

Wey Shear Gate Valve Model SG



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The Wey Shear Gate Valve Model SG is not like any other "throughgate" valve. Other through-gate valves have large internal body cavities in which solid materials can build up to jam operation of the gate. These other designs also have a gate which is suspended by packing chambers, which leads to gate/seat misalignment and leakage.

In the Wey Shear Gate Valve there are no internal cavities to fill up and jam operation of the valve. The gate always completely fills the precision-machined gate slot in the body. The top and bottom transverse seals do not suspend the gate, thereby eliminating the typical gate misalignment found in other styles of through-gate valves. These unique transverse seals are protected by compression-

- Shear gate (hard alloy steel)
- Full port (Sch. 40)
- Flush ports
- Solid steel yoke (st. stl. optional)
- Solid cast two-piece body. Numerous material options. ANSI 150 flange bolt pattern (threaded flange bolt holes) MSS SP-81 face-to-face

loaded scraper blades which clean the gate prior to seal contact. The transverse seal design provides superior seating with less frictional force and permits re-packing while in service and under full pressure.*

When furnished with correct gate and seat materials, the Model SG will cut through a static column of large chunk materials with proven performance for hundreds of thousands of cycles. Working and shutoff pressure ratings to 150 psi C.W.P.

The Model SG, another example of high performance valve technology from Wey Valve, Inc.

ISO 9001: 2008/PED Annex III (Mod H)



See live demonstration



Features

"Shearing Action"



Shear Gate in closed position



Gate makes contact with flowing "chunk" in pipeline.



Force of closing gate "SHEARS" through chunk. Valve shuts off tight.

Bore Options



Diamond Port

V-Port

Standard Shear Gate Valve Shear Gate Valve with optional top & bottom gate enclosures

Sizes and Dimensions



O = Cylinder diameter not actual outside dimension

Note: Standard cylinders are shown. (Other sizes are available)

P = Depth of blind tapped holes in chestarea of valve

Note:

Bevel gears (3:1) are recommended for 6" - 10" valves

Bevel gears (4:1) are recommended for 12" - 20" valves

Consult factory for special applications

Valve Size Inches	Dimensions in Inches														
	А	В	С	D	Е	F	G	н	J	К	L	М	N	0	Р
2"	2	1.87	4.75	6.0	5/8"	12.75	8.90	7.78	2.75	-	-	-	22.25	4"	0.63
3"	3	2.00	6.00	7.5	5/8"	15.30	10.58	7.78	3.54	-	-	-	27.25	4"	0.63
4"	4	2.00	7.50	9.0	5/8"	16.54	12.37	7.78	3.54	-	-	-	29.00	6"	0.63
6"	6	2.25	9.50	11.0	3/4"	20.56	15.75	9.84	4.33	28.75	11.50	12	35.75	8"	0.75
8"	8	2.75	11.75	13.5	3/4"	23.59	22.33	11.81	4.84	32.75	11.50	12	38.75	10"	0.87
10"	10	2.75	14.25	16.0	7/8"	27.51	27.45	11.81	5.75	36.00	12.75	18	48.75	12"	0.87
12"	12	3.00	17.00	19.0	7/8"	31.25	32.67	15.75	5.90	41.00	14.75	18	56.00	14"	0.87
14"	14	3.00	18.75	21.0	1"	-	36.33	15.75	7.17	45.50	14.75	18	61.00	16"	0.87
16"	16	3.50	21.25	23.5	1"	-	43.00	15.75	7.87	50.50	14.75	18	69.00	18"	1.00
18"	18	3.50	22.75	25.0	1-1/8"	-	49.23	19.68	9.45	54.50	14.75	18	75.50	20"	1.00
20"	20	4.50	25.00	27.5	1-1/8"	-	59.39	19.68	9.85	58.00	23.50	24	81.00	24"	1.37

Materials, Accessories & Options

Materials Body	Gate	Seats**	Transverse Seal	Yoke Assembly	Actuators	Accessories	Options
Cast-Iron Ni-Resist 316 St. Stl. Alloys	316 St. Stl. 410 St. Stl.* 440 St. Stl.* Alloys	Reinforced TFE 410 St. Stl.* 440 St. Stl.*	Viton Buna-N EPDM AFLAS TFE (Std. packing material is TFE)	Steel with rubberized vinylester paint (2 coats) 316 St. Stl.	Handwheel Bevel Gear Pneumatic	Limit Switches Solenoid Valves Positioners Proximity Switches "Lock-Out" Feature Position Indicator	Top & Bottom Enclosures OSHA Guards Wear Rings V-Port Diamond Port Leak Detection Purge Ports

*Series 400 St. Stl. materials are heat treated for added hardness and wear resistance. (Gate and seat of same material not recommended.) 410 St. Stl. = (Rockwell C-45)

440 St. Stl. = (Rockwell C-54)

** Furnished with Viton back-up compression O-rings unless otherwise specified

Standard scraper blade material is glass-filled phenolic. Consult factory for optional materials based on application.

Your contact