

SOCCLA



Non return

SOCCLA





SOCCLA, MANUFACTURER ...

DESIGN, INNOVATE

- Specialist in the control of fluids in movement, our R&D team integrates in its studies all networks parameters... Assisted by a powerful data processing, served by the most recent softwares, its objective is the design of innovating products, research of competitiveness and reliability, in respect of environment.



TEST, MEASURE

- Beyond theoretical data-processing and technical calculations, Socla integrates in Virey-le-Grand one of the most important hydraulic laboratory.

This tool, among the most powerful ones in Europe, consolidates Socla in its position of expert in the control of fluids in movement.



PRODUCE

- Our specialised units, ISO 9001 certified (2000 version) work on recent conception multiposts CNC machines, driven by a sophisticated CAD system.

A particular care is taken to selection and transformation of raw materials, in the respect of ISO 14001 standard.



SERVICE

- Since Virey-le-Grand, near Chalon-sur-Saône in France, the Socla logistic centre delivers all orders around Europe, quickly, guaranteeing the efficient service required by the customer



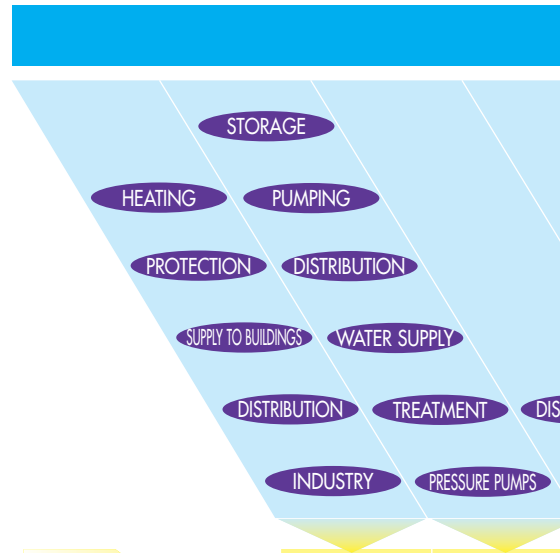
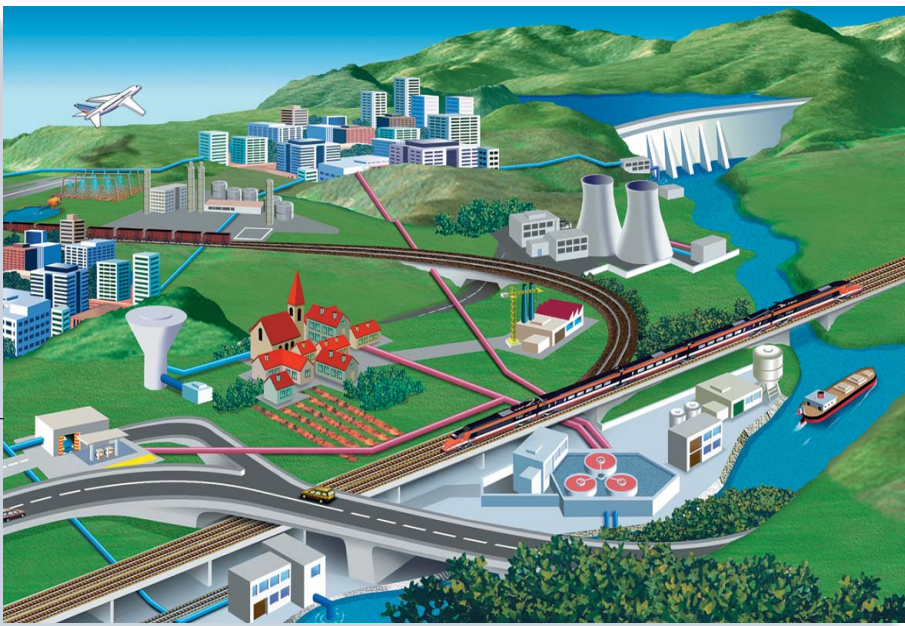
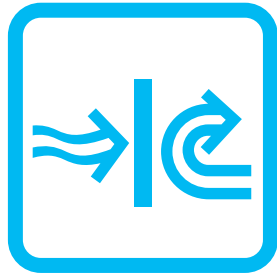
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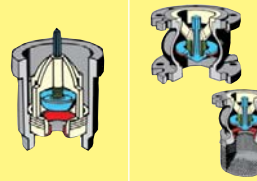
Most of our models are approved by Veritas (France); specific approvals in different countries are given alongside information on each type of valve.

Certificates of approval for the materials used in manufacture can be supplied on request.
An additional charge may be applied for NF 1024- 31B certificates.

HOW TO SELECT



CLOSING SYSTEM



01

02

FLUID TYPE	CLEAR	●	●
	SLURRY		
	GAS	●	●
	STEAM		
	AGGRESSIVE		●
	FOOD & DRINKS*	●	●
OPERATING POSITION			
T °C		60°/80°	80°/140°
PN (PS acc. to PED)		10	16/25/40
CONNECTIONS	THREADED	1/4" - 2 1/2"	2 1/4" - 8"
	FLANGED		40 - 500 mm
	OTHER		

THERE IS NO UNIVERSAL CHECK VALVE

The check valve might appear to be a simple device. Broadly speaking, it functions like a door.

In truth, the valve has to adapt to many different kinds of fluid, to an enormous variety of installations each with their own particular constraints - mechanical, hydraulic, physical or chemical.

To help you in your selection we have listed the broad parameters within which to make your choice.

To meet your selection criteria, we offer 11 types of closing system, each system being more or less compatible.

A CHECK VALVE



WATER SUPPLY



SUPPLY TO BUILDINGS



DISTRIBUTION



PRESSURE PUMPS



PROTECTION



HEATING

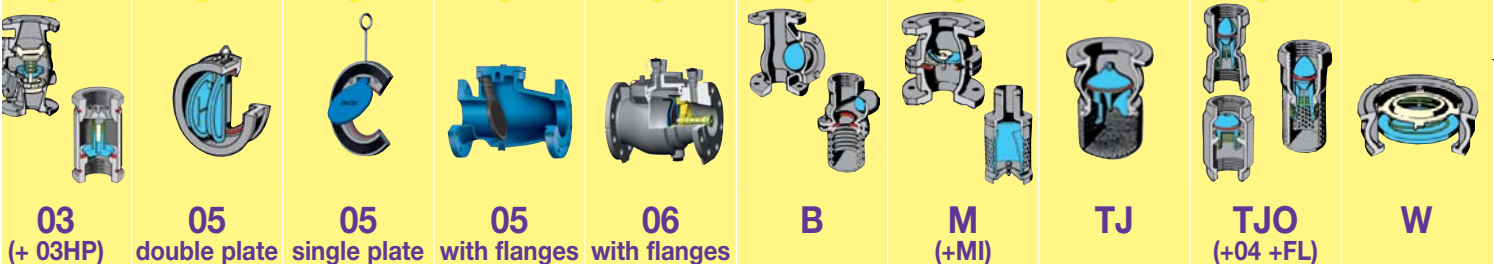
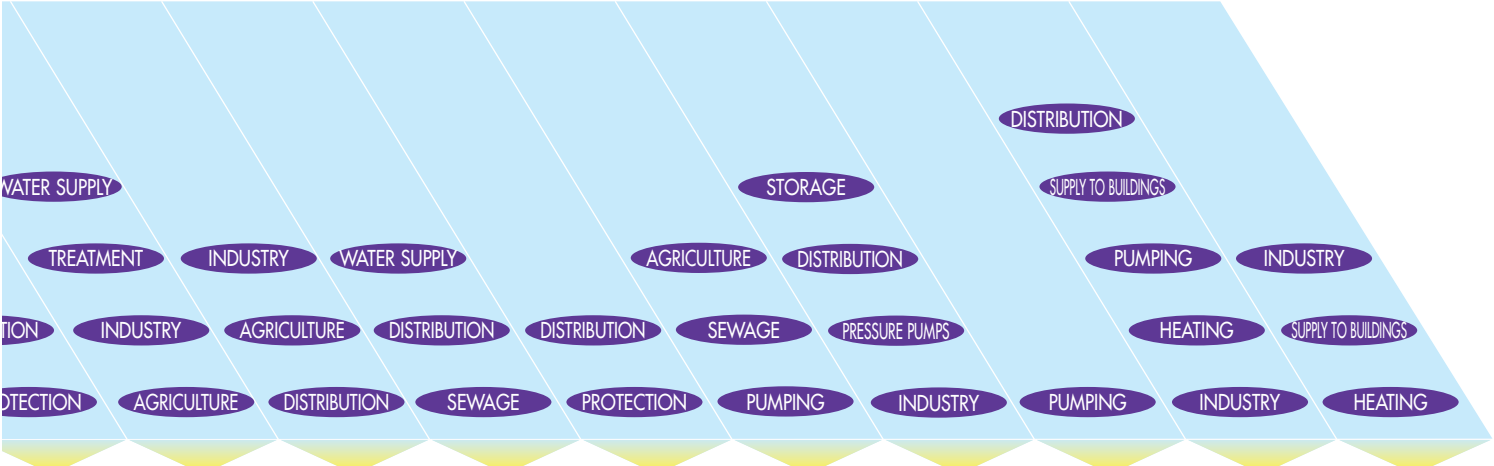


AGRICULTURE



INDUSTRY

APPLICATIONS



●	●	●	●	●	●	●	●	●	●
●	●		●	●	●	●			●
									●
	●		●	●	●			●	●
●	●	●		●		●			●



80°/90°	100°/130°	110°/180°	70°	90°	60°/150°	60°/100°	60°	60°/80°	100°/350°
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16	16/25	16	16	16	10	6(MI), 16(M), 25(M)	6/10	10	16/40
----	-------	----	----	----	----	---------------------	------	----	-------

1/2" - 2"					1" - 3"	3/8" - 4"		1/4" - 2"	1/2" - 2"
0 - 250 mm			65 - 300 mm	50 - 150 mm	50 - 350 mm	40 - 200 mm Non return 40 - 300 mm foot valve	200 - 600 mm		
	Wafer 50 - 600 mm	Wafer 40 - 600 mm							Wafer 15 - 200 mm

* Some finishes are appropriate for drinking water or can be adapted for alimentary use. Please consult us.

