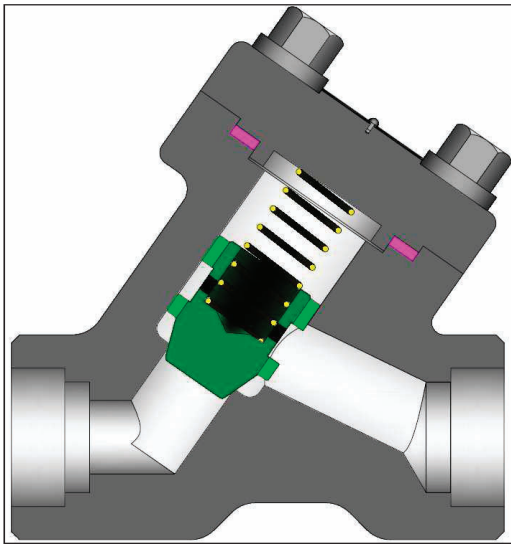




STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A105 + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F316 (1)
Cap	A105	A182 F11	A182 F22	A182 F316
Disc/Ball	A276 T420			A276 T316
Gasket (2)	Spiral Wound SST with Graphite			Spiral Wound SST with PTFE
Spring	Inconel 625			
Body / Cap Bolting (2)	A193 Gr. B7	A193 Gr. B16		A193 Gr. B8M
Identification Plate	Series 300 SST			

Class	Bore	Fig. No.
800	Standard	YL08
	Full	YLL8
1500	Standard	YL15
	Full	YLL5
1680	Standard	YL16
2500	Standard	YL25
2690	Standard	YL26

- (1) Threaded and weld end valve bodies A182 F316L
(2) Welded bonnets also available.

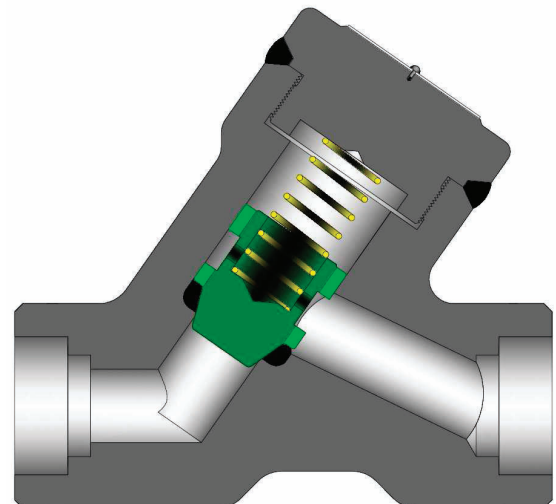
Design Specifications

Item	Applicable Specification
Wall thickness	API 602
Pressure - temperature ratings	ASME B16.34
General valve design	API 602 & B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Thread design	ASME B1.20.1
Butt Weld design	ASME B16.25
Socket Weld design	ASME B16.11
Materials	ASTM

NOTE: See page 43 for flow, safety and maintenance information.

DESIGN FEATURES:

- **Standard trim** is stellite faced seat integral to the body and 13% chrome disc (API trim 8). Other trims available on request.
- **Seat faces** lapped for smooth finish and superior sealing.
- **Wall thickness** per heavy wall API 602 requirements.
- **Each** valve is shell and seat pressure tested per industry standard API 598.
- **Check** valve are suitable for service in horizontal line with cap vertical or in a vertical line with flow upward.
- **End Flanges** have the following raised faces per ASME B16.5:
Classes 150-300: 1/16" (2mm).
Classes 600: 1/4" (7mm).
- **Y-Pattern** features reduced flow restrictions compared to the upright design.
- **Other** available options as follows:
-Alternate valve materials such as chrome and stainless steel alloys.
-Alternate trim materials.
-NACE service.
-Special cleaning for applications such as oxygen or chlorine.
-Other options available as specified.



Welded Bonnet Design

Y-PATTERN PISTON CHECK VALVE DIMENSIONS (CLASS 800—2680).

