



Mono-T Bonneted KNIFE GATE Valve

Bi-directional 3" - 24" AWWA C520, MSS-SP81



Mono-T Bonneted Knife Gate Valve AWWA C520 TAPPI MSS-SP81

PMP-Weco bonneted Mono series are designed in compliance with the new AWWA C520 standard for knife gate valves. The Weco Armaturen design offers a unique O-ring stem seal design eliminating emissions and foul odours to the atmosphere.

Meeting the German standard TA-Luft VDI 2440 for stem sealing to atmosphere, the PMP-Weco series of bonneted knife gate valves offers low operating toques, and low maintenance even after thousands of operating cycles.

PMP-Weco Knife Gate Valves are manufactured to TAPPI MSS SP 81, TIS-405-8 & AWWA C520 standards. Flange dimensions conform to ANSI B16.5 class 150, 3" to 24", face to face dimensions conform to TAPPI MSS SP 81 standard.

Mono-T series are manufactured as one piece with integral bonnet design to 6" size. Valve sizes 8" to 24" have a bolted bonnet.

Resilient O-rings and seat materials are NSF 61 certified.

Rising and non-rising stem designs are available.

Due to low operating torques, manual hand wheel operators are supplied as standard on valves to 24" sizes. Optional manual gear, AWWA square nut, pneumatic, hydraulic & electric operators with accessories are available.





Mono-T Bonneted Knife Gate Valve Features and Benefits

- 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 the atmosphere, foul odours 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 leakage standards.
- Precision water jet cut beveled 360° 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.
- 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.

Unique Stainless Steel stem seal assembly uses a thrust nut retainer with two Stainless Steel scraper

compressing a standard "O" ring meets NSF 61 standards

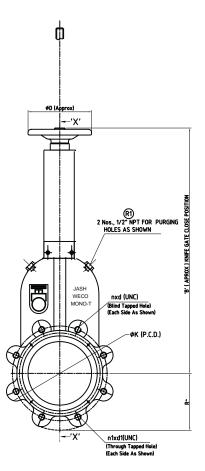
eliminating historical leaking of the packing gland





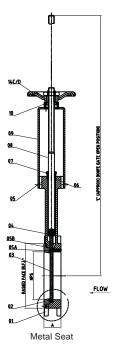
Mono-T Bonneted Knife Gate Valve Manual Operated | Rising Stem 3" - 6"

Metal Seated



Flange Standard ANSI B16.5 Class 150 Valve Design: B16.34, AWWA C520-14, MSS-SP81 CRN CSA-OC 15663.567890

NPS									
Inches	А	n x d x Deep (Min.)	n1 x d1	K	В	С	D	R	R.F
3	2.00	2Nos. x 5/8" x 0.38"	2Nos. x 5/8"	6.00	19.00	23.00	8.00	3.75	5.00
4	2.00	2Nos. x 5/8" x 0.5"	6Nos. x 5/8"	7.50	21.00	26.00	8.00	4.50	6.20
6	2.25	2Nos. x 3/4" x 0.6"	6Nos. x 3/4"	9.50	26.00	32.50	8.00	5.50	8.45



SR.No.	Description	Material	
01	Body	ASTM A 351 Gr CF:8M/CF8	
02	Seal Retainer Ring	ASTM A 351 Gr CF:8M/CF8	
03	Knife Gate	ASTM A 240 Gr.: 304/316	
04	Slotted Head Grub Screw	Stainless Steel Gr. 316/304	
05	'O' Ring for Stuffing Box	EPDM / Viton (NSF Certified)	
05A	'O' Ring for (S.R. Ring & Gate)	EPDM / Viton (NSF Certified)	
05B	'O' Ring for (S.R. Ring & Housing)	EPDM / Viton (NSF Certified)	
06	Spacer (Lower & Upper)	Stainless Steel Gr. 304	
07	Sealing Nut	ASTM A 276 Gr.: 304	
08	Stem (Rising)	ASTM A 276 Gr.: 304/316	
09	Supporting Bracket	Carbon Steel Painted / Stainless Steel	
10	Adapter Plate	Carbon Steel Painted / Stainless Steel	
14C/D	Hand Wheel	Ductile Iron / Carbon Steel	



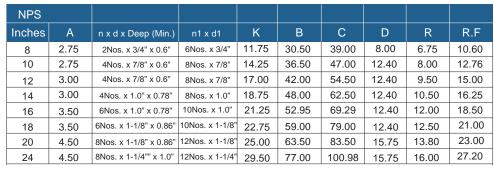


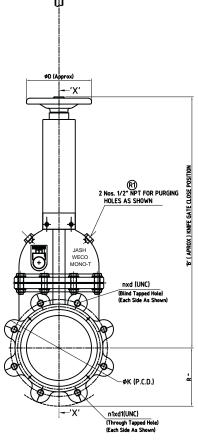


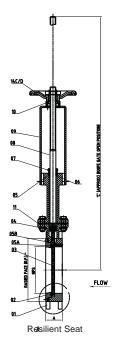
Mono-T Bonneted Knife Gate Valve Manual Operated | Rising Stem 8" - 24"

