



VTZ VALVES & AUTOMATION

(An ISO 9001:2015 Certified Company)

Manufacturer of all kinds of Industrial Valves

KNIFE EDGE GATE VALVES



APPLICATIONS:

VTZ Valves & Automation Knife Edge Gate Valves are designed for isolation, On-off and Throttling services in Paper and Pulp Industries, Power Plants, Steel Plants, Cement Plants, Sugar Industries, Chemical and Textile Processing Industries, Mining, Water and Sewage Plants to handle Slurries, Slag, Plug, and Fibrous Materials, Fly ash, Powders, Clean or Corrosive gases.

SALIENT FEATURES:

BODY :	Cast corrosion resistant steels or cast Iron body to provide resistivity against corrosion for all wetted parts.
PORT DESIGN :	Full round port design allows high flow capacity and minimum pressure drop.
END STYLE :	Wafer-Design - Flangeless, Full Lug or Two Lug Design of sleek construction for low headroom mountings.
DRILLING :	Options include ANSI, DIN and BS Standards.
GATE :	Stainless Steel and Special alloys. The gate is ground and buffed on both sides, to enhance packing life and ensure positive shut off, due to bevelled edge to cut through solid particles settled at the bottom.
STEM :	Stainless Steel or as desired, having double start thread rising spindle, for fast closing and opening. Threaded protection cap to prevent ingress of foreign material(optional).
GATE GUIDE AND JAM :	Gate guide provides support for moving gate. Gate jams provided at the bottom pushes the gate and holds it against the back seat ring to ensure positive shut off across the port.
GLAND PACKING :	Multilayer gland packing in a variety of materials to suit condition.
SEAT :	Metal seated for Leak Class IV across the port. Resilient seated for Leak Class IV. The resilient seat, in various elastomers is bonded with a stainless steel seat

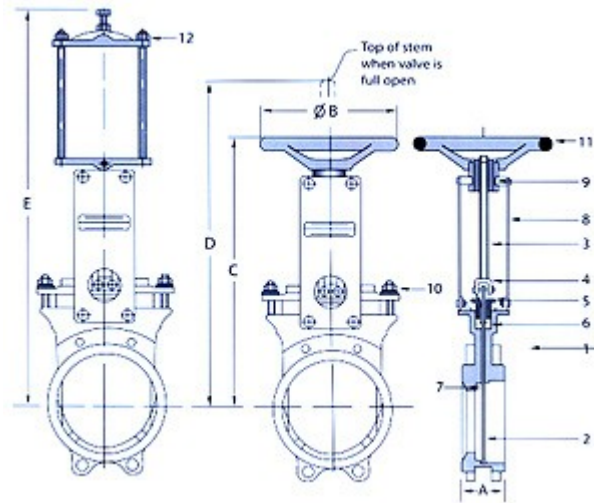
ring.
 Deflection Cone or Baffle provided in the front end of the top housing to ensure
 OPTIONAL flow of materials towards the centre. This helps in avoiding possible entrapment
 ACCESSORIES : of granular material between the seal and front end of gate during closing
 operation.
 CHOICE OFHand wheel, Chain wheel, Bevel Gear, Pneumatic Cylinder or Electric Motor
 ACTUATORS : Actuators.

Maximum Working Pressure

Valve Working Pressure

50 mm - 300 mm - 150 psi
 400 mm - 450 mm - 75 psi
 500 mm - 600 mm - 50 psi

Working pressure will be 40 psi when supplied with ASBESTOS packing for valve up to 600 mm size.



Body Test Pressure(before assembly)

Valve Body:	St.Steel	Cast Iron
50 mm- 35 mm:	221 psi	150 psi
400 mm - 600 mm:	100 psi	100 psi
Above 600 mm:	50 psi	50 psi

Body test pressure will be 40 psi for Hopper isolation valves.

