

## KNIFE GATE VALVE – VGU11 (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: Flanged and Total LUG
- Size: 3" (80mm) to 36" (900mm)
- Flow: Bidirectional
- 100% Tightness
- Interchangeable seats
- Self lubricating system
- Protection screen (NR12)
- High performance with full and coated passage

### General Application

- Abrasive processes / liquids, ore pulp, solids in general and similar;

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

DN	In.	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	30"	36"
	mm	80	100	150	200	250	300	350	400	450	500	600	650	750	900
CW (bar)	7	7	7	7	7	7	7	7	7	7	7	5	5	5	
P															

### Maximum temperature

EPDM (°C)	VITON (°C)	NATURAL RUBBER (°C)
110	200	72

### 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
- **Dimensional:** according to MSS-SP 81 and FKB Standard

### Flange / Connection

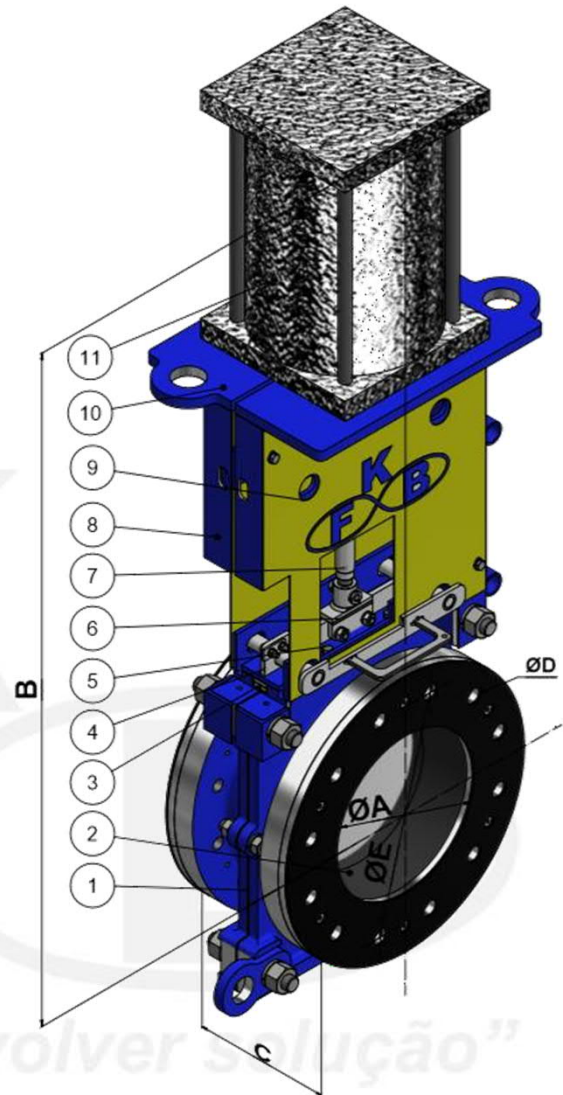
- ANSI B16.5 – 150lbs and 300lbs
- DIN PN10 / NBR 7675 PN10 / PN16 and PN25
- Others on request

### 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	Bipartite Body	ASTM A536
2	Sleeves	Natural Rubber / EPDM / Viton / Clorobutyl
3	Superior Sealing	Synthetic Fiber with PTFE
4	Gate	AISI 316
5	Packing Preme Screws	Carbon Steel
6	Fork / Stem Nut	Stainless / Brass
7	Stem	AISI 410
8	Support / Column	ASTM A36
9	External Stem Protection	Carbon Steel Sheet
10	Table	ASTM A36
11	Drive	Manual or Automatic

(\*) other options on request

### Dimensions Table

A		B (*)	C	DIN PN 10		ANSI B16.5 150 lbs	
In.	mm	mm	mm	ØD	ØE	ØD	ØE
				Nº - M-1	mm	Nº - M-1	Inches
3"	80	616	175	08 - M16	160	04 - ½" UNC	6"
4"	100	686	175	08 - M16	180	08 - ½" UNC	7. ½"
6"	150	839	178	08 - M20	240	08 - ¾" UNC	9. ½"
8"	200	972	184	08 - M20	295	08 - ¾" UNC	11. ¾"
10"	250	1.101	225	12 - M20	350	12 - 7/8" UNC	14. ¼"
12"	300	1.228	257	12 - M20	400	12 - 7/8" UNC	17"
14"	350	1.449	257	16 - M20	460	12 - 1" UNC	18. ¾"
16"	400	1.620	279	16 - M24	515	16 - 1" UNC	21. ¼"
18"	450	1.809	311	20 - M24	565	16 - 1.½" UNC	22. ¾"
20"	500	1.958	359	20 - M24	620	20 - 1.½" UNC	25"
24"	600	2.505	371	20 - M27	725	20 - 1.¼" UNC	29. ½"

Notes:

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

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