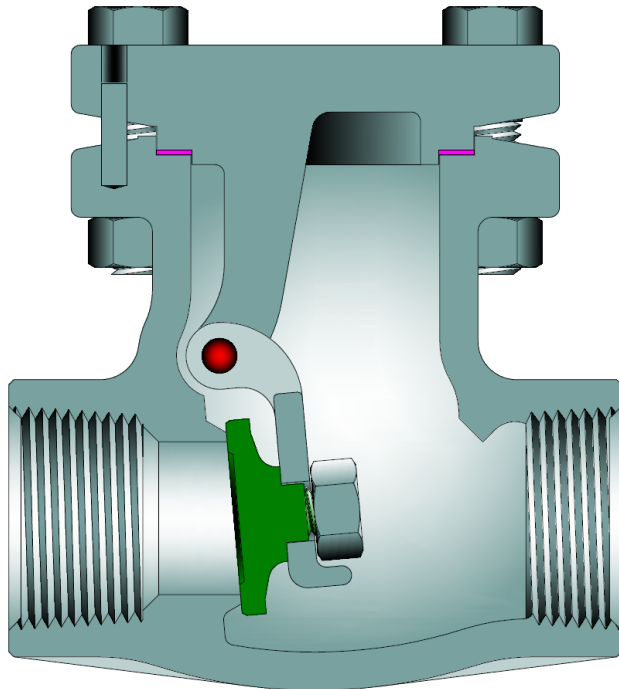


API 603 WALL SWING CHECK VALVES

BOLTED BONNET, CLASSES 200 - 600

1/4" - 2" (6 - 50 mm), THREADED OR SOCKET WELD ENDS

CAST STAINLESS STEEL



Class	Fig. No.
200	2341
300	2346 (1)
600	2350 (1)

1) See pages 22-24 for flanged and butt weld designs.

DESIGN FEATURES:

- Integral Seats.
- Wall thickness per API 603 requirements.
- Swivel disc for improved seat alignment and longer life.
- Each valve is shell and seat pressure tested per industry standard API 598.
- Check valves are suitable for service in horizontal line with cap vertical or in a vertical line with flow upward.
- Carrier Pin is confined within the body wall and is not accessible from the exterior. This eliminates potential leak path with side plug design.

STANDARD MATERIALS (Other materials available)

PART	MATERIALS
Body	A351 Gr. CF3M
Cap	A351 Gr. CF8M
Disc	A276 316
Gasket	PTFE
Carrier	A351 Gr. CF8M
Carrier Pin	A276 316
Disc Nut	SST 316
Body / Cap Stud	A193 Gr. B8
Body / Cap Nut	A194 Gr.8
Locating Pin	SST
Identification Plate	Series 300 SST

Design Specifications

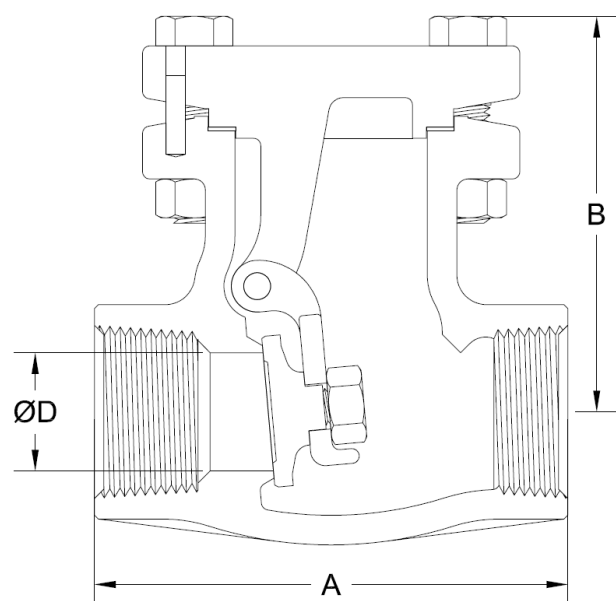
Item	Applicable Specification
Wall thickness	API 603 & B16.34
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End Threads-NPT	ASME B1.20.1
Socket Weld Ends	ASME B16.11
Materials	ASTM

