



BALL VALVES

General Information

The ball valves are essentially constituted by a ball provided with a cylindrical bore and rotating in the valve body. The seal is effected between the outer surface of the sphere and two sealing ring mounted on the valve body in correspondence of the holes of the entry and exit of the sphere. The gaskets can be of different materials, but currently it is imposed almost universally the PTFE (Teflon) or PTFE reinforced with glass fibers. As there is no metal contact between the ball and the body, the valve has a virtually unlimited duration, requiring the maximum, replace the seals. Thanks to the minimum friction coefficient in the contact between the PTFE and the polished metal surface of the sphere, is obtained the double advantage of very small wear of the seals and consequent long duration of the same and of the extremely small moments or cente maneuver. The ball is driven instead carried by a shaft mounted on bearings generally PTFE. As the thrust of the fluid on the sphere is discharged ui shaft bearings, the maneuver is even sweeter than for ball valves scillante. The sealing is due both to a slight forcing between initial ball and seals ia the effect of the fluid pressure differential on an area of the seals themselves.

In reference to how to mount the ball in the valve body, stand types "end entry" and "top entry". The valves "end entry" have the body formed by at least two parts, connected by threads or flanges, for the insertion of the sphere. In the valves with the body formed by parties related threads, you can not go to the ball and seals without removing the valve from the pipeline. The valves "top entry" have the body of a single piece, provided with a top cover, through which is mounted the ball. In this case access to the ball and to uarnizioni is possible through the cover, without removing the valve from the pipeline. Some valves "top entry" also have devices for the resumption of play between beast and gaskets. The ball valves can be 2, 3 or 4-way and allow

an operation of closing, opening or deviation very rapid. As each transaction is carried out only with a quarter turn of the lever, this provides an instant view of the position of the ball. The ball valves, both in total taste is reduced bore, causing the flow losses negligible. The flow may be always bi-directional, except in some types of valve na seal only. The ball valves can be used as valves adjustable preload, provided it does not throttle the flow excessively, in which case the portion of uarnizione exposed to the fluid flow could be undermined by the seat. Thanks to the compact obstruction, the ball valves can often be installed where space be insufficient for other types of valves. The maximum operating temperature is imitated by the characteristics of the material forming the gasket.

Steel ball valves with full bore PN 16 flanged connections

N. 25020

Materials

Body and steel shaft , ball in stainless steel AISI 304 up to DN 50 and chrome plated steel for larger sizes ; Buna N O-rings on the shaft or at the request in Viton ; seals on the ball in PTFE (Teflon) or PTFE reinforced with glass on request.

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air , gas, vacuum system , water oil, fuel etc.

This valve is "split - body " type, i. e. with the body divided in two pieces.

Fire-safe floating ball (if a gaskets destruction due to an

exposition to the fire takes place, the sealing is guaranteed on the metal seat);

- The sealing is guaranteed in the two directions;
- Smooth operation in a quarter of a turn with locking device in the opening and closing positions;
- The stem is provided with raised face against the ejection from the body and with outwarding sealing gaskets;
- View of the Ball position;
- Full bore with negligible pressure drops.

The flanges, sized and drilled according to UNI, are generally supplied with raised face and seal groove full bore with negligible pressure drops.

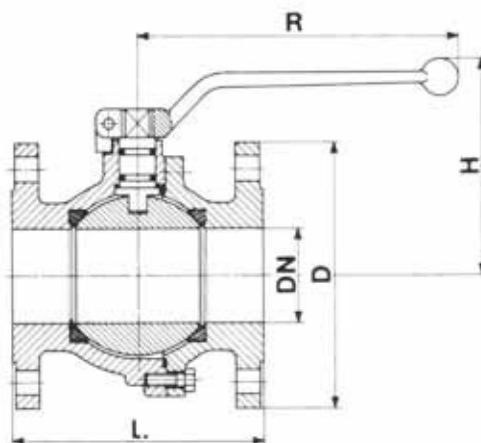
Options

- X With ball in stainless steel AISI 316

Art. 25020	Test pressure: 25 bar													
PN 16	Working pressure: 16 bar up to 150°C													
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	115	120	125	130	140	150	170	180	190	325	350	400	533*	610*
H	46	58	61	68	89	96	115	136	152	205	230	280	413	453
R	160	160	160	160	215	215	215	500	500	800	800	800*	800*	800*
≈ kg	2,7	4,1	4,8	6,5	7,7	10	16	23	29	44	70	98	200	280

(•) Face to Face ANSI B16.10

(*) Operation foreseen with gears reducer



Art. 25020

Ball valve full bore PN 16 cast iron with flanged connections

N. 25060

Materials

Body of cast iron, brass shaft, chrome plated brass ball, shaft seals of Buna N seals in PTFE (Teflon).

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

This valve is "split - body" type, i. e. with the body divided in two pieces.

