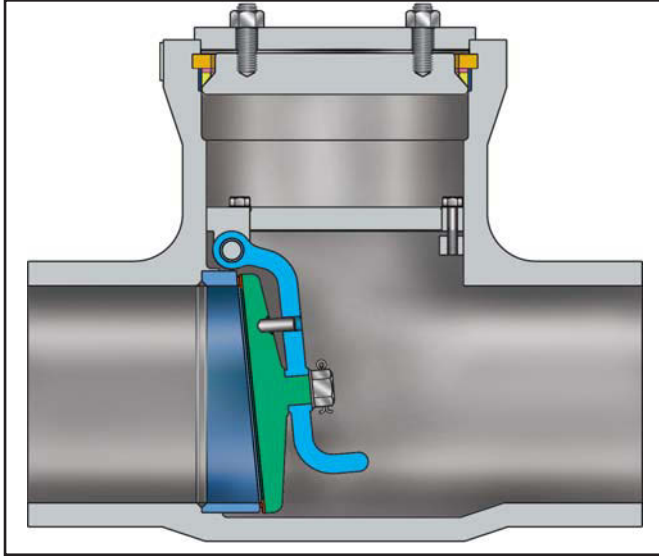


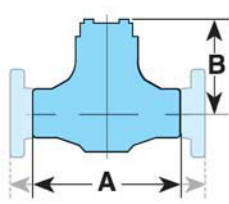


**PRESSURE SEAL
SWING CHECK VALVES
CARBON, ALLOY OR STAINLESS STEEL
ASME CLASSES 600–2500, 2–24" (50–600 mm)**



CAUTION: For other than horizontal line orientations see pgs. 50-51, or contact Velan Engineering.

CLASS	FIG. NO.
600	2114P/2114K
900	7114P/7114K
1500	3114P/3114K
2500	4114P/4114K



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

STANDARD MATERIALS

PART	MATERIAL				
Body ⁽¹⁾	A 105 or A 216 Gr. WCB	A 182 Gr. F11 or A 217Gr. WCB	A 182 Gr. F22	A 182 Gr. F91	A 182 Gr. F316
Cover ⁽¹⁾	A 105 or A 216 Gr. WCB	A 182 Gr. F11 or A 217 Gr. WCB	A 182 Gr. F22 or A 217 Gr. WCB	A 182 Gr. F91	A 182 Gr. F316 or A 351 Gr. CF8M
Seat ⁽¹⁾⁽²⁾	A 105 or A 216 Gr. WCB	A 182 Gr. F11 or A 217 Gr. WCB	A 182 Gr. F22 or A 217 Gr. WCB	A 182 Gr. F91	A 182 Gr. F316 or A 351 Gr. CF8M
Disc ⁽¹⁾⁽²⁾	A 105 or A 216 Gr. WCB	A 182 Gr. F11 or A 217 Gr. WCB	A 182 Gr. F22 or A 217 Gr. WCB	A 182 Gr. F91	A 182 Gr. F316 or A 351 Gr. CF8M
Hanger	Stainless				
Hex head bolt	Alloy steel				Stainless
Lock washer	Stainless				
Hinge pin	Gr. 410				Gr. 630 or Gr. 660
Bushing	Stellite 6				
Gasket ⁽¹⁾	Soft carbon steel - silver plated or Graphite/SS 316				
Gasket retainer	A 182 Gr. F6a Cl.4				
Spacer ring	Gr. 4140 option Ni or Cad plated or SS				
Cover plate	Carbon steel				
Cover stud	Gr. B7				
Cover nut	Gr. 2H				

(1) Other materials available, including Graphite. (2) Stellite.

FLOW COEFFICIENT CV*

SIZE in (mm)	CLASS				SIZE in (mm)	CLASS			
	600	900	1500	2500		600	900	1500	2500
2 (50)	65	65	65	65	12 (300)	3650	3000	3000	1650
2½ (65)	95	95	95	65	14 (350)	5500	3000	3000	1700
3 (80)	170	170	170	95	16 (400)	6000	4850	4850	3300
4 (100)	295	295	295	170	18 (450)	6250	6250	6250	4200
6 (150)	700	700	700	400	20 (500)	9000	9000	7700	5100
8 (200)	1125	1125	1125	750	24 (600)	13500	13500	11500	6400
10 (250)	1700	1700	1700	1125					

* Kv = Cv x 0.85

Note: for cast valve Cv values, contact Velan.

