



CHECK AND FOOT VALVES

GENERAL INFORMATION

The check-valves, or non-return valves, allow the flow in one direction only, the vertical check-valves, in particular, allow only an up-warding flow.

The obstruction action on the reversing flow takes place automatically, without external interventions.

The check-valves may be divided in two categories: standard shutter type and swing type. In the former the shutter may be differently shaped: head, frustum of cone, piston, disc with gasket, sphere etc.

The valves must always be installed so that the shutter can move vertically and, more precisely, they must move upward in the opening phase and downward in the closing one.

These valves, suitable for vertical piping, are named intermediate valves.

In the swing valves, the shutter consists of a hinged and swinging door which seals on a body seat obtained on a plane approximately perpendicular to the piping axis.

These valves may be assembled horizontally, obliquely or vertically.

In any case the valve opening is caused by the fluid pressure difference on the two shutter faces and, when there is a directional flow, the opening is maintained by the dynamic action of the same fluid.

When the flow stops and tends to reverse its course, the shutter locks because of the gravity or the flow pressure and dynamic actions.

If the locking has to take place when the direct flow becomes slow or before coming to a stop and tending to reverse its course, the locking may be made easier by

means of springs or weights working on the shutter.

The swing check valves, which are very quick in the opening and closing operations, may be supplied with an outside hydraulic shock-absorber against water hammers.

The valves with normal shutter for horizontal piping oblige the flow to follow a tortuous way. This causes pressure drops which can be compared with those of the directional flow or globe interception valves. Some of the swing check valves have been designed so that the swing could be fully raised up by the flow in order to have a nearly rectilinear passage with negligible pressure drops.

In order to make the shutter perfectly fit to the seal seat, it is guided by a stem or it is provided with fins which do not leave the seat even when the shutter is fully raised up.

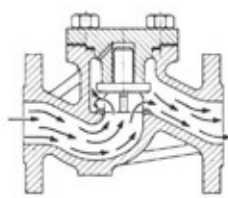
The sphere shutter is advantageous because it can be fully free, thus ensuring a perfect sealing any way it may return on the seat. Moreover, the same contact casualness between sphere and seat causes a uniform sphere wear with an unalterable sealing in the time.

The dead-weight valves are particular check-valves foreseen to be installed on the lower end part of exhaust piping for well and tanks.

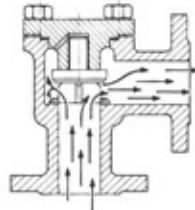
They have only one outlet, because the other has been replaced by a cage or perforated metal grid in order to avoid the suction of possible solid impurities which could reach the pump.

The dead-weight valves often have a venturi-metric passage because of the particular necessity to have negligible pressure drops in the suction piping.

