

The image shows a complex industrial airlock system. At the top, there are several white hopper-like containers. Below them, a network of pipes is visible, with some painted in teal and others in silver. The main body of the airlock consists of large, white, funnel-shaped structures supported by metal stands. Each stand has a motor and a control panel. The floor is a light-colored, polished surface. The overall scene is clean and well-maintained.

Airlocks.  
**MPSH/MPSJ/  
MPSK.**

# Trouble-free operation. **High reliability.**



MPSH Blow-through airlock. Wide range of applications.

## **Robust, powerful, economical.**

The robust design and precision workmanship of the airlocks improve operating reliability and reduce running costs. The airlocks achieve capacities of up to 200 t/h.

## **Broad application range.**

Depending of airlock type, they can be applied for the direct feed of powdery to fine-grained, free-flowing or corrosive bulk materials with max. operating temperatures up to 220 °C.

## **Hygienic Design.**

The compact design of the airlocks ensures complete discharge and thus an excellent sanitation.



Direct drive with slip-on gearing. Low noise emission.

## **Optimized airlock design lowers energy consumption.**

Thanks to an optimized design, the units effectively reduce energy consumption:

- A direct drive allows higher electrical efficiency and lower noise level.
- The small clearance between the housing and rotor guarantee minimum air leakage.

### **The advantages at a glance:**

- Highly economical
- Broad range of applications
- Low energy consumption
- Excellent sanitation

# Wide range of applications. **Good efficiency.**

## **MPSH Blow-through airlock.**

The MPSH blow-through airlock serves for the direct feed of powdery to finegrained, free-flowing bulk materials into conveying lines of pneumatic suction and pressure systems. Wide range of applications, with max. operating temperatures up to 140 °C.



## **MPSJ Discharge airlock.**

The MPSJ discharge airlock serves for the discharge of powdery to fine-grained bulk materials from separators or pneumatic conveying systems. Wide range of applications, with max. operating temperatures up to 220 °C.



## **MPSK Tangential airlock.**

The MPSK tangential airlock serves for the feed as well as the discharge of fine-grained to granular materials. Wide range of applications, with max. operating temperatures up to 220 °C.



## **Versions.**

### **Grey cast iron GG**

Housing and cover of grey cast iron, rotor of steel

### **Grey cast iron GG (t) partially chrome-plated**

Housing and cover of grey cast iron, bore and inside of cover chrome-plated, rotor of steel

### **Grey cast iron GG (v) fully chrome-plated**

Housing and cover of grey cast iron, surfaces in contact with the product chrome-plated, rotor in stainless steel