NON-RETURN VALVES

01 SYSTEM with double (axial and lateral) guide



- Excellent sealing for high or low pressure
- Antipollution approved in the majority of European countries
- Many special versions available

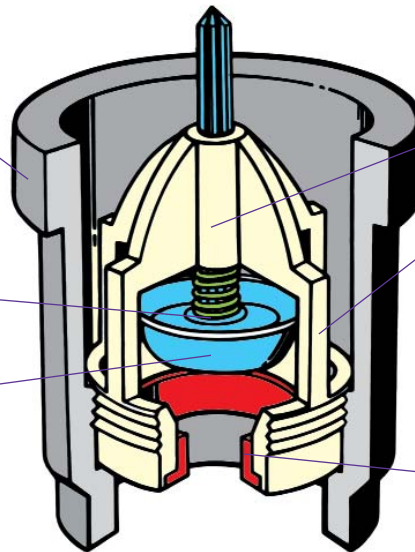
Many different casing shapes available for many different applications

Anti-incrustation materials

Many types of connections

Return spring allowing the valve to function at all angles

Special hydraulic profile for minimum energy loss



Double (axial and lateral) guide ensures a perfect centring of the closing system on the seat

Lipped joint guaranteeing an excellent watertightness at both high and low pressure

The closing system of the 01 series non-return valves has been developed to meet the requirements of NF P 43 007 and 43 008 anti-pollution standards. The characteristics of EA and EB valves are governed by these standards.

Overall, these valves are watertight under a column of 3 cm of water and have been subjected to endurance tests of 80,000 cycles with water at 65° C and a pressure of 10 bar.

NF type EA valves have 2 x 1/4"bosses.

EB valves do not necessarily have the two bosses.

Installation requirements are explained in the corresponding technical details.



01 SYSTEM

231/601/601V/601P

3/8" to 2" valves with brass casings, female/female

PN 10 - Guide and closing system in POM (polyacetal) or PPO (polyphenylene oxide), nitrile rubber (NBR) seal, stainless steel spring, NBR seal for sanitation, heating circuits (anti-thermo syphon), general installations, protection of pumps for burners (601 V 3/8" and 1/2" with FKM fluorised rubber seal) and some gas.

Temperature 80°C



251/251S FOR WATER METERS

Male/female valve with brass casing, equipped with two drilled and plugged bosses, guide and closing system in POM (polyacetal), seal in NBR (nitrile) with captive nut to ensure easy dismantling. Valves with elbow connections available for use in corners.

251S version : length 58mm

Available in different versions :

- 251 PU : with drain cock
- 251 PP : with cylindrical drainpoints
- 251 SPU : short version with purge
- 251 SPP : short version with cylindrical drainpoints
- 251 CC : with POM plugs

Température : 80°C



221B/271/291 FOR PROTECTION OF

DRINKING WATER NETWORKS

Female/female valves with brass casing and two drilled bosses, guide and closing system POM (polyacetal) : 221B and 291 NF seal in EPDM, spring in stainless steel.

The bosses allow watertightness checks and the draining of the installation.

• 271 : male/male brass casing with union nut connection, guide and closing system in PAR (polyarylamide) or POM (polyacetal)

Temperature : 80°C



2231/2211 FOR PROTECTION

OF DRINKING WATER NETWORKS

• 2231 : double valve female/female of 231 type with boss between the two valves.

Temperature : 100°C

• 2211 : double valve with compression connections, same style.

Temperature : 80°C



281 FOR SANITATION

Male/female connection also exists in 2 other versions :

• 281 C : in chrome-plated brass

• 281 P : in POM (Polyacetal)

Temperature 281 C : 80° C - 281 P : 65° C



901/911/921/931 INSERT CHECK VALVES

Insert check valves with casing in POM (polyacetal), or PA12 (polyamide) or brass.

901 type valves are designed to be inserted at the outlet of water meters ; the other types are designed to be inserted in a variety of other systems.

• 901-911 :

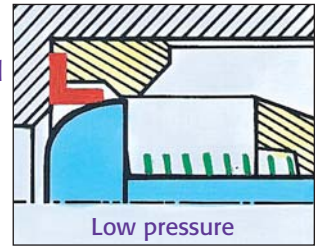


Temperature : 80°C and 95°C for 931 type

Guaranteed sealing under all conditions

with the lipped seal

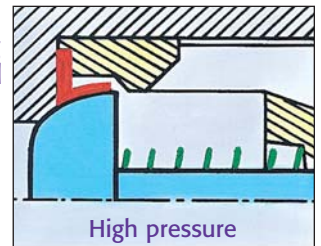
At low pressure water tightness is achieved by the contact between the closing system and the edge of the I-shaped seal



Low pressure

At high pressure the sealing takes place between the closing system and the I-shaped seal all along its internal length.

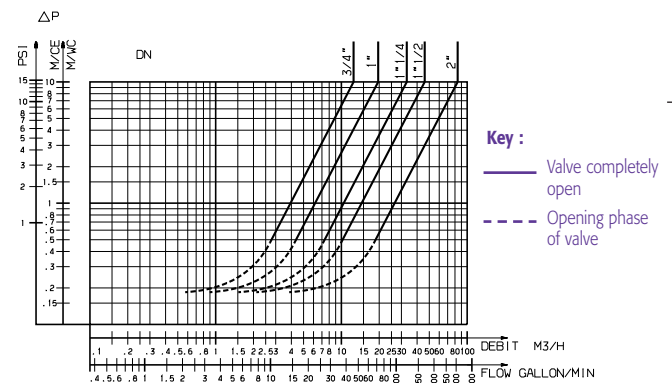
The closing system is then in the closed position on the casing, safeguarding the seal and allowing re-opening at a low pressure (no risk of blocking).



High pressure

Headloss chart

(Type 221 B)



The 01 system range

221 B	BRASS	THREADED F/F	3/4 to 2"
231	BRASS	THREADED F/F	3/8 to 2"
291 NF	BRASS	THREADED F/F	1/2 to 2"
601	BRASS	THREADED F/F	3/8 to 2"
601 V	BRASS	THREADED F/F	3/8 to 2"
2231	BRASS	THREADED F/F	1/2 to 2"
201	BRASS	THREADED F/M	1/2 to 1"
251	BRASS	THREADED F/M	3/4 to 2"
251 PP	BRASS	THREADED F/M	3/4 to 2"
251 PU	BRASS	THREADED F/M	3/4 to 2"
251 CC	BRASS	THREADED F/M	3/4 to 1"
251 S	BRASS	THREADED F/M	3/4
251 SPU	BRASS	THREADED F/M	3/4
251 SPP	BRASS	THREADED F/M	3/4
281	BRASS	THREADED M/F	3/8 to 1"
281 C	CHROMED BRASS	THREADED M/F	1/2 to 3/4"
281 P	PLASTIC	THREADED M/F	1 1/4"
241	BRASS	THREADED M/M	1/4 to 3/4"
261	BRASS	THREADED M/M	3/4 to 1"
271*	BRASS	THREADED M/M	3/4 to 2 1/2"
211	BRASS	COMPRESSION FITTING	8 to 28"
2211	BRASS	COMPRESSION FITTING	15 to 28"
901	PLASTIC	INSERT	3/8 to 1"
911	PLASTIC	INSERT	C15
921	BRASS	INSERT	C15 to 50
931	BRASS	INSERT	C15 to C25

F = Female ; M = Male - * Thread Ø

NON-RETURN VALVES AND FOOT VALVES

O2 SYSTEM simple guiding



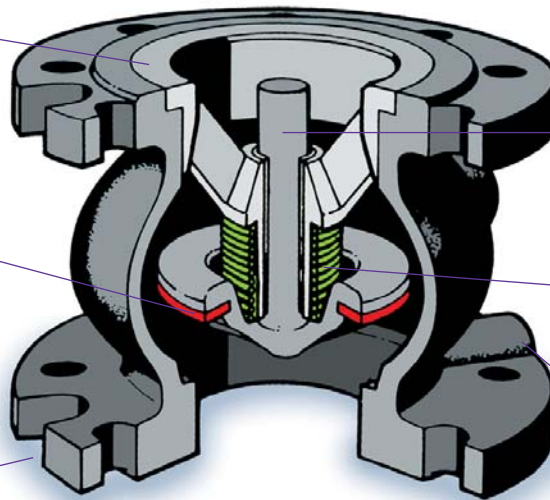
- Valve with very wide range of applications
- Prevents water hammering
- Noiseless operation
- A quality, value for money choice

Removable guide

Hydraulic shape means very little energy loss

Excellent sealing ensured by flat NBR (nitrile) seal

Notch provided for cable to submerged pump



Bronze guide-ring

Sliding bronze closing system ensuring bronze on bronze contact

Stainless steel spring allowing system to function in any position

Bosses drilled on request for by-pass or controlled evacuation

6

The O2 system represents the best combination of hydraulic efficiency, robustness, sealing and price for use with clear liquids : pumping, circulation, supply, general pipeline networks.

This versatile range is available from 40 to 500 mm in both non-return and foot valve versions, and is particularly useful where there may be a risk of water hammer.



02 SYSTEM simple guiding

402/202

Diameter 40 to 500 mm
PN 16 drilled PN 10
The most universal of Soda's valves for the protection of pumps, general pipeline networks, pressure pumps, water distribution.
Temperature 100°C
Flanged or threaded

Available in many types :

- **402V** : with FKM flat seal (100° C)
- **402TTP**
202TTP : all anti-incrustation PTFE coating, internal/external
- **402S** : in GS cast iron for high pressures (40 bar)
- **402RR**
202RR : with polyamide anti-corrosion coating
- **422** : seat and closing system in bronze to resist corrosion



402Z/402X FOR AGGRESSIVE LIQUIDS

- **Bronze** : for aggressive substances and environments
- **Stainless steel** : for industrial processes, food industry, etc...

- PN : 25
- **402Z** approvals :
- **402X** approvals :



402B/202B PROTECTION OF WATER SUPPLY

Valves with drilled and plugged bosses, allowing water quality to be checked, the circuit to be drained and water-tightness to be checked, or the installation of a by-pass.
PN : 16

- **402B** approvals :



412/212 FOR PUMPING

For drilling and mounting on submersible pumps, space-saving design.

