

Gate Valves



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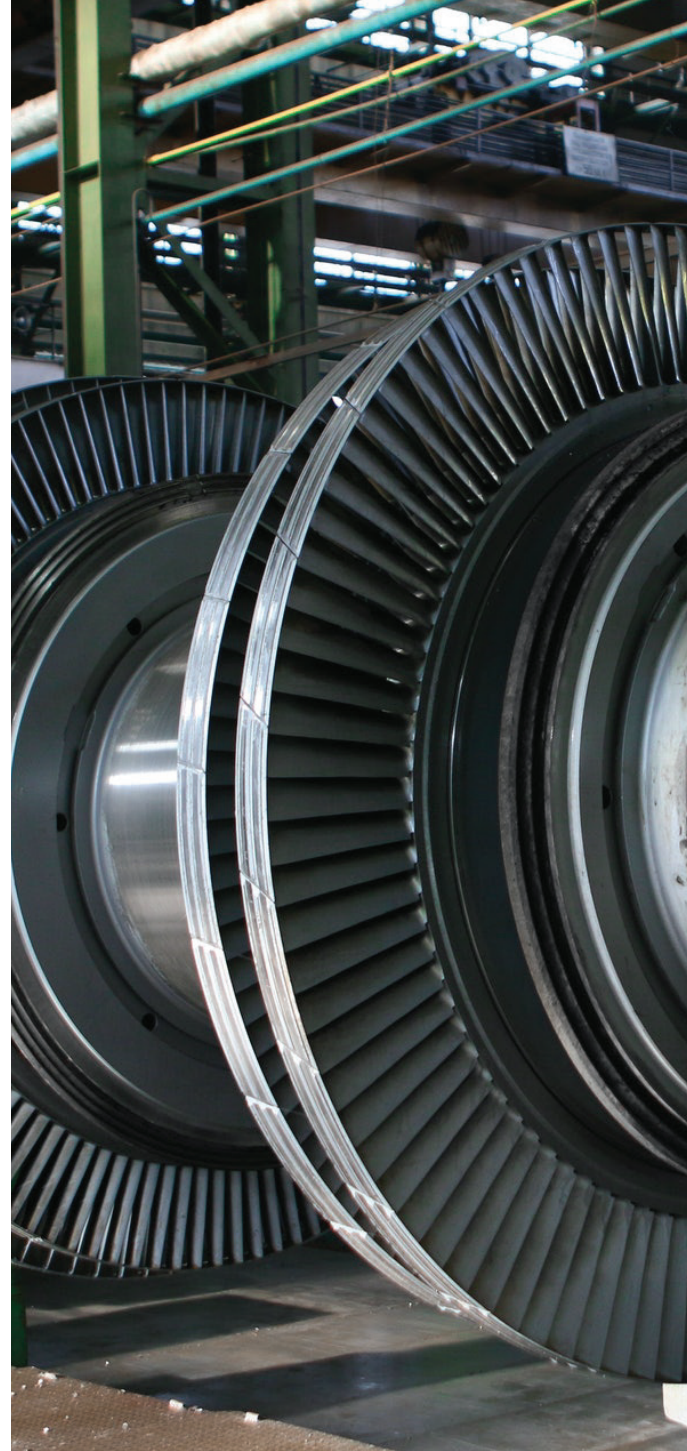
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Pressure Seal Parallel Disc Gate Valves

Design Features and Benefits

Yoke sleeve

aluminium-bronze yoke sleeve has needle type thrust bearings available to minimize operating torque.

Stem

- threaded to carrier.
- provides stability.

Pressure Seal

simple design has segmented retaining ring and mild steel silver plated gasket to aid disassembly and provide maximum bonnet seal.

Seat Ring

welded-in seat rings are perpendicular to the flow bore for easy maintenance.

Actuators

valves can be supplied with any type of electric, hydraulic or pneumatic actuator. Standard manual handwheels on valves 12" and smaller with 14" and larger bevel gear operated.

Yoke

yoke provides easy maintenance and actuator mounting.

Gland

two piece, self-aligning gland eliminating cocking.

Integral Backseat

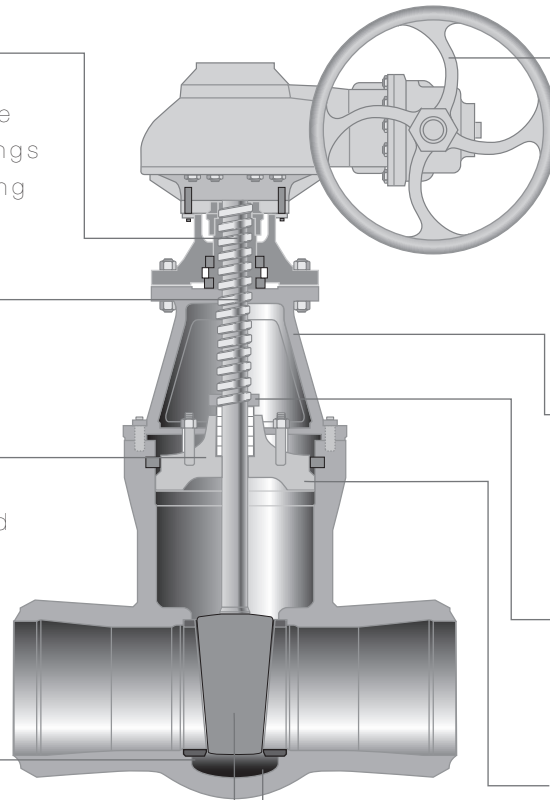
hardfaced for maximum life.

