



NR-030

PN 16



Check Valve

Description

The NR-030 swing-type non-return valve allows for one-directional flow and prevents the return flow of the liquid to its source. These check valves are designed for installation on horizontal pumps, boosters and filtration systems, preventing return flow and providing for quiet closure and total sealing of the sealing face. The length of the NR-030 swing-type non-return valve was designed to allow installation between two flanges of short spacing, allowing for installation of the check valve in small and narrow systems.

Applications

- Potable water systems
- Reservoirs
- Pumps and pump stations
- Lateral pivots
- Swimming pools
- Filtration systems

Specifications

The NR-030 check valve is available in the following diameters:
 2" – 16" with the extended shaft
 2" – 8" with the short shaft
 Working pressure: 16 bar (250 psi)
 Maximum working temperature: 90°C.
 Fusion-bonded epoxy coating.
 Surge-resistant cast iron body.
 Cast steel St.37 disc with natural rubber flap seal, allowing for sealing at low pressures.
 Internal parts made of bronze and/or stainless steel.
 - NR-030 check valve can be installed either horizontally or vertically (only when the flow is in an upward direction).

Selection

- Counterweights can be installed for quiet closure.
 - A limit switch can be installed to alert and protect the pump during the start of water flow and its cessation.
 - An extended shaft can be installed, enabling the addition of a counterweight and/or limit switch.
 - For maximum suitability, it is recommended to define the fluid composition and requirements of the system.
- When placing an order, please specify the model no., size, working pressure, flange standard and request for any special coatings. A device which transmits a contact signal to the control panel, monitors the flow status of the non-return valve, and provides for a smooth and trouble-free operation of the system.

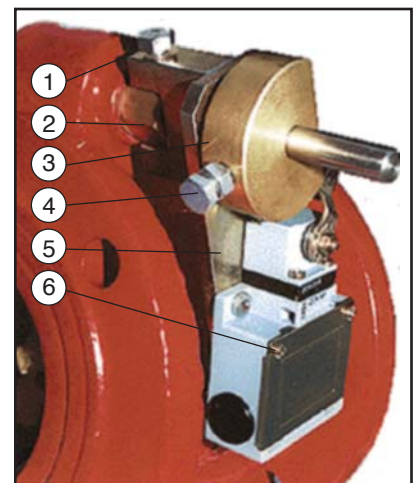
Limit Switch Model LS

The device is made up of a stationary part, fastened to the body of the non-return valve and a single moving part, fastened to the shaft of the valve, which moves with the opening/ closing of the non-return valve. The limit switch for the non-return valve can be obtained in diameters 2"- to 16".

- LS-010 Model 2"-4"
- LS-015 Model 6"-16"

Instructions for Installation and Usage

The base (5) of the limit switch and the limit switch itself (6) should be installed on the brass plug (2) of the non-return valve, being firmly fastened there by the bolt (1) located on the side of the base. The activator (3) should be installed on the shaft of the non-return valve, with the straight part pointing at the limit switch gate pulley. The activator can be adjusted in such a way that it activates the limit switch according to the desired opening / closing angle of the non-return valve. Once it is properly set, the activator is fastened to the shaft with the fastening bolt (4).

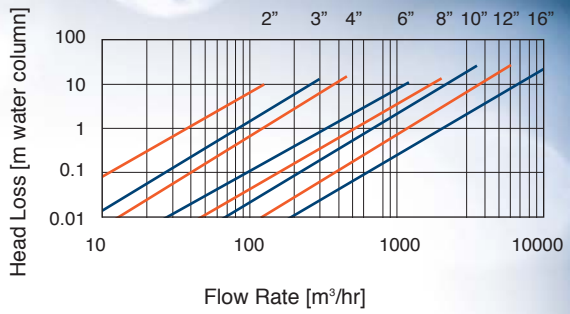


PARTS LIST AND SPECIFICATION

No.	Part	Material
1.	Body	Cast Iron ASTM A48 CL.35B
2.	Key	Stainless Steel SAE 304
3.	Arm	3"-4" Stainless Steel ASTM A 744 CF8 6"-16" Bronze ASTM B62 B271 C83600
4.	Headless Bolt	Stainless Steel SAE 303
5.	Flap	3"-4" Stainless Steel ASTM A 744 CF8 6"-16" Bronze ASTM B62 B271 C83600
6.	Flap Seal	Natural Rubber
7.	Rollpin	Stainless Steel SAE 304
8.	Disk	3"-4" Stainless Steel ASTM A 744 CF8 6"-16" Steel ST.37
9.	Slotted Nut	Stainless Steel SAE 304
10.	Sealing Ring	Bronze ASTM B62 B271 C83600
11.	Counter Weight	Steel DIN ST.37
12.	Shaft	Stainless Steel SAE 303
13.	O-Ring	BUNA-N
14.	Plug	Brass ASTM B124
15.	SEAL	Fiber

* Washer -16" only Stainless Steel SAE 303

HEAD LOSS



DIMENSIONS AND WEIGHTS

Nominal Size	Dimensions mm				Weight Kg.
	A	B	C	D	
3" (80mm)	156	202	255	250	11.6
4" (100mm)	176	253	290	300	14.1
6" (150mm)	223	332	405	400	29.5
8" (200mm)	250	409	480	500	44.0
10" (250mm)	266	468	570	600	64.0
12" (300mm)	304	531	650	650	85.5
16" (350mm)	388	619	700	700	168.0