Available in versions :

- **Ductile iron** : **412S** and **212S** for pressures up to 40 bar - PN : 40
- **Bronze** : **412Z** and **212Z** for aggressive environments and salt water - PN : 25

- **412** approvals :
- **212** approvals :



302/102 FOR PUMPING

Foot valve with strainer in polyamide or galvanised steel, available in a variety of materials (bronze, ductile iron, etc...)
PN : 10 (125 to 400 mm) - PN : 16 (50 to 100 mm)

Available in versions :

- **302P** & **102P** with PP (polypropylene) strainer
Temperature : 100° for 302 & 80° for 302 P
- **302** approvals :



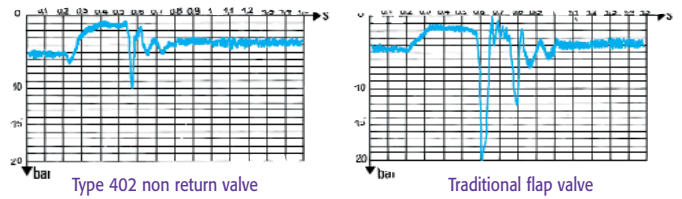
882 FOR WATER DISTRIBUTION AND BOOSTING PUMPS

Between flanges, very compact, casing and head in ductile iron - PN : 40

- **882** approvals :



Dynamic characteristics of valve closure

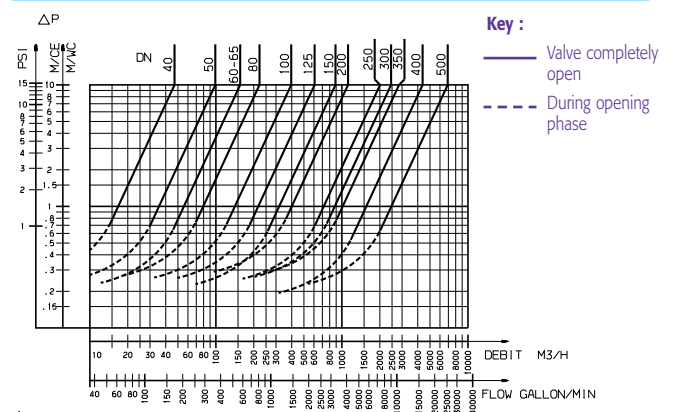


Overpressure measured downstream of 150mm check valves when the pump stops.

The valves can carry a load of 50m/wc.

Output 150m³/h (according to tests carried out by the CETIM)

Headloss chart (Type 402)



The 02 system range

NON-RETURN VALVES

202	CAST IRON FGL 250	THREADED F/F	2 1/2" to 4"
202 B	CAST IRON FGL 250	THREADED F/F	2 1/2" to 4"
202 RR	CAST IRON FGL 250 + RILSAN	THREADED F/F	2 1/2" to 4"
202 TT	CAST IRON FGL 250 + Teflon	THREADED F/F	2 1/2" to 4"
202 TTP	CAST IRON FGL 250 + Teflon	THREADED F/F	2 1/2" to 4"
202 V	CAST IRON FGL 250 + FKM seal	THREADED F/F	2 1/2" to 4"
202 W	CAST IRON FGL 250	THREADED F/F	2 1/2" to 4"
202 X	STAINLESS STEEL +FKM seal	THREADED F/F	2 1/2" to 4"
202 Z	BRONZE	THREADED F/F	2 1/2" to 4"
212	CAST IRON FGL 250	THREADED M/F	2 1/2" to 8"
212 S	CAST IRON GS 400-15	THREADED M/F	2 1/2" to 8"
212 Z	BRONZE	THREADED M/F	2 1/2" to 8"
402	CAST IRON FGL 250	FLANGED	40 to 500 mm
402 B	CAST IRON FGL 250	FLANGED	40 to 500 mm
402 S	CAST IRON GS 400-15	FLANGED	40 to 500 mm
402 TTP	CAST IRON FGL 250 +PTFE	FLANGED	50 to 500 mm
402 V	CAST IRON FGL 250 + FKM seal	FLANGED	40 to 500 mm
402 W	CAST IRON FGL 250	FLANGED	40 to 500 mm
402 X	STAINLESS STEEL AISI 304 + FKM seal	FLANGED	40 to 500 mm
402 Z	BRONZE	FLANGED	40 to 400 mm
412	CAST IRON FGL 250	FLANGED	125 to 300 mm
412 S	CAST IRON GS 400+15	FLANGED	125 to 300 mm
412TT	CAST IRON FGL 250 + TEFLON	FLANGED	125 to 300 mm
412 X	STAINLESS STEEL + FKM seal	FLANGED	125 to 300 mm
412 Z	BRONZE	FLANGED	125 to 300 mm
422	CAST IRON FGL 250 +BRONZE	FLANGED	50 to 400 mm
882	CAST IRON FGS 400.15	BETWEEN FLANGES	65 to 250 mm

FOOT VALVES

102	CAST IRON FGL 250	THREADED F	2 1/2" to 8"
102 P	CAST IRON FGL 250	THREADED F	2 1/2" to 4"
102 PV	CAST IRON FGL 250 + FKM seal	THREADED F	2 1/2" to 4"
302	CAST IRON FGL 250	FLANGED	50 to 400 mm
302 P	CAST IRON FGL 250	FLANGED	50 to 100 mm
302 PV	CAST IRON FGL 250 + FKM seal	FLANGED	50 to 100 mm
302 X	STAINLESS STEEL AISI 304 + FKM seal	FLANGED	50 to 400 mm
302 Z	BRONZE	FLANGED	50 to 100 mm
312	CAST IRON FGL 250	FLANGED	125 to 400 mm
322	CAST IRON FGL 250 +BRONZE	FLANGED	50 to 400 mm

F = Female ; M = Male

NON-RETURN VALVES

03 SYSTEM with axial guide



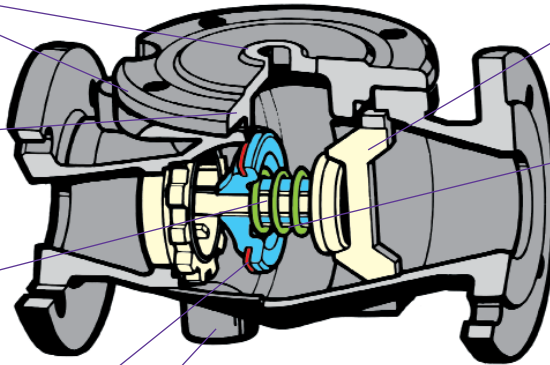
- **NF (French national standard) and antipollution approved in most European countries**
- **Perfect water tightness at high and low pressures**
- **Easy to maintain**

1/2" diameter bosses with test cock allowing checks and sampling

Inspection cover for checks and replacement of internal parts without dismantling the device

Axial guide at the head of the closing system ensures perfect centring guaranteeing water-tightness under 3 cm of water column whatever the angle of the valve

Water tightness guaranteed by flat seal



Drain plug

Removable locking system allows the entire closing system to be replaced without special tooling

Return spring allows the device to function in any position

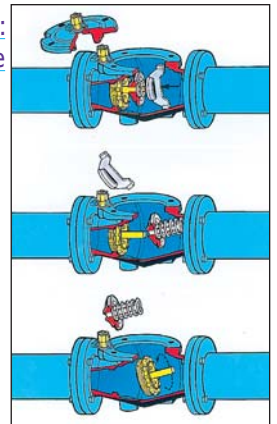
Seat and guide in bronze for anti-corrosion

Ease and performance : Easy on-site maintenance

1 - Remove top access cover and draw the stop guide away from its two location points (in direction of arrow)

2 - Remove the stop guide

3 - Remove the whole spring, closing system and seal. If necessary remove the seat by unscrewing



This non-return valve which is certified by the French NF antipollution mark is designed to protect drinking water systems against polluted water returning to the supply, particularly when sited after the meter. Patent pending. This valve should be chosen wherever perfect water-tightness and on-site dismantling are required, together with excellent hydraulic performance and little energy loss.

423 RE FOR DISTRIBUTION WITH BOOSTING PUMPS

Diameter 40/50 to 250 mm
PN 16 drilled PN 10
(possibility of PN 16 drilling)
Can be mounted with 4 holes or 8 holes for 80 mm diameter
40 and 50 diameter bronze casing ; above this cast iron casing FGL 250
Temperature : 90°C



Approved :

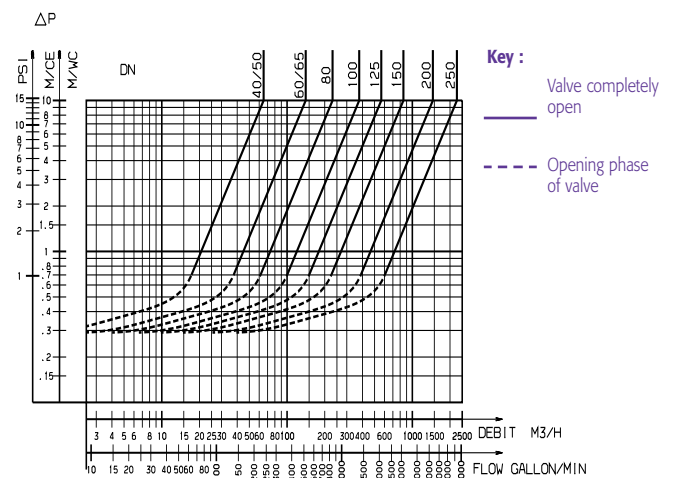
EB 223 FOR DISTRIBUTION WITH BOOSTING PUMPS

Can also be used in general and sanitary circuits
Casing and closing system in brass
PN 16
Diameter 1/2" to 2"
(threading 3/4 to 2" 1/2 male/male)
Connection by union nipple
Temperature 80°C



Approved :

Headloss chart (Fig. 423)



