

GENERAL SPECIFICATIONS

MODEL: MONO

JASH Schütte

MONO model knife gate valves are manufactured under technical collaboration with WECO Armaturen GmbH, Germany. These are bonneted glandless valves and offer very low operating torque as compared to conventional knife gate valves and can be used for shut-off applications of clear liquid and liquid solid mixes. These valves can be installed in horizontal / inclined position including in upside down position and have area of opening up to 90% of the nominal valve size.

SALIENT FEATURES OF KNIFE GATE VALVE, MODEL: MONO-

- Full lug type design up to DN 600 (24") and full flange type design above DN 600 (24").
- Valve mounting drilling to suit ASME B16.5 / ASME B16.47 #150 / BS-EN 1092 PN 10 / PN 16 standards.
- Pressure rating PN6 (90 PSI) and PN10 (150 PSI) can be offered depending upon materials of construction of the valve housing.
- Gate having beveled knife-edge at its front to cut through the solid particles settled at bottom of the body so as to achieve full closure.
- Sealing achieved by means of tapered wedges pushing the gate on to the seat for full contact between gate and the seat.
- Floating gate design ensures that the gate does not slide tightly on the seal during opening & closing thereby increasing seal life and reducing operational torque.
- Valves suitable to withstand full pressure from preferred direction and partial pressure from non-preferred direction of flow. Refer table below.
- Resilient seat retained with replaceable retainer ring is offered as standard. Metal seated valve can be provided on request.
- Resilient seated valve to offer zero leakage at applicable pressure.
- Metal seated valves to offer leakage within permissible limits as per AWWA C520-14 / MSS SP-81 standards.
- Patented glandless sealing system at top of bonnet offering zero leakage even for high frequency operation. This design ensures very low operating torque thereby ensuring manual operation, even for large sized valves and allowing use of smaller size mechanized actuation system.
- Rising stem with single / double start thread offered as per requirement. Non-rising stem offered as optional.
- Valves offered with varied operating options such as Hand Wheel / Hand Lever / Bevel Gear / Pneumatic Cylinder / Electric Actuator / Hydraulic Cylinder.
- Depending upon the size of the valve, purging and drain ports can be provided.
- General compliance to requirements of AWWA C-520-14.
- Varied material of construction options for all valve components as stated on page No 17.
- **Painting:** Epoxy paint with total dry film thickness of minimum 100 microns offered as standard. Higher film thickness of 250 microns and fusion bonded epoxy paint can be offered as optional.
- **Testing:** In accordance with AWWA C-520-14 and MSS SP-81 standards.

■ TESTING STANDARD FOR KNIFE GATE VALVE ■ MODEL: MONO ■ SERIES: C-102, C-112

SIZE (DN)		BODY TEST		SEAT TEST							
				HIGH PRESSURE TEST (PREFERRED DIRECTION OF FLOW)		LOW PRESSURE TEST (PREFERRED DIRECTION OF FLOW)		HIGH PRESSURE TEST (NON-PREFERRED DIRECTION OF FLOW)		LOW PRESSURE TEST (NON-PREFERRED DIRECTION OF FLOW)	
METRIC	INCH	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI
80	3"	15	225	10	150	0.34	5	10	150	0.34	5
100	4"	15	225	10	150	0.34	5	10	150	0.34	5
150	6"	15	225	10	150	0.34	5	8	115	0.34	5
200	8"	15	225	10	150	0.34	5	6	90	0.34	5
250	10"	15	225	10	150	0.34	5	4	60	0.34	5
300	12"	15	225	10	150	0.34	5	3	45	0.34	5
350	14"	15	225	10	150	0.34	5	2	30	0.34	5
400	16"	15	225	10	150	0.34	5	2	30	0.34	5
450	18"	15	225	10	150	0.34	5	2	30	0.34	5
500	20"	15	225	10	150	0.34	5	1.5	20	0.34	5
600	24"	15	225	10	150	0.34	5	1.5	20	0.34	5