



TA-Luft

Mono Series Bonneted Knife Gate Valves



PMP PRECISION VALVE CO. LTD.



MONO Series Knife Gate Valves

The Mono knife gate valve, designed by Weco Armaturen Germany*, has a unique one piece bonneted body to reduce operating torque and eliminate potential leakage of odors to atmosphere.

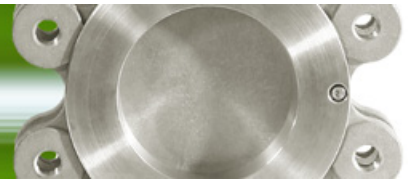
Manufactured by Jash Engineering the Mono series knife gate valve meets TAPPI - MSS- SP81, TIS-405-8 standards and compliant with new AWWA-C 520-10 requirements.

The Mono series offers outstanding features as compared to conventional knife gate valves, at competitive pricing to standard bolted bonnet designs.

Available in ANSI B16.5 class 150 lb. full lugged or semi lugged, body designs.
Materials include ASTM stainless & alloy steels or ductile iron, NSF-61 epoxy coated.

* Patent in USA, Canada, Europe, Asia
by Weco Armaturen, MBH, 12/39960





MONO Series Knife Gate Valves

Features and Benefits

One piece cast body eliminates potential leak paths, valves can be installed in any position.

Bonnet style body **eliminates leakage** through the stem area at full design pressures and limits exposing the gate to atmosphere, **odors are contained**.

Unique “O” ring stem seal assembly, eliminates the need for a stuffing box, **reduces operating torque** and maintenance requirements with higher cycle life. In addition, it is compliant with TA-Luft emission standards.

Precision water jet cut beveled gate edge, easily cuts through debris or build up.

Full port design offers high flow rates for reduced pumping costs.

Variety of seat materials offers flexibility for specific applications: **Metal, Buna-N, EPDM, Viton, PTFE, PEEK**

*Retained seat will not pull out under full design pressure.

Corrosion resistant stainless steel stem with large pitch thread offers quick opening and closing of the valve.

Rising and non-rising stems are available

Purge ports offer flexibility to purge body chest cavity, or to monitor pressure.

V-Port inserts are available for control applications with either electric or pneumatic actuation.

Optional accessories: AWWA manual bevel gear operators, shaft extensions, floor stands, wall brackets, deflector cones for slurry and abrasive applications, actuation for on-off or modulating services, solenoid valves, limit switches, speed controls, actuators and chain wheel operators.



*With some design accommodations. Consult the manufacturer.



MONO Series Knife Gate Valves

Now available in Ductile Iron

The Mono Series Knife Gate Valves are now available in a more economical Ductile Iron Body. It has all the benefits of the Stainless Steel body, but is more economical for non-corrosive environments. Meets all the requirements of AWWA-MSS-SP81 and AWWA-C520-10. It has a compact body with fusion bonded NSF-61 epoxy coating. It is light weight, full port and is very easy to operate due to it's very low torque handle. The O-ring stem sealing is compliant with TA-Luft emission standards.



