

Ball Check Valve Data Sheet



FEATURES:

- Singular moving part (interior ball)
- Interior ball unseats to permit flow in one direction while sealing against the seat to prevent backflow, making it perfect for directional flow applications
- Rated for full vacuum service across all sizes
- Can be installed vertically or horizontally
- Minimum shutoff of 5 psi

OPTIONS:

- PTFE-coated FKM uniseat/seal
- Spring loaded ball to assist ball in seating faster
- Stainless steel spring and coated stainless steel spring
- Foot valve screen

PRESSURE VS. TEMPERATURE (PSI, WATER, NON-SHOCK):

Body Material	Temperature (F)	inches (mm)	
		1/2" - 2" (15 - 50)	3" - 4" (80 - 100)
PVC	30° - 120°	150	100
CPVC	30° - 120°	150	100
	121° - 140°	120	90
	141° - 175°	90	60
	176° - 195°	60	45
PP	-5° - 85°	150	75
	86° - 140°	90	60
	141° - 175°	60	45
PVDF	-30° - 140°	150	100
	141° - 175°	125	90
	176° - 195°	110	60
	196° - 210°	90	45

SPECIFICATIONS:

SIZES: True Union: 1/2" - 2"
Single Union: 3" - 4"

MODELS: Socket, threaded, flanged (ANSI), butt end

BODY MATERIALS: PVC, CPVC, PP, PVDF

SEATS: EPDM, FKM, PTFE

SEALS: EPDM, FKM, PTFE

PVC/EPDM/FKM models (sizes 1/2" - 4") and CPVC/EPDM/FKM models (sizes 1/2" - 4") NSF-61 Certified

WEIGHTS (LBS.):

Nominal Size		Socket	Flanged
inches	mm		
1/2	15	0.22	0.66
3/4	20	0.44	1.10
1	25	0.66	1.54
1-1/2	40	1.54	2.20
2	50	2.20	3.31
3	80	6.17	9.92
4	100	14.99	24.25

CV VALUES:

Nominal Size		Cv
inches	mm	
1/2	15	6.5
3/4	20	17
1	25	25
1-1/2	40	86
2	50	130
3	80	280
4	100	500