Discs

Spring loaded discs are self-aligning and reduce actuator torque requirements.

Integral Stop

Integrally cast carrier stop positions carrier disc assembly for reliable seating



Pressure Seal Parallel Disc Gate Valves

Design Features and Benefits

Integral Stop

Parallel seat gate and seat ring construction can be furnished for high differential pressure services or where high piping loads or thermal expansion may cause sticking of a wedge type gate. The parallel seat gate assembly consists of two interchangeable spring loaded discs, a fully guided disc carrier, and retaining pins.

Position seating eliminates stress and potential binding due to thermal expansion of the stem. Spring loaded discs help maintain contact between the discs and seat rings during initial sealing and eliminate vibration. Discs are interchangeable which simplifies in-line maintenance and eliminates the need to custom fit the seats to the discs.

Internal stops provide positive over travel protection for power actuated valves and act as a reference to position the discs in the open and closed positions. This design features low seating torque which reduces actuator size and cost. Hardfaced seating surfaces provide high cycle capability in very high differential pressure services

Features

- Self aligning interchangeable discs
- No wedging force; disc reacts freely to thermal changes
- Uniform seat wear
- Positive disc travel stops cast into body
- Lower torque may allow smaller actuator
- Ease of maintenance
- Position seated for closure



Pressure Seal Gate Valves

ASME Class 600

Fig. No. 55506-7-WE* Flex Wedge, Butt Weld Ends

Fig. No. 55506-7 Flex Wedge, Flanged Raised Face

Fig. No. 55506-7-RJ Flex Wedge, Flanged, Ring Joint

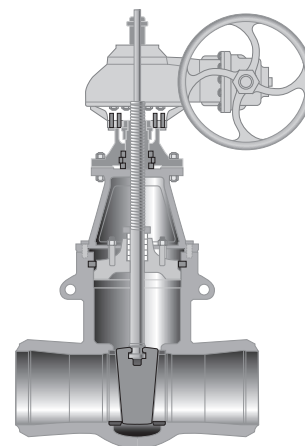
Fig. No. 55406-7-WE* Parallel Seat Disc, Butt Weld Ends

Fig. No. 55406-7 Parallel Seat Disc, Flanged, Raised Face

Fig. No. 55406-7-RJ Parallel Seat Disc, Flanged, Ring Joint

Dim	Description	VALVE SIZES (inches)											
			2	2.5	3	4	6	8	10	12	18	20	24
A	End-to-End Weld Ends	in.	8.50**	8.50	10.00	12.00	18.00	23.00	28.00	32.00	43.00	47	55.00
		mm	216	216	254	305	458	585	712	813	1092	1194	1397
A ₁	Face-to-Face Flanged Ends	in.	N/A	N/A	14.00	17.00	22.00	26.00	31.00	33.00	43.00	47	55.00
		mm	N/A	N/A	356	432	559	661	788	839	1092	1194	1397
A ₂	Face-to-Face RTJ	in.	N/A	N/A	14.13	17.13	22.13	26.13	31.13	33.13	43.13	47.13	55.38
		mm	N/A	N/A	359	436	563	664	791	842	1096	1197	1407
K	Center-to-Top Open	in.	18.06	18.06	18.69	22.81	32.69	38.00	45.56	51.19	76.00	80.00	94.00
		mm	459	459	475	579	830	965	1157	1300	1930	2032	2388
M	Handwheel Dia.	in.	14	14	14	14	14	18	24	24	24	24	24
		mm	356	356	356	356	356	457	610	610	610	610	610
*	Weight Weld Ends	lbs.	78	78	80	123	312	588	995	1462	4000	5200	8300
		kg	36	36	37	56	141	267	451	663	1814	2359	3765
	Weight Flanged Ends	lbs.	125	125	131	213	511	903	1495	2157	4750	5900	9570
		kg	57	57	59	96	232	410	678	978	2155	2676	4340

NOTES: 1. Valves are supplied with a handwheel actuator on all sizes.



VENTURI GATE VALVES

Fig. No. 55506-7-WE* Butt Weld Ends

Dim	Description	VALVE SIZES (inches)							
			8x6x8	10x8x10	12x10x12	14x12x14	20x18x20	24x20x24	26x24x26
A	End-to-End	in.	18	23	28	32	43.00	47	55.00
		mm	458	585	712	813	1092	1194	1397
K	Center-to-Top Open	in.	32.69	38.00	45.56	51.19	76.00	80.00	94.00
		mm	831	966	1158	1301	1930	2032	2388
M	Handwheel Dia.	in.	14	18	24	24	24	24	24
		mm	356	457	610	610	610	610	610
**	Weight	lbs.	359	682	1124	1550	4200	6100	8700
		kg	163	309	510	703	1905	2767	3946

NOTES:

1. Valves are supplied with a handwheel actuator on all sizes.

GENERAL NOTES:

1. Dimensions, weights, and other engineering data are subject to change or modification.

This data is not to be used for construction unless confirmed by CNL.

2. All pressure seal gate valves are available with a solid wedge. Specify figure number 55006.

3. Meets design requirements of ASME Section III, B16.34, B16.5, B16.25 and B16.10

* Specify pipe schedule.

** Mfg std end-to-end dimensions