Fire-safe floating ball (if a gaskets destruction due to an exposure to the fire takes place, the sealing is guaranteed on the metal seat);

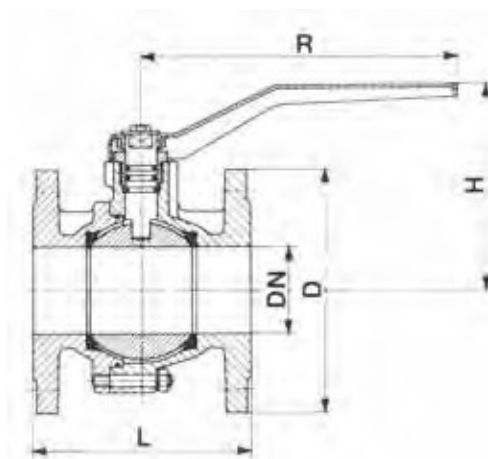
- The sealing is guaranteed in the two directions;
- Smooth operation in a quarter of a turn with locking device in the opening and closing positions;
- The stem is provided with raised face against the ejection from the body and with outwarding sealing gaskets;
- View of the Ball position;
- Full bore with negligible pressure drops.

The flanges, sized and drilled according to UNI, are generally supplied with raised face and seal groove full bore with negligible pressure drops.

Options

R Gear Box Operated

Art. 25060	Test pressure: 25 bar Working pressure: 16 bar up to 150°C								
PN 16									
DN	25	40	50	65	80	100	125	150	200
D	115	150	165	185	200	220	250	285	340
L	125	140	150	170	180	190	200	210	400
H	94	115	120	128	150	160	210	230	320
R	150	200	200	260	260	260	395	395	1000
≈ kg	4	5,5	8,5	11	15	20	30	36	93



Art. 25060

Ball Valves PN 40 steel flat body with full bore flanged connections

N. 25100

Materials

Body made from steel bar, AISI 304 stainless steel shaft, shaft in stainless steel with 13% Cr, gaskets in PTFE (Teflon).

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water oil, fuel etc.

This valve is "split - body" type, i. e. with the body divided in two pieces.

Fire-safe floating ball (if a gaskets destruction due to an exposition to the fire takes place, the sealing is guaranteed on the metal seat);

- The sealing is guaranteed in the two directions;
- Smooth operation in a quarter of a turn with locking device in the opening and closing positions;
- The stem is provided with raised face against the ejection from the body and with outwarding sealing gaskets;
- View of the Ball position;

- Full bore with negligible pressure drops.

The valve is fixed to the flanges of the pipe, instead by the usual through-bolts, using screws screwed into blind holes formed in the body of the valve. It is thus possible to disassemble one of the two flanges maintaining the valve in operation on the trunk of the pipe. The number and diameter of the threaded holes and the diameter of their center holes are adaptable to the flanges UNI PN 16 and PN 40.

Options

X With ball in stainless steel AISI 316

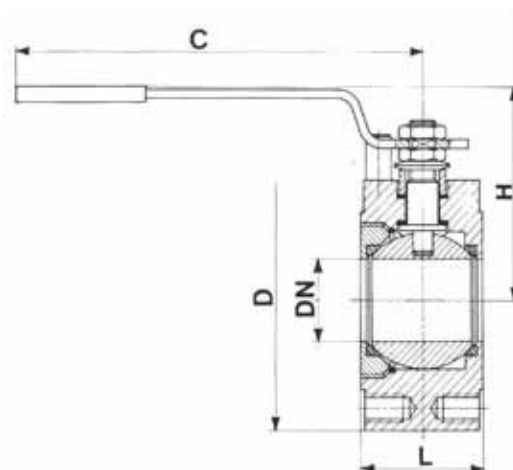
Ball Valves PN 16 flat body with full bore flanged connections

N. 25140 cast iron

N. 25160 brass

Features such as Art. 25100

Art. 25100	Test pressure: 60 bar											
PN 40	Working pressure: 40 bar up to 150°C											
DN	10	15	20	25	32	40	50	65	80	100	125	150
D	90	90	100	110	130	140	150	175	190	220	250	300
L	35	35	38	42	50	60	70	95	118	140	175	210
H	64	64	66	85	90	118	126	139	144	195	212	265
C	145	145	145	180	180	275	275	380	380	400	400	400
≈ kg	1,5	1,5	2	2,7	3,8	6,5	8	15	20	30	47	68



Art. 25100

Steel ball valves PN 40 wafer type four tie rods with threaded flanges

N. 25420 **reduced bore**
N. 25460 **full bore**

Materials

Body and end flanges in forged steel ASTM A105, AISI 316 stainless steel ball; seals of PTFE (Teflon).

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

This valve is "split - body" type, i. e. with the body divided in two pieces.

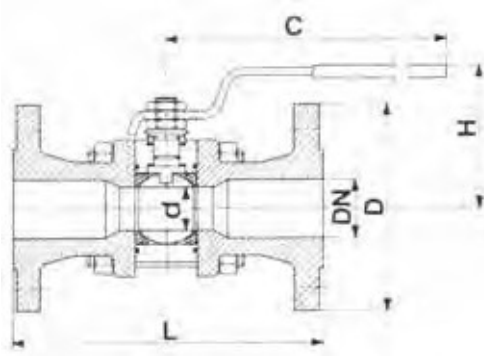
Fire-safe floating ball (if a gaskets destruction due to an exposition to the fire takes place, the sealing is guaranteed on the metal seat);

- The sealing is guaranteed in the two directions;
- Smooth operation in a quarter of a turn with locking device in the opening and closing positions;
- The stem is provided with raised face against the ejection from the body and with outwarding sealing gaskets;
- View of the Ball position;
- In the reduced bore very small pressure drop and negligible in the full bore.

