

## Technical Catalogue



Fluid Handling **Experts**

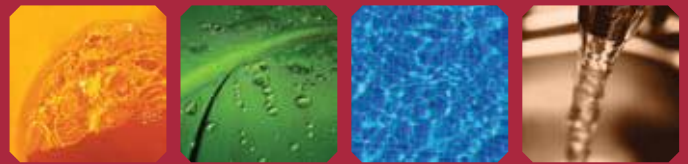
## Company Certificate



**ISO 9001**



**ISO 14001**



## Product Certificate



## Associates



## Collaborations





**Cepex** will meet all your fluid handling needs. For more than 25 years we have been present in the market, committed to satisfying our customers 100%. Thanks to their support and loyalty, **Cepex** has become one of the leading European manufacturers of plastic valves and fittings, and has created its own worldwide distribution network.

**Cepex** concentrates all its energy on offering effective solutions to the marketplace. Our focus on the following five principles has resulted in highly competitive and reliable products:

**Research.** To stand out in today's markets, companies need to rapidly respond to customers' changing requests. **Cepex** is committed to continuous research and innovation supported by an expert R&D team that systematically analyzes our markets to offer products that provide real solutions to specific needs.

**Technology.** The entire production process, from product conception to delivery to the customer, is developed using the most advanced technologies to guarantee the highest quality and to minimize errors.

**Quality.** Our manufacturing processes are supported by a total quality system, guaranteed by ISO 9001 certification. Our products are subjected to demanding controls, including 100% verification of all types of valves. As a result, **Cepex** has obtained several quality certifications from the world's most prestigious organizations.

**Service.** Customer service is the primary focus of our human resources team, and the goal of all the companies within our group. Our customers have direct access to an experienced technical and sales team to address any questions they may encounter regarding our products and their applications.

**Environmental policy.** **Cepex** respects the environment and applies this concern to its manufacturing processes so we can all enjoy a more pleasant environment. Our manufacturing plants are ISO 14001 certified to guarantee respect for the environment in all the activities involved in our internal processes.

Technical catalogue constantly updated in our website: [www.cepex.com](http://www.cepex.com)

# Worldwide installations

## Industry



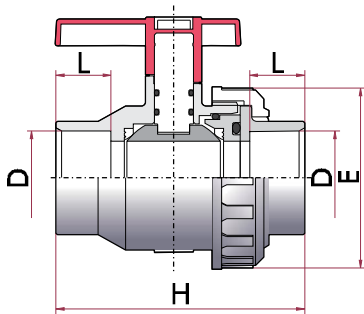
## Irrigation



## Pool



# Ball valves - Uniblock Series



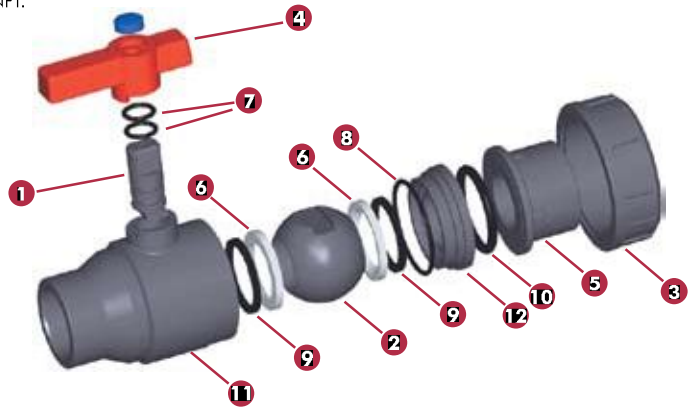
## FEATURES

- "Antiblock" system that avoids ball blockage.
- 100% factory tested.
- Fast replacement of O-Rings and ball seat without additional tools.
- Low maintenance.
- Excellent flow characteristics.
- Easy to install.
- Light weight.
- Ideally suited for irrigation and swimming pools.
- Sizes from D20 to D110 (1/2" - 4").
- Available standards: Metric, ASTM, British Standard.
- Threaded versions: BSP and NPT.
- O-Rings in EPDM.
- Ball seat in HDPE.

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F)  
water temperature:

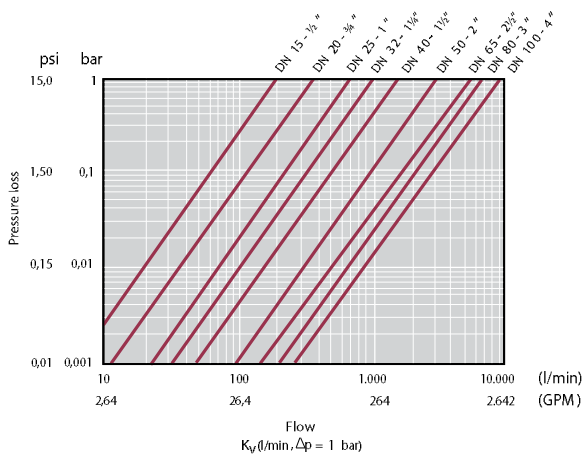
- D20 - D110 (1/2" - 4"):  
PN 10 (150 psi)