Manufacturing and Testing Standard : MSS - SP - 81

Valve Size (mm)	Dimensions in mm				
	A	B	C	D	E
50	48	203	270	300	555
80	51	203	375	425	715
100	51	203	417	491	760
125	57	254	470	561	860
150	57	254	507	625	925
200	70	305	607	775	1097
250	70	406	707	905	1270
300	76	406	796	1045	1450

Part	Material Specification
1 Body	ASTM A351 GR CF8 / CF8M / CF3 / CF3M / CN7N ASTM A216 GR WCV / IS 210 - FG 260
2 Gate	ASTM A479 TY304 / 316 / 304L / 316L / A - 20
3 Stem / Piston Rod	ASTM A479 TY304 / 316 / 304L / 316L / A - 20
4 Gate Adapter	ASTM A479 TY 304 / 316 / 304L / 316L / A - 20
5 Gland	SG IRON
6 Gland Packing	PTFE IMPREGNATED ASBESTOS / APT
7 Seat	Metal INTEGRAL WITH BODY MATERIAL
	Resilent VITON RS-48



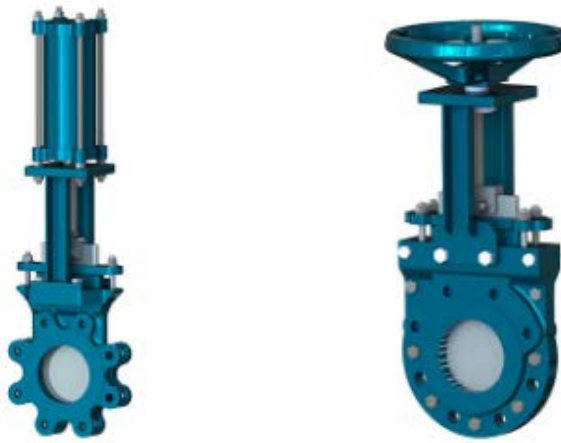
VTZ VALVES & AUTOMATION

(An ISO 9001:2015 Certified Company)
Manufacturer of all kinds of Industrial Valves

350	76	508	890	1220	1665
400	89	508	900	1275	1735
450	89	508	1020	1450	1880
500	114	508	1150	1630	2145
600	114	508	1330	1915	2420

8 Yoke	CARBON STEEL
9 Yoke Sleeve	PHOSPHOR BRONZE
10 Bolts / Nuts	ASTM A193 GR B7 / A 1924 GR 2H
11 Hand Wheel	MALLEABLE IRON
12 Pneumatic Cylinder	ALUMINIUM

Bi- Directional Knife Gate Valves



When situations require flow or pressure from either direction to be handled by valves, VTZ Valves & Automation series BD - 71 are uniquely designed gate valves for such applications

SALIENTFEATURES Unlike our Uni-directional Series UD-70, the Bi-Directional series BD - 71 features a two piece bolt on body construction that allows replacement of peripheral seal when required. Seal replacement can be done even without full disassembly of the valve body halves by slightly loosening body bolting. Unlike our uni-directional series UD-70, which use a face sealing on the raised seat, as the series BD-71 has no raised seat and is a full port design offering unrestricted flow in either directions. This design uses an elastomer seal around the periphery of the gate to effect fluid sealing. As this is a symmetrical peripheral seal, the sealing remains identical from either directions of the valve and the special elastomer to metal peripheral sealing of gate ensures Bi-directional leakage prevention across the gate.



VTZ VALVES & AUTOMATION

(An ISO 9001:2015 Certified Company)

Manufacturer of all kinds of Industrial Valves

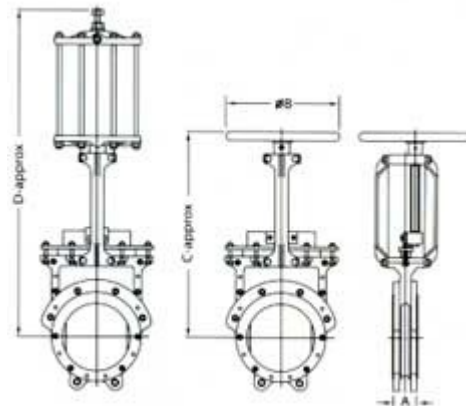
Full closure achieved due to gate having bevelled knife edge at bottom to cut through solid particles settled at the bottom of the body. Glandless valves provided with unique cross sealing mechanism at the rear end for leakage prevention. This uniquely cross sealing arrangement facilitates re - packing in installed condition to eliminate leakage from across the seal.