MONO Series Knife Gate Valves



Meets
TA-LUFT
Emission
Standards

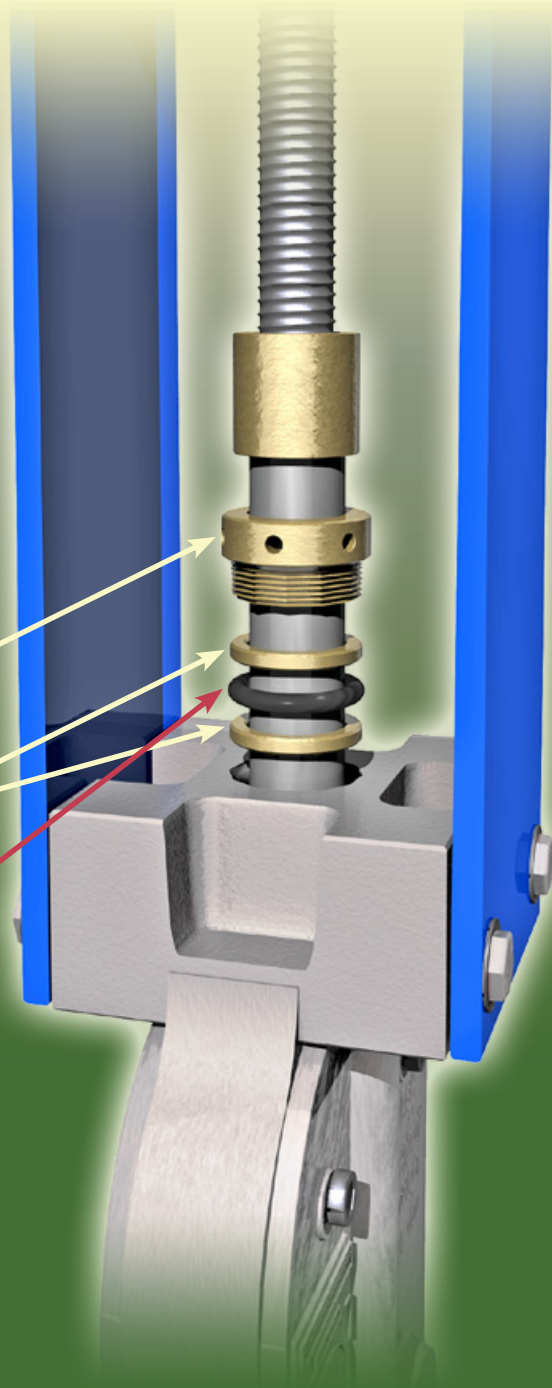
Unique stem seal assembly uses a
thrust nut retainer (#08)

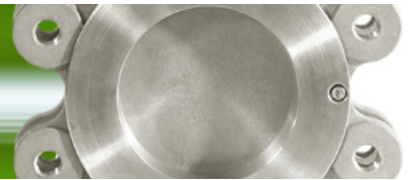
with two scraper ring thrust washers
(#07&07A)

compressing a standard "O" ring (#06)
meets NSF 61 standards

eliminating historical leaking of the
packing gland.