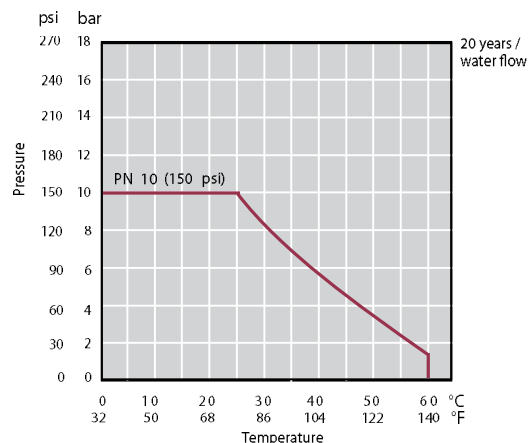
CODE	D	DN	PN	L	H	E
22773	20	15	10	16	81	52
22774	25	20	10	19	99	60
22775	32	25	10	22	111	69
22776	40	32	10	26	130	84
11375	50	40	10	31	135	94
15826	63	50	10	38	169	116
22777	75	65	10	44	220	128
22778	90	80	10	51	256	178
36728	110	100	10	63	331	228

FIG.	Parts	Material
1	Shaft	PVC-U
2	Ball	PVC-U
3	Union nut	PVC-U
4	Handle	PP
5	End connector	PVC-U
6	Ball seat	HDPE
7	Shaft o-ring	EPDM
8	Body o-ring	EPDM
9	Dampener seal	EPDM
10	End connector o-ring	EPDM
11	Body	PVC-U
12	Seal-carrier	PVC-U

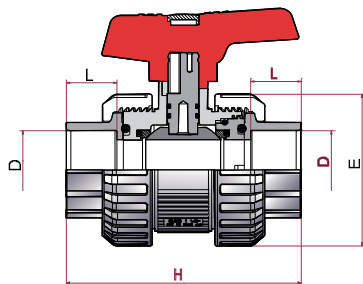
## PRESSURE LOSS DIAGRAM



## PRESSURE / TEMPERATURE GRAPH



# Ball valves - [STD] Series



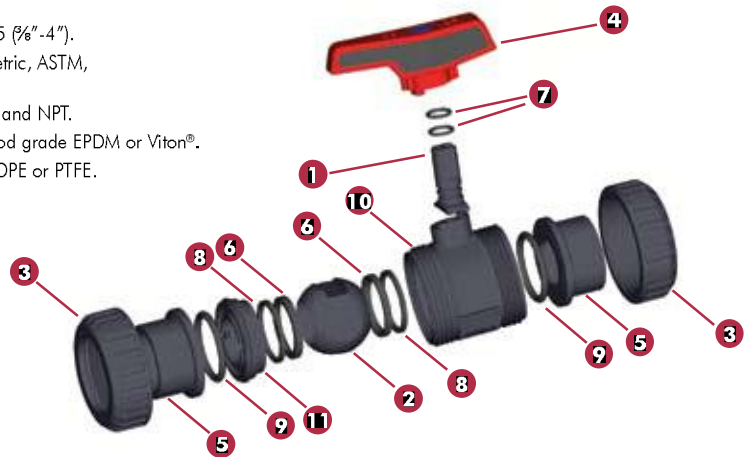
## FEATURES

- "Antiblock" system that avoids ball blockage.
- 100% factory tested.
- Minimal pressure drop.
- Low operating torque.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Threaded seal-carrier for upstream maintenance without emptying the system. Handle built-in tool for easy adjustment of the threaded seal-carrier (and ball torque).
- Sizes from D16 to D125 (½"-4").
- Available standards: Metric, ASTM, British Standard, JIS.
- Threaded versions: BSP and NPT.
- O-Rings available in food grade EPDM or Viton®.
- Ball seat available in HDPE or PTFE.

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F) water temperature:

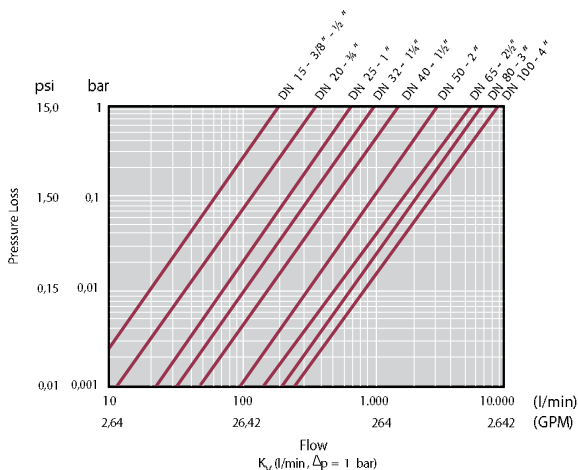
- D16-D63 (½"-2"): PN16 (240 psi)
- D75-D125 (2 ½"-4"): PN 10(150 psi)



