

193D

Non-return foot valve
TJO System

Technical Data Sheet



Description

This non-return foot valve is designed for clear water pumping systems with substantial flow, requiring large valves for supply systems. It guarantees excellent hydraulic performance.

- Operates in any position
- Reliable, robust, simple
- Minimum head loss
- Closing system : tripod formation with hydraulic profile release spring
- Sealing ensured by a pliable O-ring on a rigid seat
- Long axial guiding
- Non incrustable materials



193D

Non-return foot valve - TJO system

| DN | | PFA in bar | PS in bar | | | | Cat. | Ref. | Weight Kg |
|-------|----|---------------|-----------|----|----|----|------|-----------------|--------------|
| " | mm | | L1 | L2 | G1 | G2 | | | |
| 3/8 | 12 | 10 | 10 | 10 | x | x | 4.3 | 149B3619 | 0,014 |
| 1/2 | 15 | 10 | 10 | 10 | x | x | 4.3 | 149B3620 | 0,020 |
| 3/4 | 20 | 10 | 10 | 10 | x | x | 4.3 | 149B3621 | 0,035 |
| 1 | 25 | 10 | 10 | 10 | x | x | 4.3 | 149B3622 | 0,059 |
| 1 1/4 | 32 | 10 | 10 | 10 | x | x | 4.3 | 149B3623 | 0,074 |
| 1 1/2 | 40 | 10 | 10 | 10 | x | x | 4.3 | 149B3624 | 0,111 |
| 2 | 50 | 10 | 10 | 10 | x | x | 4.3 | 149B3625 | 0,142 |

Important notice :

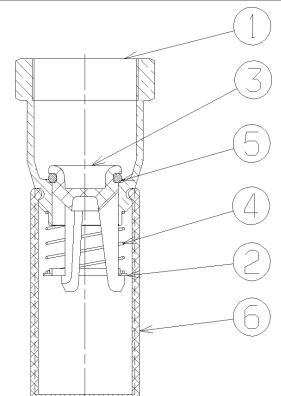
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our website www.socla.com or by simple request from our sales department.

Technical features

| | |
|-------------------------------------------------|--------------------|
| Operating temperature | -10 °C to 60 °C |
| Permissible operating pressure (PFA) in water | See table above |
| Maximum permissible pressure (PS) other mediums | See table above |
| Connection | Female, BSP or NPT |
| Mediums | Clear liquids |

Nomenclature and materials

| N° | Description | Materials | EURO | ANSI |
|----|----------------|-----------------------------|-------------|----------|
| 1 | Body | POM (polyacetal) | | |
| 2 | Ring | POM (polyacetal) | | |
| 3 | Closing system | DN 3/8" - 1/2" Others DN | | |
| 4 | Spring | | X10CrNi18-8 | AISI 302 |
| 5 | Seal | FKM | | |
| 6 | Strainer | PE (polyethylene) | | |





International construction Standards :

Directive 2014/68/UE

Thread connection NFE 03-005 ISO228

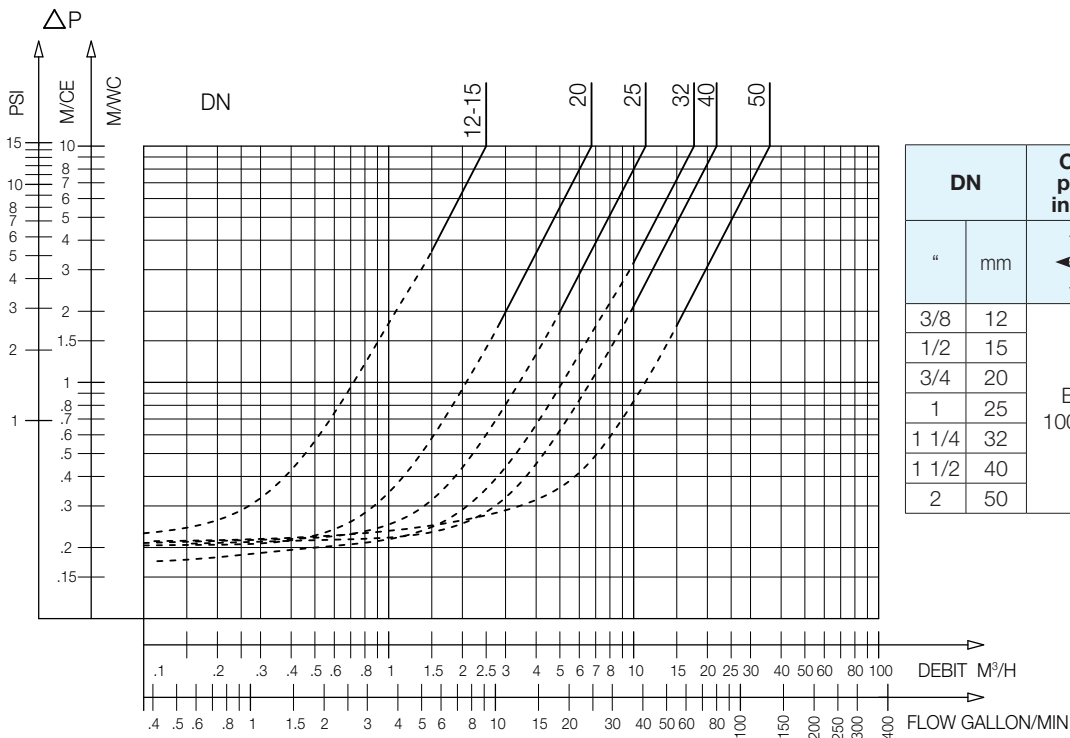
Application

Construction, pumping, hydrocarbons.

Operation

Direction for use :

- Solid line : Valve completely open
- Dotted line : opening stage of valve



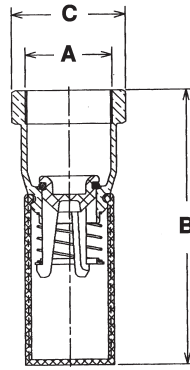
| DN | | Opening pressure in mm/CE | Kv | ζ |
|-------|----|---------------------------|-------------------|---------|
| " | mm | | m ³ /H | |
| 3/8 | 12 | | 2,67 | 4,65 |
| 1/2 | 15 | | 2,34 | 14,72 |
| 3/4 | 20 | | 6,73 | 5,65 |
| 1 | 25 | | 11,20 | 4,97 |
| 1 1/4 | 32 | | 17,64 | 5,38 |
| 1 1/2 | 40 | | 21,81 | 8,6 |
| 2 | 50 | | 35,94 | 7,73 |

193D - Headloss chart

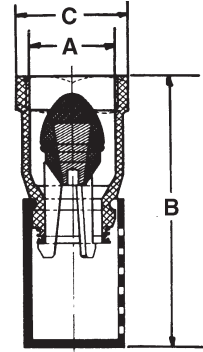
Sizing

| A | | B | C |
|--------|-------|------|----|
| " | mm | mm | mm |
| 3/8 | 12/17 | 59 | 23 |
| 1/2 | 15/21 | 59 | 24 |
| 3/4* | 20/27 | 64,5 | 30 |
| 1 | 26/34 | 78,5 | 37 |
| 1 1/4* | 33/42 | 97 | 47 |
| 1 1/2* | 40/49 | 148 | 53 |
| 2* | 50/60 | 179 | 66 |

***193D**
 Ø 3/4 - 1 1/4
 1 1/2 - 2



193D
 Ø 3/8 - 1/2
 1



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