

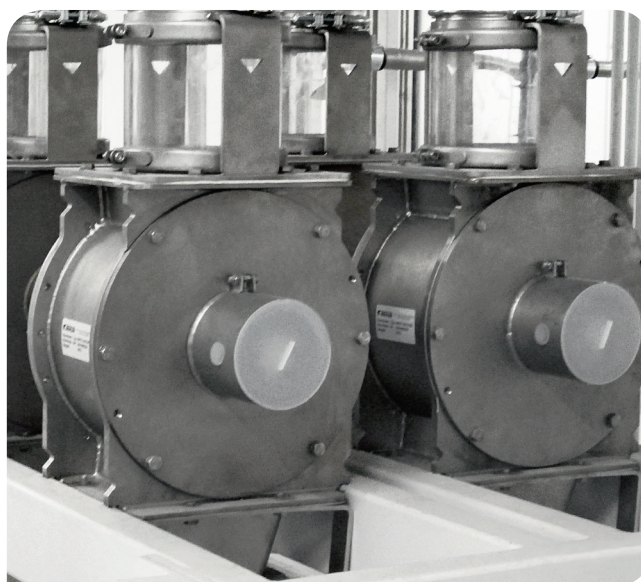
Stainless steel  
airlocks  
**MPSS / MPST**

# Bühler discharge and blow-through airlocks. **Dependable and efficient.**

The blow-through airlock MPSS ensures a direct product feed into pneumatic conveying lines, while the discharge airlock MPST is used for discharging bulk material following filters, cyclones and bins. Both airlocks not only meet the highest sanitation standards, but also feature a very sturdy design and a high operational reliability.



Pneumatic mill stock conveying system: airlock table with cyclone and discharge airlock MPST.



## **High operational reliability.**

The sturdy design and the high-precision manufacture of the airlocks increase their operational reliability and reduce the cost of operation. In the ExP version the airlocks are designed to be explosion pressure shock resistant and flameproof.

## **Excellent sanitation.**

All discharge and blow-through airlocks are manufactured entirely in stainless steel. Due to the compact design, the rotor pockets can be discharged completely. In addition, a purged seal as well as a hygienic rotor with rounded rotor pockets guarantee maximum sanitation.

## **Dependable and efficient.**

All airlocks are manufactured with high precision and ensure a reliable operation with minimum air leakage. Due to very little wear, the maintenance costs can be reduced while the durability of the airlocks can be increased.

### **Benefits:**

- High operational reliability
- Dependable and efficient
- Excellent sanitation
- Modular assembly
- Easily replaceable

# Modular set-up. Designed for maximum flexibility.



Product feed into the pneumatic conveying line: a blow-through airlock MPSS is used as feeding element below the discharge station MKSB.



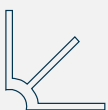
## Modular design.

Thanks to a modular concept, the airlock can be used for a variety of different products. Various connection pipes allow a direct transition to the diameter of the pneumatic line.

## Easily replaceable.

Identical dimensions to existing Bühler airlocks ensure a simple replacement.

### Rotor selection for airlocks MPSS and MPST:



Standard rotor



Bevel-tipped rotor



Beveled rotor with brace



Razor-sharp beveled rotor



Hygienic rotor with rounded pockets



Shallow pocket rotor

# Discharge airlock MPST.

## Technical data.

		<b>MPST 25/15</b>	<b>MPST 25/23</b>	<b>MPST 28/30</b>
<b>Rotor volume</b>				
<b>Standard</b>	dm <sup>3</sup>	5,8	9,0	15,2
<b>Shallow pockets</b>	dm <sup>3</sup>	2,3	3,6	6,1
<b>Weight (incl. drive)</b>	kg	55	65	115
<b>Volume (incl. drive)</b>	m <sup>3</sup>	0,14	0,16	0,20
<b>Pressure range</b>		16.5	33.0	49.5
<b>Operating pressure</b>	bar	0,6	0,6	0,6
<b>Maximum pressure</b>	bar	0,8	0,8	0,8
<b>Dimensions</b>	mm			
<b>A</b>		320	320	400
<b>B</b>		160	160	200
<b>C</b>		422	464	633
<b>D</b>		220	300	370
<b>E</b>		120	200	270
<b>F</b>		240	240	320
<b>G</b>		150	150	220
<b>H</b>		100	150	200
<b>J</b>		175	270	335
<b>K</b>		100	150	200
<b>L</b>		205	210	285
<b>M</b>		M8	11,5	13,5
<b>S</b>		5	5	6

