

## Check, Plug, and Foot Valves

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

APPLICATIONS		Silent Check	Dual Disc	Tilted Disc	Swing-Flex®	SURGEBUSTER®	Foot Valves	Plug Valves
1	Potable Water	1	1	1	1	1	1	1
2	Raw Water	2 <sup>2</sup>	1	1	1	1	1	1
3	Secondary Wastewater Effluent	2	1	1	1	1	1	1
4	Raw Sewage	3	3	3	1	1	3	1
5	Screened Sewage	3	3	3	1	1	3	1
6	Abraasive Slurries	3	3	3	1	1	3	1 <sup>3</sup>
7	Air Service	3	1 <sup>5</sup>	3	2	2	3	1 <sup>6</sup>
8	High Temperature (Above 250° F)	1 <sup>4</sup>	1 <sup>4</sup>	2 <sup>4</sup>	2 <sup>4</sup>	2 <sup>4</sup>	3	3
9	High Pressure (Above ANSI Class 125 lb. pressure)	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>4</sup>	2 <sup>4</sup>	2 <sup>4</sup>	1 <sup>4</sup>	3
10	Corrosive Service	1 <sup>4</sup>	1 <sup>4</sup>	2 <sup>4</sup>	1 <sup>3</sup>	1 <sup>3</sup>	1 <sup>4</sup>	2 <sup>5</sup>
11	Vertical Flow Up	1	1	1	1	1	1	1
12	Vertical Flow Down	2	3	3	3	3	3	1
13	Non-Abraasive Slurries	3	2	2	1	1	-	1
14	Sludge	3	3	3	1	1	3	1
15	Primary Effluent	3	3	2	1	1	3	1
16	Salt Water, Sea Water, Brine	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>4</sup>	2
17	Ozone Treatment	3	1 <sup>4</sup>	3	2 <sup>4</sup>	2 <sup>4</sup>	3	3
18	Irrigation	2 <sup>2</sup>	1	1	1	1	1	1
19	Buried Service	1	1	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>4</sup>	-	1
20	Industrial Process Applications	1 <sup>5</sup>	1 <sup>5</sup>	1 <sup>5</sup>	1 <sup>5</sup>	1 <sup>5</sup>	1 <sup>5</sup>	1 <sup>5</sup>
21	Low Pressure Gas Service	3	1 <sup>5</sup>	3	1 <sup>5</sup>	1 <sup>5</sup>	3	1 <sup>6</sup>
22	Throttling Service	N/A	N/A	N/A	N/A	N/A	N/A	1 <sup>6</sup>

1 Val-Matic manufactures 3 types of foot valves.  
Please contact factory for application assistance.

2 Not recommended for high turbidity applications.

3 Optional Synthetic lining available. Contact factory for lining selection.

4 Contact factory for valves with alternate materials and pressure classes.

5 Consult factory on application.

6 Gear actuation required.

## Check and Foot Valves

FEATURES	Silent Check	Dual Disc	Tilted Disc	Swing-Flex®	SURGEBUSTER®	Foot Valves
Drop Tight Seating	X	X	X	X	X	X
Bubble Tight Shut Off	X <sup>1</sup>	X		X	X <sup>1</sup>	X
Non-Slam Closing Characteristics	See Note #2					X
Silent Closing	See Note #2					
Cushion Closure			X <sup>3</sup>			
Controlled Opening and Closing			X <sup>3</sup>			
Position Indicating			X	X <sup>8</sup>	X <sup>8</sup>	
SCADA Compatible Signal Switches			X <sup>3</sup>	X <sup>8</sup>	X <sup>8</sup>	
Compact, Space Saving Wafer Design	X <sup>4</sup>	X				
Inspection Port			X	X	X	
Full Top Access Port				X	X	X
Low Head Loss	See Note #5					X
Low Cost	See Note #6					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		
Spring Assisted Closure	X	X			X	
UL Approved		X				
FM Approved	X	X				
Hand Hole (Inspection Port)			X			
Synthetic Seating	X <sup>1</sup>	X		X	X <sup>1</sup>	X
High Velocity Flow (above 10 FPS)		X	X	X	X	
Heavy Duty Stainless Steel (4 times greater screening area than pipe area)	X <sup>7</sup>	X <sup>7</sup>		X <sup>7</sup>	X <sup>7</sup>	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 dash pot.

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