



Model 5087 Ball Check Valves

No Clog and Low Friction Loss!

HDL Model 5087 is the most widely used ball check valve for municipal and industrial backflow prevention. The simple and cost-effective design eliminates the need for expensive mechanical swing type of spring loaded check valves, hydraulic cushions, and other accessories used to prevent the check valve from slamming.

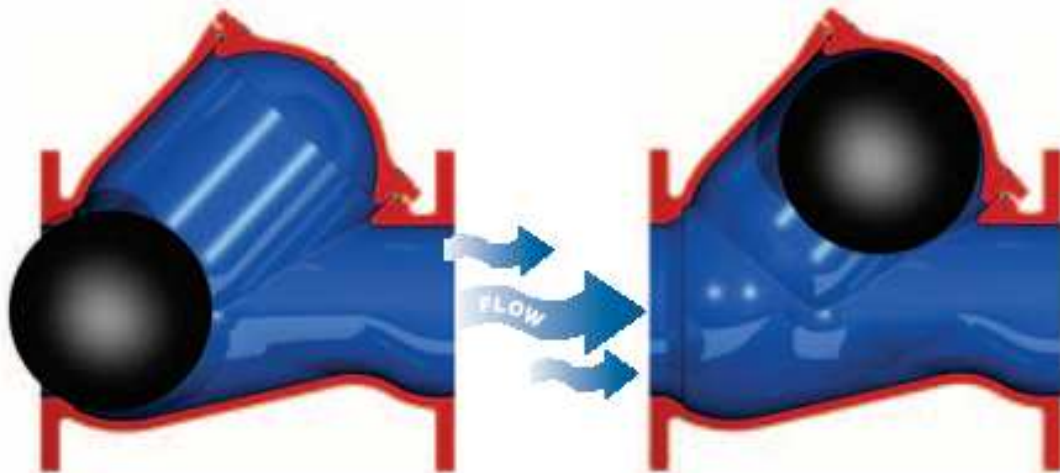
The Model 5087 includes the following features:

- AWWA dimensions (flange to flanges)
- Ductile iron construction
- Ball is the only moving part
- Ball moves completely out of flow channel for optimum performance and minimum pressure drop
- Bolt on cover for easy inspection and ball replacement
- Sizes 1 ½ in. to 24 in.
- ASA 125# flanges
- Working pressures to 145 psi
- Handles line size solids
- Random seating of the ball upon closing eliminating the same single point
- Temperatures to 175° F



Materials of Construction

Component:	Standard Material:	Optional Items:
Valve housing & cover	ASTM A 536 ductile iron	316 SS, 250# flanges, flame sprayed internal coatings
Ball	Hollow aluminum filled with foundry sand for concentric weighting	SS, solid PTFE, solid polypropylene. Ball can be adjusted in its specific gravity.
Ball coating	Buna N	EPDM, Viton, Teflon neoprene, butyl, hypalon, polyurethane,
Bolting	Zinc coated steel	316 SS



- Ball moves completely out of the flow path for low head loss
- Random seating of the ball on closing, ensuring long-life
- Valves can be installed horizontally or vertically
- Vertical installations can have downward flow when a floating ball is used



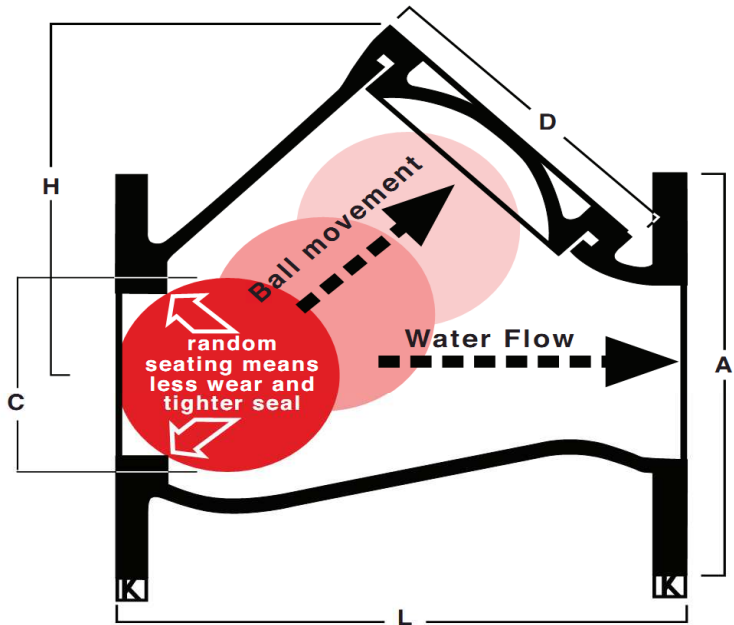
- Size Range
Flanged: 1 ½-inch to 24-inch
NPT: 1 ½-inch and 2-inch
- Pressure rated to 150 psi
- Simple bolt on cover for easy inspection and maintenance
- Flanges comply with ANSI/ASME B16.1 Class 125
- 100% testing — All valves tested to 150 PSI leak test/225 PSI hydrostatic shell test

NPT versions available in ductile-iron or stainless steel





Model 5087



Nominal Size (in.)	Dimensions in Inches					Weight (lbs.)
	A	C	D	H	L	
1.5	5.9	2.0	3.3	3.7	6.9	14
2.0	6.0	2.5	4.0	4.5	8.0	16
2.5	7.0	3.1	4.5	5.3	8.5	23
3.0	7.5	3.8	5.5	6.3	9.5	30
4.0	9.0	4.9	6.7	7.9	11.5	50
6.0	11.0	7.1	9.1	10.2	14.0	83
8.0	13.5	9.8	12.4	13.2	19.5	170
10.0	16.0	12.6	15.6	16.1	24.5	281
12.0	19.0	14.6	18.1	19.3	27.5	450
14.0	21.0	17.3	21.5	23.2	31.0	683
16.0	23.5	19.7	24.0	29.7	36.0	1003
20.0	27.5	24.4	29.7	36.4	43.3	1566
24.0	32.0	29.5	35.8	39.8	51.6	2644



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