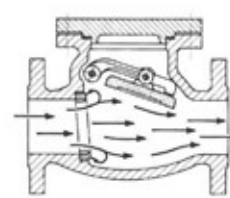
CHECK-VALVES FLOW TYPE



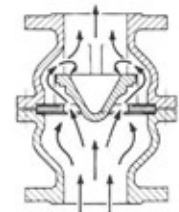
Directional flow type



Right-angle type

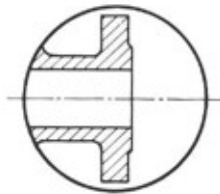


Swing type

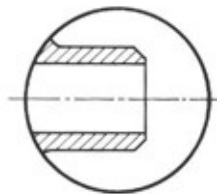


Vertical type

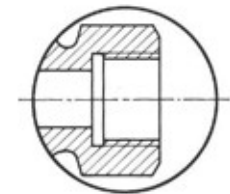
OUTLETS



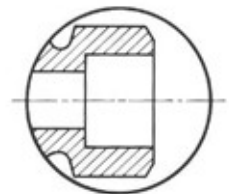
Flanged ends



Buttwelding ends

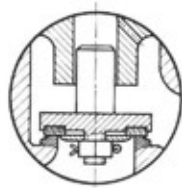


Screwed ends

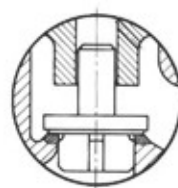


Socket welding ends

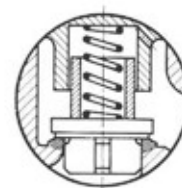
SHUTTERS



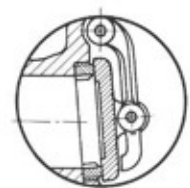
Without guide fins



With guide fins

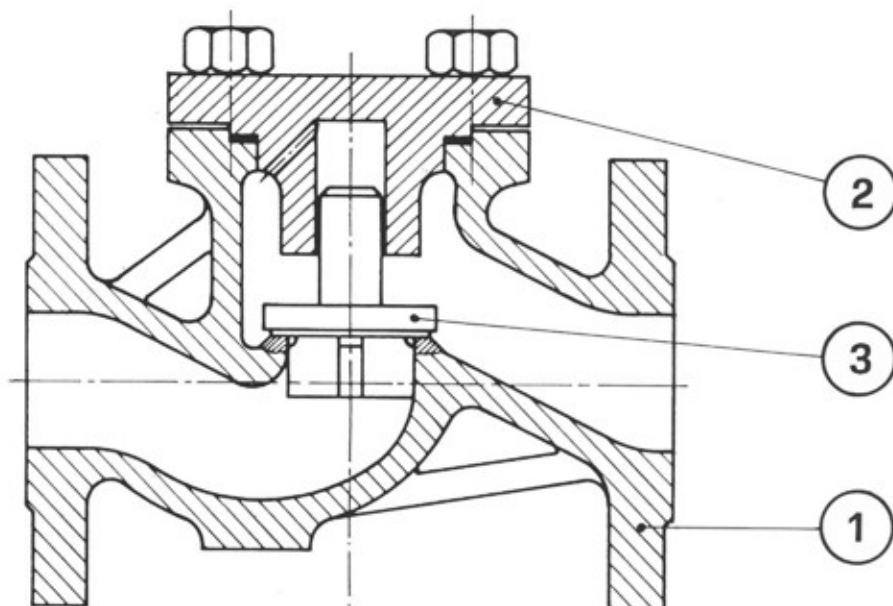


With spring return

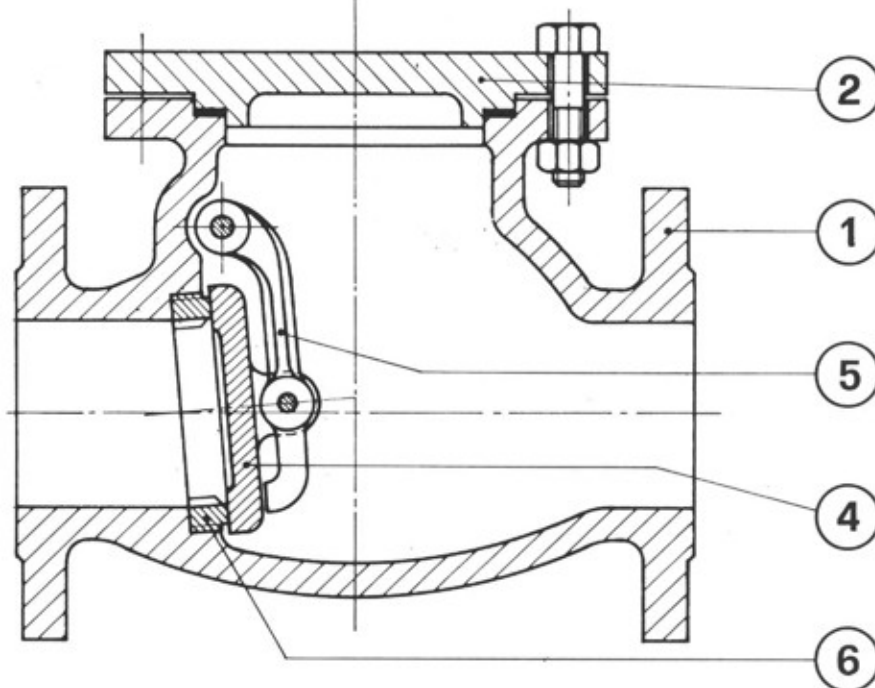


Swing type

Directional flow type



Swing type



1	Corpo
	Body
2	Coperchio
	Bonnet
3	Otturatore a disco
	Disc

4	Otturatore a battente
	Disc
5	Braccio portapiattello
	Disc Arm
6	Seggio avvitato
	Screw seat ring

Directional flow check-valves with flanged ends

N 35100	in cast iron PN 16
N 35110	in steel PN 40
N 35120	in steel PN 64
N 35130	in steel PN 100/160

Materials

The body and cover are cast steel (cast iron for PN 16), the seal seats are stainless steel 18-8

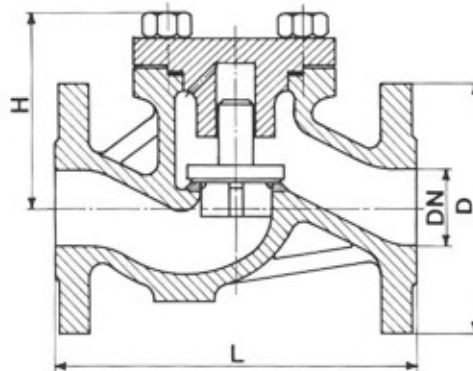
Features

This valve is specific for horizontal pipings, but also suitable for water, steam, oil, fuels, air, gas, etc, Flat seat seal seat obtained in the body - wholly stainless steel shutter in the small sizes and with obtained stainless steel ring in the big sizes - cover bolted on the body - properly guided flow with negligible pressure drops. The flanges, sized and drilled according to the tables

UNI are generally supplied with raised face and seal groove.

Options

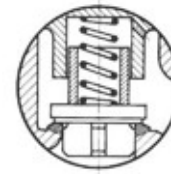
D	with interchangeable rubber gaskets disc
M	with recovery spring on the shutter
Z	flanged with UNI gains



Art. 35100 - PN 16
 35110 - PN 40
 35120 - PN 64
 35130 - PN 100/160



Variant D



Variant M

Art. 35100	Test Pressure: 25 bar													
PN 16	Working pressure: 16 bar up to 120°C													
	For other temperatures see Table UNI 1284													
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
D	95	105	115	140	150	165	185	200	220	250	285	340	405	460
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850
H	80	85	90	95	110	115	155	160	185	210	230	310	320	350
≈ kg	4	5	7	10	12	17	25	28	43	55	75	140	200	280

Art. 35110	Test Pressure: 60 bar													
PN 40	Working pressure: 40 bar up to 120°C													
	For other temperatures see Table UNI 1284													
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
D	95	105	115	140	150	165	185	200	235	270	300	375	450	515
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850
H	80	85	90	95	110	115	155	160	185	210	230	310	320	350
≈ kg	6	7	8	10	14	18	25	35	48	67	90	170	240	360

Art. 35120	Test Pressure: 96 bar													
PN 64	Working pressure: 64 bar up to 120°C													
	For other temperatures see Table UNI 1284													
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
D	105	130	140	155	170	180	205	215	250	295	345	415	470	530
L	210	220	230	250	260	300	340	380	430	500	550	650	790	900
H	110	115	120	125	140	145	170	200	215	235	265	320	360	400
≈ kg	9	12	14	18	22	29	40	55	75	110	160	260	360	480

Art. 35130	Test Pressure: 150 bar													
PN 100/160	Working pressure: 100 bar up to 120°C													
	For other temperatures see Table UNI 1284													
DN	15*	20*	25*	32*	40*	50	65	80	100	125	150	200	250	300
D	105	130	140	155	170	195	220	230	265	315	355	430	505	585
L	210	220	230	250	260	300	340	380	430	500	550	650	850	1050
H	110	115	120	125	140	145	170	200	215	235	265	320	380	420
≈ kg	10	14	16	20	26	36	52	66	85	125	185	290	400	580

* For these DN the valves may be used as PN 160

Swing check valves with flanged ends

N 35400 in cast iron PN 10
N 35210 in cast iron PN 16
N 35420 in steel PN 40

Materials

The body, cover and swing are cast iron for PN 10 and PN 16 and they are cast steel for PN 40 - the seal seats are brass with rubber gasket for PN 10 and PN 16 and they are stainless steel 18.8 for PN 40.

Features

This valve, fits for horizontal and vertical pipings, it is suitable for water steam, oil, fuels, air gas, etc.

The seal seat is obtained in the body when the seal seats are stainless, while it is directly obtained in the body when the door is provided with a rubber interchangeable gasket. The cover is bolted on the body. The door is jointed and hinged - when the door is completely raised, the passage is nearly rectilinear, with negligible pressure drops.

