

KNIFE GATE VALVE – VGU03 (Rev. 02/2021)

Quality

- ISO 9001 Certificated Company
- CRC Petrobras Certification and Qualification of Company and Products

Main Features

- Function: On/off
- Construction: MSS-SP 81
- Type: Wafer and LUG
- Size: 3" (80mm) to 48" (1200mm)
- Flow: Bidirectional
- 100% Tightness
- High performance with full and coated passage

General Application

- Pasta, concentrated pulp > 5%, pastes, carps, pasta with solids and similar

Maximum Pressure (Temperature between 0°C to 70°C)

D N	In.	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
	mm	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
CWP(bar)	10	10	10	10	6	6	6	6	4	4	4	4	4	4	2	2	2

Maximum Temperature

EPDM (°C)	METAL (°C)	PTFE (°C)	VITON (°C)
-10 to 110	High Temperature	-20 to 180	-30 to 200

Internal Inspection and Testing (FKB Factory)

- **Hidrostatic:** ISO 5208 GR 3
- **Performance:** FKB Standard (a complete cycle)
- **Painting:** FKB Standard and NBR 14847
- **Visual:** FKB Standard and NBR 15185 / MSS-SP-25 / MSS-SP-35
- **Dimensional:** according to MSS-SP 81

Flange / Connection

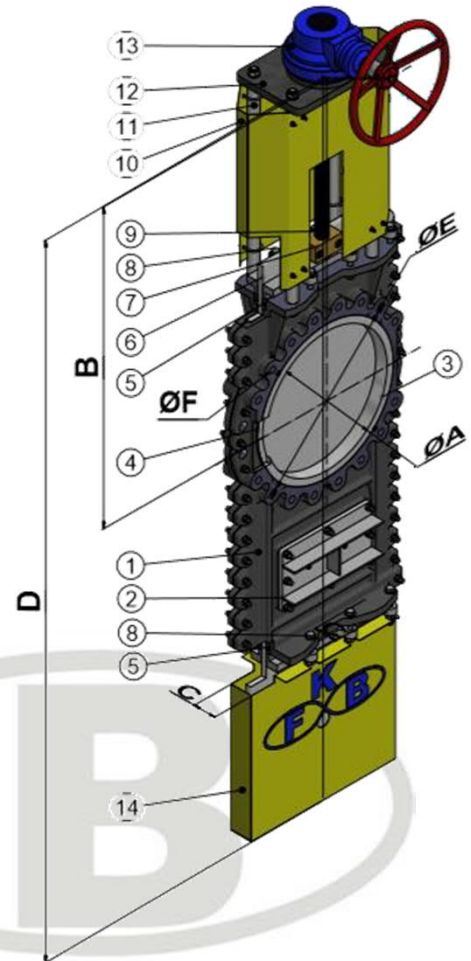
- ANSI B16.5 – 150lbs
- DIN PN10 / NBR 7675 PN10
- Others on request

Types of Drives

- Manual Steering Wheel
- Gear Box
- Pneumatic Actuator
- Hydraulic Actuator
- Electric Actuator

Optional Accessories

- Solenoid Valve
- Limit Switch
- Lubrifil Kit
- Others



Material Table

Pos.	Description	Material
1	Body	ASTM A216 WCB / ASTM A 351 CF8 / ASTM A 351 CF8M
2	Retention Box and Cleaning Lids	ASTM A216 WCB / ASTM A 351 CF8 / ASTM A 351 CF8M
3	Coating Ring	ASTM A216 WCB / ASTM A 351 CF8 / ASTM A 351 CF8M
4	Passage Sealing	PTFE + Metal-Metal / Viton + Metal-Metal / Metal-Metal / EPDM + Metal-Metal
5	Upper and Lower Sealing	Synthetic Fiber with PTFE
6	Gate	AISI 304 / AISI 316
7	Fork / Stem Nut	Stainless / Brass
8	Packing Preme Screws	Carbon Steel or Stainless Steel
9	Stem	AISI 410
10	External Stem Protection	Carbon Steel Sheet
11	Support / Column	SAE 1020
12	Table	ASTM A36
13	Drive	Manual or Automatic
14	External Knife Protection	Carbon Steel Sheet

(*) other options on request

Dimensions Table

						DIN PN 10		ANSI B16.5 150 lbs	
		A	B (*)	C	D (*)	ØF	ØE	ØF	ØE
In.	mm	mm	mm	mm	mm	Nº - M-1	mm	Nº - M-1	Inches
3"	80	455	50,80	685	08 - M16	160	04 - ½" UNC	6"	
4"	100	550	50,80	825	08 - M16	180	08 - ¾" UNC	7. ½"	
6"	150	705	57,15	1.060	08 - M20	240	08 - ¾" UNC	9. ½"	
8"	200	875	69,85	1.315	08 - M20	295	08 - ¾" UNC	11. ¾"	
10"	250	1.055	69,85	1.585	12 - M20	350	12 - ¾" UNC	14. ¼"	
12"	300	1.235	76,20	1.855	12 - M20	400	12 - ¾" UNC	17"	
14"	350	1.405	76,20	2.110	16 - M20	460	12 - 1" UNC	18. ¾"	
16"	400	1.585	88,90	2.380	16 - M24	515	16 - 1" UNC	21. ¾"	
18"	450	1.715	88,90	2.575	20 - M24	565	16 - 1.½" UNC	22. ¾"	
20"	500	1.890	114,30	2.835	20 - M24	620	20 - 1.½" UNC	25"	
24"	600	2.215	114,30	3.325	20 - M27	725	20 - 1.¾" UNC	29. ½"	

Notes:

- (*) Measure "B" under consultation for other types of drives;
- Measures subject to change without notice.

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