Above parts are also available in stainless steel

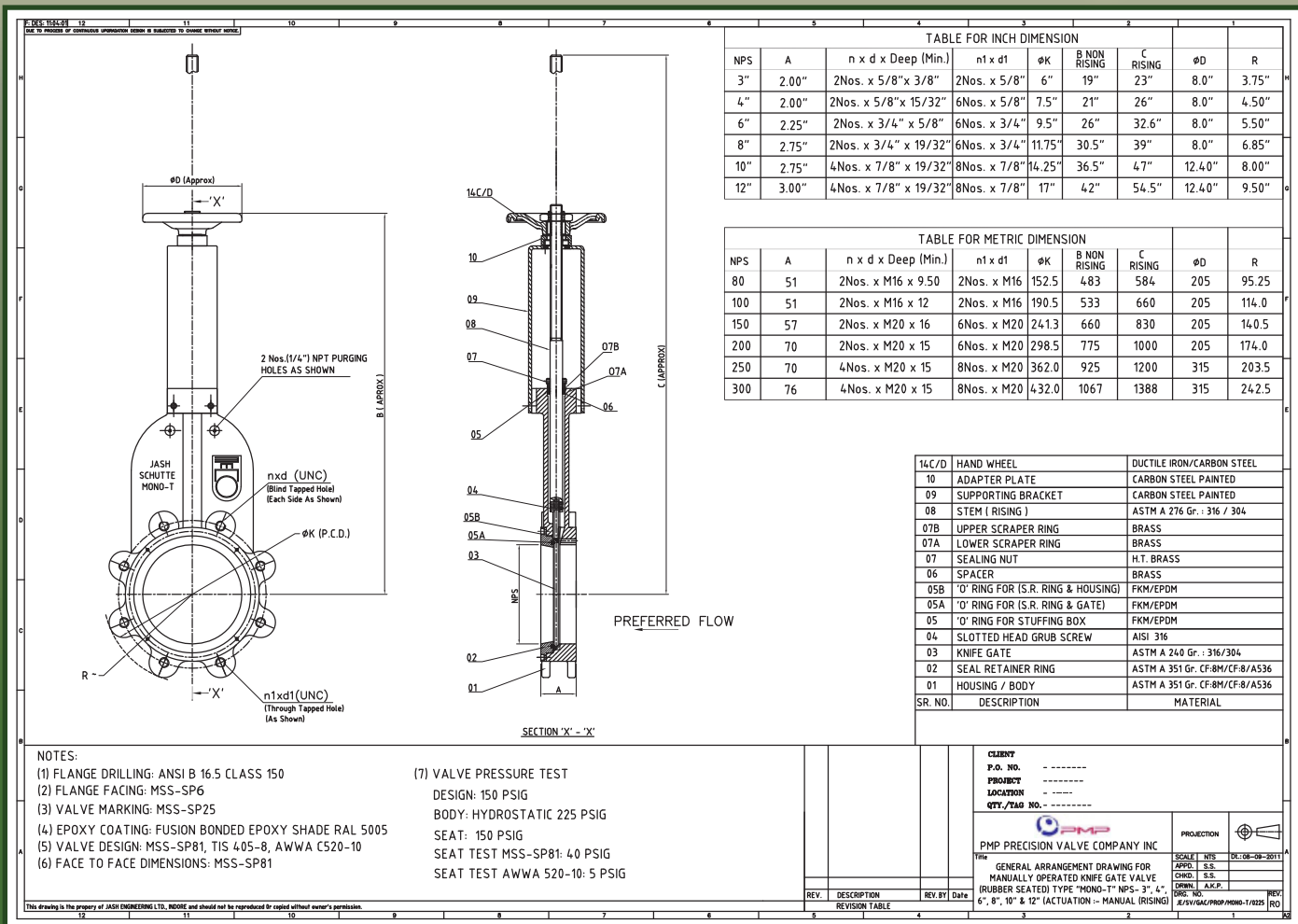




MONO Series Knife Gate Valves

Design Standards

DESIGN	: MSS SP-81:2006 , AWWA C520-10
STANDARD	: TAPPI TIS 405-8 . EN 982 : 1995
PRESSURE TEST	: MSS SP - 81, MSS SP - 61, ANSI B16.34
EMISSION STANDARD	: TA-LUFT VDI 2440
MARKINGS	: MSS SP-25
FLANGE DRILLING	: ANSI B16.5 Class 150 RF
FLANGE FACING	: ANSI B16.5
VALVE MARKING	: MSS-SP25





MONO Series Knife Gate Valves

Design & Maximum Working Pressures

Design Pressure: psig, CWP	VALVE SIZE		
	3" - 12"	14" - 18"	20" - 24"
Body & Bonnet	225	175	135
Packing	225	175	135
Seat (preferred direction)	150	120	90

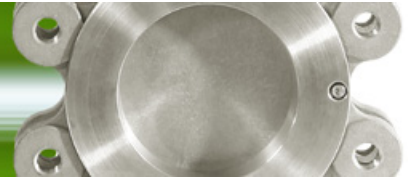
Working Pressure: psig, CWP	VALVE SIZE		
	3" - 12"	14" - 18"	20" - 24"
Body & Bonnet	150	135	90
Packing	150	135	90
Seat (preferred direction)	150	80	60

Maximum admissible working pressure on seat in non preferred direction:
In this case the pressure in the line is pushing the gate away from seat.