Options

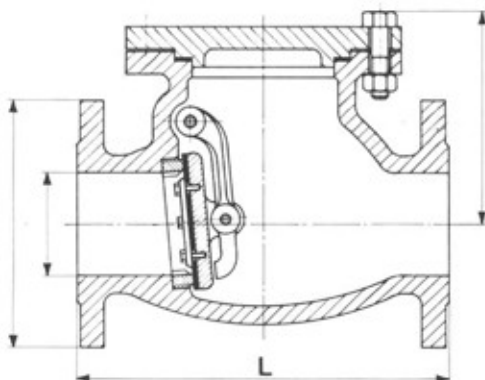
- I with hydraulic shock-absorber against water hammers
- L with lever and counterweight for a ready locking
- M with metal seat door
- P with by-pass
- Z flanged with UNI gains

Art. 35400 PN 10	Test pressure: 16 bar Working pressure : 10 bar up to 120°C (up to 50°C for rubber gaskets) For other temperatures see Table UNI 1284													
DN	40	50	65	80	100	125	150	175	200	250	300	350	400	500
D	150	165	185	200	220	250	285	315	340	395	445	505	565	670
L	180	200	240	260	300	350	400	450	500	600	700	800	900	1100
H	110	120	130	140	160	180	210	240	280	310	330	380	420	500
≈ kg	12	16	21	27	45	57	80	105	125	185	260	400	490	800

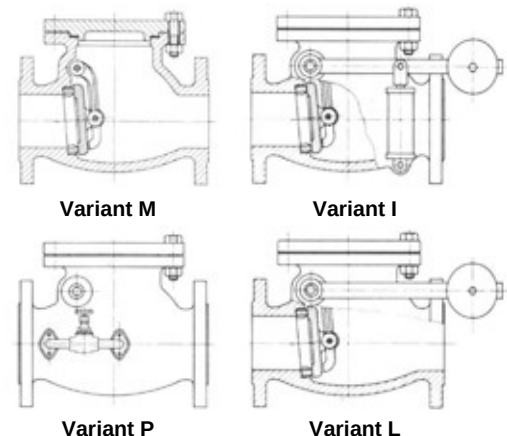
Art. 35410 PN 16	Test pressure: 25 bar Working pressure: 16 bar up to 120°C (up to 50°C for rubber gaskets) For other temperatures see Table UNI 1284													
DN	40	50	65	80	100	125	150	175	200	250	300	350	400	500
D	150	165	185	200	220	250	285	315	340	405	460	520	580	715
L	180	200	240	260	300	350	400	450	500	600	700	800	900	1100
H	110	120	130	140	160	180	210	240	280	310	330	380	420	500
≈ kg	14	18	24	32	52	65	95	120	145	225	320	480	580	950

Art. 35420 PN 40	Test pressure: 60 bar Working pressure: 40' bar up to 120°C For other temperatures see Table UNI 1284										
DN	40	50	65	80	100	125	150	200	250	300	
D	150	165	185	200	235	270	300	375	450	515	
L	242*	230	290	310	350	400	480	560*	622*	710*	
H	130	160	190	210	230	250	290	330	400	450	
≈ kg	22	28	39	48	85	108	150	265	400	560	

* FtoF ANSI



Art. 35400 - PN 10
 35410 - PN 16
 35420 - PN 40



Wafer type rubber swing check-valve PN 6-16

N 35450

Materials

The body is zinc plated steel. The swing is stiffened Buna N with steel discs.

Features

This simple valve is suitable for water, air, gas, highly polluted products.
 This valve may be installed between flanges UNI PN 6 - 16 or ANSI 125 - 300.
 Dimensions and weight extremely reduced-smooth locking-perfect sealing-eye bolts ensuring an easy assembly.
 The valve may be assembled on horizontal piping with an up-warding eyelet and on vertical piping if the flow is upward going only. In any case, there are negligible pressure drops.
 Maximum working pressure : 100 °C.

Options

X with stainless steel 18.8 metal parts

Water type metal swing check-valve PN 6-40

N 35480

Materials

The body is zinc plated steel - the swing is stainless steel - the gasket is EPDM (Dutral)

Features

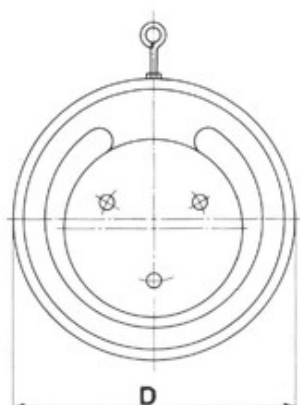
This valve is suitable for water, gas, steam, highly foul products.
 The valve may be installed between flanges UNI PN 6-40 or ANSI 125-300.
 Dimension and weight extremely reduced - smooth locking - perfect sealing - eye bolts ensuring an easy assembling. This valve may work in any position because of the swing recovery spring fully swing opening with negligible pressure drops. On horizontal piping, the eyelet must always be up-warding.
 Maximum working pressure: 150 °C.

Options

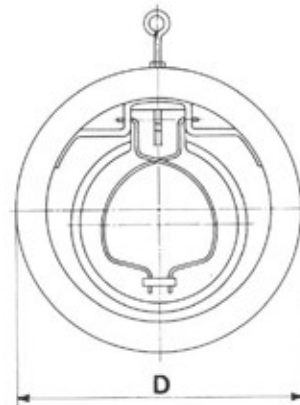
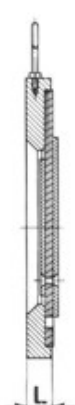
M with metal locking for temperatures up to 300 °C
 V with Viton gasket for temperatures up to 200 °C
 X with stainless steel 18.8 body

Art. 35450	Test pressure: 25 bar												
PN 6-16	Maximum working pressure 16 bar up to 100 °C.												
DN	50	65	80	100	125	150	200	250	300	350	400	500	600
D	98	118	134	154	184	209	264	319	375	425	475	580	681
L	14	14	14	14	16	16	18	35	43	50	57	76	85
≈ kg	0,7	1,0	1,4	1,7	2,2	3,3	5,1	10	14	20	32	81	153

Art. 35480	DN	Working pressure bar								
		Up to 120°C		200°C		250°C		300°C		
PN 6-40	65-300	40		35		32		28		
	350-400	16		14		13		11		
DN	65	80	100	125	150	200	250	300	350	400
D	118	134	154	184	209	264	319	375	425	475
L	20	24	27	31	33	42	52	69	69	73
≈ kg	36	43	58	83	135	165	245	300	350	505



Art. 35450



Art. 35480



Wafer type double swing check-valves

N 35500 in cast iron PN 10
N 35520 in steel PN 40

Materials

The body and swings are cast iron for PN 10 and steel for PN 40. The head stem and recalling spring are stainless steel. The gaskets are Buna N or Viton

Features

This perfect sealing valve is suitable for water, steam, air, gas, fuels, etc.
 Seal rings OR inserted on the heads - possible

assembly on horizontal or vertical pipings - it is possible to extract the valve central body without disassembling the flanges from the piping - negligible pressure drops with fully open swings.

To obtain a perfect assembly on the horizontal pipings, the swings stem must be vertical.