### Configuration:

**Standard**

**ATEX**

**ExP**

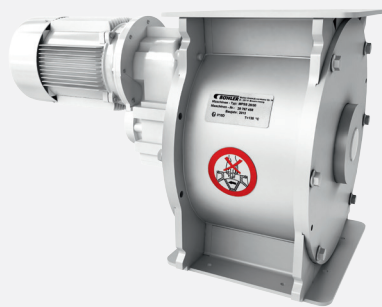
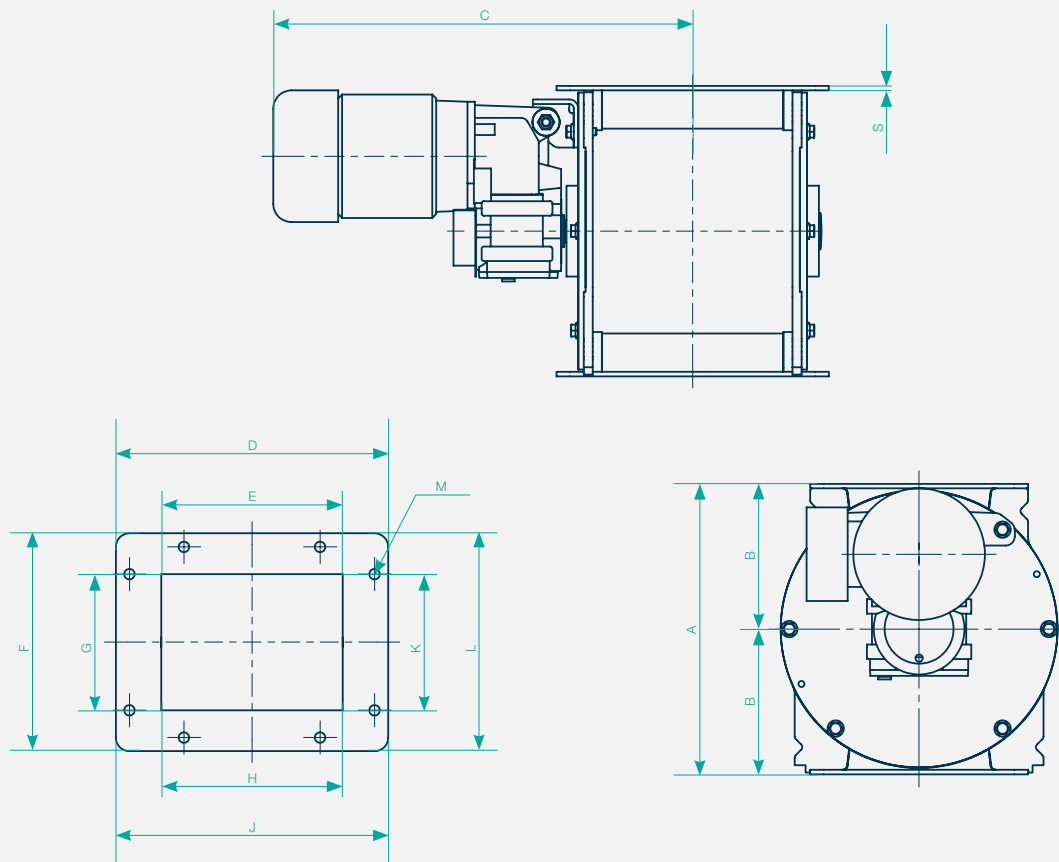
No ATEX zone  
 Zone 22 (external)  
 Explosion pressure shock resistant until 3,5 bar  
 EC type examination for ATEX zone 20/dust class 1

### Options:

**Frequency converter**

**Hub rinsing**

# Discharge airlock MPST. Dimensional drawing.



# Blow-through airlock MPSS.

## Technical data.

		MPSS 25/15	MPSS 25/23	MPSS 28/30
<b>Rotor volume</b>				
Standard	dm <sup>3</sup>	5,8	9,0	15,2
Shallow pockets	dm <sup>3</sup>	2,3	3,6	6,1
Approx. weight (incl. drive)	kg	55	65	115
Volume (incl. drive)	m <sup>3</sup>	0,18	0,20	0,25
<b>Pressure range</b>				
Operating pressure	bar	0,6	0,6	0,6
Maximum pressure	bar	0,8	0,8	0,8
<b>Dimensions</b>				
A	mm	384	464	540
B		544	624	700
C		337	337	423
D		56,3 / 60,3 72,1 / 76,1 84,9 / 88,9	56,3 / 60,3 72,1 / 76,1 84,9 / 88,9	84,9 / 88,9 110,3 / 114,3
E		124 116 110	124 116 110	155 142
F		160	160	200
G		422	464	633
H		272	312	350
J		220	300	370
K		120	200	270
L		240	240	320
M		150	150	220
N		100	150	200
O		175	270	335
P		100	150	200
Q		205	210	285
R		M8	11,5	13,5
S		5	5	6