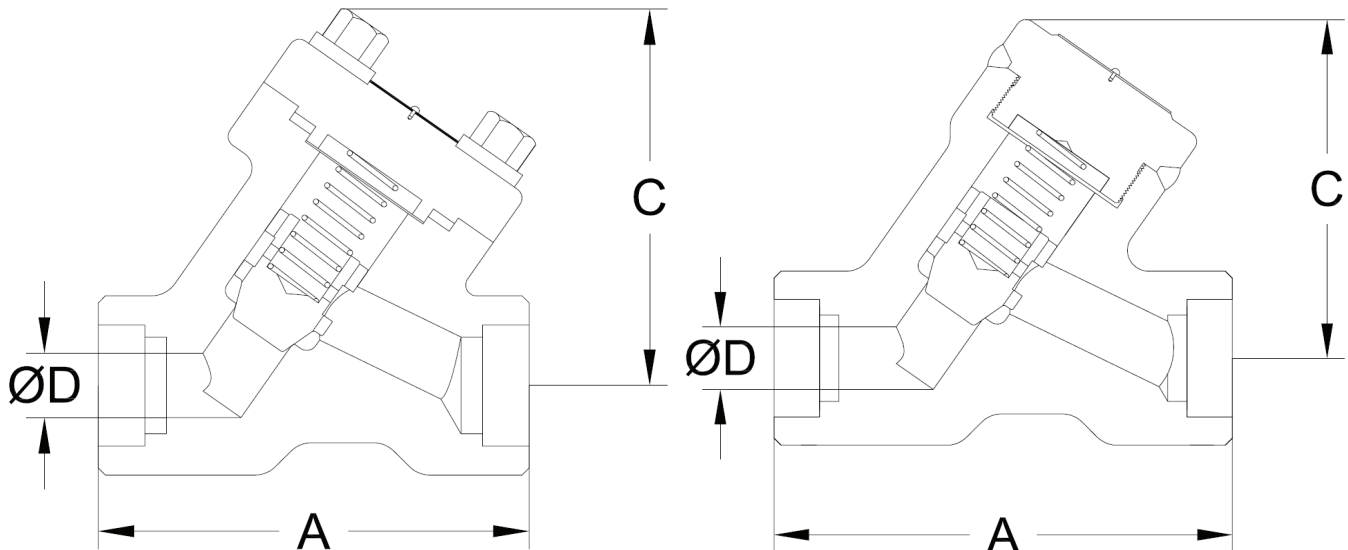
SIZE	ASME 800					
	Bolted Bonnet			Welded Bonnet		
	Standard Bore			Standard Bore		
in	A	C	D	A	C	D
mm	WE			WE		
½	4.17	3.5	0.39	4.17	3.0	0.39
13	106	88	10	106	77	10
¾	4.17	3.5	0.50	4.17	3.0	0.50
19	106	88	13	106	77	13
1	4.72	4.0	0.69	4.72	3.5	0.69
25	120	101	18	120	88	18
1¼	5.98	4.9	0.91	5.98	4.3	0.91
32	152	124	23	152	108	23
1½	5.98	4.9	1.12	5.98	4.3	1.12
38	152	124	29	152	108	29
2	7.09	5.9	1.38	7.09	4.9	1.38
50	180	142	35	180	124	35

SIZE	ASME 1500 & 1690						ASME 2500 & 2680		
	Bolted Bonnet			Welded Bonnet			Welded Bonnet		
	Standard Bore			Standard Bore			Standard Bore		
in	A	C	D	A	C	D	A	C	D
mm	WE			WE			WE		
½	4.72	4.1	0.39	4.72	3.5	0.39	5.98	4.4	0.43
13	120	103	10	120	88	10	152	111	11
¾	4.72	4.1	0.50	4.72	3.5	0.50	5.98	4.4	0.55
19	120	103	13	120	88	13	152	111	14
1	5.98	5.0	0.69	5.98	4.3	0.69	7.09	5.0	0.75
25	152	126	18	152	108	18	180	128	19
1¼	5.98	5.7	0.91	5.98	4.3	0.91	7.87	5.7	0.98
32	152	146	23	152	108	23	200	145	25
1½	7.09	5.7	1.12	7.09	4.9	1.12	7.87	5.7	1.10
38	180	146	29	180	124	29	200	145	28
2	7.87	6.6	1.38	7.87	5.7	1.38	9.06	6.3	1.38
50	200	168	35	200	144	35	230	160	35

WE = Socket Weld / Threaded Ends

C = Center to top open

**ADDITIONAL MATERIALS AND CLASSES
AVAILABLE UPON REQUEST.**



API 602 Y-PATTERN PISTON CHECK VALVES
FORGED CARBON , STAINLESS STEEL OR ALLOY STEEL
¼" TO 2" (6 TO 50 mm)
ASME CLASSES 800 TO 2680

SIZE	ASME 800					
	Bolted Bonnet			Welded Bonnet		
	Standard Bore			Standard Bore		
in	WT	LB	C _v	WT	LB	C _v
mm	WE	KG		WE	KG	
½	3.1		1.5	2.6		1.5
13	1.4			1.2		
¾	4.2		2.7	2.6		2.7
19	1.9			1.2		
1	5.7		5.1	4.4		5.1
25	2.6			2.0		
1¼	9.3		9.1	7.3		9.1
32	4.2			3.3		
1½	11.7		14.0	11.0		14.0
38	5.3			5.0		
2	19.8		22.4	15.4		22.4
50	9.0			7.0		

SIZE	ASME 1500 & 1687						ASME 2500 & 2680		
	Bolted Bonnet			Welded Bonnet			Welded Bonnet		
	Standard Bore			Standard Bore			Standard Bore		
in	WT	LB	C _v	WT	LB	C _v	WT	LB	C _v
mm	WE	KG		WE	KG		WE	KG	
½	5.7		1.5	4.4		1.5	7.7		3.0
13	2.6			2.0			3.5		
¾	5.7		2.7	4.4		2.7	7.7		3.1
19	2.6			2.0			3.5		
1	9.3		5.1	7.3		5.1	13.7		6.0
25	4.2			3.3			6.2		
1¼	11.7		9.1	9.3		9.1	22.9		10.5
32	5.3			4.2			10.4		
1½	19.8		14.0	15.4		14.0	22.9		13.5
38	9.0			7.0			10.4		
2	25.4		22.4	20.9		22.4	32.2		22.4
50	11.5			9.5			14.6		

WE = Socket Weld / Threaded Ends

WT = Weight

C_v = Flow Coefficient