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MAHR GmbH

## Armatures for bulk goods



### Material feeders

MAHR-BOW 2000, Silo Feeding Nozzles  
Two-Way-Valves TYPE ZR, Squeeze valves  
Couplings, Conveying pipes



### Gate-Batching Units

Cast Iron Flat-Disk Valve, Tapered-plug Valves, Air Slides Rotary  
Valves, Rotary Valves, Butterfly Valves, Dosing Gate Valves  
Two-Way-Diverters, Pendulum Dosing Gates



### Dedusting Units

Large Capacity and Special Filters  
Pressure Surge Filter, Silo Filters (mechanical and pneumatic)



### Discharge Devices

Silo-Aeration-Bottoms, Air Separators,  
Aeration hoses



### Loading Equipment

Telescope Loaders, Loader Hoppers,  
Loader Controls, Chutes



### Controlling Units

Level Indicators, Overfill Protections  
Temperature Indicators, CO-Measurement/-indication



### Conveying Equipment

Screw Conveyors,  
Air Slide LF



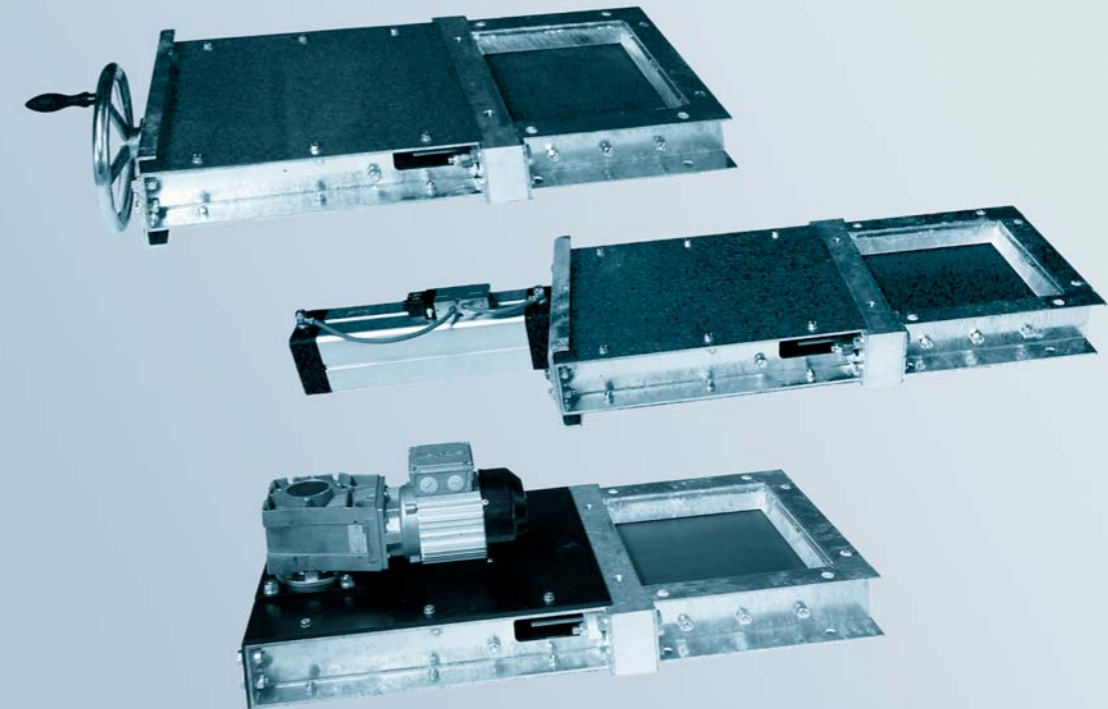
### Pneumatic Conveying Equipment

Two-Way-Valves, Accessory Nozzles  
Special Hose Valves, Pneumatic Conveyor Systems  
Pressure Tanks, Tapered-plug Valves, Cone locks



### Storing

Single steel silos: factory welded, welded on-site or screw assembled  
Bunkers, Hoppers, multi-chamber silos: screw assembled and welded



# Flat Slide Valve

Type MMFS-H, MMFS-P, MMFS-GM

Super-sealing shut-off device for silo and container outlets –  
for manual, pneumatic and motor driven operation



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# FLAT SLIDE VALVE

Type MMFS-H, MMFS-P, MMFS-GM



## FLAT SLIDE VALVE, TYPE MMFS-H

### AREAS OF APPLICATION:

To be used at silo and container outlets in emergency cases in order to be able to do maintenance works at subsequent discharge units without needing to empty the silo. Ensures optimal sealing when handling dusty or granular bulk goods of max. 4 mm grain size.