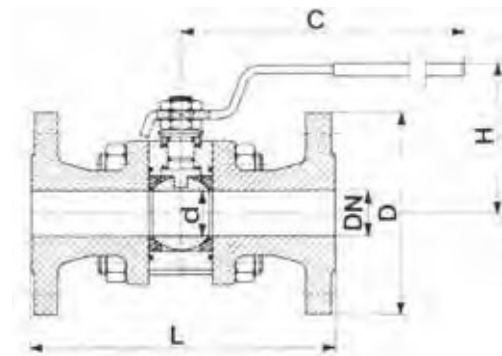
The flanges dressed and drilled according to UNI, provided with an emphasis on simple and lining seal.

Art. 25420	Test pressure: 60 bar								
PN 40	Working pressure: 40 bar up to 150°C								
DN	15	20	25	32	40	50	65	80	100
D	95	105	115	140	150	165	185	200	235
L	130	150	160	180	200	230	290	310	350
H	65	69	85	90	109	114	124	145	170
C	125	125	160	160	225	225	225	350	350
d	10	14	21	25	32	38	48	65	73

Art. 25420	Test pressure: 60 bar								
PN 40	Working pressure: 40 bar up to 150°C								
DN	15	20	25	32	40	50	65	80	100
D	95	105	115	140	150	165	185	200	235
L	130	150	160	180	200	230	290	310	350
H	69	85	90	109	114	124	145	170	190
C	125	160	160	225	225	225	350	350	350
d	14	21	25	32	38	48	65	73	94



Art. 25420



Art. 25460

Ball Valves PN 100 steel threaded

N. 25800 **reduced bore**
N. 25820 **full bore**

Materials

Body, ring and shaft in steel, ball in AISI 304 stainless steel up to 2" and chrome plated for larger sizes; seals in PTFE (Teflon) or glass filled PTFE on request.

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

The body is practically a single piece with a threaded ring that holds it in place the sphere after assembly. Fire-safe floating ball (if a gaskets destruction due to an exposure to the fire takes place, the sealing is guaranteed on the metal seat);

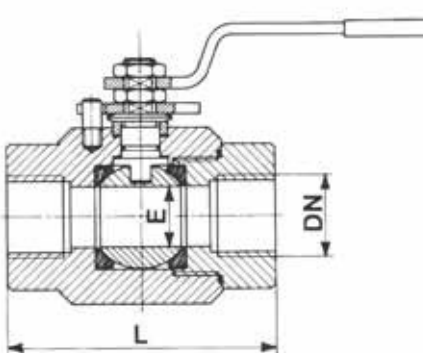
- The sealing is guaranteed in the two directions;
- Smooth operation in a quarter of a turn with locking device in the opening and closing positions;
- The stem is provided with raised face against the ejection from the body and with outwarding sealing gaskets;
- View of the Ball position;
- In the reduced bore very small pressure drop and negligible in the full bore.

The flanges dressed and drilled according to UNI, provided with an emphasis on simple and lining seal.

Options

- X With ball in stainless steel AISI 316

Art. 25800 25820 PN 100	Test pressure: 150 bar Working pressure: 100 bar fino a 150°C										
DN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L (25800)	-	-	65	74	90	100	115	130	140	168	203
L (25820)	65	65	75	90	100	115	130	140	168	203	225
E (25800)	-	-	10	14	21	25	32	38	48	65	73
E (25820)	10	10	14	21	25	32	38	48	65	73	94
≈ kg (25800)	-	-	0,6	0,8	1,4	1,9	3,0	4,2	6,8	13	18
≈ kg (25820)	0,6	0,6	0,8	1,4	1,9	3,0	4,2	6,8	13	18	30



Art. 25820

Steel Ball Valves for high pressure with threaded ends

N. 25900

Materials

Body and threaded ends in steel, chrome steel ball, Buna N seals up to DN 2" and PTFE for larger sizes.

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

The body is practically a single piece with a threaded ring that holds it in place the ball after its assembly; Floating ball; Body made with two ends provided or formed by two

flanged portions, according to the measure, as shown in Figure;

- Shaft anti-ejection with O-rings;
- Attacks on gas threaded sleeves;
- Full Bore with negligible pressure drop;

The stem is provided with raised face against the ejection from the body and with outwarding sealing gaskets;

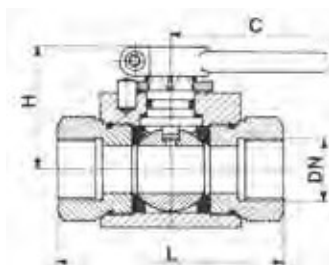
- View of the Ball position;

The flanges dressed and drilled according to UNI, provided with an emphasis on simple and lining seal.