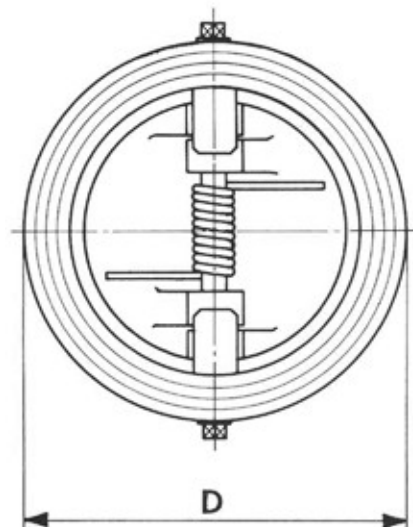
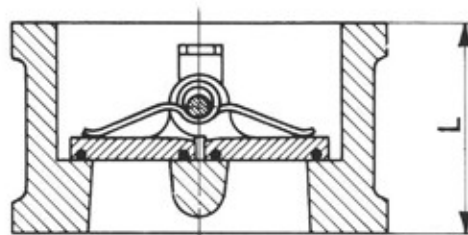
The valves have been designed to be inserted between UNI flanges of the corresponding PN. The maximum working pressures are 80°C for Buna N gaskets and 200°C for Viton ones.

Options

C complete valve assembled with gaskets and tie-rods among flanges
 UNI PN 10 or PN 40

Art. 35500 PN 10	Test pressure: 16 bar Maximum working pressure 10 bar up to 120 °C.; 8 bar up to 200°C							
DN	200	250	300	350	400	450	500	600
D	268	322	372	432	482	532	586	685
L	127	140	175	175	175	185	212	222
≈ kg	64	90	150	180	210	270	340	500

Art. 35520 PN 40	Test pressure: 60 bar Maximum working pressure 40 bar up to 120 °C.; 32 bar up to 200°C							
DN	200	250	300	350	400	450	500	
D	284	346	410	466	538	562	620	
L	127	140	175	175	175	185	212	
≈ kg	73	104	182	212	270	305	395	



Art. 35500 - PN 10
 35520 - PN 40

Wafer type disc check- valves

N 35700 **PN 16**
N 35710 **PN 40**

Materials

The body and shutter of the item N. 35700 are brass up to DN 100 and cast iron for bigger sizes.
 The body of Item N. 35710 is melted steel and the shutter is stainless steel.

Features

These valves have a highly narrow gage and they are suitable for water, steam, air, gas, oil, etc.
 The valves are tightened between flanges UNI and

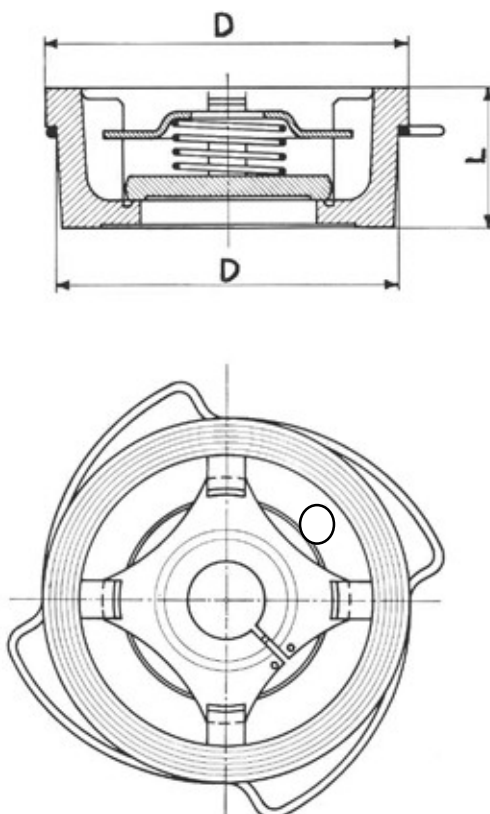
ANSI. In particular N. 35700 is suitable for the flanges PN 6-10 while N. 35710 is suitable for flanges PN 6 - 10 - 16 - 25 - 40. In order to make the valve centring between the flanges easy, the valve is provided with a suitable centering ring. By means of the spring working on the shutter, the valve may be installed in any position. However, there should always be a minimum opening pressure, depending on the valve size and the installation type, lower than 300 mm. water column.

Options

- A valve without centering ring
- E shutter with EPDM (Dutral) gasket (up to 150°C)
- V shutter with Viton gasket (up to 200°C)

Art. 35700 PN 10	Test pressure: 25 bar Maximum working pressure 16 bar up to 130 °C												
	DN	15	20	25	32	40	50	65	80	100	125	150	200
D	16	19	22	28	32	40	46	50	60	90	106	140	140
L	40	47	56	72	82	95	115	132	152	184	209	264	264
≈ kg	0,1	0,2	0,3	0,5	0,7	1,1	1,4	2,0	3,2	6,8	10	20	20

Art. 35710 PN 40	Test pressure: 60 bar Working pressure 40 bar up to 250 °C.; 32 bar up to 350°C;30 bar up to 400°C												
	DN	15	20	25	32	40	50	65	80	100	125	150	200
D	16	19	22	28	32	40	46	50	60	90	106	140	140
L	40	47	56	72	82	95	115	132	152	194	220	275	275
≈ kg	0,1	0,2	0,3	0,5	0,7	1,1	1,4	2,0	3,2	10	13	24	24



Art. 35700 - PN 16
35710 - PN 40

Check-valves in cast iron for vertical pipings with flanged ends

N 36100 **PN 10**
N 36110 **PN 16**

Materials

The body and shutter are cast iron with rubber gasket.

Features

This valve is specific for water, but also suitable for low pressure steam, oil, fuels, air, gas, etc. Hydrodynamically profiled shutter which allows negligible pressure drops - body with suitable enlargements to obtain wide passage sections.

Intechangeable gaskets.

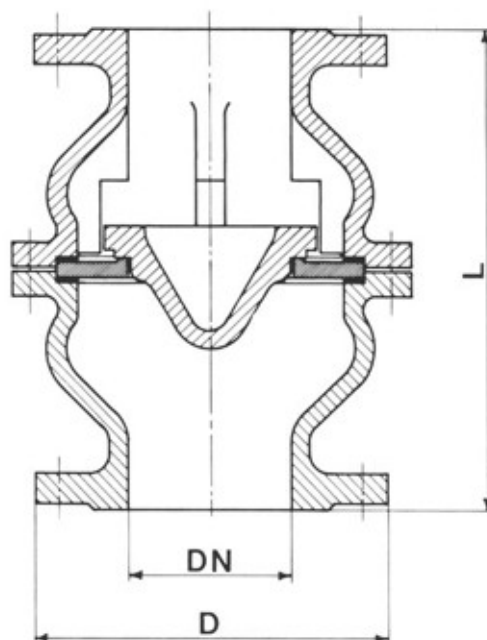
The flanges, sized and drilled according to UNI Tables are generally supplied with raised face and seal groove.