### LAYOUT AND OPERATING PRINCIPLE:

Modular construction, with basic frame allowing to mount three different operating units (for manual, pneumatic or motor driven operation). Slide valve steel plate is led on rollers sealed from both sides. Steel plates in labyrinth arrangement plus a stuffing box ensures optimal sealing. The gland in the stuffing box can easily be adjusted from outside.

### MATERIAL:

Frame: St 37, cinc coated  
 Sealing block: Aluminium  
 Stuffing box: Cast iron  
 Gland: PTFE ramie  
 Steel plate: ST 37, primed

### ADVANTAGES:

- Optimal sealing
- Hot-dip galvanized
- Robust and reliable
- Short closing times
- Modular design

## FLAT SLIDE VALVE, TYPE MMFS-P

### AREAS OF APPLICATION:

To be used at silo and container outlets. Ensures optimal sealing when handling dusty or granular bulk goods of max. 4 mm grain size.

### LAYOUT AND OPERATING PRINCIPLE:

Modular construction, with basic frame allowing to mount three different operating units (for manual, pneumatic or motor driven operation). Slide valve steel plate is led on rollers sealed from both sides. Steel plates in labyrinth arrangement plus a stuffing box ensures optimal sealing. The gland in the stuffing box can easily be adjusted from outside.

### MATERIAL:

Frame: St 37, cinc coated  
 Sealing block: Aluminium  
 Stuffing box: Cast iron  
 Gland: PTFE ramie  
 Steel plate: ST 37, primed

### TECHNICAL DATA:

Cylinder: Ø 100 mm  
 Switch: Reed switch  
 Valve: 5/2 (closed when not powered)

### ADVANTAGES:

- Optimal sealing
- Hot-dip galvanized
- Robust and reliable
- Short closing times
- Modular design

## FLAT SLIDE VALVE, TYPE MMFS-GM

### AREAS OF APPLICATION:

To be used at silo and container outlets. Ensures optimal sealing when handling dusty or granular bulk goods of max. 4 mm grain size.

### LAYOUT AND OPERATING PRINCIPLE:

Modular construction, with basic frame allowing to mount three different operating units (for manual, pneumatic or motor driven operation). Slide valve steel plate is led on rollers sealed from both sides. Steel plates in labyrinth arrangement plus a stuffing box ensures optimal sealing. The gland in the stuffing box can easily be adjusted from outside.

### MATERIAL:

Frame: St 37, cinc coated  
 Sealing block: Aluminium  
 Stuffing box: Cast iron  
 Gland: PTFE ramie  
 Steel plate: ST 37, primed

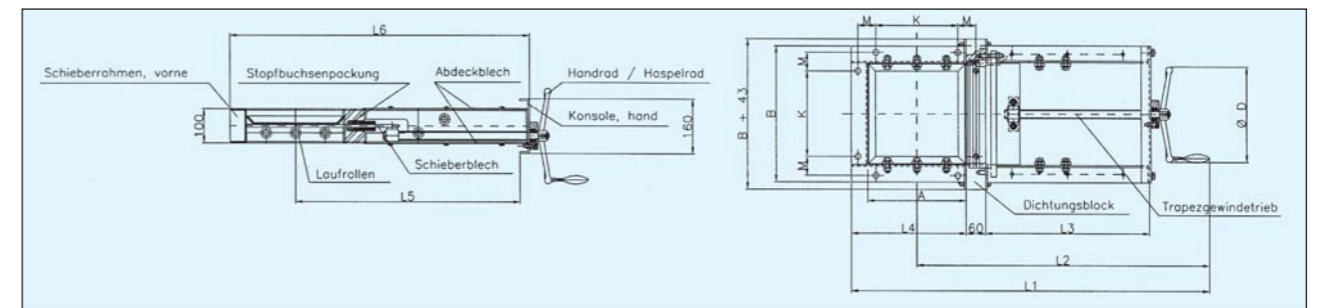
### TECHNICAL DATA:

Gear motor: 0,37 kW, 230/400 V  
 Switch: Micro switch, 250 V, 6 A  
 Chain drive: 5/8" x 3/8"

