PVS
FLOW CONTROL

Forged Steel Lift/Piston Type Check Valves, Flanged End,
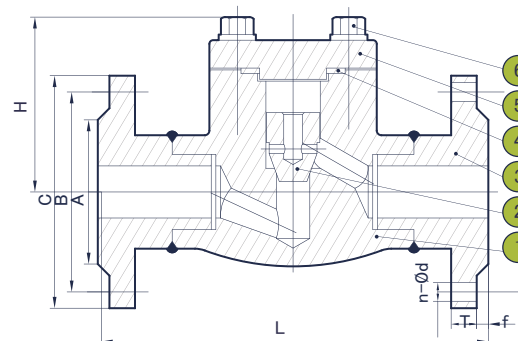# CLASS 150/300/600 (PN 20/50/110)

Features

- Flanges conform to ASME Standard B16.5 and end-to-end dimensions conform to ASME Standard B16.10
- Meets API 602 required wall thickness / ASME B16.34
- Spiral wound gasket with SS304 / graphite or SS316 / graphite
- Horizontal type
- Valves with low Cv Values
- Compact and sturdy designs for high pressure-temperature service

Class 150 (PN 20)
Full Port/Standard Port
ASME CLASS 150: 285 psi@100℉
(19.7 bar@38℃)

Class 300 (PN 50)
Full Port/Standard Port
ASME CLASS 300: 740 psi@100℉
(51.0 bar@38℃)

Class 600 (PN 110)
Full Port/Standard Port
ASME CLASS 600: 1480 psi@100℉
(102.1 bar@38℃)

Check Valve

Selection
Connection:
Raised Face/Ring-Type Joint
Material of the Body/Bonnet:
A105/F316/F316L/F304/F304L/F11/F22

A spring can be added to the lift type check valve as a piston type one.

Component and Common Materials

NO.	PARTS NAME	MATERIALS		
1	Body	A 105	A 182-F304	A 182-F316
2	Disc	13Cr	A 182-F304+STL	A 182-F316+STL
3	Welded Flange	A 105	A 182-F304	A 182-F316
4	Gasket	SS304 & Graphite		SS316 & Graphite
5	Cap	A 105	A 182-F304	A 182-F316
6	Cap Bolt	A 193-B7		A 193-B8

* Enclosed is a condensed table. For complete options, contact PVS FLOW CONTROL directly.

Nominal diameter		mm(in)	15(1/2)	20(3/4)	25(1)	32(11/4)	40(11/2)	50(2)
D		mm(in)	13(0.51)	18(0.71)	23(0.91)	28(1.10)	33(1.30)	42(1.65)
L	CL150	mm(in)	108(4.25)	117(4.61)	127(5.00)	140(5.51)	165(6.50)	203(7.99)
	CL300	mm(in)	152(5.98)	178(7.01)	203(7.99)	216(8.50)	229(9.02)	267(10.51)
	CL600	mm(in)	165(6.50)	190(7.48)	216(8.50)	229(9.02)	241(9.49)	292(11.50)
H		mm(in)	62(2.44)	63(2.48)	78(3.07)	82(3.23)	102(4.02)	120(4.72)
Weight	CL150	kg	2.8	3.5	4.5	8.4	9	12.6
	CL300	kg	2.7	3.7	4.7	8.8	9.6	13.7
	CL600	kg	3	4	5.9	9.5	10	15.6

* Note that the raised-face (RF) flanged end connection is adopted while the pressure rating is under CLASS 600. Please ask your PVS FLOW CONTROL sales for different requirements.