

# Rotary valves Type S-AX

## "Light Duty" dust valve

### Application:

The TBMA S-AX "Smart-Lite™" dust valve is specially designed for use in combination with dust filters, cyclones, product separators and dosing systems.

These valves are suitable for use in simple and light industrial applications whereby the valve primarily functions as an airlock.

### Specific features:

- ATEX 95 certified
- Protective system, dust explosion- and flame proof up to 1.14 bar
- Flange size: DN 250 (square/round)
- Rotor volume: 9,5 ltr/rev.
- Max. operating pressure differential: 0,5 bar
- Directly driven by a helical-worm geared motor
- Round/square flange connections according to PN 10 / DIN 2576
- Allowable product temperature: 70°C.
- Minimal air leakage using 8 rotor blades
- Shaft sealing with double NBR lip seals
- Low installation weight

### Construction of valve:

- |                |                                    |
|----------------|------------------------------------|
| • Body         | GGG 50 Smart-Lite™ cast iron       |
| • End covers   | GGG 50 Smart-Lite™ cast iron       |
| • Rotor        | Mild steel                         |
| • Rotor blades | Polyurethane                       |
| • Drive        | 0,37 kW, IP 55, Insulation class F |



### Basic execution:

Body and end covers are cast from a new revolutionary material called: "Smart-Lite™". This nodular (graphite-steel matrix composite) cast iron is stronger than conventional cast iron and offers excellent fatigue specifications, good corrosion resistance and an economical use of materials. This results in a very low valve weight of only 60 kg.

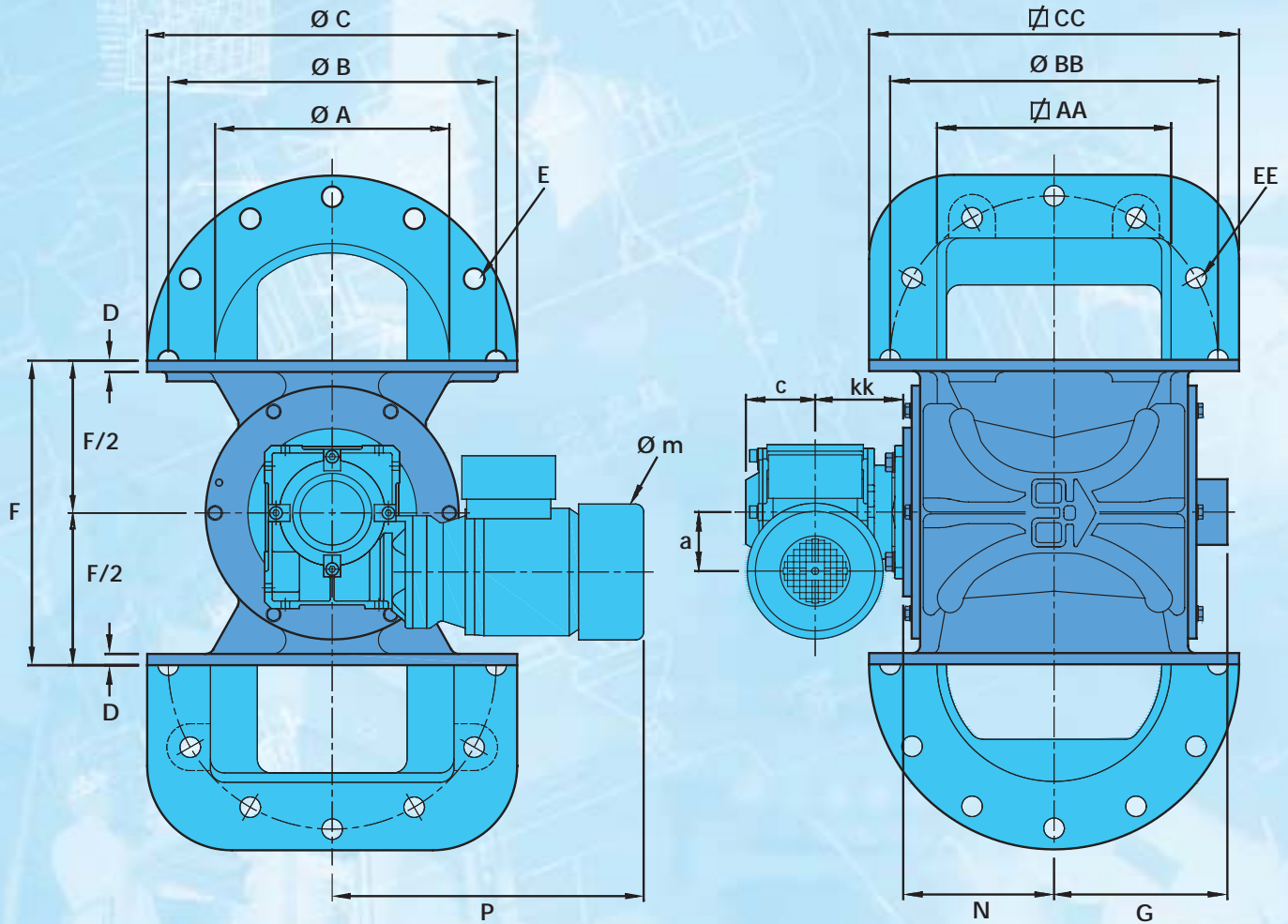
The square and round flange connections make it possible to use the valve as a transition connection. This means a considerable reduction in installation height and cost for expensive transition flanges.

The valve is directly driven by a helical-worm geared motor reductor which is mounted on the extended rotor shaft. The standard rotor is executed in mild steel with 8 adjustable and replaceable polyurethane blades.

Drive side end cover, rotor and drive can be dismantled as a whole for inspection or cleaning. No axial or radial adjustment of rotor and rotor blades is required after assembly.



## Dimensions Type S-AX Rotary Valve



Type S-AX	A	B	C	D	E	F	AA	BB	CC	EE	G	N	P
250	250	350	395	12	12x Ø22	325	250	350	395	12x Ø22	185	161	333
Type S-AX	Ltr/rev.	min-1	kW	Nm	a	c	kk	m	Weight (kg)				
250	9,5	27,0	0,37	80	63	74	94	145	60,2				

Standard drive: Nord

Electrical supply: 230/400V-50Hz Protection class: IP 55 Insulation class: F

Flange drilling: PN10 / DIN 2576

**Note:** The flange which is to be used as inlet must be confirmed by client when ordering the valve  
All dimensions are in mm and might be subject to change (design changes reserved)

### Quality is not a Coincidence

Rotary valves are an essential part of your process equipment for pneumatically conveying or dosing powdered and granulated materials. A large variety of materials to be handled, precise valve settings and the correct application make an optimum selection of equipment for your production process essential for maximum running efficiency.

TBMA has a wide range of expertise in the application of rotary valves in many fields of the process industry. The result is an extensive size range of rotary airlocks and blowing seals with numerous execution possibilities. This may vary from a simple dust valve to a valve handling product of a critical nature.

TBMA can offer you a test facility where your product can be tested in combination with the proposed equipment. A good advice regarding the right choice of equipment for your specific application together with technical information is available on request. TBMA can make the difference. Contact us and find out!!

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