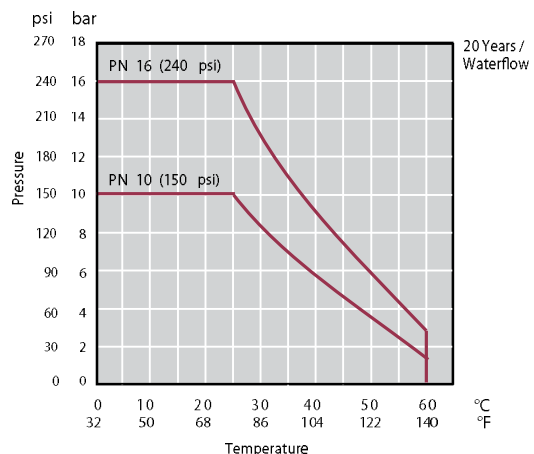
PVC-U	D	DN	PN	L	H	E
36500	16	15	16	13	87	50
36501	20	15	16	16	87	50
36502	25	20	16	19	101	61
36503	32	25	16	22	122	70
36504	40	32	16	26	135	81
36505	50	40	16	31	149	96
36506	63	50	16	38	174	118
36507	75	65	10	44	216	146
36508	90	80	10	51	256	176
36509	110	100	10	63	359	228

FIG.	Parts	Material
1	Shaft	PVC-U
2	Ball	PVC-U
3	Union nut	PVC-U
4	Handle	PP + TPE
5	End connector	PVC-U
6	Ball seat	HDPE / PTFE
7	Shaft o-ring	EPDM / Food grade EPDM
8	Dampener seal	EPDM / Food grade EPDM
9	End connector o-ring	EPDM / Food grade EPDM
10	Body	PVC-U
11	Seal-carrier	PVC-U

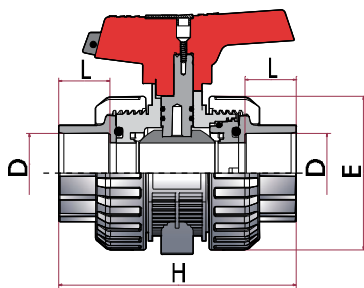
## PRESSURE LOSS DIAGRAM



## PRESSURE / TEMPERATURE GRAPH



# Ball valves - [IND] Series



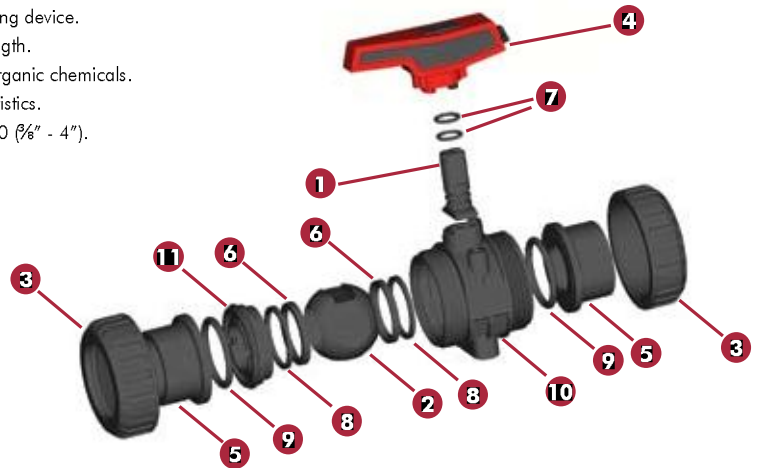
## FEATURES

- "Antiblock" system that avoids ball blockage.
- 100% factory tested.
- Available in PVC-U, PVC-C, PP-H
- Threaded seal carrier, it allows the disassembling of the valve while maintaining system pressure.
- Union ends for easy installation and removal.
- Handle built-in tool for easy adjustment of the threaded seal-carrier (and ball torque).
- Integrated fastening system.
- Features a built-in locking device.
- Good mechanical strength.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Sizes from D16 to D110 (½" - 4").
- Available standards: Metric, ASTM, British Standard, JIS.
- Threaded versions: BSP and NPT.
- O-Rings available in food grade EPDM or Viton®.
- Ball seat in PTFE.
- Electric and pneumatic actuators available.

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F) water temperature:

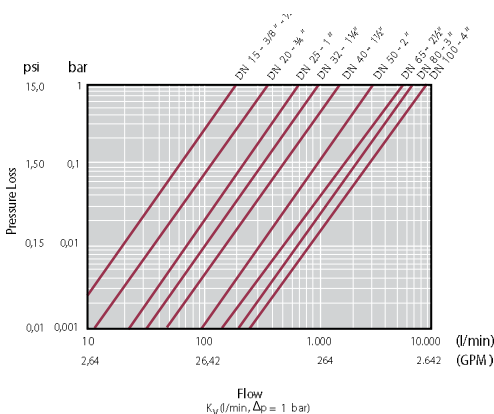
- D16 - D63 (½" - 2"): PN 16 (240 psi)
- D75 - D110 (2½" - 4"): PN 10 (150 psi)
- PVDF: PN 16 (240 psi)
- PP-H & ABS : PN 10 (150 psi)



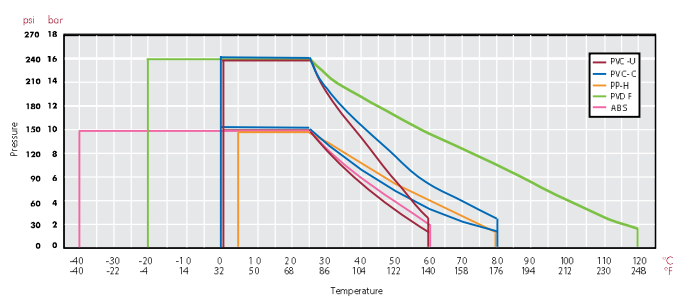
PVC-U	D	DN	PN	L	H	E
36122	16	15	16	13	87	50
36123	20	15	16	16	87	50
36124	25	20	16	19	101	61
36125	32	25	16	22	122	70
36126	40	32	16	26	135	81
36127	50	40	16	31	149	96
36128	63	50	16	38	174	118
36129	75	65	10	44	216	146
36130	90	80	10	51	256	176
36131	110	100	10	63	359	228