# High profitability. Compact design, accurate processing.

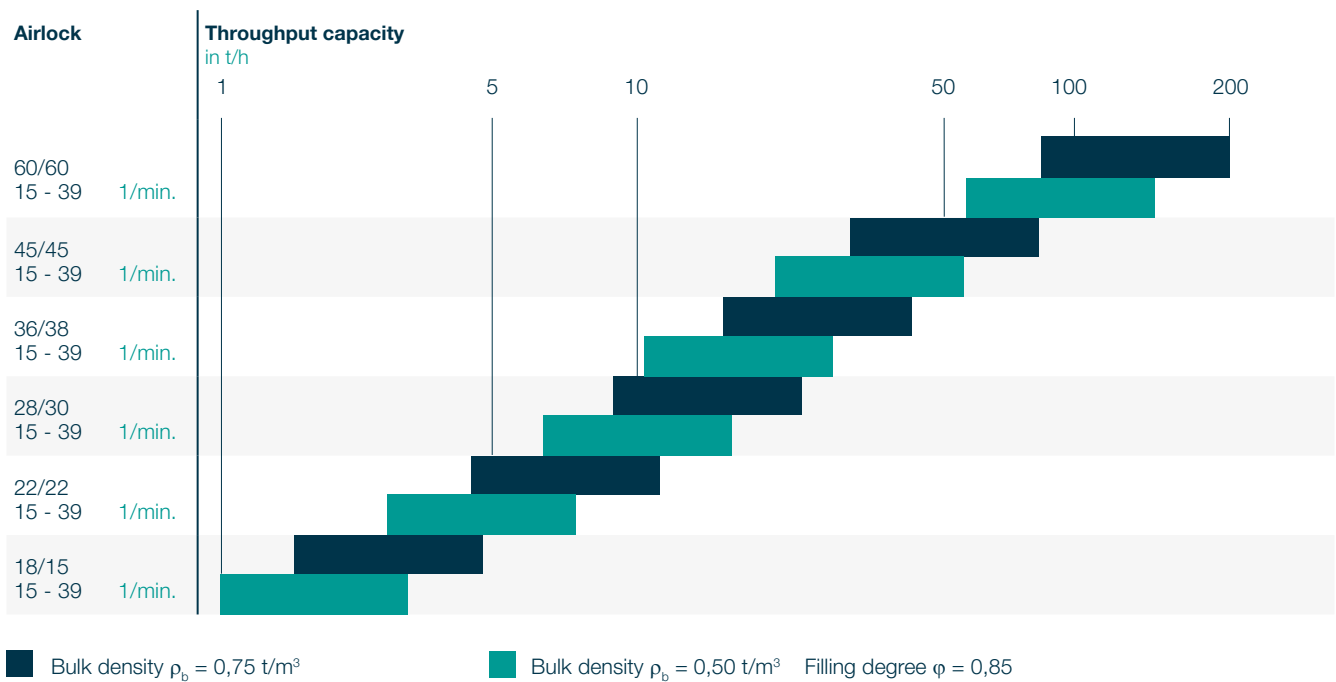


Airlocks MPSH, MPSJ, MPSK with various options.

## Options.

- Shaft speed monitoring
- Inlet hopper for powder and granulates, with or without level probe
- Hub purging using air from the compressed air network or in the case of the blow-through airlock from conveying blower (with check valve and orifice plate)
- Ventilation of cover for closed rotors
- Sight glass for airlock inlet
- Nozzles for the discharge and tangential airlock
- Connection flange and seals
- Special rotors

## Throughput capacity diagram:



The throughput capacity of an airlock depends on the one hand on the properties of the product handled and its bulk density  $\rho_b$ , and on the other hand on the geometry of the

airlock, its rotor speed and the pressure differential existing in the conveying system. This gives the volume and the filling degree  $\varphi$ .

# MPSH: Low overall height. Optimized discharge.

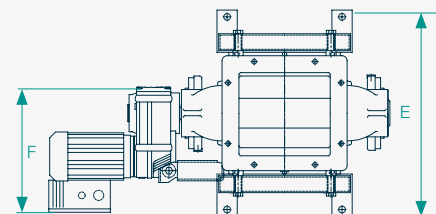
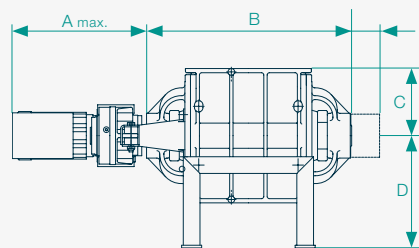
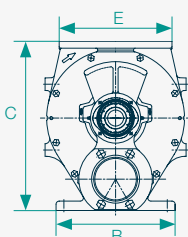
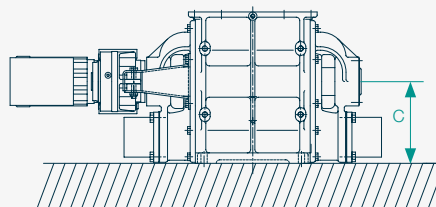
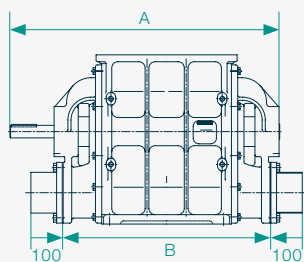
Technical data, dimensions of MPSH airlock (mm):

Size	Dimensions in mm					Rotor content in dm <sup>3</sup> open	Net weight in kg GG
	A	B	C	D	E		
18/15	529	398	280	270	210	2,5	82
22/22	627	464	340	300	250	6,1	122
28/30	716	536	435	360	340	13,8	190
36/38	859	660	540	380	350	30,7	298
45/45	929	730	630	440	410	60,1	427
60/60	1216	904	840	520	520	143,8	900

Technical data, dimensions of MPSH airlock unit (mm):

Size	Dimensions in mm						Weight in kg net	
	A max.	B	C	D min. <sup>1)</sup>	D Stand	E		F
18/15	323	452	135	135	145	460	263	75
22/22	483	524	155	123	185	548	205	155
28/30	483	612	205	143	235	610	205	213
36/38	563	720	245	178	295	730	257	355
45/45	563	790	290	233	340	830	257	486
60/60	665	1044	400	318	440	1080	321	1035

<sup>1)</sup> D min. = minimum height of support legs.