Options

M with metal steel shutter
 X with stainless steel seal seats

Art. 36100	Test pressure: 16 bar										
PN 10	Maximum working pressure 10 bar up to 120 °C For other temperatures see Table UNI 1284										
DN	40	50	65	80	100	125	150	175	200	250	300
D	150	165	185	200	220	250	285	315	340	395	445
L	180	200	240	260	300	350	400	450	500	600	700
≈ kg	9	14	16	20	26	35	50	70	90	125	180

Art. 36110	Test pressure: 25 bar										
PN 16	Working pressure 16 bar up to 250 °C For other temperatures see Table UNI 1284										
DN	40	50	65	80	100	125	150	175	200	250	300
D	150	165	185	200	220	250	285	315	340	405	460
L	200	230	290	310	350	400	480	550	600	730	850
≈ kg	12	16	18	25	33	45	65	85	110	140	210



Art. 36100 - PN 10
 36110 - PN 16

Sphere check-valve in cast iron PN 10 with flanged ends

N 36160

Materials

The body, cover and sphere are cast iron - the sphere is covered with natural rubber.

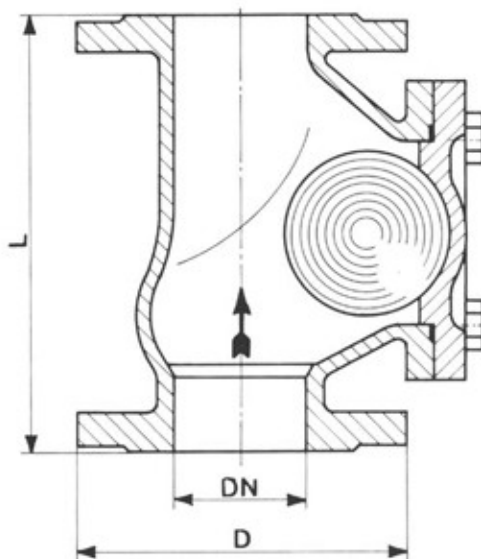
Features

This valve is particularly suitable for filthy polluted, thick, sandy waters, etc. When the flow follows the right direction, the sphere is pushed in a suitable housing slot, which allows a nearly rectilinear flow with negligible pressure drops. When the flow tends to

reverse, the sphere falls down on the seat with a perfect sealing. The operation is always noiseless and the valve may be installed on vertical piping with up-warding flow and on horizontal ones, provided that the sphere housing is up-warding. Maximum working temperature : 80°C.

The flanges are sized and drilled according to UNI tables PN 10.

Art. 36160 PN 10	Test pressure: 16 bar Working pressure: 10 bar up to 80°C									
	DN	50	65	80	100	125	150	200	250	300
D	165	185	200	220	250	285	340	395	445	505
L	180	204	264	300	384	420	532	668	828	961
≈ kg	10	15	20	24	41	63	85	161	283	400



Art. 36160

"Hydro-stop" check-valves against water hammers with flanged ends

N 36200 **PN 10**
N 36210 **PN 16**

Materials

The body is cast iron - plastic ogive up to DN 150 and cast iron beyond DN 150 - natural rubber membrane. On request, the membrane can be supplied in Buna N.

Features

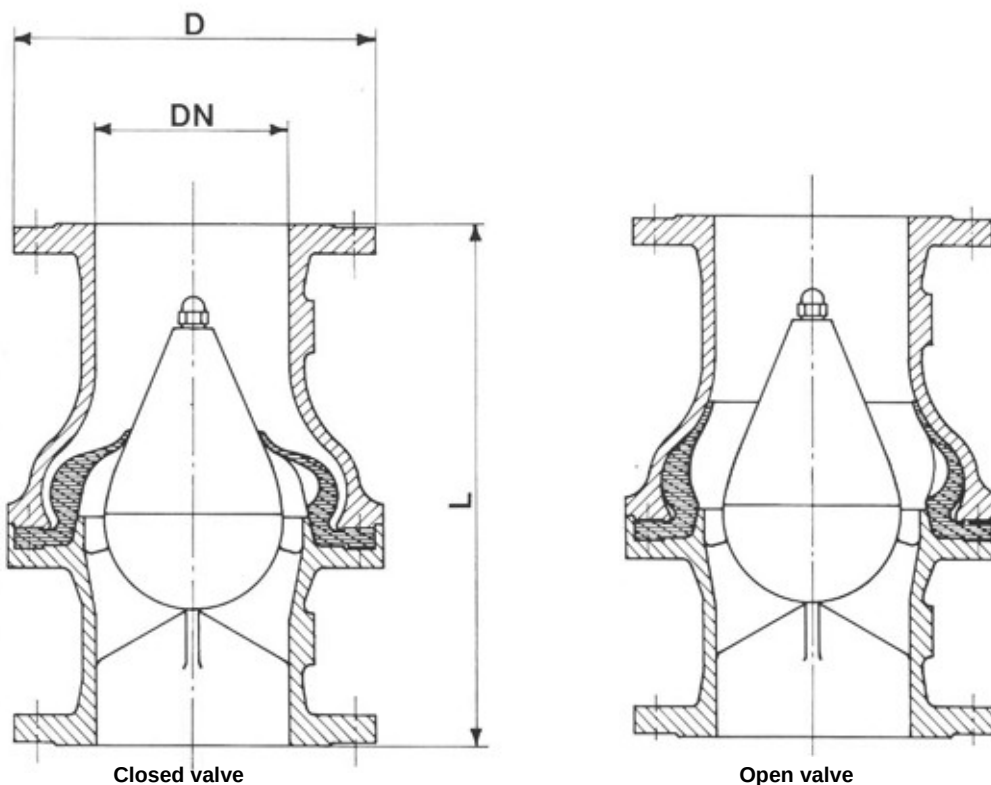
This perfect sealing valve is specific against water hammers. The valve can be installed horizontally or vertically. The membrane, provided with grooves that

increase its deformation possibility, ensures a perfect sealing and reduces to the minimum the over pressures due to the water hammers. With the open valve, the membrane adheres to the body, letting a wide passage section free. Hydrodynamic profile ogive with negligible pressure drops.

The flanges, sized and drilled according to the UNI Tables are generally supplied with raised face and seal groove.