Resilient Seated









SR.No.	Description	Material	
01	Body (Split Type)	ASTM A 351 Gr CF:8M/CF8	
02	Seal Retainer Ring	ASTM A 351 Gr CF:8M/CF8	
03	Knife Gate	LDX 2101	
04	Slotted Head Grub Screw	Stainless Steel Gr. 316/304	
05	'O' Ring for Stuffing Box	EPDM / Viton (NSF Certified)	
05A	'O' Ring for (S.R. Ring & Gate)	EPDM / Viton (NSF Certified)	
05B	'O' Ring for (S.R. Ring & Housing)	EPDM / Viton (NSF Certified)	
06	Spacer (Lower & Upper)	Stainless Steel Gr. 304	
07	Sealing Nut	ASTM A 276 Gr.: 304	
80	Stem (Rising)	ASTM A 276 Gr.: 304/316	
09	Supporting Bracket	Carbon Steel Painted / Stainless Steel	
10	Adapter Plate	Carbon Steel Painted / Stainless Steel	
11	Gasket for Bonnet	EPDM (NSF Certified)	
14C/D	Hand Wheel	Ductile Iron / Carbon Steel	



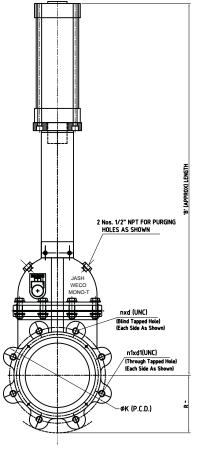


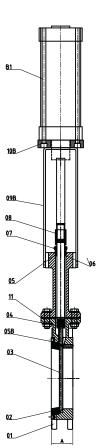


Mono-T Bonneted Knife Gate Valve Pneumatic Operated

2" - 24"

Flange Standard ANSI B16.5 Class 150 Valve Design: B16.34, AWWA C520-14, MSS-SP81 CRN CSA-OC 15663.567890





NPS				Tap Size	B.C.		Actuator
Inches	А	Bolt Hole	No.	UNC	K	В	O*
2	1.88	0.75	4	5/8"x11	4.75	21.25	2.00
3	2.00	0.75	4	5/8"x11	6.00	24.60	2.50
4	2.00	0.75	8	5/8"x11	7.50	28.00	3.00
6	2.25	0.88	8	3/4"x10	9.50	35.65	4.00
8	2.75	0.88	8	3/4"x10	11.75	47.10	5.00
10	2.75	1.00	12	7/8"x9	14.25	54.50	5.00
12	3.00	1.00	12	7/8"x9	17.00	63.80	6.00
14	3.00	1.12	12	1"x8	18.75	72.50	8.00
16	3.50	1.12	16	1"x8	21.25	80.50	8.00
18	3.50	1.25	16	1-1/8"x7	22.75		
20	4.50	1.25	20	1-1/8"x7	25.00		
24	4.50	1.38	20	1-1/4"x7	29.50		

SR.No.	Description	Material	
B1	Pneumatic cylinder	"Schrader" / "Equi." make	
11	Gasket for bonnet	EPDM (NSF Certified)	
10B	Adapter plate	Carbon Steel painted / Stainless Steel	
09B	Supporting bracket	Carbon Steel painted / Stainless Steel	
08	Connecting rod	ASTM A 276 Gr. : 304/316	
07	Sealing nut	ASTM A 276 Gr. : 304	
06	Spacer (lower & upper)	Stainless Steel Gr.: 304	
05B	'O' Ring for (S.R. Ring & Housing)	EPDM (NSF Certified)	
05	'O' Ring for stuffing box	EPDM (NSF Certified)	
04	Slotted head grub screw	Stainless Steel Gr.: 316/304	
03	Knife gate	LDX 2101	
02	Seal retainer ring	ASTM A 351 Gr CF:8M/CF8	
01	Housing / Body (Split type)	ASTM A 351 Gr CF:8M/CF8	







Mono Knife Gate Valve **Design and Maximum Working Pressures**

SIZ	ZE	DESIGN TEST PRESSURES			
		BODY SEA		AT	
			HIGH	LOW	
INCHES	MM	PSI	PSI	PSI	
3"	80	225	150	5	
4"	100	225	150	5	
6"	150	225	150	5	
8"	200	225	150	5	
10"	250	225	150	5	
12'	300	225	150	5	
14"	350	225	150	5	
16"	400	225	150	5	
18"	450	225	150	5	
20"	500	225	150	5	
24"	600	225	150	5	

Design: AWWA C520-14, MSS SP 81

SIZ	ZE	MAXIMUM WORKING PRESSURES			
		FLOW DIRECTION			
		PREFERRED	NON PREFERRED		
INCHES	MM	PSI	PSI		
3"	80	150	150		
4"	100	150	150		
6"	150	150	120		
8"	200	150	90		
10"	250	150	60		
12'	300	150	45		
14"	350	150	30		
16"	400	150	30		
18"	450	150	30		
20"	500	150	22		
24"	600	150	22		

Design: AWWA C520-14, MSS SP 81



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