

FOOT VALVE USER MANUAL

PRODUCT INFORMATION

Valve Name	: FOOT VALVE	
Nominal Diameter (DN)	: 32 – 500 mm	
Material	: <u>(Cast – Ductile Iron)</u> ,	<u>(Cast Steel)</u>
Nominal Pressure (PN)	: DN32-150 / 10bar	DN32-150 / 16bar
	DN200-300 / 6bar	DN200-300 / 10bar
	DN350-500 / 4bar	DN350-500 / 6bar
Working Temperature	: -10°C ...+80°C	

APPLICATION AREAS

- Cold and hot water systems
- Drinking water and irrigation systems
- Firefighting systems
- Pumping stations
- Storage tanks
- Pipe lines

***NDFT is 120 microns unless otherwise specified by the purchaser.
(for coated valves)**

INSTALLATION AND OPERATION INSTRUCTIONS OF THE FOOT VALVE

The foot valves, positioned at the beginning of the suction pipe, are check valves suitable to filter any impurity from the pipeline. The foot valves have a good performance, thanks to the internal shape of the valve, that closes easily. The foot valves are easy to be mounted and to be used. The valves are used to prevent reverse flow and maintain the prime on pumps.

The seat and seal are rigidly held in the bottom of the valve. As the flow enters the valve from the bottom, the disc is lifted by the flow and to the open positions. Upon pump shut down, the return flow and weight of the disc close the valve rapidly.

*Before installation, the pipeline must be cleaned off all dirt such as sand, dust, welding residues etc.

*The pipeline should be free of tension before installation commences.

*Keep the foot valve in a clean environment and do not remove the protective caps until installation.

*Verify the foot valve to be suitable for the specifications of medium, such as maximum operating pressure, temperature, corrosiveness and abrasiveness.

*Suitable gasket material should be put between foot valve flanges and counter flanges.

*Mount one side of the foot valve. The flow direction is vertical flow up. Orient the valve so that the basket is in the wet well or water source

*Do not apply extra pressure to the system more than nominal operation pressure of the valves.

*After operating more than an hour, the valves should be controlled leaking or not. If there is a leakage from the gaskets, tighten the bolts or change the gaskets.

*For detail information, please look at the DIKKAN catalogue of product or get in touch with our company.

*Repairing and changing components cannot be done by end user. These shall be done by manufacturer

MAINTENANCE

Foot Valve requires no scheduled lubrication or maintenance. If flow is stopped or pump cavitation becomes apparent, it may be necessary to flush debris from the valve inlet by backflushing the valve or physically cleaning the outside surfaces of the basket.

WARNING: The basket flange cannot be removed with water pressure on the valve, or the seat may become dislodged causing damage or injury.

DISASSEMBLY

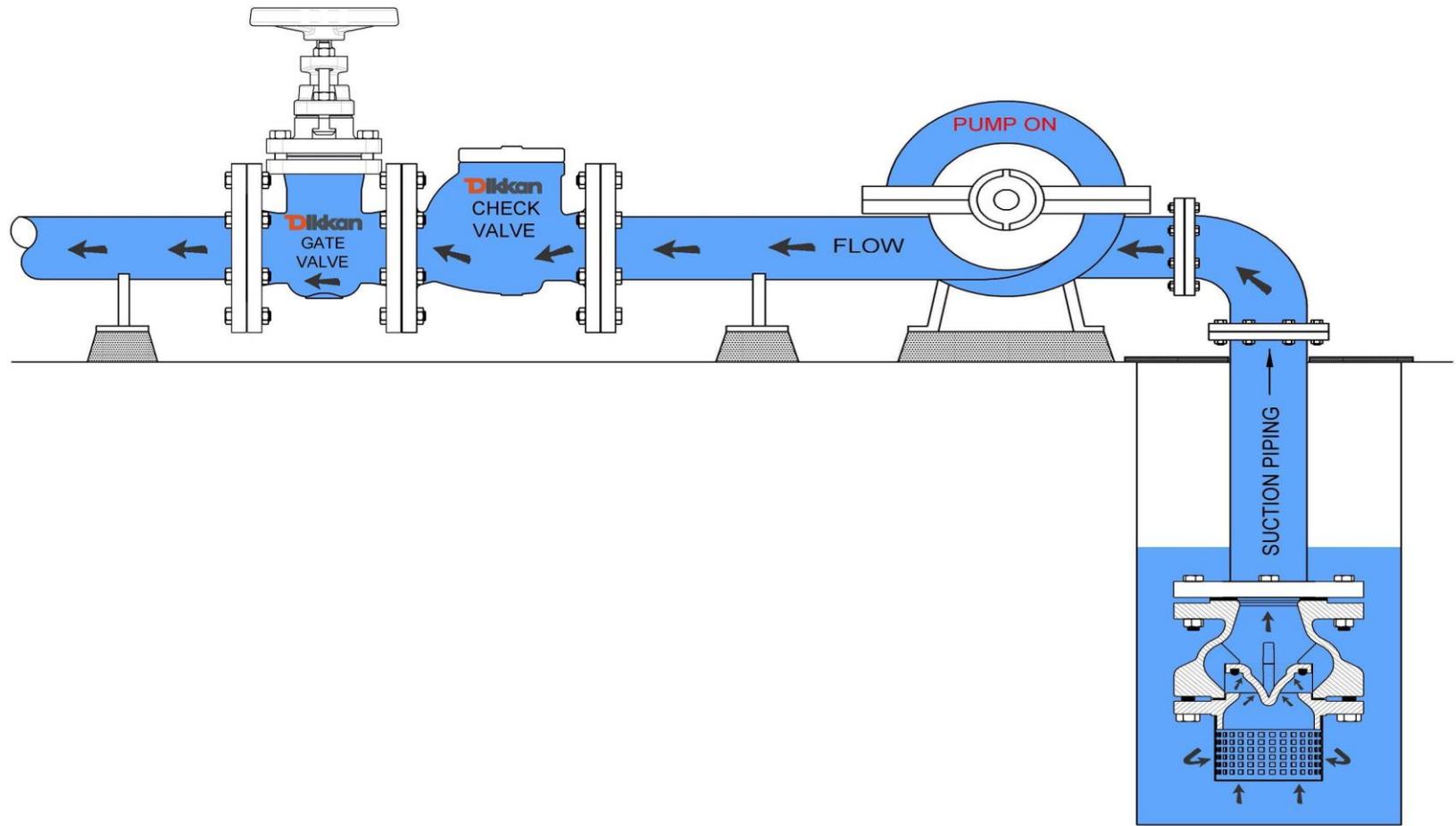
WARNING: The line must be drained before removing the valve or pressure may be released causing injury.

- Remove the basket screen by removing the retainer screws
- Remove the ring plate with the large bolts
- Remove the disc and inspect the seating surface for scoring or damage.
- Clean and inspect parts. Replace oring and gasket as necessary and lubricate parts with grease

REASSEMBLY

All parts must be clean and gasket surfaces should be cleaned with a stiff wire brush in the direction of the serrations or machine marks. Gaskets and oring should be replaced during reassembly.

- Install disc in body
- Install ring plate with gasket and with large flange bolts
- Install basket assembly to ring flange with screws
- Install completed valve in pipeline with outlet flange and full-faced gasket.



Typical installation Foot Valve