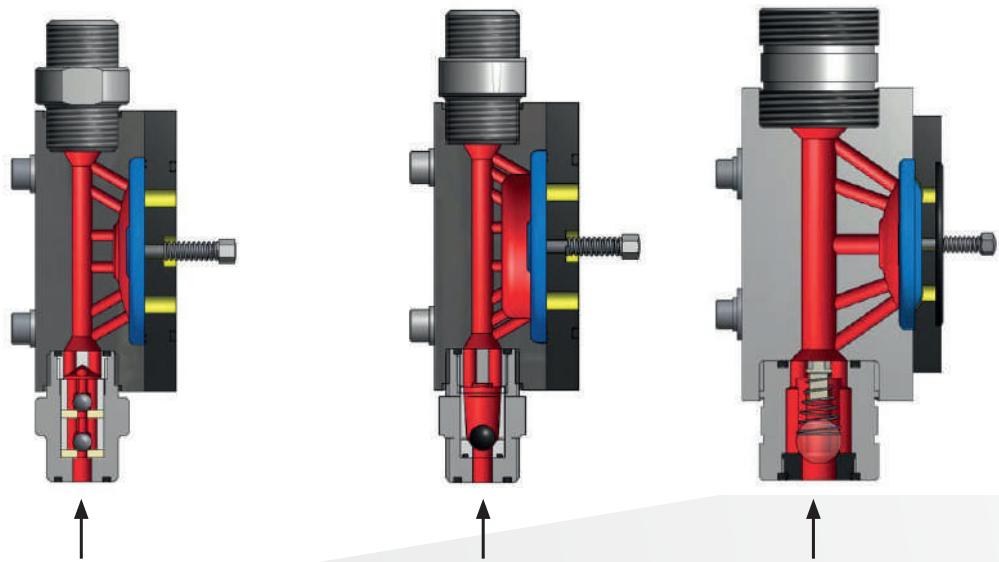
MEMDOS KMS-V	12-V	20-V	50-V	137-V	175-V	235-V	291-V	440-V	640-V
400 V 3ph 50 Hz 0.18 kW	•	•	•						
460 V 3ph 60 Hz 0.21 kW	•	•	•						
400 V 3ph 50 Hz 0.55 kW				•	•				
460 V 3ph 60 Hz 0.65 kW					•				
400 V 3ph 50 Hz 1.1 kW						•	•	•	•
460 V 3ph 60 Hz 1.3 kW						•	•	•	•
Protection class					IP55				
Insulation class					F				

Standard dosing head



Dosing head with standard suction and pressure valve:
The material and type of the dosing head with suction and pressure valve has been adapted to the corresponding media and operating states.
The materials PVC, PVDF and 1.4571 are available.

Dosing head for viscous and abrasive media



Special versions with suction and pressure valve for abrasive media (left figure) and viscous media (right figure) available on request.

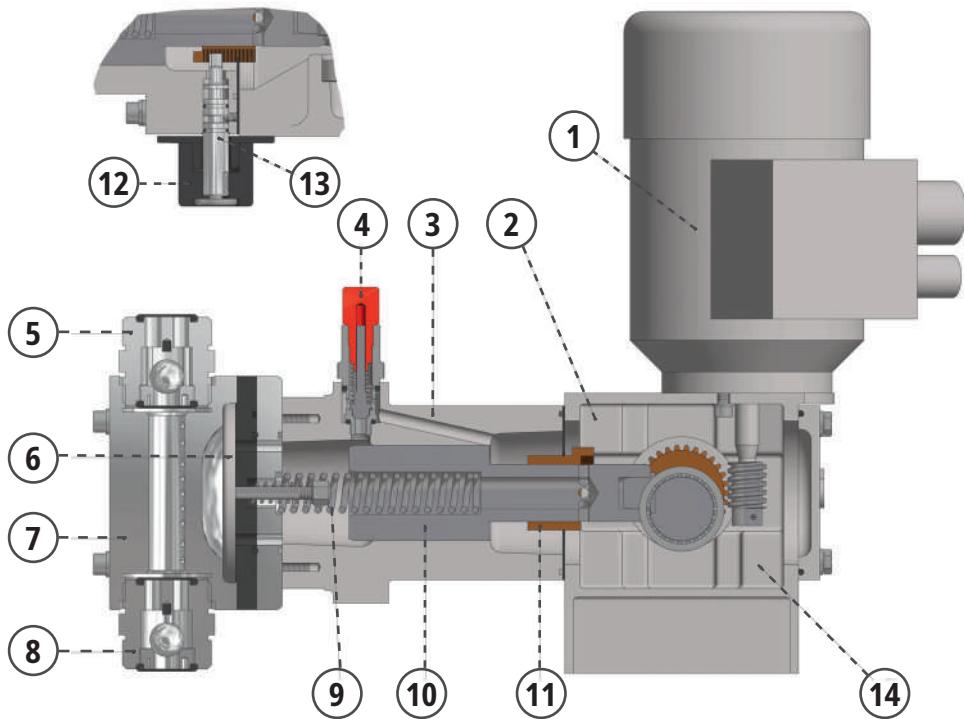
A modular powerhouse

Motor piston diaphragm dosing pumps 6 – 1536 l/h, up to 25 bar

Structure of the MEMDOS KMS

1. Drive motor
2. Drive unit
3. Hydraulic unit
4. Pressure-relief valve
5. Pressure valve
6. Diaphragms
7. Dosing head
8. Suction valve
9. Piston spring
10. Piston
11. Slide valve
12. Adjusting knob
13. Adjusting spindle
14. Hydraulic fluid

The MEMDOS KMS was developed in accordance with the modular principle. This offers the advantage that – depending on the problem – you can combine various pump elements and thus obtain a dosing pump that is optimally tailored to your needs.



Technical data



WANT TO LEARN MORE?

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