Art. 36200 PN 10	Test pressure: 16 bar Working pressure 10 bar up to 70°C												
	DN	40	50	65	80	100	125	150	175	200	250	300	350
D	150	165	185	200	220	250	285	315	340	395	445	505	565
L	180	200	240	260	300	350	400	450	500	600	700	800	900
≈ kg	8	13	15	22	23	42	46	81	84	127	210	280	390

Art. 36210 PN 16	Test pressure: 25 bar Working pressure : 16 bar up to 70 °C												
	DN	40	50	65	80	100	125	150	175	200	250	300	350
D	150	165	185	200	220	250	285	315	340	405	460	520	580
L	180	200	240	260	300	350	400	450	500	600	700	800	900
≈ kg	8	13	15	22	23	42	46	81	84	127	210	280	390



Art. 36100 - PN 10
36110 - PN 16

Check valves in Bronze PN 10 with interchangeable gasket and flanged ends

- N 37100 **globe type**
- N 37200 **directional flow type**
- N 37300 **right angle type**

suitable for water, air, oil, fuel, gas, steam, etc. The cover is screwed on the body - the shutter is provided with stem and guiding fins - the seal seat is directly obtained on the body - the gasket is interchangeable. The flanges are sized and drilled according to UNI PN 6 Tables and on request according to PN 10 tables.

Materials

The valve is made in bronze - the shutter is brass - the gasket is rubber. On request, the valve may be supplied in other materials.

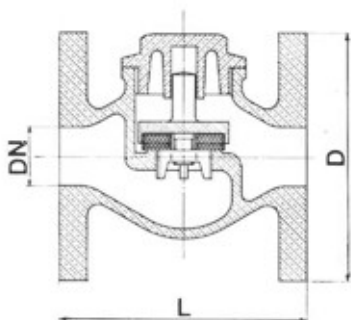
Options

M with wholly metal shutter

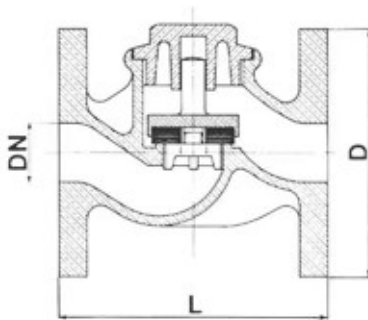
Features

This valve is specific for horizontal piping and it is

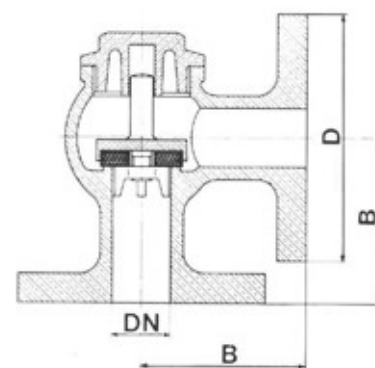
Art. 37100 37200 37300	Test pressure: 16 bar Working pressure: 10 bar at 40°C; 5 bar at 250 °C								
	PN 10								
DN	15	20	25	32	40	50	65	80	100
D (PN 6)	80	90	100	120	130	140	160	190	210
D (PN 10)	95	105	115	140	150	165	185	200	220
L	80	95	100	110	130	150	170	210	220
B	50	60	70	75	85	100	120	130	140



Art. 37100



Art. 37200



Art. 37300

Swing check valves PN 10 in Bronze with interchangeable gasket and flanged ends

N 37500

Materials

The valve is made in bronze - the door is brass - the gasket is rubber. On request, the gasket may be supplied in other materials.

Features

This valve is suitable for water, air, oil, fuels, gas, steam, etc.

The cover is screwed on the body - the door is hinged -

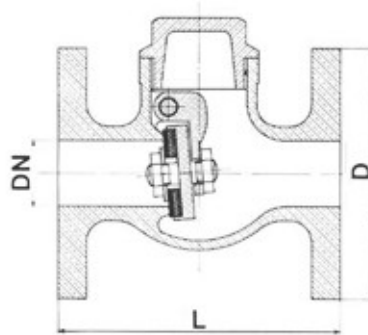
the seal seat is directly obtained on the body - the gasket is renewable.

The flanges are sized and drilled according to UNI PN 6 Tables and, on request, according to PN 10 Tables.

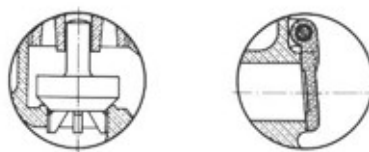
Options

M with metal seat door

Art. 37500 PN 10	Test pressure: 16 bar Working pressure: 10 bar at 400°C: 5 bar at 250°C								
	DN	15	20	25	32	40	50	65	80
D (PN 6)	80	90	100	120	130	140	160	190	210
D (PN 10)	95	105	115	140	150	165	185	200	220
L	80	85	100	105	115	150	170	205	245



Art. 37500



Variants M

Check-valves in bronze PN 16 with interchangeable gasket and thread ends

- N 38100 **globe type**
- N 38200 **directional flow type**
- N 38300 **right angle type**

Materials

This valve is made in bronze - the shutter is brass - the gasket is rubber. On request, the gasket may be supplied in other materials.

Features

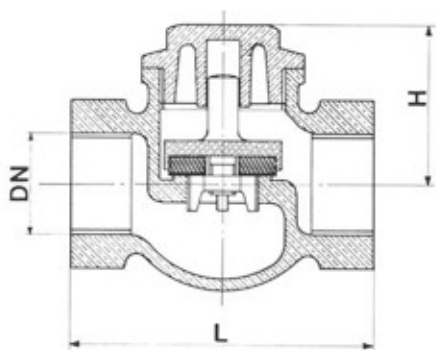
This valve is specific for horizontal piping and it is

suitable for water, air, fuels, gas, steam etc.
The cover is screwed on the body. Shutter with rod and guide vanes - the seal seat is directly obtained on the body- the gasket is interchangeable - gas-thread socket outlets.