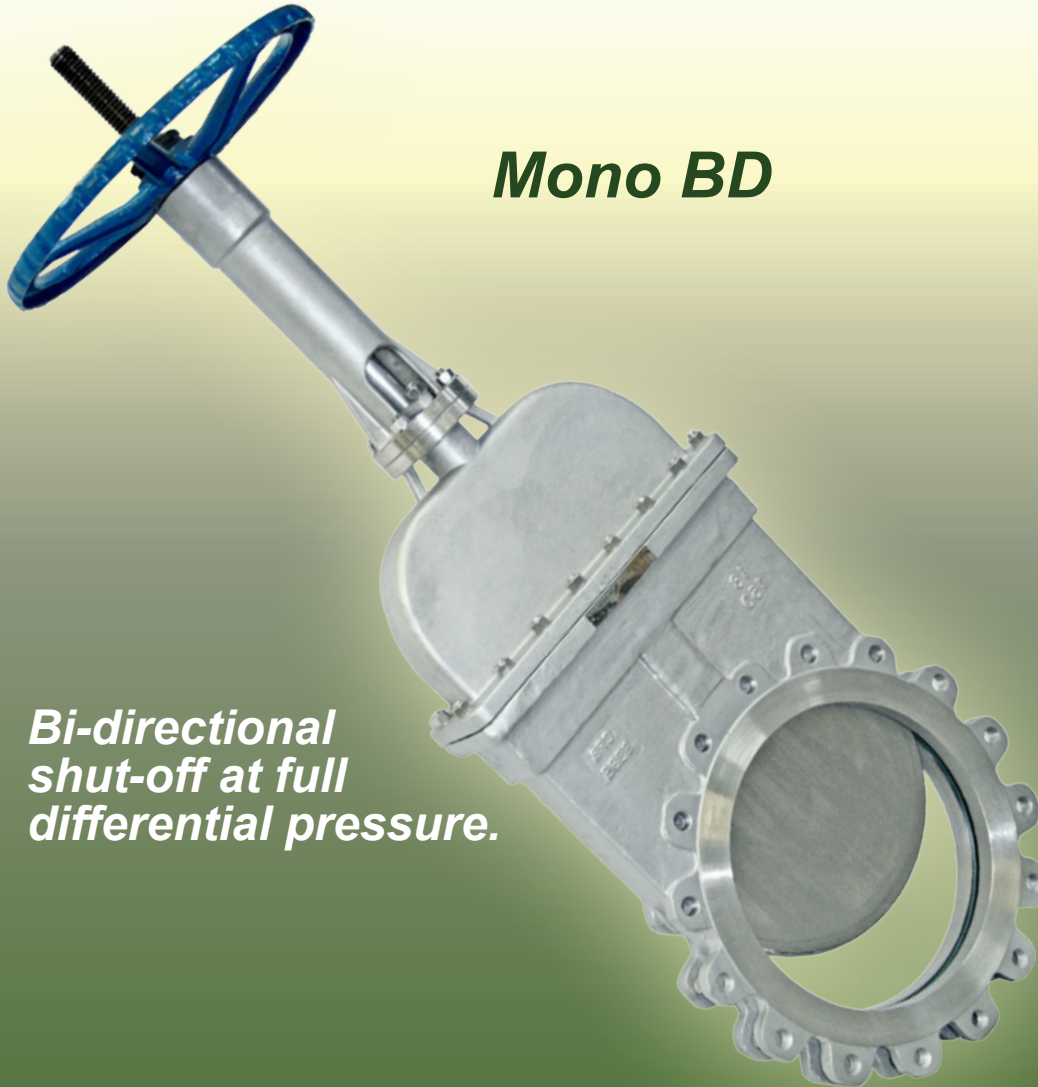
VALVE SIZE	ADMISSIBLE WORKING PRESSURE PSI / BAR
3" - 4" / 50-100 mm	150 / 10
5" - 6" / 125-150 mm	120 / 8
8" / 200 mm	90 / 6
10" / 250 mm	60 / 4
12" / 300 mm	45 / 3
14" - 18" / 350 - 450 mm	30 / 2
20" - 24" / 500 - 600 mm	22.5 / 1.5

Note: Pressures stated above are cold working pressure (CWP)

** For bi-directional full working pressure at 150 psi, see model MONO-BD*



MONO Series Knife Gate Valves



Mono BD

***Bi-directional
shut-off at full
differential pressure.***

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