FIG.	Parts	Material
1	Shaft	
2	Ball	PVC-U / PVC-C / PP-H
3	Union nut	
4	Handle	PP + TPE
5	End connector	PVC-U / PVC-C / PP-H
6	Ball seat	PTFE
7	Shaft o-ring	Food grade EPDM / Viton®
8	Dampener seal	Food grade EPDM / Viton®
9	End connector o-ring	Food grade EPDM / Viton®
10	Body	PVC-U / PVC-C / PP-H
11	Seal-carrier	

## PRESSURE LOSS DIAGRAM



## PRESSURE / TEMPERATURE GRAPH



# Check Valves - Spring Series

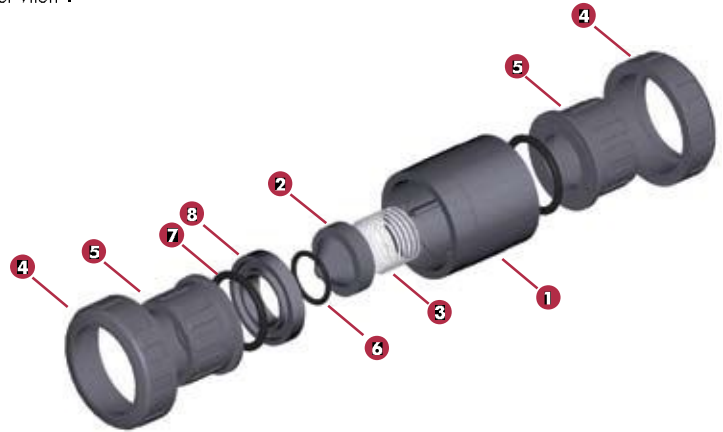
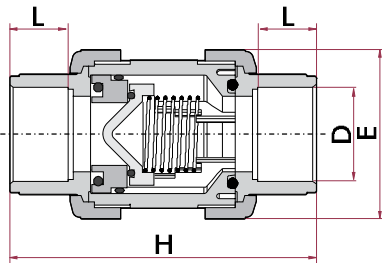
## FEATURES

- 100% factory tested.
- Easy installation and maintenance.
- May be used either vertically and horizontally.
- Available in PVC-U and Corzan® PVC-C.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Sizes from D16 to D110 (3/8" - 4").
- Available standards: Metric, ASTM, British Standard.
- Threaded versions: BSP and NPT.
- O-Rings available in EPDM or Viton®.

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F) water temperature:

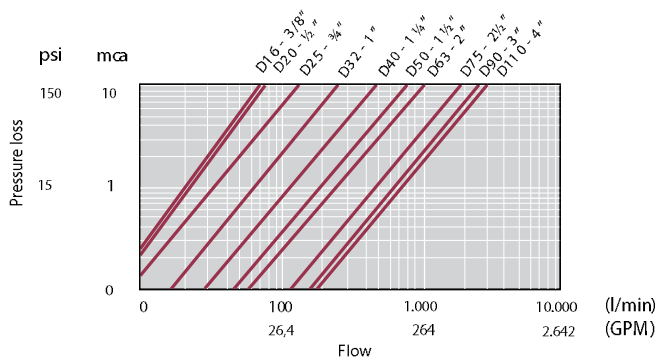
- D16 - D63 (3/8" - 2"): PN 16 (240 psi)
- D75 - D110 (2 1/2" - 4"): PN 10 (150 psi)



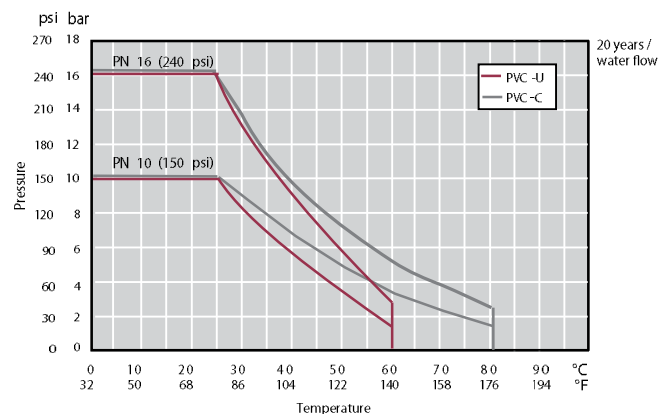
CODE	D	DN	PN	L	H	E
09010	16	15	16	14	84	52
09011	20	15	16	16	84	52
09012	25	20	16	19	108	62
09013	32	25	16	22	119	70
09014	40	32	16	26	142	84
09015	50	40	16	31	162	94
09016	63	50	16	38	192	117
09017	75	65	10	44	232	148
09018	90	80	10	51	269	179
09019	110	80	10	61	279	179
37076	110	100	10	61	279	179

