

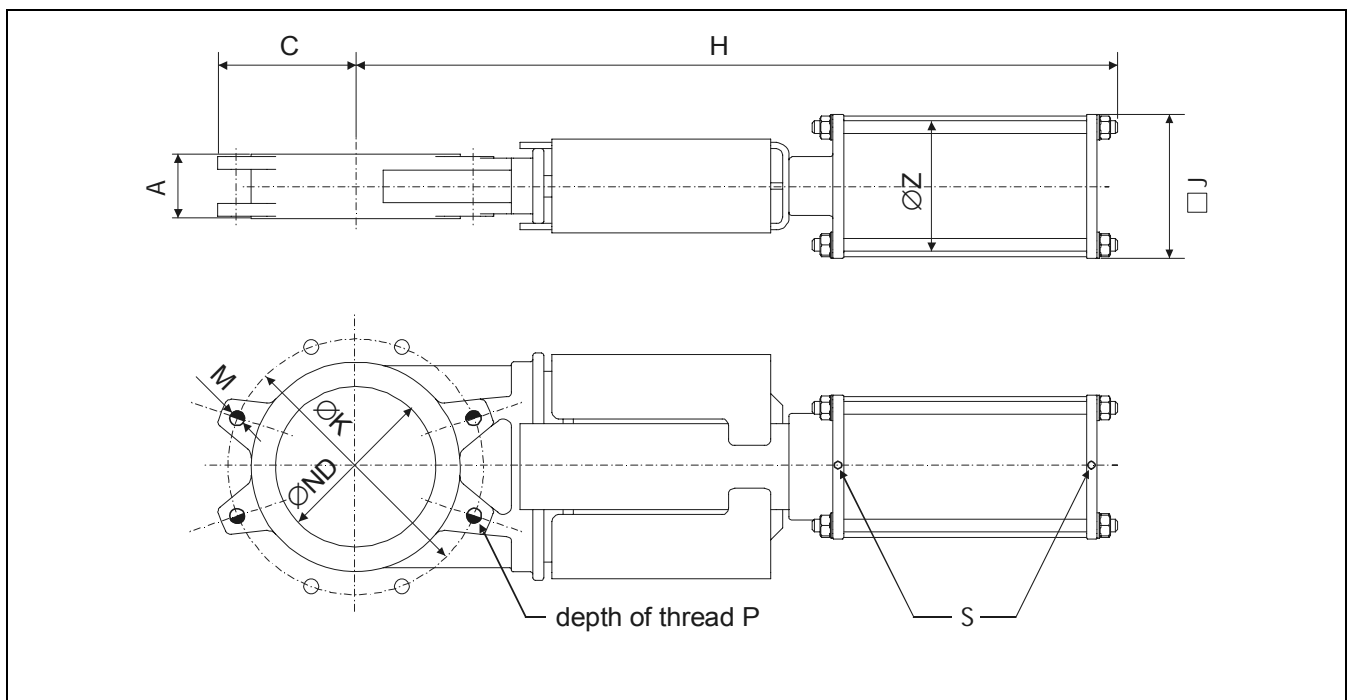
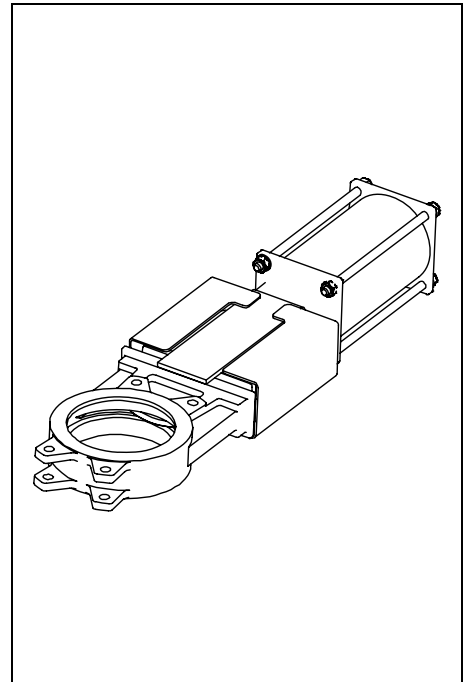
Brabender Flat Gate Slide Valves

Brabender flat gate slide valves with double-acting pneumatic drive are mainly used as automatic refill valves for loss-in-weight feeders, serving to unblock the ingredient stream for feeder refilling and to shut off the refill device again at the end of the feeder refill phase. Their short opening and closing times make them particularly suitable for this task. Of course the slide valves can also be used for any other application requiring reliable and quick release and interruption of bulk ingredient streams. Depending on the required flow volume and the respective pipeline diameters, Brabender flat gate slide valves are available in standard sizes ranging from 65 to 400 mm diameter. Upon request, further diameters can be supplied.