The 03 system range

223	BRASS	THREADED M/M	3/4" to 2 1/2"
423 RE	BRONZE OR CAST IRON FGL 250	FLANGED	40 to 250 mm

F = Female ; M = Male

NON-RETURN VALVES

03HP SYSTEM with axial guide

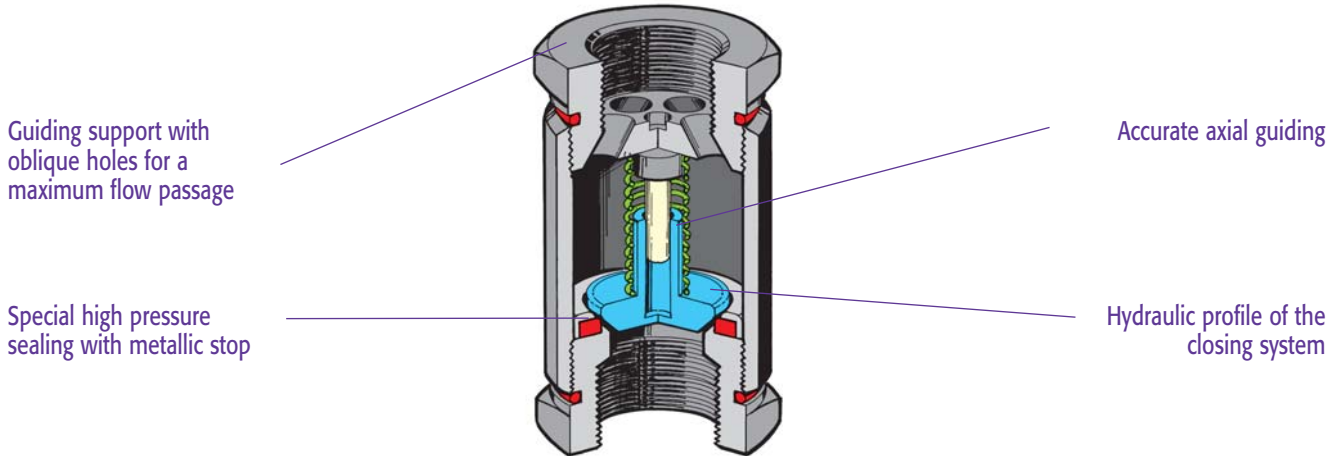


DISTRIBUTION



PROTECTION

- High mechanical and hydraulic performances
- Adapted materials
- Various industrial applications



233 FOR HIGH PRESSURE FLUIDS

Diameter 1/4 up to 2"
 High pressure check valve in carbon steel and seal in NBR (nitrile)
 Opening pressure 0,5 bar
 For high pressure fluids, water, hydrocarbons, gas, general industrial applications...
 Female/female connection
 Temperature : 110°C



233

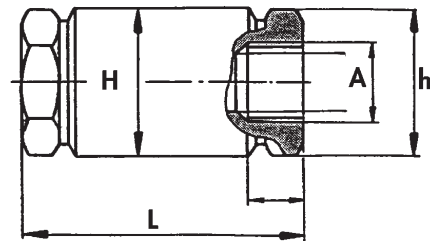
233X FOR HIGH PRESSURE FLUIDS

Diameter 1/4 up to 1 1/2"
 High pressure check valve in stainless steel AISI 304 and PTFE & FKM seal.
 Opening pressure 0,5 bar
 For high pressure fluids, water, hydrocarbons, gas, general industrial applications...
 Female/female connection
 Temperature : 230°C



233X

TECHNICAL INFORMATION



	A	L	H	h	Weight
"	mm	mm	mm	mm	kg
1/4	6	73	24	22	0,17
3/8	10	76	30	27	0,28
1/2	15	77	38	32	0,41
3/4	20	92	48	41	0,78
1	25	109	57	50	1,26
1 1/4	32	123	70	65	2,12
1 1/2	40	141	80	70	3,07
2	50	164	100	90	5,54

The 03 HP system range

233	CARBON STEEL	THREADED F/F	1/4" to 2"
233X	STAINLESS STEEL 304	THREADED F/F	1/4" to 1 1/2"

F = Female ; M = Male

NON-RETURN VALVES

05 SYSTEM with double plate (between flanges)



SEWAGE



TREATMENT



INDUSTRY



IRRIGATION

- Excellent hydraulic performance
- Wide range : from 50 to 600 mm
- Compact

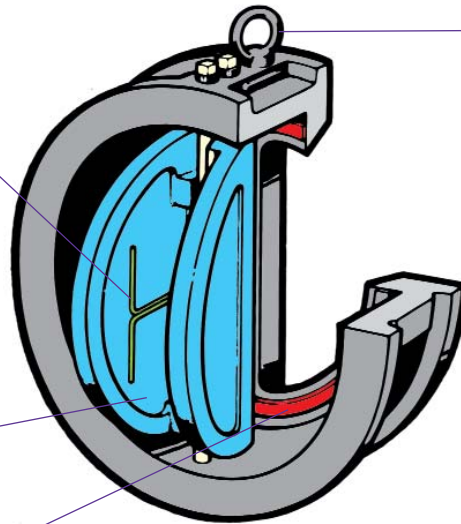
Watertightness ensured by the spring which pushes against the two plates, maintaining pressure on the valve seat seal

Very little energy loss

Gradual opening controlled by double contact spring

Stainless steel or bronze plates

Vulcanised NBR seal in mouth of the valve seat



Lifting ring for easy positioning pushes against the two plates, maintaining pressure on the valve seat seal

Can be installed horizontally or vertically facing upwards.
Can be adapted for different connection types :
PN 10 - 16 - 25 - ASA B 16-1
125 Class and ASA B 16-5
150 series

This system is perfectly adapted to installations where limited space is available (NF E 29377) but where excellent hydraulic performance is necessary, and especially where the dimensions are large.



05 SYSTEM

895

Diameter 50 to 300 mm
 Mounted between flanges PN 10 - PN 16
 Temperature 100°C
 Valve with cast iron casing FGL 250,
 plates stainless steel AISI 304
 spring stainless steel, EPDM seal,
 extra-watertight
 Approvals :   ACS



895

895V

FOR HYDROCARBONS AND INDUSTRIAL APPLICATIONS

With FKM or equivalent seal
 Temperature 130°C
 Other features as 895

Approvals : 



895V

805

FOR SEAWATER AND NAVAL CONSTRUCTION

Casing in FGL 250 cast iron with
 aluminium bronze plates, seal EPDM/NBR (nitrile)
 spring stainless steel
 Diameter 50 to 600 mm
 PN 16
 Temperature 100°C
 Approvals :  ACS



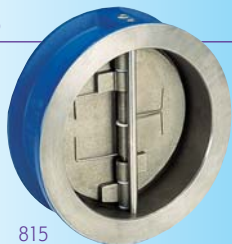
805

815

FOR GENERAL CIRCUITS

Valve with ductile iron casing FGS 400-15
 and aluminium bronze plates,
 seal EPDM/NBR, stainless steel spring
 Diameter 50 to 600 mm
 PN 25
 Temperature 100°C
 Equally suitable for sea water and naval
 construction


Mounted between PN 25 flanges but can be mounted
 between PN 16 flanges for installations with higher pressure
 Approvals :  ACS



815

825

FOR INDUSTRIAL PROCESSES

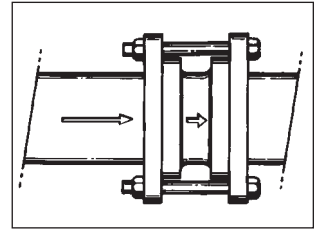
Valves with stainless steel casing
 and plates AISI 316, FKM seal,
 stainless steel spring PN 25
 but can be mounted between PN 16
 flanges for very high performance installations
 Diameter 50 to 350 mm
 Temperature 130°C
 Approvals : 



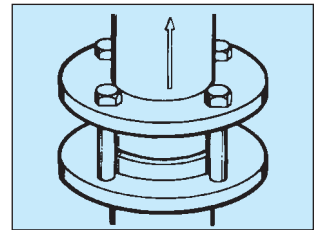
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Installation precautions :

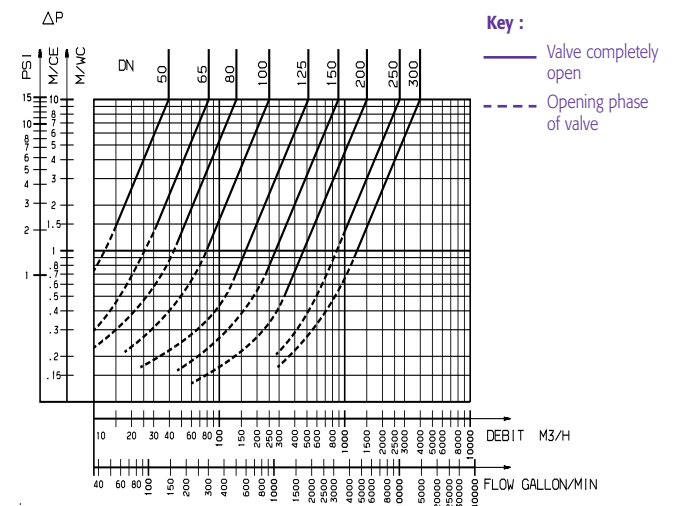
1° case : horizontal pipe-work, the arrow must point in the direction of flow, the axis of the valve must be vertical.



2° case : vertical pipework : the arrow must point in the direction of upward flow.



Headloss chart (Type 895)



The 05 system range

805	CAST IRON FGL 250	BETWEEN FLANGES	50 to 600 mm
815	CAST IRON FGS 400 15	BETWEEN FLANGES	50 to 600 mm
825	STAINLESS STEEL 316	BETWEEN FLANGES	50 to 350 mm
895	CAST IRON WITH STAINLESS STEEL PLATES		50 to 300 mm
895 V	CAST IRON WITH STAINLESS STEEL PLATES		50 to 300 mm

NON-RETURN VALVES

05 SYSTEM with single plate (between flanges)



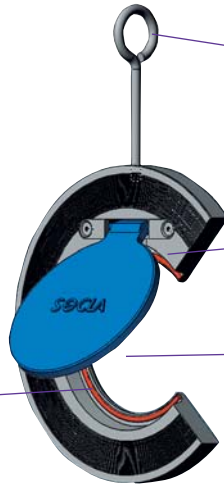
- Space-saving
- Simple and reliable
- Competitive price



This range of valves is the obvious choice where simplicity and low cost are the priorities

Compact

Seal incorporated in casing



Lifting ring

Stainless steel axis, fixed by screws

Hinged, zinc-coated steel plate

Installed horizontally or vertically facing upwards

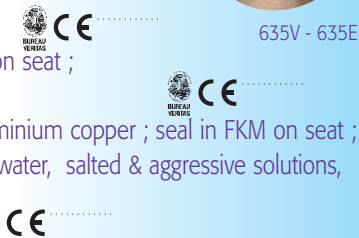
635V - 635E

DN 40 to 300 mm
Between flange PN 10-16
Extra-flat valve for water distribution & irrigation