FIG.	Parts	Material
1	Body	PVC-U / PVC-C
2	Cone	PVC-U / PVC-C
3	Spring	Inox. Steel AISI 302
4	Union nut	PVC-U / PVC-C
5	End connector	PVC-U / PVC-C
6	Cone o-ring	EPDM / Viton®
7	End connector o-ring	EPDM / Viton®
8	Seal-carrier	PVC-U / PVC-C

## PRESSURE LOSS DIAGRAM



## PRESSURE / TEMPERATURE GRAPH





# Check Valves - Ball Series



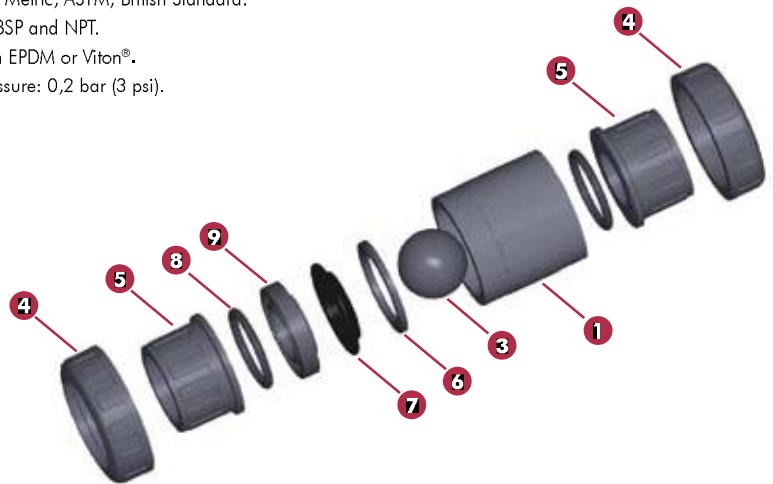
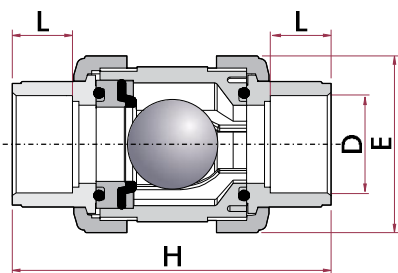
## FEATURES

- 100% factory tested.
- Easy installation and maintenance.
- May be used either vertically and horizontally.
- Available in PVC-U and Corzan® PVC-C.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Sizes from D20 to D110 (1/2" - 4").
- Available standards: Metric, ASTM, British Standard.
- Threaded versions: BSP and NPT.
- O-Rings available in EPDM or Viton®.
- Minimum return pressure: 0,2 bar (3 psi).

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F)  
water temperature:

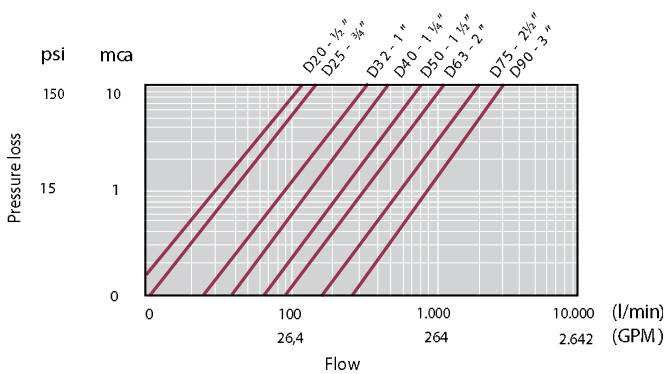
- D20 - D63 (1/2" - 2"): PN 16 (240 psi)
- D75 - D110 (2 1/2" - 4"): PN 10 (150 psi)



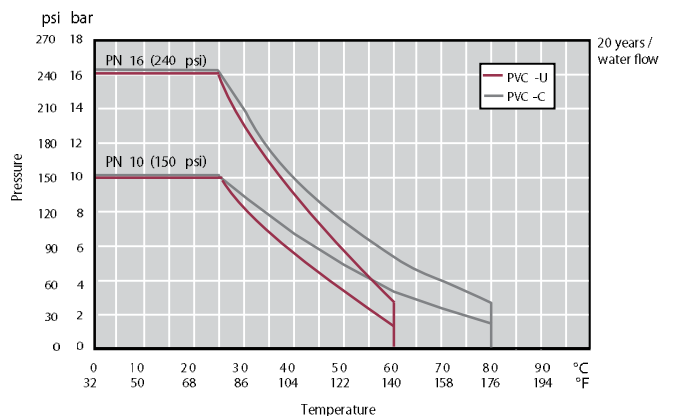
CODE	D	DN	PN	L	H	E
22078	20	15	16	16	84	52
22079	25	20	16	19	108	62
22080	32	25	16	22	119	70
22174	40	32	16	26	142	84
25697	50	40	16	31	162	94
25698	63	50	16	38	192	117
22175	75	65	10	44	232	148
22176	90	80	10	51	269	179
22177	110	80	10	51	269	179