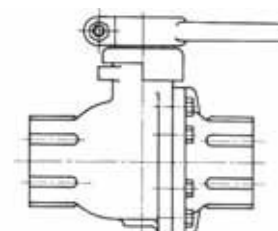
Options

- P with seals in PTFE (Teflon)

Art. 25900	Test pressure 50% higher than the operating one										
	Pressure like the one from the table up to 80 ° C for Buna N and 150 ° C for PTFE										
DN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L H C	69	72	83	95	110	110	130	140	185	205	240
	38	38	44	52	54	67	73	80	140	150	165
	150	150	175	200	200	240	240	240	320	320	320
PN bar	500	500	500	350	350	350	350	350	40	40	40
≈ kg	0,4	0,5	0,8	1,3	2	2	4	6	13	18	21



Art. 25900
From DN 1/4 up to DN 2



Art. 25900
From DN 2 1/2 up to DN 4

Ball valves wafer type stainless steel heavy series to four rods with threaded ends

N. 26000

Materials

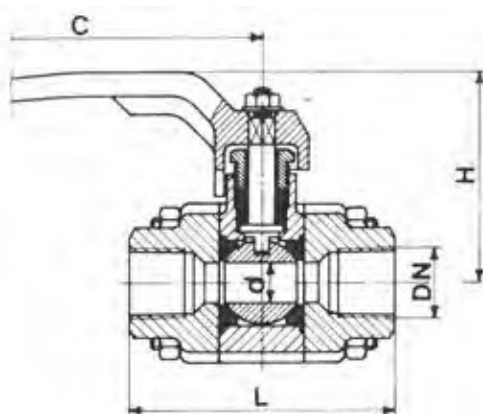
Body and threaded ends forged steel, ASTM A105 steel tie rods, ball in AISI 316 stainless steel, seals in PTFE (Teflon).

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

- Fire-safe Floating ball;
- Threaded ends tightened on the central body with tie;
- Shaft anti-ejection with O-rings;
- Access is available to ball and seals by removing the central body without removing the valve from the pipeline;
- Elimination of the union for mounting the valve on the pipe;
- Bushing adjustable packing;
- Reduced Bore with negligible pressure drop;
- Operation with a quarter turn;
- Attacks on gas threaded sleeves;
- View of the Ball position.

Art. 26000	Test pressure 50% higher than the operating one Pressure like the one from the table up to 150°C							
DN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
d	11	11	11	15	21	25	32	38
L	69	69	69	95	110	127	127	144
H	74	74	74	76	84	98	98	118
C	160	160	160	170	190	225	225	250
≈ kg	1,0	1,0	1,0	1,5	2,3	4,0	4,0	7,2
PN bar	160	160	150	150	130	130	100	100



Art. 26000

Steel ball valves PN 64 wafer type with four tie rods with threaded ends

N. 26010
N. 26020

Materials

Body and threaded ends forged steel, ASTM A105 steel tie rods, ball in AISI 316 stainless steel, seals in PTFE (Teflon).

Features

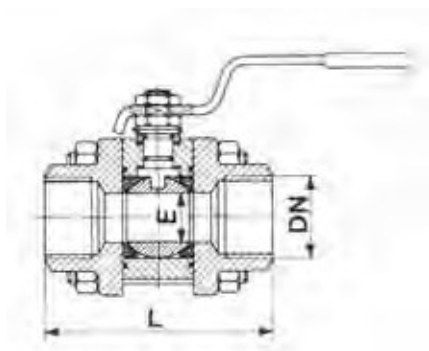
This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

- Fire-safe Floating ball;
- Threaded ends tightened on the central body with tie;
- Shaft anti-ejection;
- Access is available to ball and seals by removing the central body without removing the valve from the pipeline;
- Elimination of the union for mounting the valve on the pipe;
- Bushing adjustable packing;
- Reduced Bore with negligible pressure drop;
- Operation with a quarter turn;
- Attacks on gas threaded sleeves;
- View of the Ball position.

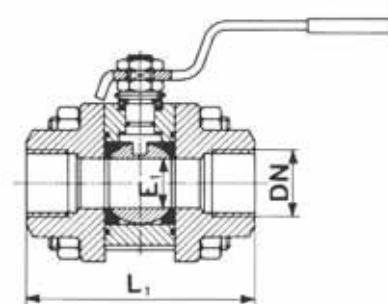
Options

- X with ball of stainless steel AISI 316

Art. 26010 26020	Test pressure: 100 bar Working pressure: 64 bar up to 150°C										
	PN 64										
DN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L	-	-	75	75	90	105	110	130	145	202	210
L ₁	75	75	75	90	105	110	130	145	202	210	230
E	-	-	10	14	21	25	32	38	48	65	73
E ₁	10	10	14	21	25	32	38	48	65	73	94
≈ kg (26010)	-	-	0,6	0,7	1,4	2,2	3,3	4,3	7,3	15	20
≈ kg (26020)	0,6	0,6	0,7	1,4	2,2	3,3	4,3	7,3	15	20	30



Art. 26010



Art. 26020

Ball valves brass full bore PN 16 with threaded flanges

N. 27000 wafer type long
N. 27020 short type

Materials

Body and flanged ends of brass ball brass chromed steel rods, gaskets, PTFE (Teflon).

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

- Floating ball;
- Full Bore;

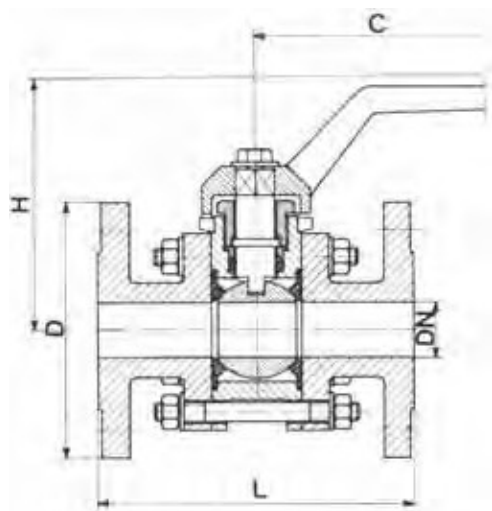
- Tight body with flanged ends on tie rods for the Art. 27000 and screwed to the Art. 27020;
- Access is available to ball and seals by removing the central body without removing the valve from the pipeline;
- Bushing adjustable packing;
- Operation with a quarter turn;
- Attacks on gas threaded sleeves;
- View of the Ball position;
- Negligible pressure drop

The flanges dressed and drilled according to UNI PN 16, are provided with an emphasis on simple and lining seal.

