Check & Foot Valves

APPLICATIONS	Silent Check Valve	Dual Disc® Check Valve	Tilted Disc® Check Valve	Swing-Flex® Check Valve	Surgebuster® Check Valve	Foot Valves
Potable Water	1	1	1	1	1	1
Raw Water	2[b]	1	1	1	1	1
Secondary Wastewater Effluent	2	1	1	1	1	1
Raw Sewage	3	3	3	1	1	3
Screened Sewage	3	3	3	1	1	3
Abrasive Slurries	3	3	3	1	1	3
Air Service	3	1[e]	3	2	2	3
High Temperature (Above 250°F)	1[d]	1[d]	2[d]	2[d]	2[d]	3
High Pressure (Above ANSI Class 125 lb. pressure)	1[d]	1[d]	1[d]	2[d]	2[d]	1[d]
Corrosive Service	1[d]	1[d]	2[d]	1[c]	1[c]	1[d]
Vertical Flow Up	1	1	1	1	1	1
Vertical Flow Down	2	3	3	3	3	3
Non-Abrasive Slurries	3	2	2	1	1	-
Sludge	3	3	3	1	1	3
Primary Effluent	3	3	2	1	1	3
Salt Water, Sea Water, Brine	1[d]	1[d]	1[d]	1[d]	1[d]	1[d]
Ozone Treatment	3	1[d]	3	2[d]	2[d]	3
Irrigation	2[b]	1	1	1	1	1
Buried Service	1	1	1[d]	1[d]	1[d]	-
Industrial Process Applications	1[e]	1[e]	1[e]	1[e]	1[e]	1[e]
Low Pressure Gas Service	3	1[e]	3	1[e]	1[e]	3

Legend:
1 = Recommended
2 = Acceptable
3 = Not Recommended

a. Val-Matic manufactures 3 types of foot valves. Please contact factory for application assistance.
b. Not recommended for hight turbidity applications.
c. Optional Synthetic lining available. Contact factory for lining selection.
d. Contact factory for valves with alternate materials and pressure classes.
e. Consult factory on application.

FEATURES						
Drop Tight Seating	x	x	x	x	x	x
Bubble Tight Shut Off	x[1]	x		x	x[1]	x
Non-Slam Closing Characteristics[2]	x	x	x	x	x	x
Silent Closing[2]	x	x	x	x	x	
Cushion Closure			x[3]			
Controlled Opening and Closing			x[3]			
Position Indicating			x	x[8]	x[8]	
SCADA Compatible Signal Switches			x[3]	x[8]	x[8]	
Compact, Space Saving Wafer Design	x[4]	x				
Inspection Port			x	x	x	
Full Top Access Port				x	x	x
Low Head Loss[5]	x	x	x	x	x	x
Low Cost[6]	x	x	x	x	x	x
No Regular Maintenance	x	x	x	x	x	x
Rubber Lining (all surfaces)				x	x	
25 Year Extended Disc Warranty				x	x	
One Moving Part				x	x	
Spring Assisted Closure	x	x			x	
UL Approved		x				
FM Approved	x	x				
Hand Hold (Inspection Port)			x			
Synthetic Seating	x[1]	x		x	x[1]	x
High Velocity Flow (above 10 FPS)		x	x	x	x	
Heavy Duty Stainless Steel (4 times greater screening area than pipe area)	x[7]	x[7]		x[7]	x[7]	x

1. With Optional synthetic seating.
2. The Val-Matic Silent Check Valve has superior non-slam closing characteristics. It is followed in order by the Tilted Disc, Surgebuster, Swing-Flex and Dual Disc.
3. With dashpot.
4. 2" thru 10".
5. The Val-Matic Tilted Disc Check Valve has the lowest head loss rating of all Val-Matic Check Valves. It is followed in order by the Swing-Flex and Surgebuster, Dual Disc and Silent Check Valves.
6. The Val-Matic Dual Disc Check Valve is the least expensive of all the Val-Matic Check Valves. It is followed in order by the Silent Check, Swing-Flex, Surgebuster and Tilted Disc.
7. Foot Valve Applications.
8. Optional.