FIG.	Parts	Material
1	Body	PVC-U / PVC-C
3	Ball	PVC-U / PVC-C
4	Union nut	PVC-U / PVC-C
5	End connector	PVC-U / PVC-C
6	Closing ring	PVC-U / PVC-C
7	Body o-ring	EPDM / Viton®
8	End connector o-ring	EPDM / Viton®
9	Seal-carrier	PVC-U / PVC-C

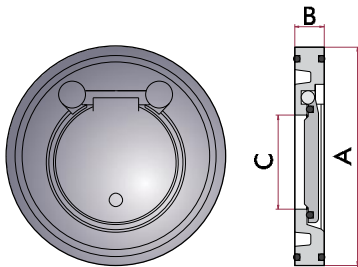
## PRESSURE LOSS DIAGRAM



## PRESSURE / TEMPERATURE GRAPH



# Check Valves - Swing Series



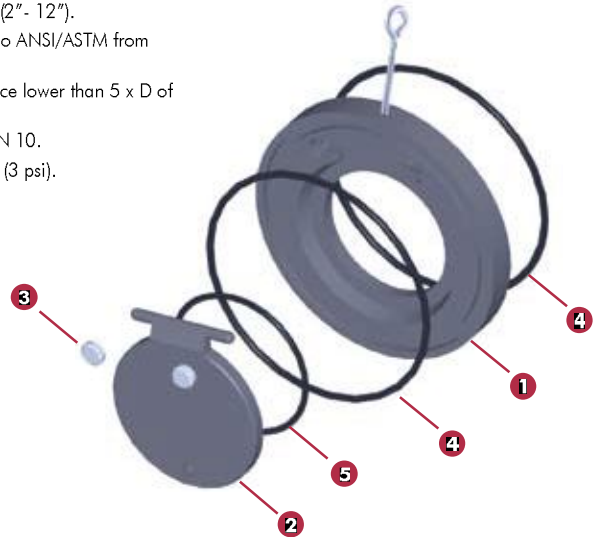
## FEATURES

- Requires little space in piping systems.
- Easy installation: wafer body slips between standard flanges. No gaskets required.
- Vertical and horizontal operation.
- Available with EPDM or Viton® O-Rings.
- Excellent flow characteristics.
- Sizes from D63 mm to D315 mm (2" - 12").
- Available Standards: ISO/DIN, also ANSI/ASTM from D110 (4").
- Do not install the valve at a distance lower than 5 x D of the pump out.
- Install with pipe and flange DIN PN 10.
- Minimum return pressure: 0,2 bar (3 psi).

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F) water temperature:

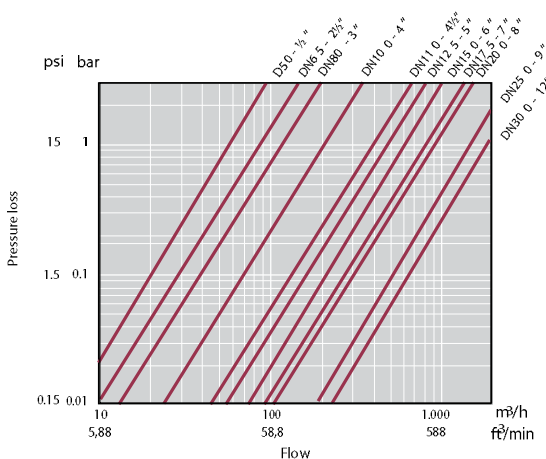
- D75 - D140 (2½" - 5"): PN 10 (150 psi)
- D160 - D225 (6" - 8"): PN 6 (90 psi)



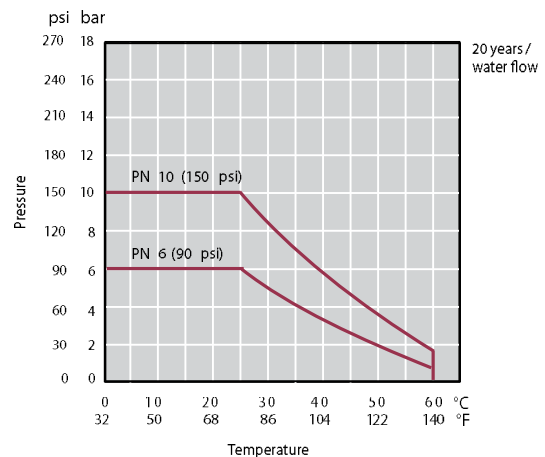
CODE	D	DN	PN	A	B	C
37055	63	50	10	109	20	32
08984	75	65	10	129	20	40
08985	90	80	10	144	20	52
08986	110	100	10	164	22	70
09040	125	110	10	170	25	83
08987	140	125	10	195	23	92
08988	160	150	6	220	25	112
09041	200	175	6	247	28	139
08989	225	200	6	275	35	150
37056	250	250	6	328	40	162
41865	280	250	6	330	40	189
37057	315	300	6	380	45	226

FIG.	Parts	Material
1	Body	PVC-U
2	Flap	PVC-U
3	Cap	PP
4	Body O-ring	EPDM / Viton®
5	Flap O-ring	EPDM / Viton®