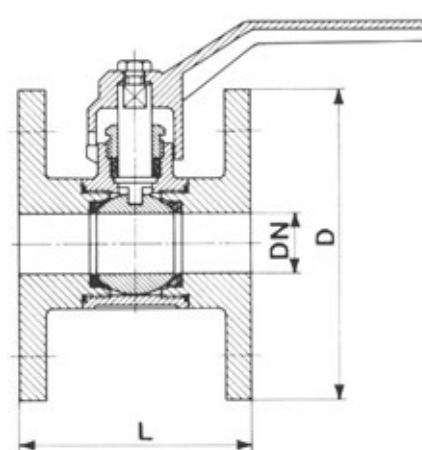
Options

- X with ball of stainless steel AISI 316

Art. 27000 27020	Test pressure: 25 bar Working pressure: 16 bar up to 150°C							
	PN 16							
DN	20	25	32	40	50	65	80	100
D	105	115	140	150	165	185	200	220
L (tipo lungo)	112	129	149	161	182	213	244	279
L (tipo corto)	80	85	100	110	125	140	150	170
H	83	96	108	120	126	135	151	167
C	142	185	185	215	215	260	260	260



Art. 27000



Art. 27020

Brass ball valves with threaded ends

N. 27180 **reduced bore PN 16/10**
N. 27200 **full bore PN 16/10**

Materials

Body and flanged ends of brass ball brass chromed steel rods, gaskets, PTFE (Teflon).

Features

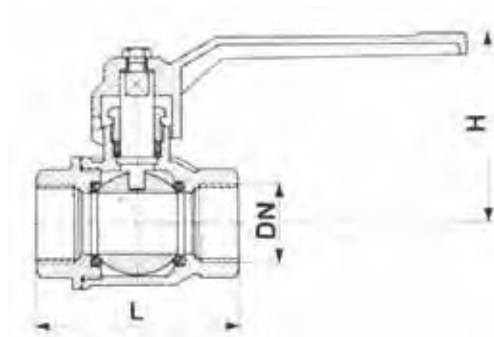
This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

- Fire-safe Floating ball;
- Seal in both directions;

- Operation softer of a quarter turn with stopping device in open and closed positions;
- Bushing adjustable packing;
- Operation with a quarter turn;
- Attacks on gas threaded sleeves;
- View of the Ball position;
- Negligible pressure drop

Art. 27180	Test pressure 50% higher than the operating one Working pressure like the one from the table up to 150°C									
DN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
L	38	38	47	53	63	71	81	92	120	145
H	36	36	50	54	63	65	70	90	93	110
PN bar	16	16	16	16	16	16	16	16	10	10

Art. 27200	Test pressure 50% higher than the operating one Working pressure like the one from the table up to 150°C									
DN	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L	42	51	59	68	79	90	105	141	164	182
H	52	53	62	66	70	90	105	140	142	175
PN bar	16	16	16	16	16	16	16	10	10	10



Art. 27200

Ball valves brass heavy type full bore with threaded

N. 27200 PN 30/12
 N. 27300 PN 64/16

Materials

Body in two pieces of brass; tree brass chrome-plated brass ball, PTFE seals (Teflon). A request with stainless steel ball.

Features

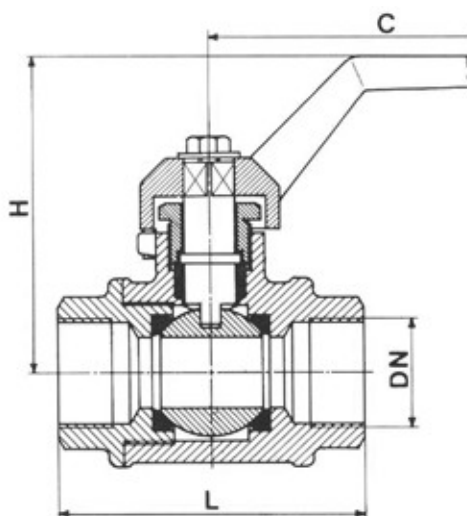
This interception valve has a perfect pneumatic sealing and it is a suitable for air , gas, vacuum system , water oil, fuel etc.

- Fire-safe Floating ball;

- Seal in both directions;
- Operation softer of a quarter turn with stopping device in open and closed positions;
- Bushing adjustable packing;
- Operation with a quarter turn;
- Attacks on gas threaded sleeves;
- View of the Ball position;
- Negligible pressure drop

Art. 27200	Test pressure 50% higher than the operating one Working pressure like the one from the table up to 150°C										
DN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L	46	52	64	72	86	94	106	118	141	164	198
H	50	52	53	60	70	75	90	100	140	142	175
C	85	85	85	85	110	110	140	160	200	200	320
PN bar	30	30	30	30	30	320	20	20	20	12	12

Art. 27300	Test pressure 50% higher than the operating one Working pressure like the one from the table up to 150°C										
DN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L	52	52	60	70	84	95	111	128	161	192	226
H	60	60	63	82	86	105	113	124	135	151	165
C	120	120	120	135	155	170	170	205	260	260	260
PN bar	64	64	64	40	40	25	25	25	25	16	16



Art. 27300

Brass ball valves three-way with threaded

N. 27500

Materials

Body and threaded ends forged brass; Post maneuver brass, chrome-plated brass ball, PTFE seals (Teflon).

