

# 190X

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



## 190X

Non-return foot valve - TJO system

DN	PFA in bar	PS in bar				Cat.	Ref.	Weight Kg	
		L1	L2	G1	G2				
3/4	20	10	10	10	x	x	4.3	<b>149B1118</b>	0,120
1	25	10	10	10	x	x	4.3	<b>149B1119</b>	0,119
1 1/4	32	10	10	10	x	x	4.3	<b>149B1120</b>	0,360
1 1/2	40	10	10	10	x	x	4.3	<b>149B1121</b>	0,530
2	50	10	10	10	x	x	4.3	<b>149B1122</b>	0,850

### Important notice :

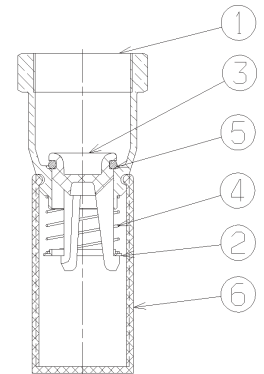
The indicated pressure for the different categories of fluids (L1/L2/G1/G2) is under no condition a guarantee of use. Therefore, it is essential to validate the use of products under given operating conditions. The operating instructions are available on our website [www.socla.com](http://www.socla.com) 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
Mediums	Clear liquids, hydrocarbons

### Nomenclature and materials

N°	Description	Materials	EURO	ANSI
1	Body	Stainless steel	X5CrNi18-10	AISI 304
2	Ring	POM (polyacetal)		
3	Closing system	POM (polyacetal)		
4	Spring	Stainless steel	X10CrNi18-8	AISI 302
5	Seal	FKM		
6	Strainer	PE (polyethylene)		





### International construction Standards :

Directive 2014/68/UE

Thread connection NFE 03-005 ISO228

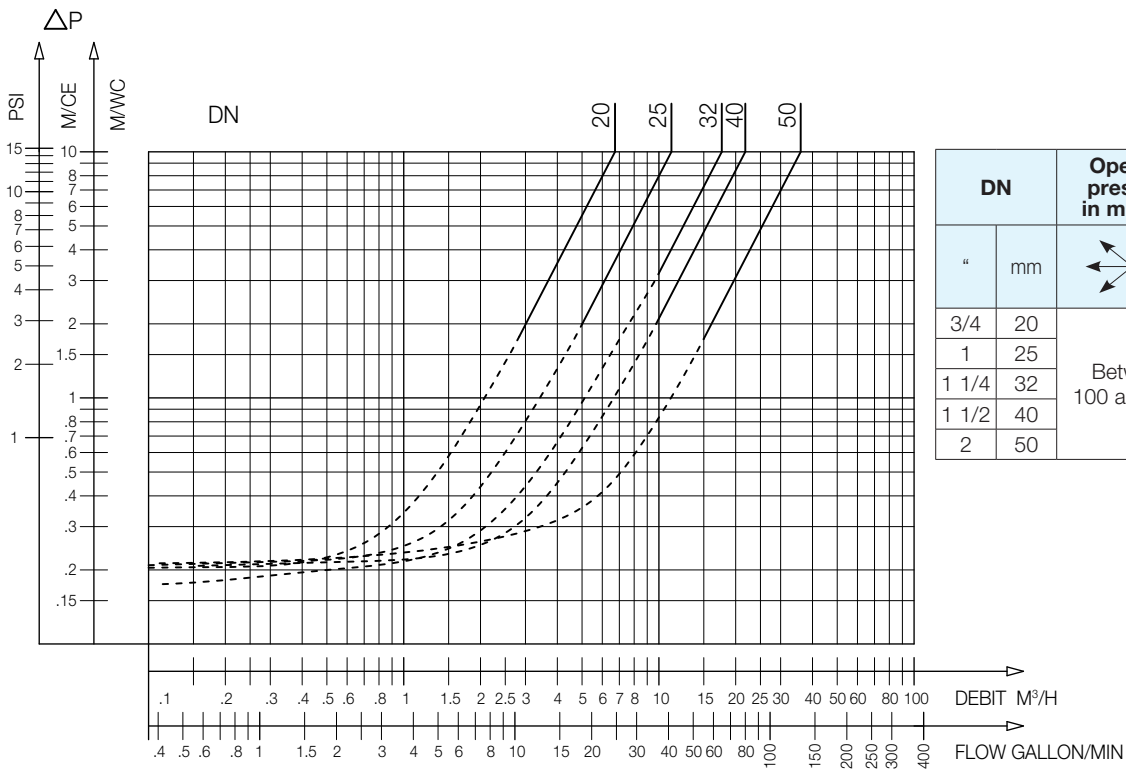
## Application

Industry, chemical applications and hydrocarbons.

## Operation

### Direction for use :

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



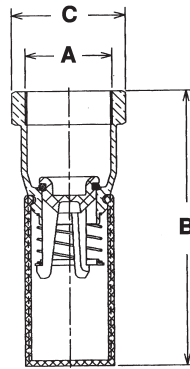
DN		Opening pressure in mm/CE	Kv	ζ
"	mm		m³/H	
3/4	20	Between 100 and 250	6,73	5,65
1	25		11,20	4,97
1 1/4	32		17,64	5,38
1 1/2	40		21,81	8,6
2	50		35,94	7,73

190 X - Headloss chart

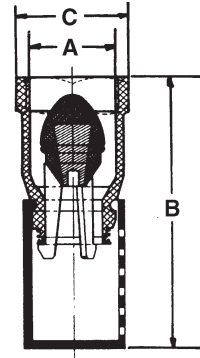
## Sizing

A		B	C
"	mm	mm	mm
3/4*	20/27	75	31
1	26/34	97	36
1 1/4*	33/42	119	47
1 1/2*	40/49	148	53
2*	50/60	179	66

**190X\***  
 Ø 3/4 - 1 1/4  
 1 1/2 - 2



**190X**  
 Ø 1



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