### ADVANTAGES:

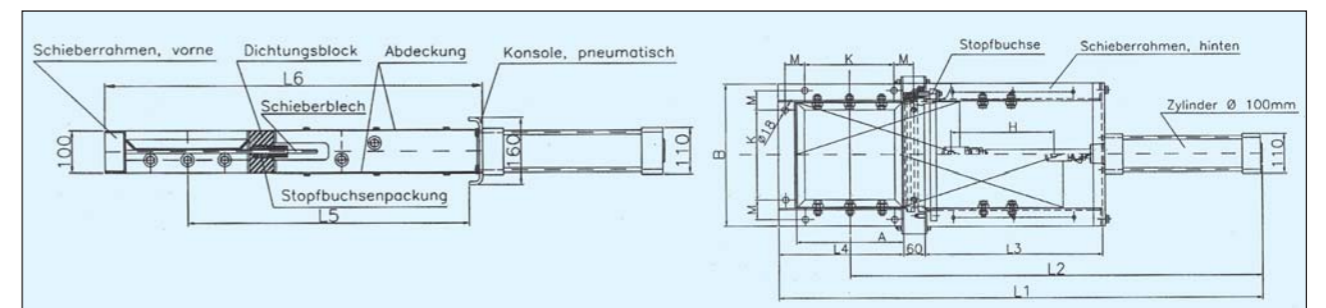
- Optimal sealing
- Hot-dip galvanized
- Robust and reliable
- Short closing times
- Modular design
- Small dimensions for installation

## DIMENSIONAL DRAWINGS AND TABLES FOR TYPE MMFS-H (MANUAL OPERATION)



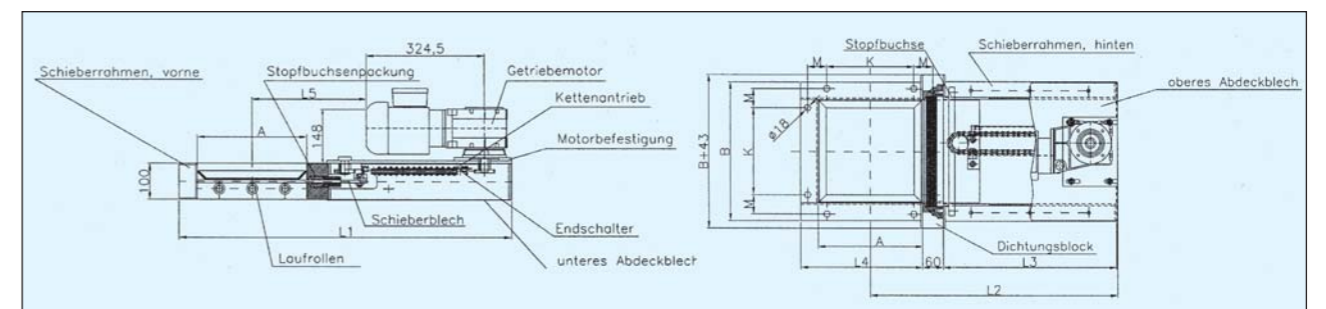
NW	A	B	L1	L2	L3	L4	L5	L6	K	M	ØD	weight
200 x 200	200	297	860	740	400	250	535	715	150	55	250	ca. 40 kg
300 x 300	300	397	1090	890	500	350	685	915	250	55	250	ca. 46 kg
400 x 400	400	497	1290	1040	600	450	835	1115	300	80	300	ca. 55 kg

## DIMENSIONAL DRAWINGS AND TABLES FOR TYPE MMFS-P (PNEUMATIC OPERATION)



NW	A	B	L1	L2	L3	L4	L5	L6	K	M	air requirement at 6 bar	weight
200 x 200	200	297	1060	910	400	250	585	718	150	55	0,089 NI/Hub	ca. 48 kg
300 x 300	300	397	1360	1160	500	350	685	918	250	55	0,137 NI/Hub	ca. 55 kg
400 x 400	400	497	1660	1410	600	450	835	1118	300	80	0,184 NI/Hub	ca. 65 kg

## DIMENSIONAL DRAWINGS AND TABLES FOR TYPE MMFS-GM (GEAR MOTOR OPERATION)



NW	A	B	L1	L2	L3	L4	L5	K	M	weight
200 x 200	200	297	715	615	400	250	*	150	55	ca. 48 kg
300 x 300	300	397	915	715	500	350	314	250	55	ca. 55 kg
400 x 400	400	497	1115	815	600	450	414	300	80	ca. 65 kg

\* NW 200: drive rotated 90°