- Disc suspended from valve cap and without side plugs.
- Cap has a male and female joint.
- Each valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- Other available options as follows:
 - » Alternate valve materials
 - » Alternate trim materials
 - » NACE service
 - » Special cleaning for applications such as oxygen or chlorine

NOTE: Powell reserves the right to convert threaded ends to socket weld, which will result in thread remnants as pipe stop.

SWING CHECK VALVE DIMENSIONS (CLASSES 200 - 600)

SIZE	ASME 200					ASME 300							
	in	A	B	D	WT	lb	C _v	A	B	D	WT	lb	C _v
mm						kg						kg	
¼	2.75	2.2	0.44	2.1	3.0	2.75	2.2	0.44	2.1	3.0	2.1	3.0	
6	70	55	11	1.0		70	55	11	1.0		1.0		
3/8	2.75	2.2	0.44	2.1	3.0	2.75	2.2	0.44	2.1	3.0	2.1	3.0	
10	70	55	11	1.0		70	55	11	1.0		1.0		
½	2.75	2.2	0.44	2.1	3.0	2.75	2.2	0.44	2.1	3.0	2.1	3.0	
13	70	55	11	1.0		70	55	11	1.0		1.0		
¾	3.75	3.0	0.75	3.3	9.2	3.75	3.0	0.75	4.4	9.2	4.4	9.2	
19	95	76	19	1.5		95	76	19	2.0		2.0		
1	4.00	3.4	1.00	4.9	17	4.00	3.4	1.00	6.1	17	6.1	17	
25	102	86	25	2.2		102	86	25	2.8		2.8		
1¼	4.75	3.4	1.25	7.3	27	4.75	3.4	1.25	8.5	27	8.5	27	
32	121	86	32	3.3		121	86	32	3.9		3.9		
1½	5.50	4.1	1.50	10.6	40	5.50	4.1	1.50	10.6	40	10.6	40	
38	140	103	38	4.8		140	103	38	4.8		4.8		
2	6.00	4.6	2.00	15.5	75	6.00	4.6	2.00	15.5	75	15.5	75	
50	152	116	51	7.0		152	116	51	7.0		7.0		



B = Center to top

WT = Weight

C_v = Flow coefficient

SIZE	ASME 600									
	in	A	B	D	WT	lb	C _v			
mm						kg				
¼	2.75	2.3	0.44	7.0	3.0	2.75	2.3	0.44	7.0	3.0
6	70	58	11	3.2		70	58	11	3.2	
3/8	2.75	2.3	0.44	7.0	3.0	2.75	2.3	0.44	7.0	3.0
10	70	58	11	3.2		70	58	11	3.2	
½	2.75	2.3	0.44	7.0	3.0	2.75	2.3	0.44	7.0	3.0
13	70	58	11	3.2		70	58	11	3.2	
¾	3.75	3.1	0.75	8.5	9.2	3.75	3.1	0.75	8.5	9.2
19	95	79	19	3.9		95	79	19	3.9	
1	4.00	3.5	1.00	11.0	17	4.00	3.5	1.00	11.0	17
25	102	90	25	5.0		102	90	25	5.0	
1¼	4.75	3.5	1.25	13.2	27	4.75	3.5	1.25	13.2	27
32	121	90	32	6.0		121	90	32	6.0	
1½	5.63	4.3	1.50	14.6	40	5.63	4.3	1.50	14.6	40
38	143	108	38	6.6		143	108	38	6.6	
2	6.25	5.4	2.00	35.0	75	6.25	5.4	2.00	35.0	75
50	159	138	51	15.9		159	138	51	15.9	