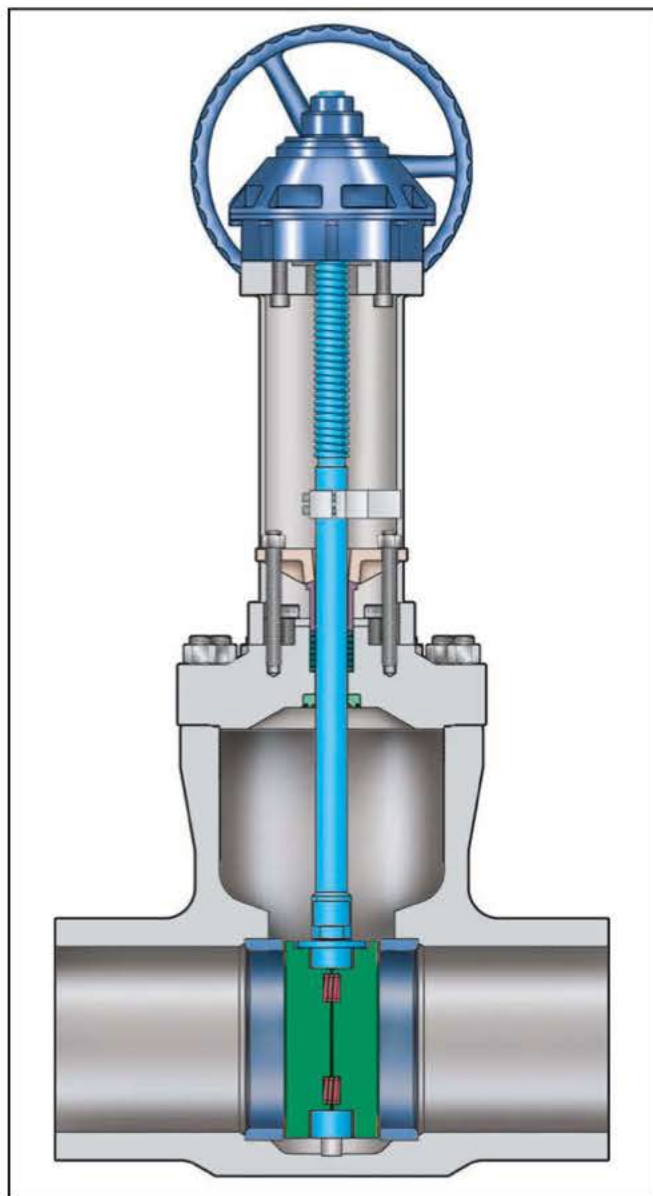




BOLTED BONNET PARALLEL SLIDE GATE VALVES CARBON, ALLOY OR STAINLESS STEEL

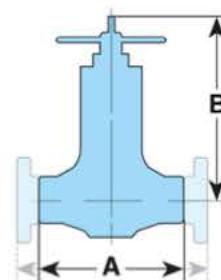
ASME CLASSES 600–900, 2–24" (50–600 mm)
ASME CLASS 1500, 2–16" (50–400 mm)



Velan pressure seal parallel slide gate valves are ideal for clean service and high temperature steam.

DESIGN FEATURES:

- **Stronger, leakproof bolted body bonnet joint** ensures joint tightness with a higher bolting torque. (See page 11 for details.)
- **Unique Parallel Slide Forged Cage Unit Design** comprises all operating parts of the slide discs (See page 23 for details.)
- **Designed to ASME B16.34.**
- **Body** made of superior strength forgings and optional cast steel.
- **Velan stem seal** offers tight seal with little to no maintenance over long periods of time.
- **Forged cage unit design.**
- **Optional** live-loading of packing.
- **Non-rotating** stem.
- **Hardfaced** seating faces resist erosion.
- Available with provision for seal weld
- Other sizes and pressure classes available. Contact the company for specifications
- Certain design configurations are available in cast steel. In these cases the last digit of the figure number shown would change from B to C.
- Contact the company for details.



Flange dimensions are in accordance with ASME B16.5.
Flanges are welded on.