Airlock MPSH

Airlock unit MPSH

# MPSJ: Wide range of applications. Easy warehousing of spare parts.

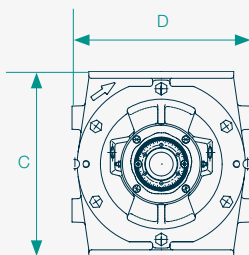
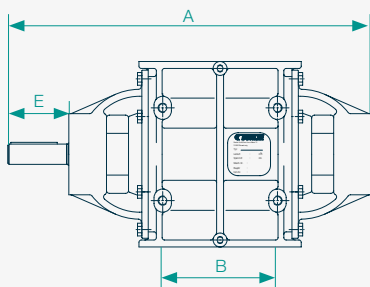
Technical data, dimensions of MPSJ airlock (mm):

Size	Dimensions in mm					Rotor content in dm <sup>3</sup>		Net weight in kg GG
	A	B	C	D	E	open	closed	
18/15	529	128	280	280	77	2,5	2,6	73
22/22	627	198	320	308	105	6,1	6,4	102
28/30	716	275	410	370	106	13,8	14,3	171
36/38	859	355	480	450	141	30,7	31,6	280
45/45	929	415	580	550	141	60,1	61,7	420
60/60	1216	520	800	740	174	143,8	146,5	840

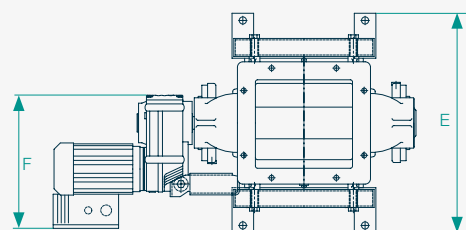
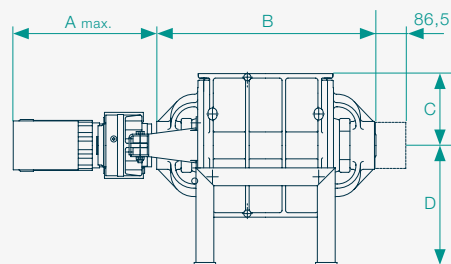
Technical data, dimensions of MPSJ airlock unit (mm):

Size	Dimensions in mm						Weight in kg net
	A max.	B	C	D min. <sup>1)</sup>	E	F	
18/15	323	452	145	135	460	263	95
22/22	483	524	155	123	548	205	155
28/30	483	612	205	143	610	205	213
36/38	563	720	245	178	730	257	355
45/45	563	790	290	233	830	257	486
60/60	665	1044	400	318	1080	321	1035

<sup>1)</sup> D min. = minimum height of support legs.



Airlock MPSJ



Airlock unit MPSJ

# MPSK: High throughput. Low noise emissions.

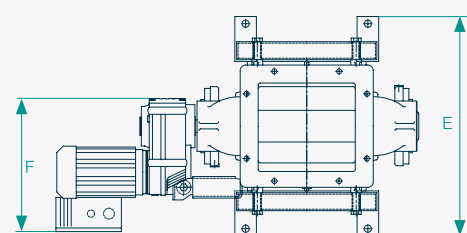
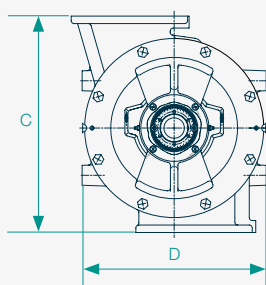
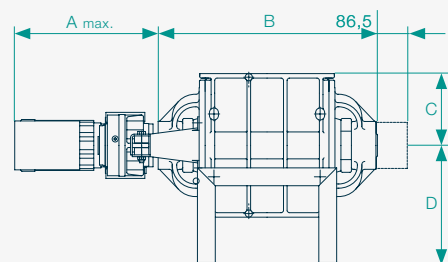
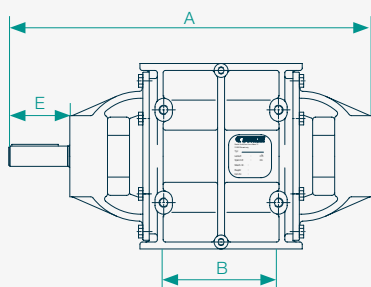
Technical data, dimensions of MPSK airlock (mm):

Size	Dimensions in mm					Rotor content in dm <sup>3</sup>		Net weight in kg GG
	A	B	C	D	E	open	closed	
18/15	529	128	340	280	77	2,5	2,6	73
22/22	627	198	380	308	105	6,1	6,4	102
28/30	716	275	435	370	106	13,8	14,3	171
36/38	859	355	530	450	141	30,7	31,6	280
45/45	929	415	630	550	141	60,1	61,7	420

Technical data, dimensions of MPSK airlock unit (mm)

Size	Dimensions in mm						Weight in kg net
	A max.	B	C	D min. <sup>1)</sup>	E	F	
18/15	323	452	175	135	460	263	95
22/22	483	524	200	123	548	205	155
28/30	483	612	225	143	610	205	213
36/38	563	720	275	178	730	257	355
45/45	563	790	330	233	830	257	486

<sup>1)</sup> D min. = minimum height of support legs.



Airlock MPSK

Airlock unit MPSK

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