• **635V** body & plate in zinc plated steel ; seal in FKM on seat ; temperature 150°C

• **635E** with seal in EPDM on seat ; temperature 110°C

• **696V** body & plate in aluminium copper ; seal in FKM on seat ; temperature 150°C for sea water, salted & aggressive solutions, general industrial circuits



627V - 627E FOR GENERAL AND INDUSTRIAL CIRCUITS

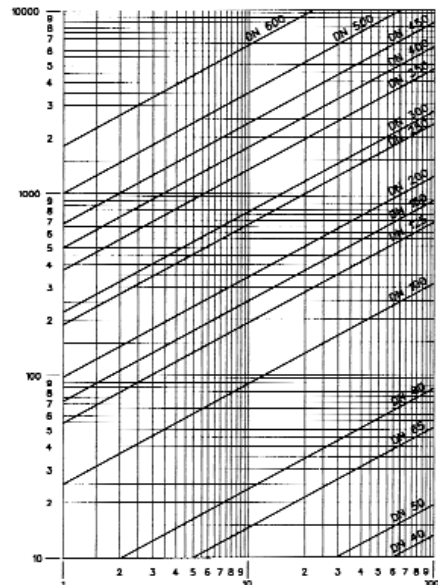
DN 40 to 300 mm
Between flange PN 10-16
Extra-flat valve for water distribution & irrigation, hydrocarbons, industrial processes

• **627V** body & plate in 316 stainless steel seal in FKM on seat ; temperature 150°C

• **635E** with seal in EPDM on seat ; temperature 110°C



Headloss Chart



The single plate system range

635 V	ZINC-PLATED STEEL	FKM seal	40 to 300 mm
635 E	ZINC-PLATED STEEL	EPDM seal	40 to 300 mm
627 V	STAINLESS STEEL	FKM seal	40 to 300 mm
627 E	STAINLESS STEEL	EPDM seal	40 to 300 mm

NON-RETURN VALVES

05 SYSTEM single plate (with flanges)



WATER SUPPLY

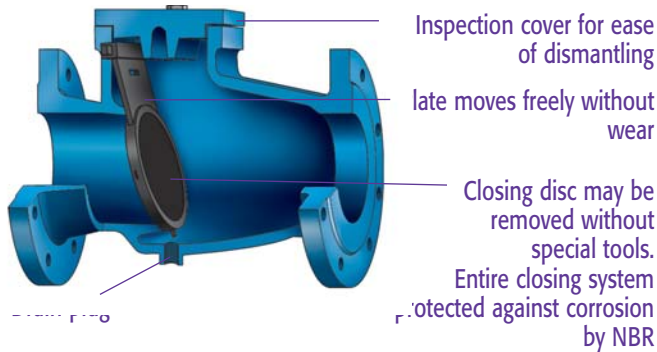


DISTRIBUTION



WASTE WATER

- Simple, strong construction
- Wide range of applications for all kinds of liquids
- Effective, reliable operation



Inspection cover for ease of dismantling
 Plate moves freely without wear
 Closing disc may be removed without special tools.
 Entire closing system protected against corrosion by NBR

Plate tucked away when open and may be lifted by external screw if required.

405

Diameter 65 to 300 mm
 PN 16 standard drilling PN 10, PN 16 possible
 Temperature 70°C
 Casing in ductile iron FGS 500.7
 Length DIN 3202-F6
 Plate and hinge entirely coated in NBR (nitrile)
 Bolts in galvanised steel

- Excellent hydraulic performance because the plate tucks away completely.
- Unrestricted passage out through the valve means that it can be used for all kinds of water including waste and sewage.
- Integral coating of closing system with nitrile NBR guarantees toughness and long life.
- Plate angled at 15 degrees on the valve seat to ensure closure.



06 SYSTEM with flanges



WATER SUPPLY



DISTRIBUTION



WASTE WATER

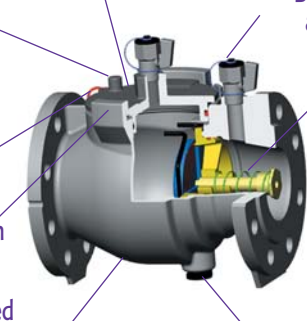
- NF (French national standard) and antipollution in most European countries
- Perfect water tightness at high and low pressure
- Easy to maintain



Inspection cover for checks and replacement of internal parts without dismantling the device

Stud for moving the cover without need of a particular tool
 Padlock

Bayonet system to open the cover rapidly. System patented by Danfoss Socla



Bosses with test cock allowing checks and sampling

Return spring

Axial guide at the head of the closing system

Watertightness guaranteed by flat seal

Removable locking system allows the entire closing system to be replaced without special tooling

Drain plug

EA 426

DN 50 to 150 mm
 PN10,
 Temperature 65°C

- Casing in ductile iron with external and internal epoxy coating equipped with 2 test cocks and 1 drain cock 1/2"
- Axial guide at the head of the closing system ensures perfect centring guaranteeing water tightness under 3 cm of water column whatever the angle of the valve
 - Bosses with test cock allowing checks and sampling

NF CE ACS



NON-RETURN VALVES AND FOOT VALVES

B SYSTEM with ball



AGRICULTURE



WASTE WATER



PUMPING

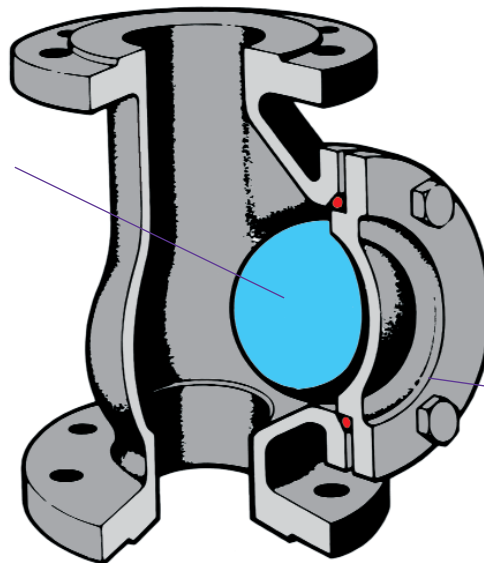
- Straightforward, sturdy design
- Ball moves aside to allow unrestricted flow
- Designed for waste water, viscous water and slurries

Anti-incrustation materials

Self-cleaning ball in specially adapted materials

Very little energy loss (unrestricted flow)

Can be installed horizontally or vertically, upwards



Inspection cover for access and maintenance

14

The closing system consists of a self-cleaning ball which is lifted by the fluid and guided to a lateral housing, completely out of the way.

This system ensures an unrestricted flow, even for liquids carrying waste materials, without risk of a blockage.

This all-purpose range is also suitable for use with aggressive liquids and in industrial processes



REGULATION

89/106/CEE DIRECTIVE

(CPD : Construction Product Directive)

Applies to building industry products and especially to their ability to ensure their function during a reasonable life time from an economical point of view. Building industry products in accordance with specific standards are CE marked with indication in ① of the corresponding construction standard.

① Reference + construction standard/CPD	Socla		Nominal diameter	① Body material or construction standard/CPD
Figure	Water	bar	Pressure PFA water	Pressure PS liquid L1/L2
Body material	Liquid 1/2 / bar		Pressure PS liquid L1/L2	
	Gas 1/2 / bar		Pressure PS gas G1/G2	Pressure PFA water
			Flange connection	
			Year of manufacture	Year of manufacture
			MADE IN FRANCE	
			Manufacturing order	Manufacturing order

B SYSTEM

408/508/50

Diameter 1" to 350 mm
PN 10

Casing in cast iron FGL 250
up to 125 mm

and ductile iron FGS 400-15 above 125 mm

• **408** : with flanges diameter 50 to 350 mm, ball coated with NBR/NR (natural rubber), temperature 60°C

• **508** : threaded female/female from 1" to 2 1/2", ball in synthetic resin, seat in NBR (nitrile)

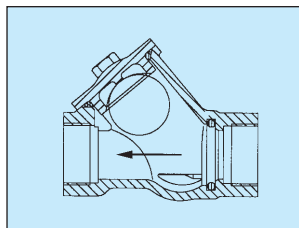
In 3" diameter, this valve has no inspection cover (ref 50)

Temperature : 60°C

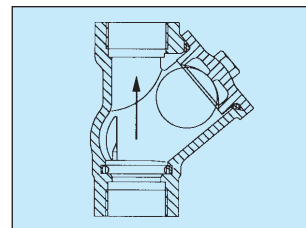
Approvals :   



Installation diagram



Horizontal :
The ball lodges
above the axis



Vertical :
pointing upwards

The arrow shows the flow direction

408D FOR DRAINAGE SYSTEMS

Equipped with a special system allowing
the ball to be lifted by a screw from the valve seat

PN : 10

Temperature : 60°C

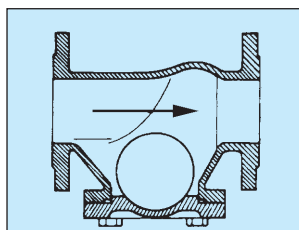
Diameters 80 - 100 - 150 - 200

To allow the release of gases and equilibration of pressure

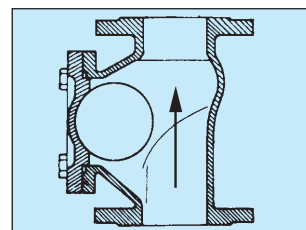
Approvals :  



Movement of the ball



Horizontal :
The ball rises
above the axis



Vertical :
The ball rises
to the high position

The arrow indicates the direction in which the liquid is rising

408X FOR AGGRESSIVE LIQUIDS

Stainless steel casing

Ball and seal FKM coated

PN : 10

Temperature : 150°C

Approvals :  



408F/508F/50F ANTI FLOODING

Valve with floating ball used to check
rising water levels and
allowing gases to be released

PN : 10

Temperature : 60°C

(See installation diagram opposite)



208P FOR PLASTIC PIPEWORK

PVC casing (female/female) coated in
NBR (nitrile), particularly suitable for
drainage systems.

PN : 6

Temperature : 60°C

Approvals :  



308/30 FOR PUMPING WASTE WATER

Flanged foot valve of 408 type with
galvanised steel strainer.

Temperature 60° C.