CLASS	FIGURE NUMBER
600	2144B
900	7144B
1500	3144B

FLOW COEFFICIENT CV*

SIZE in mm	CLASS		
	600	900	1500
2 50	260	260	260
2½ 65	260	260	260
3 80	440	440	440
4 100	725	725	725
6 150	1700	1600	1600
8 200	3250	2650	2650
10 250	3650	3650	3650
12 300	7300	7300	7300
14 350	7300	7300	7300
16 400	9500	9500	9500
18 450	16500	16500	—
20 500	23500	20000	—
24 600	30000	30000	—

* $K_v = C_v \times 0.85$

STANDARD MATERIALS

PART	MATERIAL			
Body ⁽¹⁾	A 105	A 182 Gr. F11	A 182 Gr. F22	A 182 Gr. F316
Bonnet ⁽¹⁾				
Seat ⁽¹⁾⁽²⁾	A 105 or	A 182 Gr. F11 or	A 182 Gr. F22 or	A 182 Gr. F316 or
Disc ⁽¹⁾⁽²⁾	A 216 Gr. WCB	A 217 Gr. WC6	A 217 Gr. WC9	A 351 Gr. CF8M
Stem ⁽¹⁾⁽³⁾	Gr. 410			Gr. 630 or Gr. 660
Yoke	Carbon steel			
Gasket ⁽¹⁾	Spiral wound stainless and graphite			
Body/bonnet stud	Gr. B7	Gr. B16		Gr. B8M or Gr. 630
Body/bonnet nut	Gr. 2H	Gr. 4 ⁽⁴⁾		Gr. 8M
Packing ring ⁽¹⁾	Graphite			
Packing flange	Carbon steel			Stainless
Gland				
Gland stud	Gr. B7			Gr. B8M or 630
Gland nut	Gr. 2H			Gr. 8M
Torque arm	Carbon steel			
Yoke bolting	Gr. B7 or A 574			
Yoke nut	Manganese bronze or Austenitic Ductile Iron A 439 Gr. D-2C			
Thrust bearing	Steel			
Handwheel ⁽¹⁾	Malleable iron or steel			

(1) Other materials available. (2) Stellite. (3) Hardened. (4) Grade 7 is alternate.

DIMENSIONS – BUTT WELD END

SIZE in mm	ASME 600 (PN 100)			ASME 900 (PN 150)			ASME 1500 (PN 250)		
	A	B ⁽⁵⁾	lb kg	A	B ⁽⁵⁾	lb kg	A	B ⁽⁵⁾	lb kg
2 50	7.00 178	22.13 562	100 45	8.50 216	22.13 562	100 45	8.50 216	22.13 562	100 45
2½ 65	8.50 216	22.13 562	100 45	10.00 254	22.13 562	100 45	8.50 216	22.13 562	100 45
3 80	10.00 254	29.75 756	200 91	12.00 305	29.75 756	200 91	12.00 305	29.75 756	200 91
4 100	12.00 305	32.44 824	250 113	12.00 305	32.44 824	250 113	16.00 406	32.44 824	250 113
6 150	18.00 457	36.22 920	580 263	20.00 508	36.22 920	580 263	22.00 559	49.00 1245	800 363
8 200	23.00 584	47.25 1200	1000 454	26.00 660	47.25 1200	1000 454	28.00 711	47.25 1200	1000 454
10 250	28.00 711	61.19 1554	1400 635	31.00 787	61.19 1554	1900 862	34.00 864	61.19 1554	1900 862
12 300	32.00 813	77.63 1972	1800 816	38.00 965	77.63 1972	3300 1497	39.00 991	78.13 1985	3300 1497
14 350	35.00 889	79.50 2019	2200 998	39.00 991	79.25 2013	3500 1588	42.00 991	79.25 2013	3500 1588
16 400	39.00 991	84.50 2146	3700 1678	43.00 1092	85.19 2164	3900 1769	43.00 1092	90.00 2286	4000 1814
18 450	43.00 1092	83.38 2118	4500 2041	43.00 ⁽⁶⁾ 1092	88.06 2237	5000 2268	—	—	—
20 500	47.00 1194	96.50 2451	5500 2495	47.00 ⁽⁶⁾ 1194	96.50 2451	7500 3402	—	—	—
24 600	55.00 1397	103.50 2629	8000 3629	55.00 ⁽⁶⁾ 1397	103.75 2635	10000 4536	—	—	—

(5) Dimension is center to top in open position.

(6) The following valves do not meet the ASME B16.10 end to end dimensions.