### Configuration:

**Standard**

**ATEX**

**ExP**

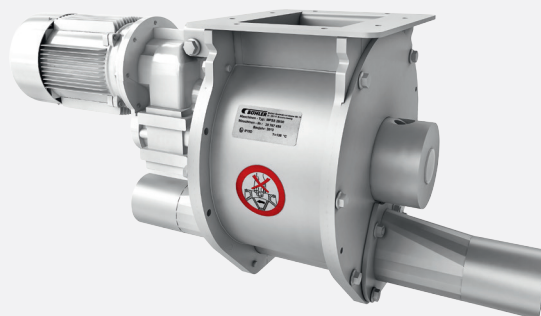
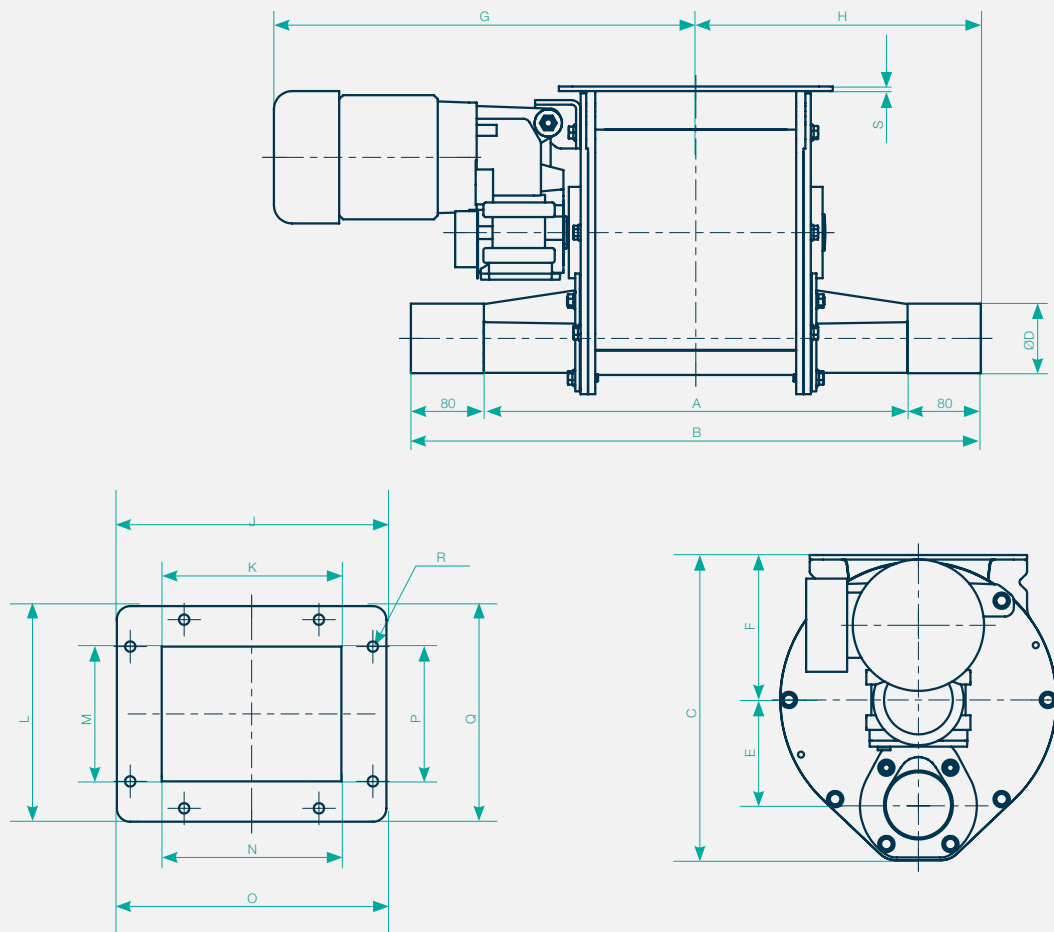
No ATEX zone  
Zone 22 (external)  
Explosion pressure shock resistant until 3.5 bar  
EC type examination for ATEX zone 20/dust class 1

### Options:

**Frequency converter**

**Hub rinsing**

# Blow-through airlock MPSS. Dimensional drawing.



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Flyer MPSS/MPST en 04/17 ZACC