DESIGN FEATURES:

- **Advanced pressure seal design.**
(See page 10 for details.)
- **No penetration of hinge pin to outside.**
Eliminates pin seal leakage and provides in-line service.
- **Compact cage unit.**
All moving parts are attached to the carrier and can be removed easily for service.
- **Forged seat/disc is Stellite,** ground and lapped to a mirror finish for maximum erosion resistance and long service life. It is seal-welded to the body.
- **Disc can partially rotate for tight shutoff.**
In the fully open position, it rests against a stop.
- **Stellite bearings for hinge pin.**
- **Easy in-line service.**
All parts are easily accessible for maintenance. Seating faces can be re-lapped.
- **Forged bonnet.**

DIMENSIONS – BUTT WELD END

SIZE in mm	ASME 600 (PN 100)			ASME 900 (PN 150)			ASME 1500 (PN 250)			ASME 2500 (PN 420)		
	A	B	lb ⁽⁴⁾ kg	A	B	lb ⁽⁴⁾ kg	A	B	lb ⁽⁴⁾ kg	A	B	lb ⁽⁴⁾ kg
2 50	8.50 ⁽³⁾ 216	7.75 197	75 34	10.00 ⁽³⁾ 254	7.75 197	75 34	8.50 216	5.75 146	75 34	11.00 279	5.63 143	100 45
2½ 65	8.50 216	7.75 197	75 34	10.00 254	7.75 197	75 34	10.00 254	7.75 197	75 34	10.00 ⁽³⁾ 254	5.75 ⁽³⁾ 146	100 45
3 80	10.00 254	7.75 197	100 45	12.00 305	7.75 197	100 45	12.00 305	7.75 197	100 45	14.50 368	7.81 198	125 57
4 100	12.00 305	9.50 241	150 68	14.00 356	9.50 241	150 68	16.00 406	9.50 241	150 68	18.00 457	9.38 238	175 79
6 150	18.00 457	14.75 375	500 227	20.00 508	14.75 375	500 227	22.00 559	14.75 375	500 227	24.00 610	15.50 394	575 261
8 200	23.00 584	17.50 445	800 363	26.00 660	17.50 445	800 363	28.00 711	17.50 445	800 363	30.00 762	18.00 457	1000 454
10 250	28.00 711	19.88 505	1300 590	31.00 787	19.88 505	1300 590	34.00 864	19.88 505	1350 612	36.00 914	19.25 489	1500 680
12 300	32.00 813	23.88 607	3000 1361	36.00 914	23.88 607	3000 1361	39.00 991	23.88 607	3000 1361	41.00 1041	23.75 603	3300 1497
14 350	35.00 889	23.88 607	3000 1361	39.00 991	23.88 607	3000 1361	42.00 1067	23.88 607	3000 1361	44.00 1118	23.13 588	3300 1497
16 400	39.00 991	28.62 727	3700 1678	43.00 1092	28.62 727	3850 1746	47.00 1194	28.62 727	4000 1814	49.00 1245	30.00 762	4500 2041
18 450	43.00 1092	31.53 801	4200 1905	43.00 ⁽³⁾ 1092	31.53 801	4200 1905	43.00 ⁽³⁾ 1092	31.53 801	4500 2041	44.00 1118	31.66 804	5800 2631
20 500	47.00 1194	28.32 719	5300 2404	47.00 ⁽³⁾ 1194	28.32 719	5300 2404	47.00 ⁽³⁾ 1194	28.32 719	5300 2404	48.00 1219	31.42 798	6500 2962
24 600	55.00 1397	29.25 743	7200 3266	55.00 ⁽³⁾ 1397	29.25 743	7200 3266	55.00 ⁽³⁾ 1397	29.25 743	7200 3266	55.00 1397	34.81 884	9900 4491

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

(4) Weights shown are for forged valves. For weights of cast steel valves, please contact Velan's Engineering Dept.