Threaded valve of 508 type with stainless
steel strainer

PN : 10

Temperature : 60°C

Approvals :  



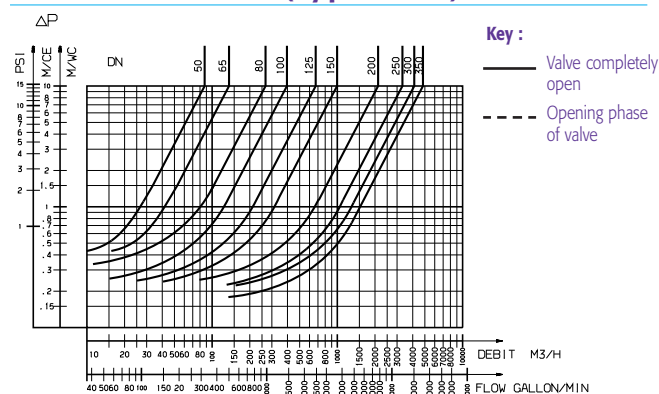
The B system range

NON-RETURN VALVES

50	CAST IRON FF	THREADED F/F	1" to 3"
50 F	CAST IRON FF	THREADED F/F	1" to 3"
208 P	PVC	THREADED F/F	1 1/4 to 2"
408	CAST IRON FT	FLANGED	50 to 350 mm
408 F	CAST IRON	FLANGED	50 to 350 mm
408 X	STAINLESS STEEL	FLANGED	50 to 350 mm
408 Z	BRONZE	FLANGED	50 to 350 mm
508	CAST IRON FGS	THREADED F/F	1" to 3"
FOOT VALVES			
308	CAST IRON FGL 250	FLANGED	50 to 350 mm
30	CAST IRON FGL 250	THREADED F/F	1" to 3"

F = Female ; M = Male

Headloss chart (Type 408)



NON-RETURN VALVES AND FOOT VALVES

M SYSTEM with membrane



STORAGE



DISTRIBUTION



BOOSTING



INDUSTRY

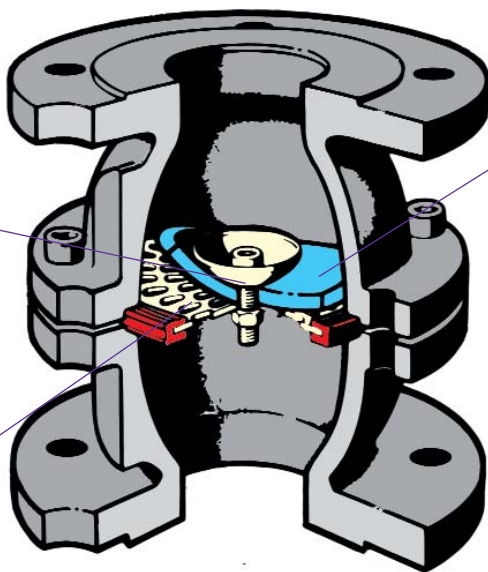
- Noiseless operation (in all positions)
- Protects against water hammering
- Very reliable
- Adapts for fluctuant flow rate

No moving mechanical part

Closing system, a flexible membrane which changes shape with the flow, held at its centre on a perforated steel seat

Water tightness ensured by the automatic closure of the membrane

Valve seat, a steel polyamide coated grille allowing flow equivalent to the nominal cross-section



The thickness and the elasticity of the membrane allow progressive opening and closing, particularly suitable for variable flow pumps and pulsatory operation

Several concentric membranes are used for wide membrane diameters. A thin-membraned version is available for special applications eg gases, vacuums

16

The M system has been conceived for installations susceptible to severe water hammering. It is very reliable and particularly quiet (no moving mechanical part, anti-incrustation closing system).

Perfectly suited for pressure pumps, fire hydrants, engine-driven pump units or electro-pump units and compressed air circuits.



M SYSTEM

407/207

Diameter 3/8" to 200 mm
 PN 16 drilled PN 10
 Cast iron casing, seat in polyamid coated steel, membrane in natural rubber
 200 mm drilled PN 16 on request
 Temperature : 60°C
 Flanges ASA on request

Also available :

- For vacuum pumps and industrial vacuum cleaners, a thin-membraned version is available in the 407/207 model
- **407 RR** : with interior/exterior anti-corrosion polyamid coating



207 : threaded F/F 3/8" to 3"

407V/207V FOR HYDROCARBONS AND INDUSTRIAL APPLICATIONS

With FKM membrane and seal ; also available for use with compressor with FKM membrane and seal
 PN : 16
 Temperature : 100°C



407V

207V

407B WITH DRILLED BOSSES

Two drilled and plugged bosses for by-pass, pressure control, emptying etc.
 PN : 16 drilled PN 10
 Temperature : 60°C



407B

407RR FOR AGGRESSIVE FLUIDS

Cast iron casing, PTFE-coated inside and outside, membrane in natural rubber
 PN : 16 drilled PN 10
 Temperature : 60°C



407RR

417 FOR HIGH PRESSURES

With cast iron casing FGL 250 ; PN 25, drilled flanges PN 25, membrane in EPDM for water distribution in high buildings ; boosting pumps and vacuum pumps
 PN : 25
 Temperature : 60°C



417

447 STANDARD LENGTH DIN 3202 F6

EPDM membrane.
 Available in two versions :
 • **447 B** with two drilled bosses
 • **447 RR** with polyamide coating
 PN : 16 drilled PN 10
 Temperature : 60°C



447

317/327/337 MI SYSTEM FOR PUMPING

Foot valve with tubular membrane in EPDM, which flexes towards the middle of the strainer on intake ; particularly suitable for irrigation pumps with flexible hoses, delivered already primed on request
 PN : 6
 Temperature : 60°C ACS
 Connections - sleeved (317) ; flanged (327) ; threaded (337)

317



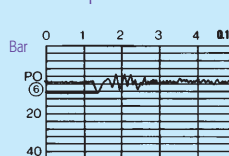
Opening pressure

On membrane non-return valves the opening regulated by the elasticity and the thickness of the membrane is very gradual and can be obtained as a result of a few centimeters of water column.

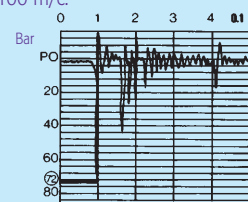
Comparative study of overpressures

Water hammer detected downstream of a valve, when a pumps stops suddenly. The non-return valve stood a load of 100 m/c.

Po : initial pressure.

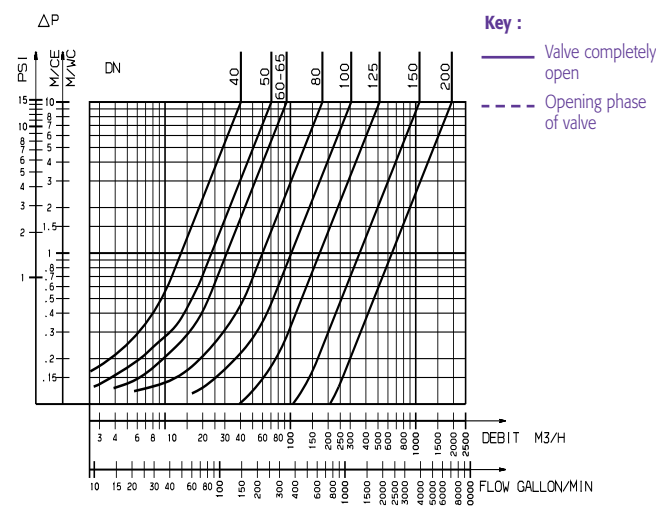


Membrane valve, 1"1/4 Ø
 Over-pressure 6 bar



Standard 1"1/4 (swing type)
 Over-pressure 72 bar

Headloss chart (Type 407)



The M system range

NON-RETURN VALVES

207	CAST IRON FGL 250	THREADED F/F	3/8 to 3"
207 V	CAST IRON FGL 250 & FKM	THREADED F/F	3/8 to 3"
407	CAST IRON FGL 250	FLANGED	40 to 200 mm
407B	CAST IRON FGL 250	FLANGED	40 to 200 mm
407TB	CAST IRON & TEFLON	FLANGED	40 to 200 mm
407RR	CAST IRON & RILSAN (POLYAMIDE)	FLANGED	40 to 200 mm
407V	CAST IRON FGL 250 & FKM	FLANGED	40 to 200 mm
417	CAST IRON FGL 250	FLANGED	40 to 150 mm
447	CAST IRON FGL 250	FLANGED	65 to 200 mm
447RR	CAST IRON & TEFLON	FLANGED	65 to 200 mm

FOOT VALVES

317	CAST IRON FGL 250	SLEEVED	40 to 300 mm
327	CAST IRON FGL 250	FLANGED	50 to 300 mm
337	CAST IRON FGL 250	THREADED F	2" to 4"

F = Female ; M = Male

FOOT VALVES

TJ SYSTEM with tripod axial guiding



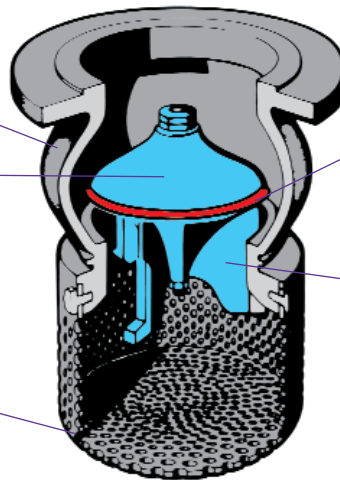
PUMPING

- Excellent hydraulic performance
- For pumping systems with substantial flow
- Robust and reliable

One-piece casing profiled for excellent hydraulic performance

Cast iron closing system, integrated in the body of the valve to guarantee low energy losses.

Galvanised steel strainer with perforated area equivalent to twice the nominal diameter



Water tightness ensured by flat seal shouldered by the valve head and a valve seat with a collar preventing any impurities from depositing on the valve seat

Designed to function in a vertical position

Tripod shaped axial guide ensures self-centring on the valve seat for water tightness



18

For clear water pumping systems with substantial flow, requiring large valves, for supply systems, irrigation, industry.