The slide valves are supplied fully assembled including a 5/2 way solenoid valve. All parts in touch with the ingredient are made of stainless steel. The standard versions of the slide valves are supplied with holes drilled as per DIN 2501 for intermediate mounting between flanges provided on site.

For flexible connection to downstream and/or upstream equipment by means of flexible transition sleeves a version is available equipped with a flanged downstream and/or upstream connection pipe.

For applications where bulk ingredient flow can be shut off manually, a hand wheel version is optionally available.



ND	A	C	Z	S	J	H	K	M	P	Threads	Holes	Weight
mm	mm	mm	mm		mm	mm	mm		mm	●	O	kg
65	40	70	80	1/4 "	96	452	145	M16	8	4	0	10
80	50	92	80	1/4 "	96	494	160	M16	9	4	0	11
100*	50	105	100	1/4 "	115	557	180	M16	9	4	4	13
150*	60	130	125	1/4 "	138	711	240	M20	10	4	4	23
200*	60	160	160	1/2 "	175	871	295	M20	10	4	4	40
250*	70	198	200	1/2 "	218	1027	350	M20	12	6	6	57
300	70	234	200	1/2 "	218	1177	400	M20	12	6	6	68
350	96	256	250	1/2 "	270	1380	460	M20	21	8	4	129
400	100	292	250	1/2 "	270	1536	515	M24	21	10	6	152

* ex stock

Technical Data*

Component Groups

- Valve housing
- Slide plate
- Housing covers
- Double-acting pneumatic drive
- 5/2 way solenoid valve
- Sound absorber
- Screw fittings with piping

Materials

- Housing: cast stainless steel CF8M \approx 1.4408
- Slide plate: stainless steel 1.4401 \approx AISI 316
- Housing covers: mild steel, painted black
- Sealing between slide plate and housing: silicone (soft seal)
- Stuffing box sealing: cotton, PTFE impregnated

Accessories/Options

- 2 limit switches (3 wires)
- Solenoid valve and limit switches wired to a junction box (additional weight 2.5 kg per slide valve)
- Flanged-on downstream and/or upstream connection pipe, 50 mm, incl. sealing, for flexible connection to downstream and/or upstream equipment
- Flexible connection sleeves
- Anti-wear cone for coarse-grained and fibrous bulk materials
- Alternative sealing materials (applicable sealing materials upon request)
- Explosion-proof design
- Valve design with hand wheel for manual operation
- Valve design with single-acting pneumatic drive, spring-loaded (safety position "Closed")

Flow Rates

Max. theoretical flow rate*	
Diameter mm	Flow rate approx. dm ³ /s
65	1.5
80	3.0
100	5.0
150	15.0
200	30.0
250	50.0
300	80.0
350	120.0
400	160.0

* All data are theoretical values referring to free-flowing bulk ingredients. Depending on the flow characteristics and granulometry of the respective ingredient, the actual maximum flow rate may be up to 80 % less!

Operating Temperature

- Maximum bulk ingredient temperature +120°C

Pneumatic Drive

- Double-acting pneumatic drive
- 5/2 way solenoid valve and operating magnet with recovery diode
- Operating pressure: 6 - 8 bar
- Supply voltage: 24 VDC or 230 VAC

Mounting

- Standard version:
- Slide valve holes drilled as per DIN 2501, PN 10
 - Intermediate mounting between connection flanges on site

Application Examples

- Automatic refill valve for Brabender loss-in-weight feeders
- Automatic refill valve for volumetric feeders with filling level sensor
- Automatic refill valve for intermediate storage hoppers with filling level sensor
- Outlet valve for Brabender Bin Activator BAV



TECHNOLOGIE
An ISO 9001/EN 29001 Certified Company

*Modifications reserved. All data describe our products in a general manner. They are no agreement on or warranty of characteristics in the sense of § 434 or guarantee in the sense of § 443 of the German Civil Code or similar regulations and effect no liability.

Issue 5.0 (May 09)
Supersedes 6.0 (June 08)