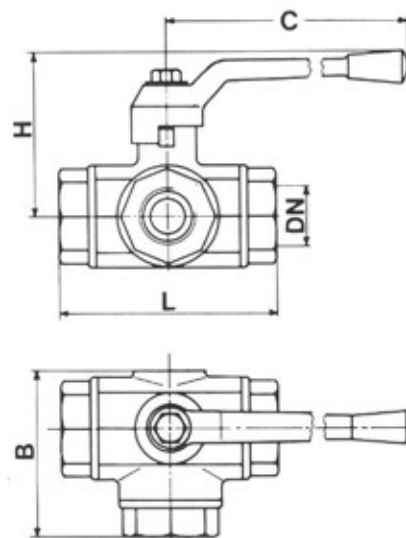
Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

- Fire-safe Floating ball;
- Threaded screwed on the body;
- O-rings on the shaft of maneuver;

- Drilling of the ball in the versions shown in the figure;
- Operation with a quarter turn;
- Attacks on gas threaded sleeves;
- View of the Ball position;

Art. 27500	Test pressure 50% higher than the operating one Working pressure like the one from the table up to 150°C							
DN	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
L	81	81	81	92	108	118	140	164
B	64	64	64	74	85	94	112	131
H	86	86	86	105	115	115	115	142
C	145	145	145	180	210	210	210	260
PN bar	20	20	20	16	16	10	10	10



Art. 27500



Variants of drilling Ball

Steel ball valves with full bore PN 16 flanged connections and pneumatic actuator

- N. 28020** **without electro tray**
- N. 28030** **with electro drawer at one solenoid**
- N. 28040** **with electro tray with two solenoids**

Materials

Body and steel shaft, stainless steel ball chrome plated for larger sizes; OR rings on the shaft in Buna N or Viton on request; seals on the ball in PTFE (Teflon) or glass-filled PTFE on request .

Features

This interception valve has a perfect pneumatic sealing and it is a suitable for air , gas, vacuum system , water oil, fuel etc.

- Split-Body type;
- Fire-safe Floating ball;
- Seal in both directions;
- Shaft equipped with mechanism against expulsion from the body and seals to the outside;
- Full Bore Negligible pressure drop;

Features of the actuator

The actuator, suitable for pneumatic control with pressure ranging between 4 and 10 bar, is constituted by a cylinder of light extruded alloy in which are sliding two pistons double effect of light alloy, integral with two racks. The plungers are also guided by two shoes coated with plastic material. The two racks at the same

time engage in a spool shaft integral with the steel output of the actuator. The two cylinder heads are equipped with adjustment screws of the limit switch closing of $\pm 5^\circ$. The entire actuator is very compact and has no external moving part, providing maximum security against accidents; said static type of actuator is also prescribed by many institutions accident prevention.

The Art. 28030 is equipped with an electro distribution drawer operated by a solenoid. The valve can be provided of the type "open at rest" or "normally closed". The electrical control is of the type with contacts held: in case of power failure the valve moves to the rest position.

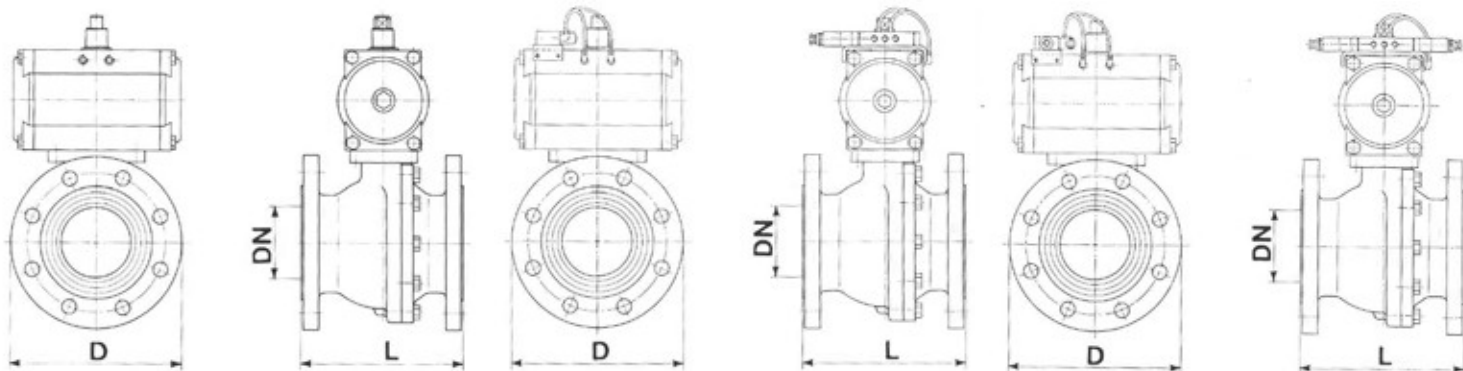
The Art. 28040 is equipped with an electro distribution drawer two solenoids. The command is electric pulse: in the event of a power failure the valve remains in the position in which it is located. The valves with electro drawer distribution are particularly suitable for control by means of automatic control such as pressure switches, thermostats, clocks etc..