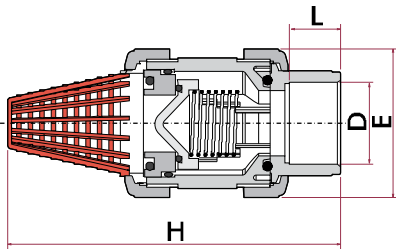
## PRESSURE LOSS DIAGRAM



## PRESSURE / TEMPERATURE GRAPH



# Foot Valves - Spring Series



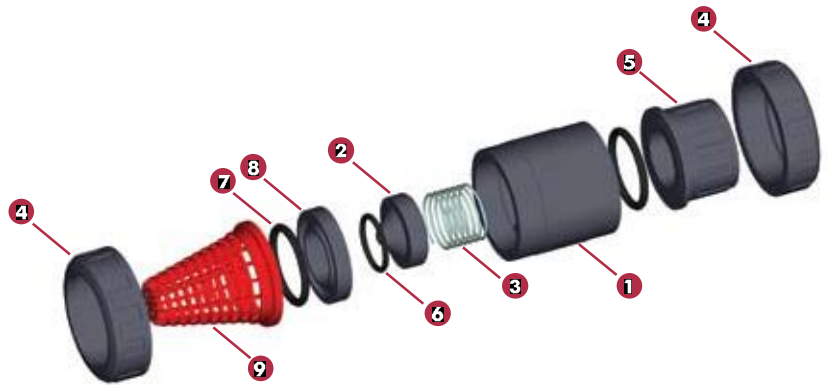
## FEATURES

- 100% factory tested.
- Easy installation and maintenance.
- May be used either vertically and horizontally.
- Available in PVC-U, PVC-C.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Sizes from D16 to D110 (3/8" - 4").
- Available standards: Metric, ASTM, British Standard.
- Threaded versions: BSP and NPT.
- O-Rings available in EPDM or Viton®.

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F) water temperature:

- D16 - D63 (3/8" - 2"): PN 16 (240 psi)
- D75 - D110 (2 1/2" - 4"): PN 10 (150 psi)



CODE	D	DN	PN	L	H	E
08990	16	15	16	14	107	52
08991	20	15	16	16	107	52
08992	25	20	16	19	130	62
08993	32	25	16	22	154	70
08994	40	32	16	26	176	84
08995	50	40	16	31	202	94
08996	63	50	16	38	239	117
08997	75	65	10	44	306	148
08998	90	80	10	51	362	179
08999	110	80	10	61	367	179

FIG.	Parts	Material
1	Body	PVC-U / PVC-C
2	Cone	PVC-U / PVC-C
3	Spring	Inox. Steel AISI 302
4	Union nut	PVC-U / PVC-C
5	End connector	PVC-U / PVC-C
6	Cone o-ring	EPDM / Viton®
7	End connector o-ring	EPDM / Viton®
8	Seal-carrier	PVC-U / PVC-C
9	Foot valve screen	PP

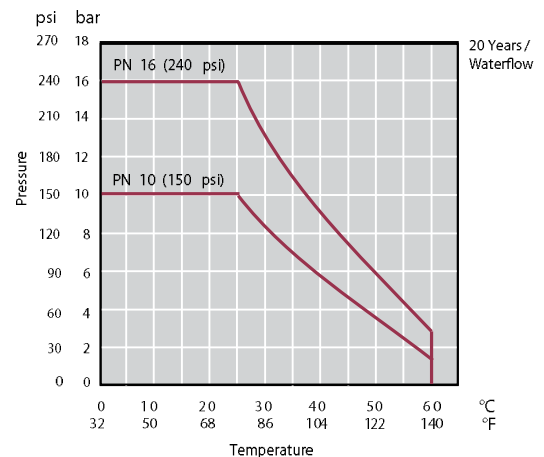
## PRESSURE LOSS DIAGRAM

D16 - 3/8"		D20 - 1/2"		D25 - 3/4"		D32 - 1"		D40 - 1 1/4"		D50 - 1 1/2"		D63 - 2"		D75 - 2 1/2"		D90 - 3"		D110 - 4"	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
0,42	0,34	0,44	0,34	0,54	0,17	0,35	0,13	3,15	0,13	25,85	0,38	39,80	0,70	50,00	0,40	83,50	0,45	77,2	0,46
0,85	0,52	0,92	0,58	1,06	0,22	1,13	0,18	5,20	0,12	20,70	0,27	34,50	0,48	44,20	0,29	74,80	0,39	67,5	0,36
1,35	0,58	1,60	0,19	1,65	0,15	1,62	0,15	7,35	0,16	17,50	0,19	27,50	0,28	36,50	0,23	64,90	0,31	60,1	0,30
2,08	0,28	2,05	0,18	2,18	0,18	2,02	0,14	9,38	0,21	12,30	0,11	21,15	0,17	30,90	0,20	50,38	0,21	49,6	0,22
2,44	0,34	2,48	0,22	3,21	0,29	2,59	0,14	12,17	0,31	8,86	0,09	12,65	0,09	25,50	0,15	43,08	0,18	41,1	0,18
2,80	0,60	3,10	0,30	3,91	0,38	3,07	0,15	15,05	0,43	3,22	0,09	6,25	0,08	20,35	0,12	35,22	0,14	31,5	0,14
-	-	3,53	0,35	4,32	0,44	3,51	0,16	-	-	-	-	-	-	12,30	0,11	28,75	0,11	24,6	0,13
-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,27	0,11	18,02	0,08	15,8	0,01
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,28	0,11	7,9	0,08
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