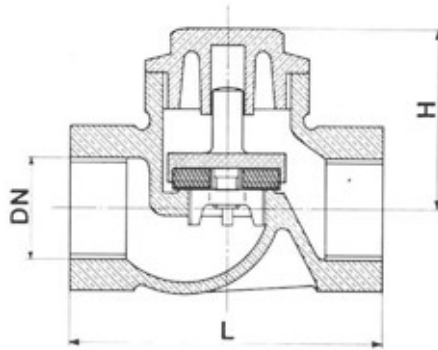
Options

- M with wholly metal shutter

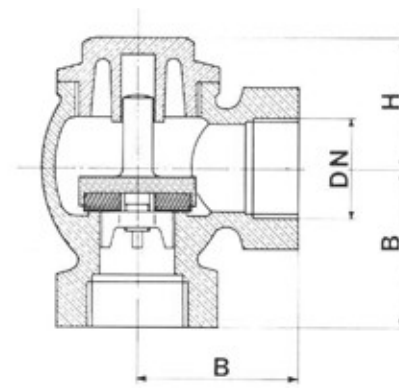
Art. 38100 38200 38300	Test pressure: 16 bar										
	Working pressure: for steam, air, gas, : 8 bar at 40°C; 4 bar at 250°C for water, oil, fluid fuels : 16 bar at 40°C; 8 bar at 250°C										
PN 16											
DN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L	54	58	62	74	84	98	114	132	156	180	214
B	25	25	30	35	40	45	60	65	-	-	-
H	35	35	35	40	50	60	65	70	85	95	110



Art. 38100



Art. 38200



Art. 38300

Swing check-valve in bronze PN 10 with interchangeable gasket and thread ends

the seal seat is directly obtained on the body - the gasket is interchangeable - the pressure drops are negligible.

N 38500

Materials

The valve is made in bronze - the door is brass - the gasket is rubber. On request, the gasket may be supplied in other materials.

Options

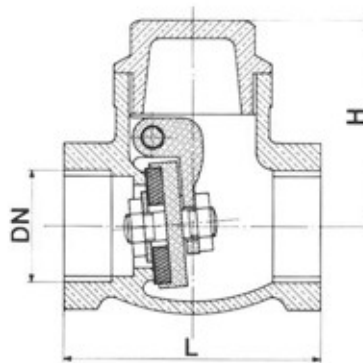
M with metal seat shutter

Features

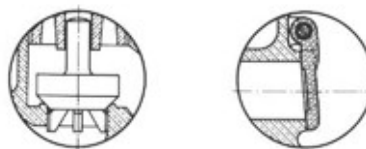
This valve is suitable for water, oil, fuels, air, gas, steam, etc.

The cover is screwed on the body - the door is hinged -

Art. 38500 PN 10	Test pressure: 16 bar Working pressure: for steam, air, gas: 5 bar at 40°C; 2,5 bar at 250°C for water, oil, fluid fuels : 10 bar at 40°C, 5 bar at 250°C									
	DN	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	52	52	60	70	80	88	104	142	176	200
H	40	40	45	50	60	65	75	90	105	130



Art. 38500



Variants M

"Onda Stop" check-valve in bronze PN 16 with thread ends

N 38520

Materials

The body is brass - the inside flute shaped socket is neoprene.

Features

This valve may be installed in any position - smooth locking against water hammers - it is specific for water, but also suitable for oil, air, gas, etc.
Gas thread socket ends.

Options

H with Hypalon socket resistant up to 130°C

Noiseless check.valve PN 16 against water hammers with thread ends

N 38540

Materials

The body is brass up to 2" and cast iron beyond 2" - the spring is stainless steel - the shutter is Rilsan with a neoprene gasket OR.

Features

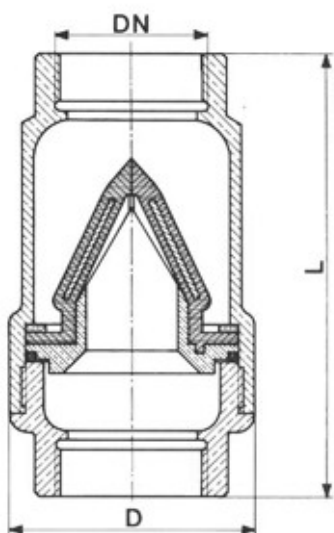
This valve is specific for water but also suitable for oil, air, gas, etc.
Mono-block body - hydrodynamic guided shutter with negligible pressure drops - installation in any position - light recovery spring which ensures the locking before the flow direction reversal and avoids water hammers - gas thread socket outlets.

Options

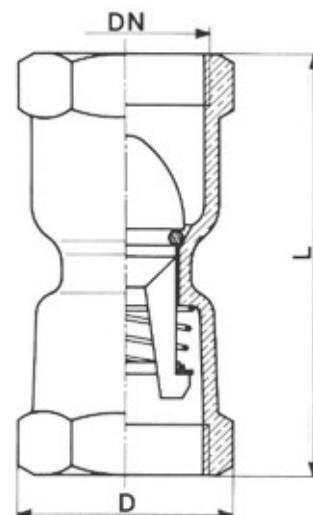
V with Viton gaskets for gas oil, kerosene, petrol

Art. 38520	Test pressure: 25 bar Working pressure: 16 bar at 60°C					
PN 16						
DN	1/2	3/4	1	1 1/4	1 1/2	2
D	46	46	52	64	80	92
L	77	77	93	118	126	158

Art. 38540	Test pressure: 25 bar Working pressure: 16 bar at 80°C									
PN 16										
DN	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
D	38	38	45	54	63	69	88	106	126	164
L	56	56	60	67	76	79	93	111	117	153



Art. 38520



Art. 38540

"Europa" type check-valve with thread ends

N 38560

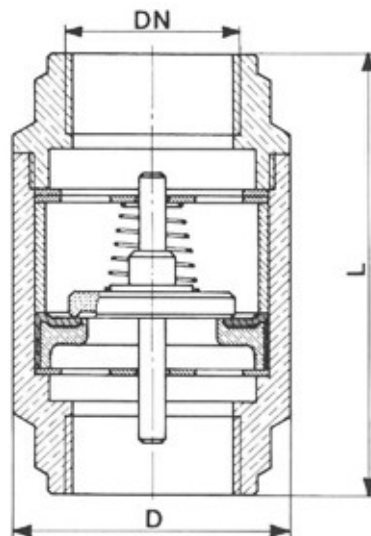
Materials

Forged brass body - seat in 33% glass reinforced nylon with oil-proof rubber gasket - the shutter guides and recalling spring are stainless steel.

Features

This valve is suitable for water, air, various oils.
 The valve may be installed in any position - the shutter is provided with double guide stem and light recovery spring against water hammers - negligible pressure drops.
 Gas thread socket ends

Art. 38560	Test pressure : 3/8"÷1" 25 bar; 1 1/4"÷2" 18 bar; 2 1/2"÷4" 12 bar Maximum working temperature 110 °C									
	DN	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
D	38	38	45	54	63	69	88	106	126	164
L	56	56	60	67	76	79	93	111	117	153



Art. 38520

Bottom dead-weight valve in cast iron PN 10 with hydrodynamic shutter and flanged ends

N 39100

Materials

The body and shutter are cast iron - tarred sheet grid - rubber gasket. On request, the gasket may be supplied in other materials.