Options

- F with Limit switches
- M with increased cylinder single-acting and spring return
- X with ball of stainless steel AISI 316

PN 16	Test pressure: 25 bar Working pressure: 16 bar up to 150°C													
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	115	120	125	130	140	150	170	180	190	325	350	400	533*	610*

(*) Face to face ANSI B16.10



Art. 28020

Art. 28030

Art. 28040

Ball valve full bore PN 16 in cast iron with flanged connections and pneumatic actuator

- N. 28100 without electro drawer
- N. 28110 with electro drawer at one solenoid
- N. 28120 with electro drawer with two solenoid

Materials

Cast iron body, chrome plated brass ball, shaft seals of Buna N; seals on the ball of PTFE (Teflon).

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

- Split-Body type;
- Fire-safe Floating ball;
- Seal in both directions;
- Shaft equipped with seals to the outside;
- Full Bore Negligible pressure drop;

Features of the actuator

The actuator, suitable for pneumatic control with pressure ranging between 4 and 10 bar, is constituted by a cylinder of light extruded alloy in which are sliding two pistons double effect of light alloy, integral with two racks. The plungers are also guided by two shoes coated with plastic material. The two racks at the same time engage in a spool shaft integral with the steel output of the actuator. The two cylinder heads are equipped with adjustment screws of the limit switch

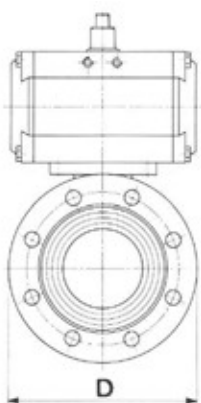
closing of $\pm 5^\circ$. The entire actuator is very compact and has no external moving part, providing maximum security against accidents; said static type of actuator is also prescribed by many institutions accident prevention. **The Art. 28110** is equipped with an electro distribution drawer operated by a solenoid. The valve can be provided of the type "open at rest" or "normally closed". The electrical control is of the type with contacts held: in case of power failure the valve moves to the rest position.

The Art. 28120 is equipped with an electro distribution drawer two solenoids. The command is electric pulse: in the event of a power failure the valve remains in the position in which it is located. The valves with electro drawer distribution are particularly suitable for control by means of automatic control such as pressure switches, thermostats, clocks etc..

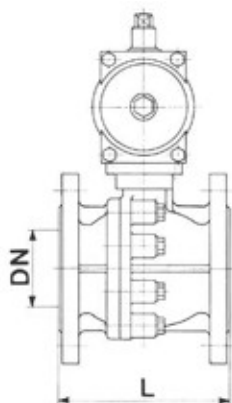
Options

- F with Limit switches
- M with increased cylinder single-acting and spring return

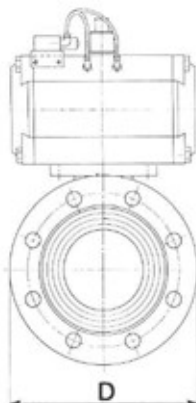
PN 16	Test pressure: 25 bar Working pressure: 16 bar up to 150°C								
DN	25	40	50	65	80	100	125	150	200
D	115	150	165	185	200	220	250	285	340
L	125	140	150	170	180	190	200	210	400



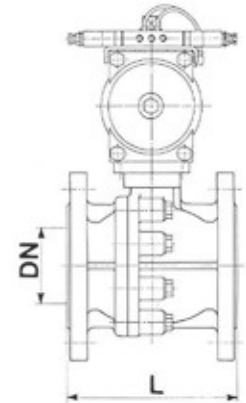
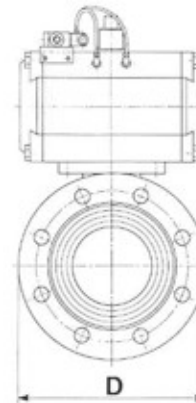
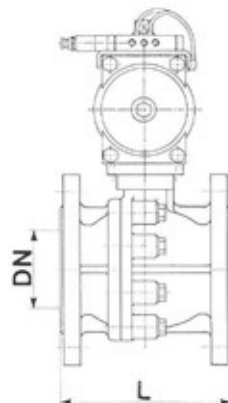
Art. 28100



Art. 28110



Art. 28120



Ball Valves PN 40 steel flat body with threaded flanges and pneumatic actuator

- N. 28200 without electro drawer
- N. 28210 with electro drawer at one solenoid
- N. 28220 with electro drawer with two solenoid

Materials

Body made from steel bar, steel ball AISI 304 stainless steel shaft stainless steel with 13% Cr; seals on the ball of PTFE (Teflon).

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

- Split-Body type;
- Fire-safe Floating ball;
- Seal in both directions;
- Shaft equipped with seals to the outside;
- Full Bore Negligible pressure drop;

The valve is fixed to the flanges of the pipe, instead of with the usual through-bolts, by means of screws screwed into blind holes formed in the body of the valve. It is thus possible to disassemble one of the two flanges maintaining the valve in operation on the trunk of the pipe.