144

Valve with cast iron casing, drilled flange PN 10, guide and valve in cast iron, seal EPDM, strainer in galvanised steel, diameters 200 to 600 mm
 PN 10 up to 200 ; PN 6 from 280 to 400
 PN 4 above this strainer (may be in stainless steel)
 Temperature : 60°C



144



The TJ system range

144 CAST IRON FGL 250 FLANGES 200 to 600 mm

STRAINERS WITHOUT VALVE



PUMPING

A strainer acts as a sieve in the pumping of water of different qualities ; each type of strainer has a different application depending upon the choice of materials used in its construction.

46 FOR PUMPING AND IRRIGATION

Diameter 50 to 100 mm
Epoxy-coated cast iron flange drilled PN 10,
strainer in PP (polypropylene)
Temperature : 80°C

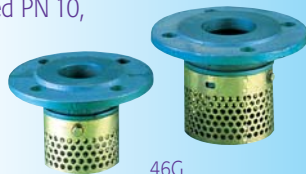


46

46G

• Diameter 50 to 400 mm
Epoxy coated cast iron flange, drilled PN 10,
strainer in galvanised steel

• Diameter 450 to 1000 mm
All in galvanised steel : strainer and flange drilled PN10,
Temperature : 100°C



46G

46X

Diameter 40 to 1000 mm
All in stainless steel AISI 304L : strainer and slim flange drilled PN10
Also available on request special versions in AISI 316L stainless steel, for use with corrosive liquids, at high temperatures and in industrial applications
Temperature : 350°C



46X

191D FOR DOMESTIC PUMPS

One piece casing and strainer in POM (polyacetal) in 3/8" and 1/2" sizes
casing PPO (polyphenylene oxide) and strainer in PE (polyethylene) for 3/4" and 1" 1/4 sizes
casing POM and strainer PE for 1" 1/2 to 2" sizes
Temperature : 60°C



191D

Nipples

Diameter 3/8 to 2"
Grooved sleeves in different plastics for connection of flexible tubes from 9/12 to 59/62 (inside diameter of tube) male connection
Temperature : 70°C



101

Diameter 3/8 to 2"
Male connection PA 6 (polyamide), strainer in AISI 304 stainless steel can be adapted for any non-return valve of the same diameter to convert it to foot valve with strainer
Temperature : 60°C



101

STRAINERS



PROTECTION

Y333 FOR PROTECTION OF PUMPS

Diameter 40 to 300 mm, with flanges PN10
Water filters in cast iron internal/external epoxy coating with strainer in stainless steel
For protection of pumps, valves, pressure reducing valve
Temperature : 150°C



ACS WRAS



Y222 FOR PROTECTION OF PUMPS

Diameter 1/2" to 2", female/female
Water filters in brass with strainer in stainless steel
For protection of pumps, valves, pressure reducing valve
Temperature : 110°C



Y666 FOR INDUSTRIAL PROCESS

Diameter 1/4" to 2", female/female
Filters in AISI 316 stainless steel. Threaded with purge plug.
For industrial process, corrosive liquids, high pressure, high temperature
Temperature : 175°C

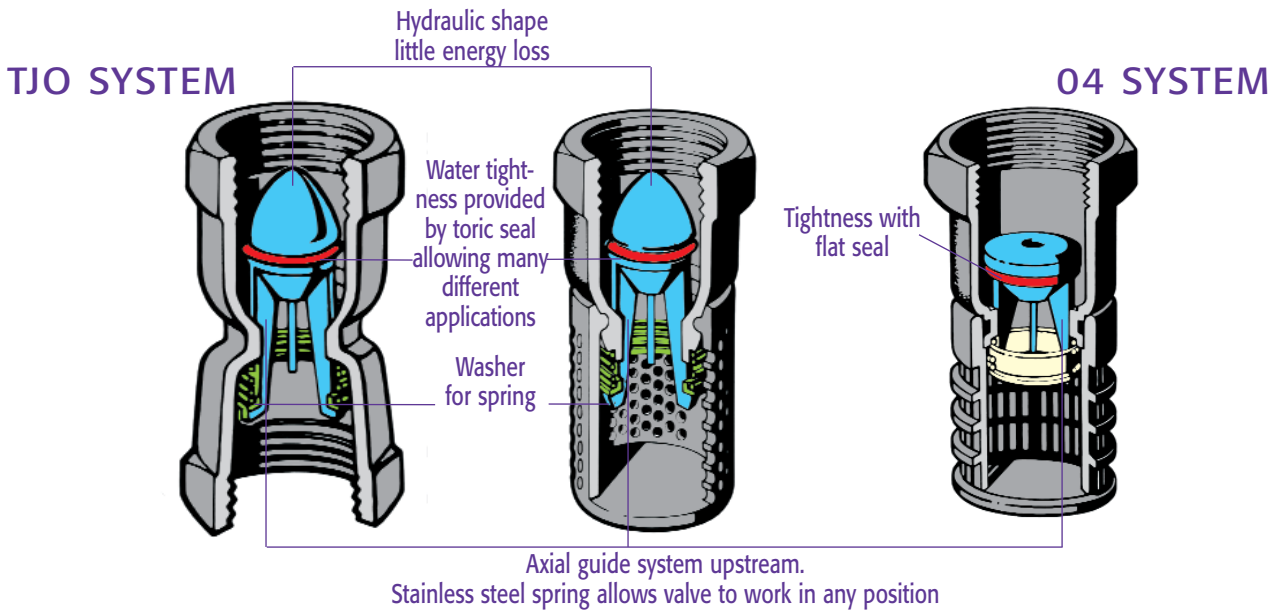


NON-RETURN VALVES - FOOT VALVES

TJO + O4 + FL SYSTEMS



- Comprehensive range, many versions available
- Good hydraulic performance



The TJO system because of its outstanding hydraulic performance the TJO system is particularly suitable for use with small diameter check and foot valves (1/4" to 2" diameter). It is available in a large range of materials for applications from domestic water distribution circuits, heating, industrial applications (chemical industry, pharmaceuticals).



TJO + FL + 04 SYSTEMS

290/297

Diameter 1/4" to 2" - PN 10
Casing in brass, valve PA in 12 or 11 polyamid, EPDM (290) o-ring seal for distribution in buildings, pumping, water distribution, or seal in FKM (297) for hydrocarbons and industrial fluids ; with two bosses, not drilled. Temperature 80°C



290

290D/297D FOR WATER

OR INDUSTRIAL APPLICATIONS

Casing in POM (polyacetylene)
Other specifications identical to types 290/297



290D

297D

290P/290X FOR INDUSTRIAL LIQUIDS

AND INDUSTRIAL APPLICATIONS

- **290P** : casing and closing system PP (polypropylene), FKM o-ring
- **290X** : casing AISI 304 stainless steel, closing system PA 11,12 or Tefzel (on request) FKM o-ring

PN : 10 - Temperature : 80°C



290P

290X

209 TWO DRILLED BOSSES

With polyamid plugs allowing control or emptying, other specifications as type 290
PN : 10
Temperature : 80°C



209

190/190D FOR DOMESTIC PUMPING

- **190** : foot valve with brass casing and PE strainer
- **190D** : casing in POM (polyacetal) and strainer in POM or PE (polyethylene)

Closing system PA 12, EPDM o-ring
Temperature : 60°C



190

190D

190P/190X FOR CORROSIVE PRODUCTS

Industrial applications and the food industry
Foot valves version of type 290 P and 290 X

- **190 P** : strainer in PP
- **190X** : strainer in PE

Temperature : 60°C



190P

190X

193/193D FOR THE PUMPING OF HYDROCARBONS

Designed for heating fuel strainer in micromesh PE (polyethylene)
Identical to valves 190 and 190D but with FKM seal
Temperature : 60°C



193D

60S FOR PUMPING HARD OR AGGRESSIVE WATER

Foot valve with bronze casing and stainless steel strainer
connection DN : F 3/4 to 4"
casing in POM (polyacetal) 3/4" to 2"
casing in bronze 2" 1/2 to 4"
PN 16 - Temperature 80°C

60S



104/104P FOR DOMESTIC PUMPING

Foot valve for domestic pumping

- **104** : casing in brass
- **104P** : casing in PPO (polyphenylene oxide) or POM (polyacetal)

Temperature : 65°C



104

104P

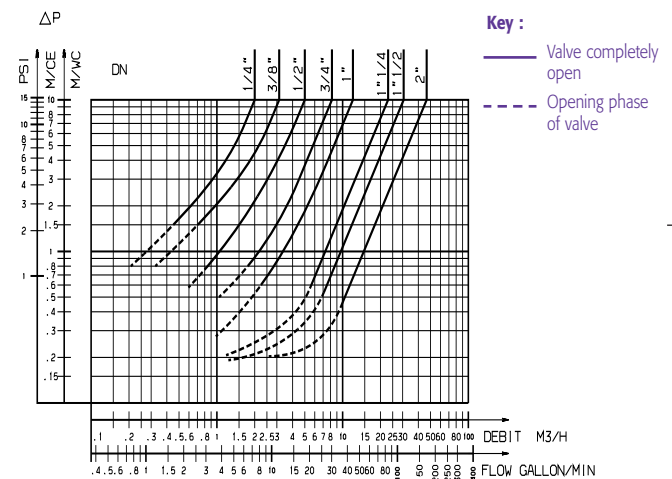
Many special versions

For your specific application needs, we can propose in the TJO series :

- custom-coiled springs
- casings in different materials
- closing system in Tefzel®
- special seals
- NPT connections

For industrial applications... chemicals... corrosive fluids

Headloss chart (Type 290)



TJO + 04 system range

NON-RETURN VALVES

209	BRASS	THREADED	F/F	1/2 to 2"
290	BRASS	THREADED	F/F	1/4 to 2"
290 D	POM	THREADED	F/F	3/8 to 1"
290 P	PP	THREADED	F/F	3/8 to 3/4"
290 X	STAINLESS STEEL	THREADED	F/F	1/4 to 2"
297	BRASS	THREADED	F/F	1/4 to 2"
297 D	POM	THREADED	F/F	3/8 to 1"

FOOT VALVES

190	BRASS	THREADED	F	1 1/2 to 2"
190 D	POM	THREADED	F	3/8 to 2"
190 P	PP	THREADED	F	3/8 to 3/4"
190 X	STAINLESS STEEL	THREADED	F	3/4 to 2"
193	BRASS	THREADED	F	1/2 to 1 1/2"
193 D	POM	THREADED	F	3/8 to 1 1/4"
104	BRASS	THREADED	F	3/4 to 1 1/4"
104 P	PPO or POM	THREADED	F	3/4 to 1 1/4"
60 S	BRONZE, STAINLESS STEEL STRAINER	THREADED	F	3/4 to 4"

F = Female ; M = Male

NON-RETURN VALVES

W SYSTEM with disc wafer type

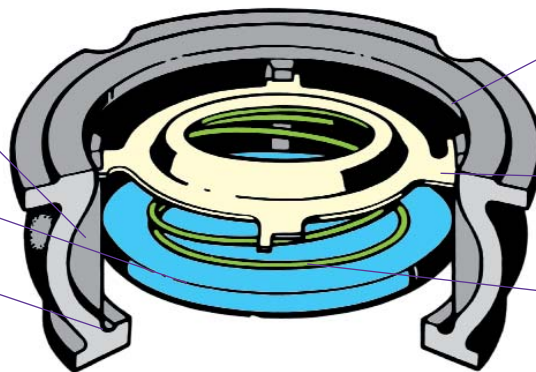


- Performs well at high pressure and temperature
- Easy to connect
- Space-saving

Guiding wings ensure self-centring of the disc

Stainless steel closing system with parabolic edge for ease of movement

Metal/metal seal for high temperatures (except 802 L)



Casing allowing valve to be mounted between flanges of PN 6 to PN 40 with notches for positioning

Plate to limit the movement of the disc

Return spring allows valve to function in any position

Designed for industry, this range gives an excellent hydraulic performance in a limited space (DIN 3202 part 3, K4 length except type 882). Universal connections, to DIN, ANSI, BS standards....

