

# V451 FOOT VALVE



## Product Description

V451 Foot Valve with Check Valve is designed to be installed on the suction side of a pump. The purpose of a foot valve is to maintain pump prime between pumping cycles. A strainer prevents debris from entering the piping system. Foot valves are designed to minimize head loss and optimize pumping efficiency.



Technical Data	
Size range	DN40-1000
Pressure range	PN10 - 16 - 25
End connection	EN 1092
Gasket	EPDM or NBR
Coating	Fusion bonded epoxy
Mesh	Stainless Steel AISI 304/316/316L
Body & Disc	GGG50 Ductile Iron

## Application Range

- Reservoir Lakes
- Dam Sites
- Seawater Applications
- Suction Lines

## Related Products

- V851 Y-Strainer
- V852 Basket Strainer
- V651 Rubber Expansion Joint
- V151 Gate Valve
- V106 Butterfly Valve



IRRIGATION



POTABLE WATER

# V451

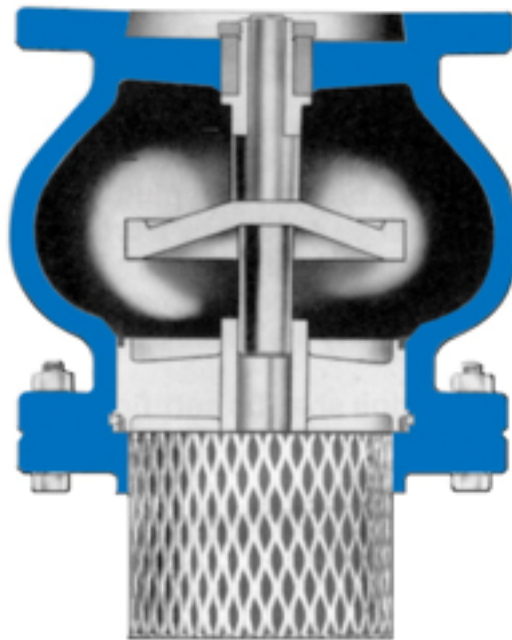
## FOOT VALVE



### Product Features

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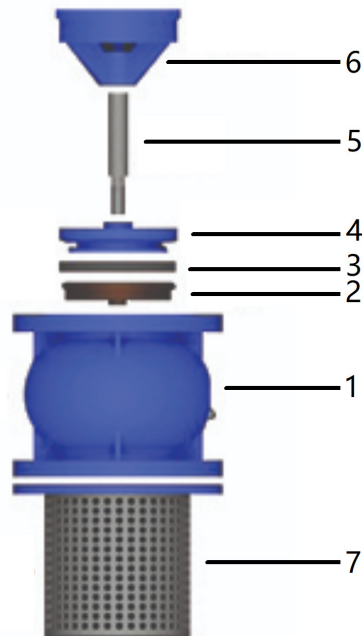
- Spring loaded foot valve for pumping stations, water treatment and supply, networks clean water distribution, irrigation, and fire protection networks.
- Foot valves are an inexpensive way to maintain prime on a single centrifugal pump.
- The Foot Valve is designed with a 10% larger flow area (including heavy stainless steel strainer) than the pipe size to insure minimal head loss.
- The foot valve shall be globe style, flanged with resilient seal against metal; provide full flow equal to valve size and shut-off silently.
- A heavy gauge 360 degree, stainless steel strainer (not plated steel) having a flow-thru area of at least three times that of the foot valve flow area shall be connected to the outside diameter of the inlet flange.
- The foot valve provides years of trouble free operation at low or high pressures.
- Full Flow Foot Valves designed to have the high quality, long wearing construction necessary for valves that are continually submerged in a wet well and not readily accessible for inspection or repair.
- The seal cannot be damaged from compression and pump prime is always assured.
- A 360 degree stainless steel strainer is provided standard with three times flow-through area of the foot valve size.
- Hydrostatic test pressure for seat: PN x 1.1 , for shell: PN x 1.5 according to EN 12266-1.



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## Material List

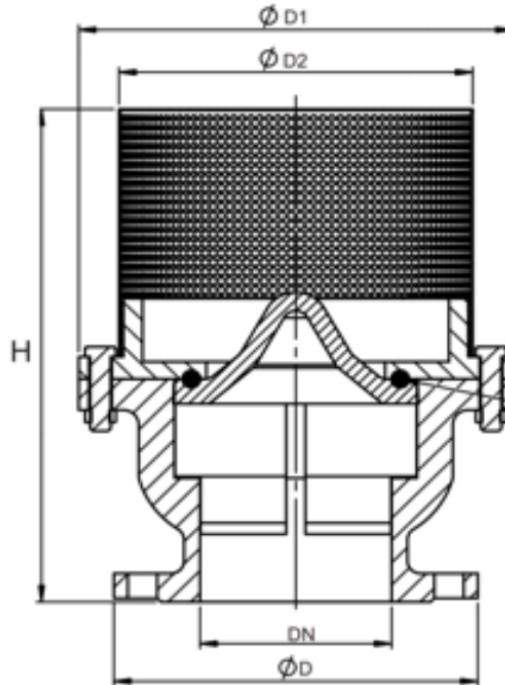


No	Part	Material
1	Main Body	GGG50 Ductile Iron
2	Seat Ring	Bronze
3	Disc Seal	EPDM
4	Disc	GGG50 Ductile Iron
5	Shaft	AISI 304 Stainless Steel
6	Shaft Centering Cap	GGG50 Ductile Iron
7	Filter	AISI 304 / 316 / 316L Stainless Steel

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## Dimensions Table



DN (mm)	50	65	80	100	125	150	200	250	300	350	400
<b>øD2</b>	180	190	210	240	280	335	365	405	505	555	675
<b>øD1</b>	77	92	127	142	188	217	282	325	420	470	520
<b>H</b>	175	215	285	315	335	410	470	500	600	750	800
<b>øD</b>	165	185	200	220	250	285	340	395	445	505	565
<b>DN Flanges</b>	125	145	160	180	210	240	295	350	400	460	515
<b>øxn</b>	ø18x4	ø18x4	ø18x8	ø18x8	ø18x8	ø22x8	ø22x12	ø26x12	ø26x12	ø26x16	ø30x16
<b>KG</b>	7	9	12	19	23	40	65	95	170	230	310