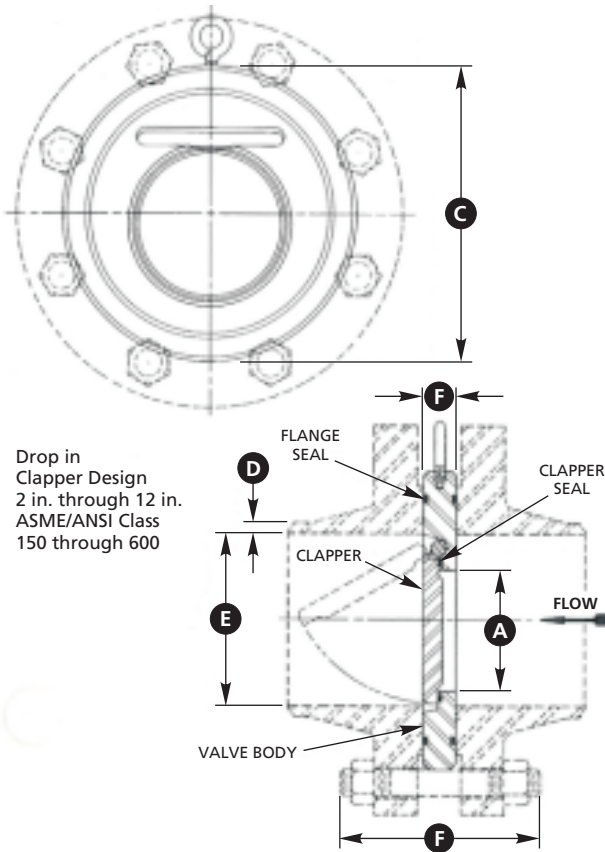


WHEATLEY[®] Short Pattern Wafer Check Valve



WHEATLEY[®]

SHORT PATTERN WAFER CHECK VALVE - REDUCED PORT



Inexpensive Reduced Port Check Valves are used in applications where...

- Media is clean (abrasives are not present)
- Flow is steady and not pulsating
- Flow rates are low
- Pigs or spheres are not intended to run through the valve
- Velocity through the seat does not exceed:

Liquids 15 feet per second

Gases 100 feet per second

Please Note:

The wafer check valve clapper can open approximately 50° to 60° when the bore of the adjoining outlet flange (downstream) is equal to that listed in column "E", entitled "Bore Minimum".

If a larger bore flange is used, the maximum possible clapper angle is increased. However, "since drop-in" type clappers are retained by the flange face, too large a bore will result in the clapper falling out of the valve.

As a result, this model cannot be used with a slip-on flange on the downstream side.

The clapper angle must not exceed 50° for any flow condition.

DIMENSIONS

Working Pressure	Nominal Size (in.)	Body-Seat Bore (in.)		Body Thickness (in.)		Body Outside Dia. (in.)		Companion Flange		Ring Number	Recommended Stud Length		Weight (lbs.)	Order Number	
		A	B	B	C	Max. Pipe Wall	Bore Min.	D	E		O-Ring	RTJ		Serrated O-Ring Face	Ring Type Joint (RTJ) Face
		F	F												
ASME 150 275 psi	2	1 1/16	3/4	3/4	4 1/8	0.281	1.939	R22	3 3/4	4 1/2	3	9D-973-020027-XXX	9D-979-020027-XXX		
	3	1 7/8	3/4	3/4	5 3/8	0.300	2.900	R29	4 1/4	5	5	9D-973-030027-XXX	9D-979-030027-XXX		
	4	2 13/16	3/4	3/4	6 7/8	0.237	4.026	R36	4 1/4	5 1/4	7	9D-973-040027-XXX	9D-979-040027-XXX		
	6	4 1/2	3/4	3/4	8 3/4	0.280	6.065	R43	4 1/2	5 1/4	12	9D-973-060027-XXX	9D-979-060027-XXX		
	8	5 5/8	1 1/8	1 1/8	11	0.322	7.981	R48	5 1/4	6	27	9D-972-080027-XXX	9D-979-080027-XXX		
	10	7 1/2	1 1/8	1 1/8	13 3/8	0.365	10.020	R52	5 3/4	6 1/2	36	9D-973-100027-XXX	9D-979-100027-XXX		
ASME 300 720 psi	2	1 1/16	3/4	3/4	4 3/8	0.281	1.939	R23	4	5 1/4	3	9D-973-020072-XXX	9D-979-020072-XXX		
	3	1 7/8	3/4	3/4	5 7/8	0.300	2.900	R31	4 3/4	5 3/4	6	9D-973-030072-XXX	9D-979-030072-XXX		
	4	2 13/16	3/4	3/4	7 1/8	0.237	4.026	R37	5	6 1/4	7	9D-973-040072-XXX	9D-979-040072-XXX		
	6	4 1/2	7/8	7/8	9 7/8	0.280	6.065	R45	5 3/4	6 3/4	17	9D-973-060072-XXX	9D-979-060072-XXX		
	8	5 5/8	1 1/8	1 1/8	12 1/8	0.322	7.981	R49	6 1/2	7 1/2	33	9D-973-080072-XXX	9D-979-080072-XXX		
	10	7 1/2	1 1/2	1 1/2	14 1/4	0.365	10.020	R53	7 1/2	8 1/4	60	9D-973-100072-XXX	9D-979-100072-XXX		
ASME 600 1440 psi	2	1 1/16	3/4	3/4	4 3/8	0.218	1.939	R23	4 3/4	5 1/2	3	9D-973-020144-XXX	9D-979-020144-XXX		
	3	1 7/8	3/4	3/4	5 7/8	0.300	2.900	R31	5 1/2	6	6	9D-973-030144-XXX	9D-979-030144-XXX		
	4	3 5/8	7/8	7/8	7 5/8	0.337	3.826	R37	6 1/2	7	10	9D-973-040144-XXX	9D-979-040144-XXX		
	6	4 1/8	1 1/8	1 1/8	10 1/2	0.432	5.761	R45	7 3/4	8	26	9D-973-060144-XXX	9D-979-060144-XXX		
	8	5	1 1/2	1 1/2	15 5/8	0.500	7.625	R49	9	9 1/4	48	9D-973-080144-XXX	9D-979-080144-XXX		
	10	7	2 1/4	2 1/4	15 3/4	0.500	9.750	R53	10 3/4	11 1/4	112	9D-973-100144-XXX	9D-979-100144-XXX		
12	8 1/2	2 3/8	2 3/8	18	0.500	11.750	R57	11 1/8	11 5/8	152	9D-973-120144-XXX	9D-979-120144-XXX			

Order Number Suffix: XXX

- 101 - Carbon Steel Body with Buna Seals
- 118 - Carbon Steel Body with Viton® Seals
- 301 - 316 Stainless Steel Body with Buna Seals
- 318 - 316 Stainless Steel with Viton® Seals

Body Face Sealing Surfaces



O-Ring



RTJ (Ring Type Joint)

Materials of Construction

Body	Clapper		O-Ring Seal
	2 in. - 8 in.	10 in. - 12 in.	
Carbon Steel (Zinc Plated)	316 SS	Carbon Steel (Zinc Plated)	Buna
	316 SS	316 SS	FKM

Consult factory for other materials.



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