ICMIndustries
INDUSTRIES HOSE COUPLINGS AND VALVES
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Galvanized Steel Foot Valve

Part A: Introduction

Foot Valves are installed at the bottom of pump suction line, inside the water storage and are used to prime a single centrifugal pump. Since foot valves are continually submerged in the water storage and not readily accessible for inspection or repair, it is important to select a foot valve of high quality long wearing construction either brass, poly or galvanized steel.

A foot valve is operated by the flap that is lifted up off its seat by higher pressure of inlet or upstream flow or suction. When the pressure is no longer higher, gravity or higher downstream pressure will cause the disc to lower onto its seat, shutting the valve to stop reverse flow.

The main components of this foot valve include the body, flap, seat and strainer. The swing flap pivots freely on the hinge blocks. Its movement is restricted with stops that prevent damage to the inside walls of the valve. A durable NBR rubber seal is fitted to the flap for reliable service and the flap assembly is a self-leveling design to allow for wear within the seal. A quick release lever is fitted to the valve and can be remotely activated by a cable to release the water in the valve.

1. Features:

Material: Galvanized steel

Hot-dip galvanized zn according to ISO1461:2009.

Wall thickness less than 1.5mm, local coating thickness is 35 um, mean coating thickness is 45um.

Wall thickness more than 1.5mm, less than 3mm, local coating thickness is 45um, mean coating thickness is 55um

Working Pressure: 12-16bar for size above 4”

Working Temperature: From -20℃ up to +50℃

Size: 4", 6", 8"

Application: irrigation, mining and tunneling, civil engineering project, emergency water supply, dewatering and drainage

Suitable for general irrigation, rural and heavy-duty industrial applications

2. Applications:

- Irrigation systems
- Dewatering & drainage: Suction and delivery lines for site dewatering
- Bypass for water & sewer lines
- Water transfer (fresh & waste water)
- Dredging
- Mining & tunneling
- Civil engineering projects,
- Emergency water supply, such as disaster and fire control
- Sludge handling
- Conveyance for powder or granular materials
- Road construction
- Oil industry applications: Onshore/ offshore drilling
- Well point
- Pumps & pumping stations
- lurry & liquid manure
- Building & road construction

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3. Media:

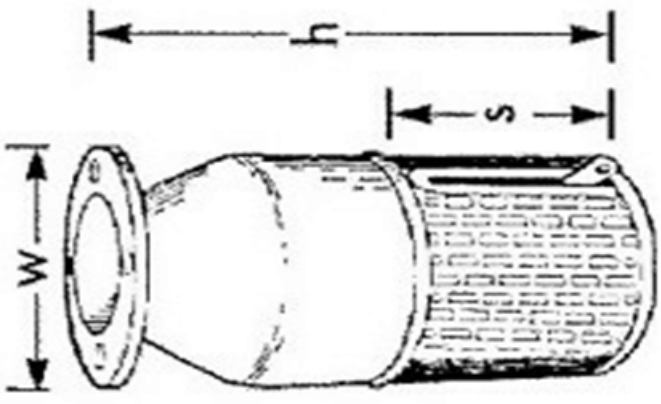
- Potable drinking water
- Waste water
- Compressed air and gases
- Exhaust fumes
- Sludge
- Motar
- Bentonite
- Crude oil and oil products
- Pneumatic loading of powder and granular materials, such as gains and feeds and so on.

4. Advantage:

- Fast, flexible, strong & safe
- High performance couplers & fittings
- Quick Release (ie release the water so you can drain the suction pipe/hose of water)
- High Flow
- Hot dipped Galvanized Steel
- Durable EPDM rubber seal
- Built in object strainer (suitable for filtering large items such as rocks, large sticks etc). The holes in the screen are 20mm long x 8mm high or 11mm round hole.
- Heavy duty construction designed to offer years of trouble-free service

Part B: Dimensions:

1. Galvanized Foot Valve dimension data sheet



Size (in)	H(mm)	W(mm)	S(mm)	Mesh Hole OD (mm)	Kg/pc
4”	400	215	180	20x8mm or 11mm Round	8
6”	460	280	200	20x8mm or 11mm Round	20
8”	560	335	280	20x8mm or 11mm Round	44

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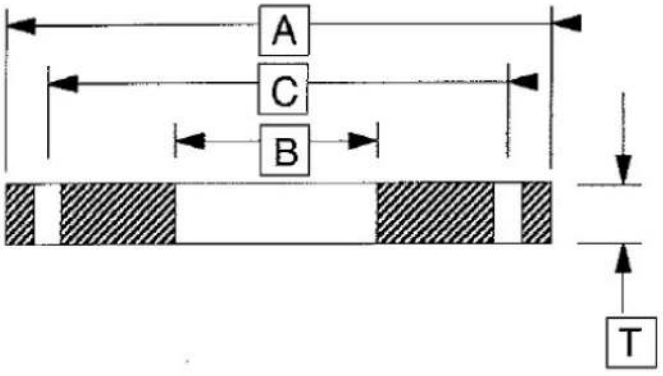
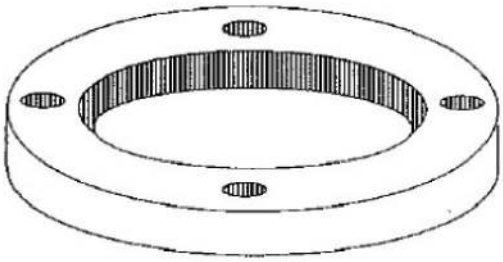
2. Flanges Dimension data Sheet





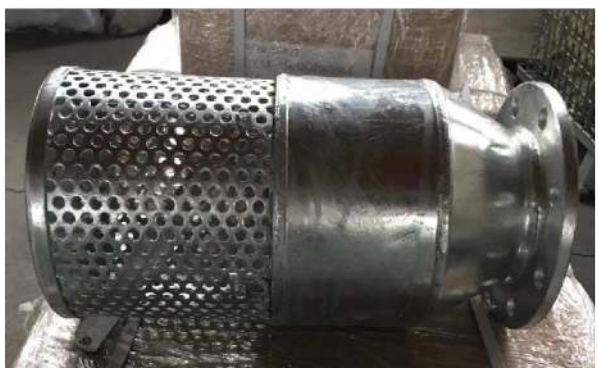
Size	A	B	T	C	No. of Bolt Holes	Dia of bolt Holes	Kg/pc
2”	150	50	10	114	4	18	1.1
3”	185	80	11	146	4	18	1.7
4”	215	100	13	178	8	22	2.7
6”	280	150	17	235	8	22	5.3
8”	335	200	19	292	8	24	7.5
10”	405	250	22	356	8	24	11.9

Other standard flange is available

Part C: Pictures





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