OPTIONS

Deflection Cone or Baffle provided in the front end of the top housing to ensure flow of material towards the centre. This facilitates in avoiding possible entrapment of granular material between the seal and the front end of the gate during closing. Valves available with or without rear encapsulation box to prevent leakage of material to the environment. Wide variety of material options to suit the application. Rising Stem in the case of encapsulated design and non Rising stem in the case of non encapsulated design which is best suited for tight spaces and safety requirements.

- Size Range** - 40 mm - 300 mm
- Leakage Test** - Conforming to MSS - SP - 81
- Leakage Rate** - No Visible leakage during testing.
- Rating** - 5 Bar for valves in cast iron body
10 bar for valves in Steel / Stainless Steel body
Maximum service temperature of 80° C with polyurethane seal.
- Painting** - Except for Stainless steel components, all exteriors will be painted with blue Epoxy Paint.

Size (mm)	A	B	C	D
50	48	203	341	443
65	51	203	378	470
80	51	203	412	540
100	51	203	457	609
125	57	254	519	705
150	57	254	571	793
200	70	305	673	967
250	70	406	772	1147
300	70	406	867	1320

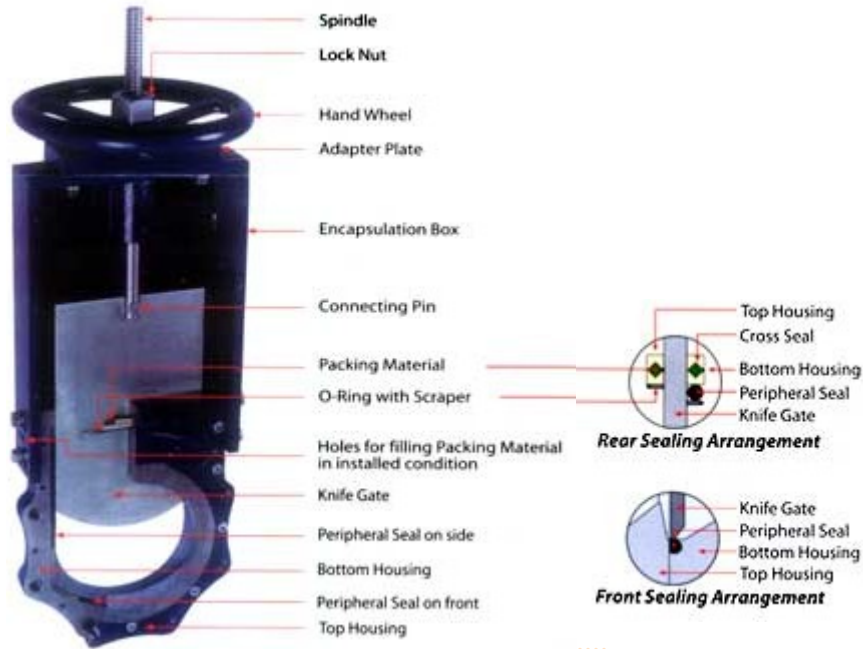




VTZ VALVES & AUTOMATION

(An ISO 9001:2015 Certified Company)

Manufacturer of all kinds of Industrial Valves



AUTHORISED DEALER: RAJ INDUSTRIAL STORES

**Address: #24-3-10, Shop No. 7, Phase II, Dr. Deen Shaadikhana Complex,
Old Post Office Junction, One Town, Visakhapatnam-530001.**

Email Id: rajvizag@hotmail.com (or) sales.rajindustrial@hotmail.com

Ph: +91-9000271257, +91-9440087136.