Suitable for handling a wide variety of fluids used in industries ranging from foods and chemicals to power stations, steam circuits, industrial heating systems, high pressure and high temperature installations.



W SYSTEM

812/812X

Diameter 15 to 200 mm
PN 6 - 40

Valve casing and closing system
in stainless steel - Temperature 370°C

available as : **812** with casing in stainless steel AISI 304

812X with casing in stainless steel AISI 316L

Closing system in stainless steel 316L up to 100 mm ;
stainless steel AISI 314 above this

Suitable for steam circuits, the food industry, general circuits
and industrial processes.



802

FOR GENERAL CIRCUITS AND PUMPING

Diameter 15 to 200 mm

PN 6-16 up to 100mm ; 10-16 above this

Valve with DZR brass casing from 15 to 50 mm

Temperature : 150°C for DN 65 to 200 mm

200°C for others

and FGL cast iron above this

Closing system in stainless steel 316L up to 100 mm ;

Cast iron FGL 250 above this available in two versions :

- **802L** : with EPDM seal for extra water-tightness ;
temperature 100°C

- **802 Z** : in bronze for high temperatures, salt water
and aggressive fluids ; temperature 230°C



802



802T/812XB/XT/XS

FOR INDUSTRIAL CIRCUITS AND THE FOOD INDUSTRY

802 and 812X versions mounted between flanges :

- **T** : threaded flanges
- **B** : flanges butt welded
- **S** : flanges socket welded

Same applications as 802 and 812X

Temperature : 220°C



812T



812XT



812XB



812XS



712XT

FOR PUMPING SPECIAL FLUIDS

Industrial fluids and the food industry,

all-stainless steel foot valve,
female connection 15 - 50 mm,

same characteristics as 812X

Temperature : 220°C

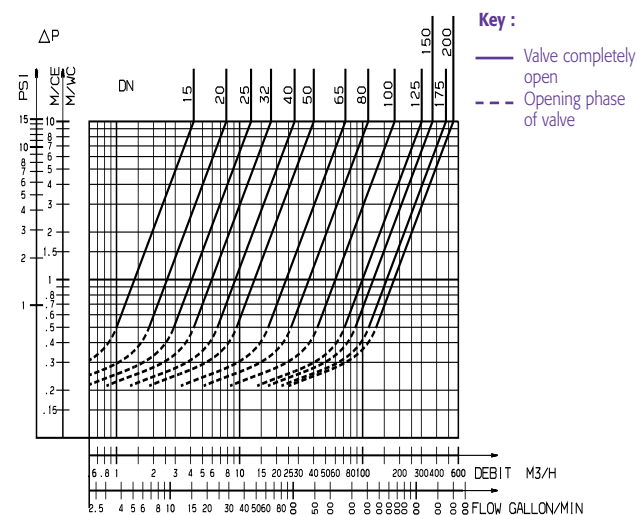


712XT

Advantages

- Valve with a wide range of applications because of its materials and robust construction.
- Pressure ranges PN6 - PN 40 covered by some models, reducing the number of versions.
- Easy to install, saves valuable time.

Headloss chart (Type 802)



The W system range

NON RETURN VALVES

802	CAST IRON	BETWEEN FLANGES	15 to 200 mm
802 L	CAST IRON	BETWEEN FLANGES	15 to 100 mm
802 Z	BRONZE	BETWEEN FLANGES	15 to 200 mm
802 T	BRASS	THREADED F/F	15 to 50 mm
812	STAINLESS STEEL	BETWEEN FLANGES	15 to 200 mm
812 X	STAINLESS STEEL	BETWEEN FLANGES	15 to 200 mm
812 XB	STAINLESS STEEL	TO BE BUTT WELDED	15 to 50 mm
812 XS	STAINLESS STEEL	TO BE SOCKET WELDED	15 to 50 mm
812 XT	STAINLESS STEEL	THREADED F/F	15 to 50 mm
882	CAST IRON GS	BETWEEN FLANGES	65 to 250 mm

FOOT VALVES

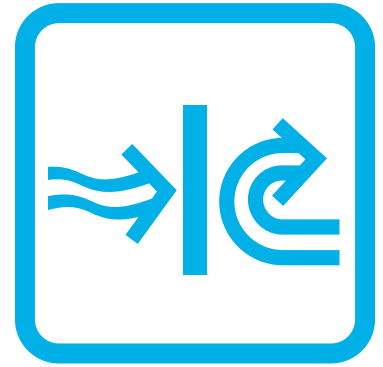
712 XT	STAINLESS STEEL	THREADED	15 to 200 mm
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F = Female ; M = Male

TOGETHER LETS CHOOSE THE RIGHT VALVE FOR YOU

There is no universal check valve !

We can help you to choose the right one from a multitude of possibilities. In order to do this we need to define your priorities together.



1st - The essential given criteria for your installation

- The diameter : in general, this is prescribed. Be careful, it may be prudent to choose a smaller size even if it means fitting a convergent cone ; this can help avoid premature wear and reduce possible water hammer. This is why it is so important to specify minimum and maximum flow rates. Put them down !
- The connection type : flanged or threaded.
- The maximum service pressure : be careful, even if certain of our valves are designed for PN 16, for example, our standard drilling of flanges is PN 10. In this case, from 200 mm diameter, PN 10 and PN 16 drilling are different : please indicate your drilling gauge in all cases. This way we avoid unpleasant surprises !
- The operating temperature range, both average and peak : we will then confirm whether the materials are appropriate.
- The nature of the fluid : we do not recommend a guided closing system for a slurry ! If the fluid is a chemical product, knowing the concentration is vital. Some weak concentrations can be more aggressive than strong ones !

2nd - The criteria which are most important for you !

- You must not exceed a certain energy loss level ? Indicate as much specifying the flow rate and diameter, we will recommend the right choice.
- You require the highest standards of sealing , tell us so.
- Your valve must fonction at any angle ? Consult our chart on pages 4 and 5.
- More generally speaking, you know that your installation has particular characteristics : variable flow rates, a tendency to pulsate ? Indicate as much.
- You need a special execution ? Describe it to us, giving details of the criteria.
- Your installation seems complicated (peculiar pipework, narrow space, positioning problems ?) A good diagram can sometimes avoid misunderstandings !

REGULATION

97/23/CE DIRECTIVE : Equipment under presure (PED : Pressure Equipment Directive)

Applies to the design, manufacturing and the assessment of the conformity of pressure equipment, the maximum allowable pressure of which is 0.5 bar. Pressure equipment for water supply, distribution, and disposal of water is excluded. Depending on the type of pressure equipment, maximum allowable temperature (PS), DN, physical nature of the fluid (liquid, gas or vapour) and the degree of danger of the fluid (group1/2)*, the directive classifies this same equipment into different categories (article 3.3, I, II, III, IV), required for the assessment of conformity with CE marking.

The equipment defined in article 3.3 of the directive must not bear the CE marking.

(*) Group 1 : hazardous fluids (directive 67/548/EEC) / explosive / highly flammable / easily flammable / flammable / very toxic / toxic / combustion agents. Group 2 : all other fluids.

In order to facilitate your choice regarding these new regulatory requirements, Socla has put the necessary information concerning products with CE marking, specification sheets and product identification plates at your disposal in the price list (+ see additional explanations on the detachable slip).

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. Socla is not responsible for non-adaptation of the products to working conditions not previously specified by the customer. In addition, the operating instructions are available on our web site www.socla.com or by simple request from our sales department.

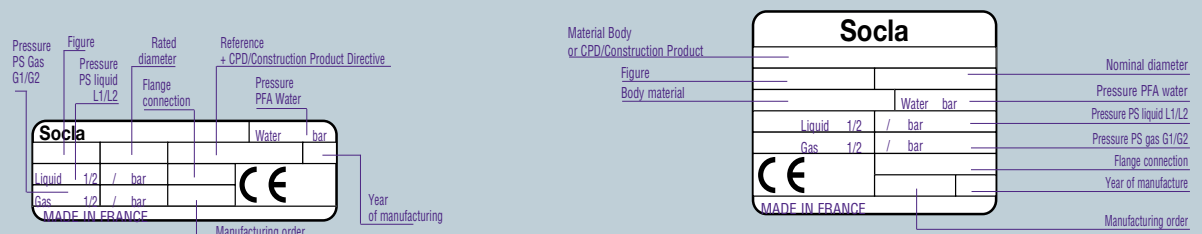
89/106/CEE DIRECTIVE :

(CPD : Construction Product Directive)

Applies to building industry products and especially to their ability to ensure their function during a reasonable life time from an economical point of view.

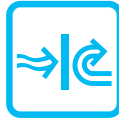
Building industry products in accordance with specific standards are CE marked with indicatio of the corresponding construction standard.

METAL TAG of Socla products :





Protection



Non return



Regulation



Shut Off

Socla sas

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Friday 8 a.m. to 1.30 p.m.