Features of the actuator

The actuator, suitable for pneumatic control with pressure ranging between 4 and 10 bar, is constituted

by a cylinder of light extruded alloy in which are sliding two pistons double effect of light alloy, integral with two racks. The plungers are also guided by two shoes coated with plastic material. The two racks at the same time engage in a spool shaft integral with the steel output of the actuator. The two cylinder heads are equipped with adjustment screws of the limit switch closing of $\pm 5^\circ$. The entire actuator is very compact and has no external moving part, providing maximum security against accidents; said static type of actuator is also prescribed by many institutions accident prevention.

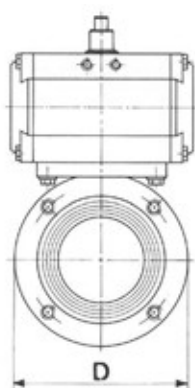
The Art. 28210 is equipped with an electro distribution drawer operated by a solenoid. The valve can be provided of the type "open at rest" or "normally closed". The electrical control is of the type with contacts held: in case of power failure the valve moves to the rest position.

The Art. 28220 is equipped with an electro distribution drawer two solenoids. The command is electric pulse: in the event of a power failure the valve remains in the position in which it is located. The valves with electro drawer distribution are particularly suitable for control by means of automatic control such as pressure switches, thermostats, clocks etc..

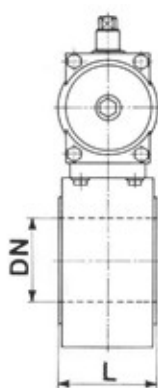
Options

- F with Limit switches
- M with increased cylinder single-acting and spring return
- X with ball of stainless steel AISI 316

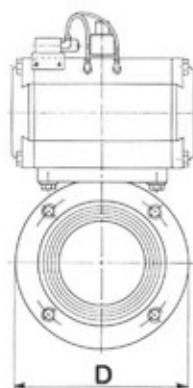
PN 40	Test pressure: 60 bar Working pressure: 40 bar up to 150°C											
DN	10	15	20	25	32	40	50	65	80	100	125	150
D	90	90	100	110	130	140	150	175	190	220	250	300
L	35	35	38	42	50	60	70	95	118	140	175	210



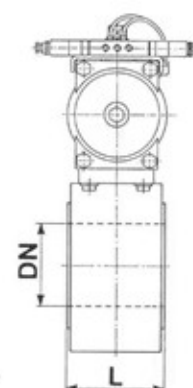
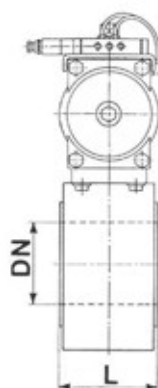
Art. 28200



Art. 28210



Art. 28220



Steel ball valves PN 64 with threaded flanges and pneumatic actuator

- N. 28400 without electro drawer
- N. 28410 with electro drawer at one solenoid
- N. 28420 with electro drawer with two solenoid

Materials

Body and threaded ends forged steel ASTM A105, steel tie rods, ball in stainless steel AISI 316; seals in PTFE (Teflon).

Features

This interception valve has a perfect pneumatic sealing and it is suitable for air, gas, vacuum system, water, oil, fuel etc.

- Fire-safe Floating ball;
- Threaded ends tightened on the central body with rods;
- Ability to access the ball and seals by removing the central body without removing the valve from the pipeline;
- Bushing adjustable packing;
- Shaft anti-ejection;
- Attacks on gas threaded sleeves;
- Full bore with total losses negligible.

Features of the actuator

The actuator, suitable for pneumatic control with pressure ranging between 4 and 10 bar, is constituted by a cylinder of light extruded alloy in which are sliding two pistons double effect of light alloy, integral with two

racks. The plungers are also guided by two shoes coated with plastic material. The two racks at the same time engage in a spool shaft integral with the steel output of the actuator. The two cylinder heads are equipped with adjustment screws of the limit switch closing of $\pm 5^\circ$. The entire actuator is very compact and has no external moving part, providing maximum security against accidents; said static type of actuator is also prescribed by many institutions for accident prevention.

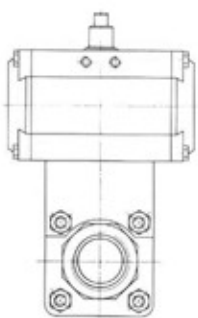
The Art. 28410 is equipped with an electro distribution drawer operated by a solenoid. The valve can be provided of the type "open at rest" or "normally closed". The electrical control is of the type with contacts held: in case of power failure the valve moves to the rest position.

The Art. 28420 is equipped with an electro distribution drawer two solenoids. The command is electric pulse: in the event of a power failure the valve remains in the position in which it is located. The valves with electro drawer distribution are particularly suitable for control by means of automatic control such as pressure switches, thermostats, clocks etc..

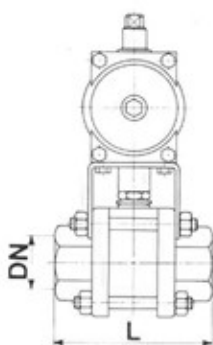
Options

- F with Limit switches
- M with increased cylinder single-acting and spring return

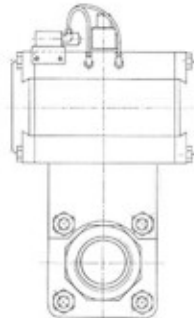
PN 64	Test pressure: 100 bar Working pressure: 64 bar up to 150°C								
DN	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L	75	90	105	110	130	145	202	210	230



Art. 28400



Art. 28410



Art. 28420