Features

This valve is suitable for water, oil, fuels, etc. Hydro-dynamically profiled shutter to obtain the minimum pressure drops - no guide stems which could be blocked in the open position by sand grains or other solid impurities. Wide grid to ensure the required flow even if a part of the holes is clogged up.

The flange; sized and drilled according to UNI Tables, is generally supplied with raised face and seal groove.

Options

- G with cast iron cage grid
- L with galvanized sheet grid
- p with flat double guide stem shutter.

Intake filter in cast iron with flanged ends

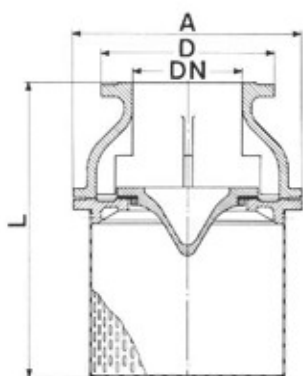
N 39120

The body is cast iron - tarred-sheet grid - flange PN 10

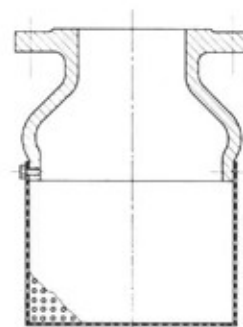
Options

- G with cast iron cage grid
- L with galvanized sheet grid

Art. 39100 PN 10	Test pressure: 16 bar Working pressure: 10 bar													
	DN	40	50	65	80	100	125	150	200	250	300	350	400	500
D	150	165	185	200	220	250	285	340	395	445	505	565	670	780
A	165	170	195	220	240	270	320	400	470	570	640	730	1010	1010
L	180	185	200	230	290	300	330	430	490	580	780	890	1150	1435



Art. 39100



Art. 39120

Renewable gasket foot valve in bronze PN 6 with thread ends

N 39200

Materials

The valve is made in bronze with brass shutter

Features

This valve is specific for horizontal pipings and it is suitable for water, steam, air, oil, fuels, gas, etc. The body consists of two screwed parts - the shutter is provided with stem or guiding fins - the seal seat is directly obtained on the body - barrel body with wide passage section and negligible pressure drops - wide grid to ensure the required flow even if a part of the holes is clogged up. Gas-thread socket outlets.

Options

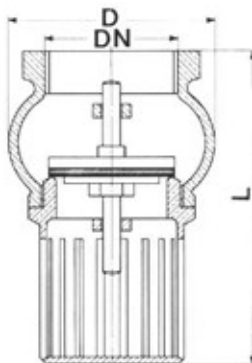
M with wholly metal shutter

Intake filter in bronze with thread ends

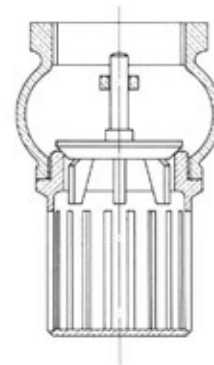
N 39220

It consists of the dead-weight valve Item N 39200 - without shutter

Art. 39200 PN 6	Test pressure: 10 bar Working pressure : 6 bar at 40°C; 3 bar at 250°C												
	DN	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
D	38	38	45	54	63	69	88	106	126	164	206	235	
L	66	66	75	84	98	106	118	147	164	207	286	340	



Art. 39200



Art. 39220/M

Sand-proof tip foot-valve with thread ends

N 39250

Materials

The valve is made in brass with rubber gasket

Features

This valve is specific for water - the gasket is renewable
- wide grid - gas thread socket outlet.

"Europa" type foot-valve with thread ends

N 39300

Materials

The body and grid are forged brass - shutter in 33% glass reinforced nylon - the shutter guides and recovery spring are stainless steel.

Features

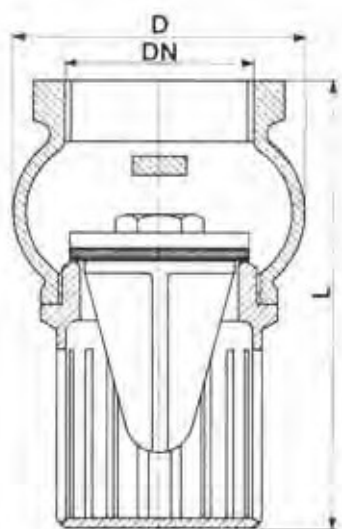
It consists of the check-valve N. 38560 with the grid N. 39320 in addition

This valve is suitable for water, various oils.

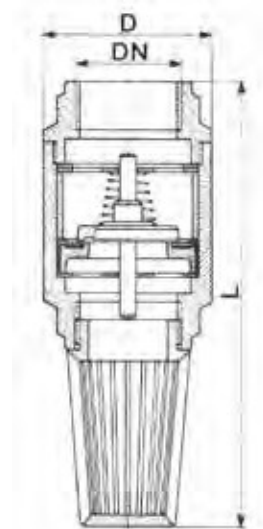
The shutter is provided with double guide stem and light recovery spring - negligible pressure drops
gas thread socket outlet.

Art. 39250										
DN	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
D	38	38	45	54	63	69	88	106	126	164
L	66	66	75	84	98	106	118	147	164	207

Art. 39300										
Test pressure: 3/8 +1" 25 bar; 1 1/4 +2" 18 bar; 2 1/2 +4" 12 bar Maximum working temperature : 110°C										
DN	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
D	34	34	41	52	63	71	88	120	140	170
L	92	102	117	140	150	171	193	224	240	285



Art. 39250



Art. 39300

Strainer for "Europa" valve

N 39320

Gas thread pin ends.

DN 3/8 - 1/2 - 3/4 - 1 - 1 1/4 - 1 1/2 - 2 - 2 1/2 - 3 - 4

Tubular foot-valve with thread ends

N 39400

Materials

The valve is made in brass with rubber gasket.

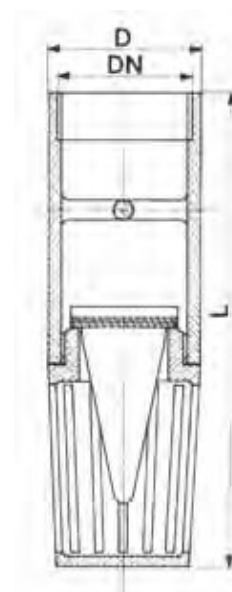
Features

This valve is specific for water - the shutter is provided with renewable gasket and sand-proof tip - cylindric body to be inserted into the pipes-gas thread socket ends.

Art. 39400									
DN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
D	26	32	38	47	54	65	82	95	122
L	90	114	123	142	160	171	208	228	257



Art. 39320



Art. 39400