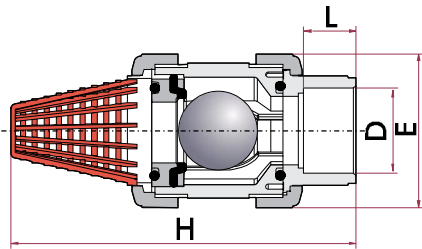
A = Flow (m³/h)

B = Pressure loss (bar)

## PRESSURE / TEMPERATURE GRAPH



# Foot Valves - Ball Series



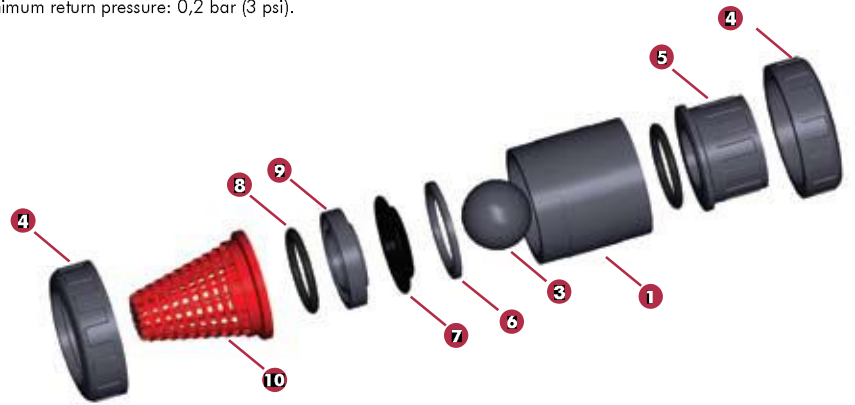
## FEATURES

- 100% factory tested.
- Easy installation and maintenance.
- May be used either vertically and horizontally.
- Available in PVC-U.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Sizes from D20 to D110 (1/2" - 4").
- Available standards: Metric, ASTM, British Standard.
- Threaded versions: BSP and NPT.
- O-Rings available in EPDM or Viton®.
- Minimum return pressure: 0,2 bar (3 psi).

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F)  
water temperature:

- D20 - D63 (1/2" - 2"): PN 16 (240 psi)
- D75 - D110 (2 1/2" - 4"): PN 10 (150 psi)



CODE	D	DN	PN	L	H	E
27537	20	15	16	16	107	52
27538	25	20	16	19	130	62
27539	32	25	16	22	154	70
27540	40	32	16	26	176	84
25705	50	40	16	31	202	94
25706	63	50	16	38	239	117
27543	75	65	10	44	306	148
27544	90	80	10	51	362	179
27545	110	80	10	61	367	179

FIG.	Parts	Material
1	Body	PVC-U
2	Ball	PVC-U
4	Union nut	PVC-U
5	End connector	PVC-U
6	Closing ring	PVC-U
7	Body o-ring	EPDM / Viton®
8	End connector o-ring	EPDM / Viton®
9	Seal-carrier	PVC-U
10	Foot valve screen	PP

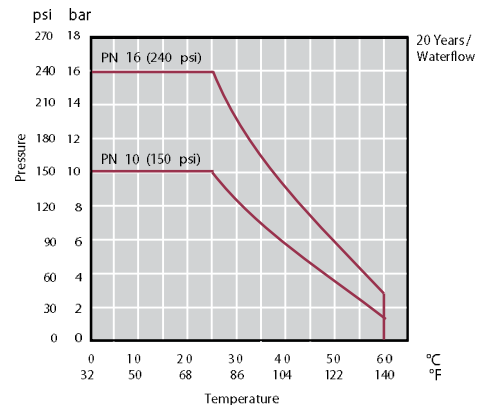
## PRESSURE LOSS DIAGRAM

D20 - 1/2"		D25 - 3/4"		D32 - 1"		D40 - 1 1/4"		D50 - 1 1/2"		D63 - 2"		D75 - 2 1/2"		D90 - 3"	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
1,65	0,13	1,47	0,05	4,36	0,08	4,87	0,15	6,41	0,002	12,53	0,05	12,32	0,05	7,13	0,009
2,33	0,24	2,01	0,054	4,89	0,11	6,21	0,17	11,3	0,02	14,9	0,07	14,95	0,06	15,91	0,04
3,34	0,44	2,34	0,09	5,44	0,15	7,52	0,21	18,76	0,16	17,12	0,11	19,53	0,11	28,58	0,13
3,85	0,52	2,95	0,18	5,89	0,21	10,61	0,27	25,05	0,34	21,7	0,16	25	0,17	37,22	0,22
4,52	0,69	3,6	0,29	7,01	0,26	12,53	0,34	28,44	0,41	27,36	0,28	32,6	0,28	45,61	0,53
-	-	4,03	0,36	9,23	0,39	15,23	0,4	-	-	32,02	0,37	41,43	0,55	58,5	0,64
-	-	4,21	0,38	-	-	-	-	-	-	37,68	0,43	-	-	-	-

A = Flow (m³/h)

B = Pressure loss (bar)

## PRESSURE / TEMPERATURE GRAPH



# Butterfly Valves - Standard Series



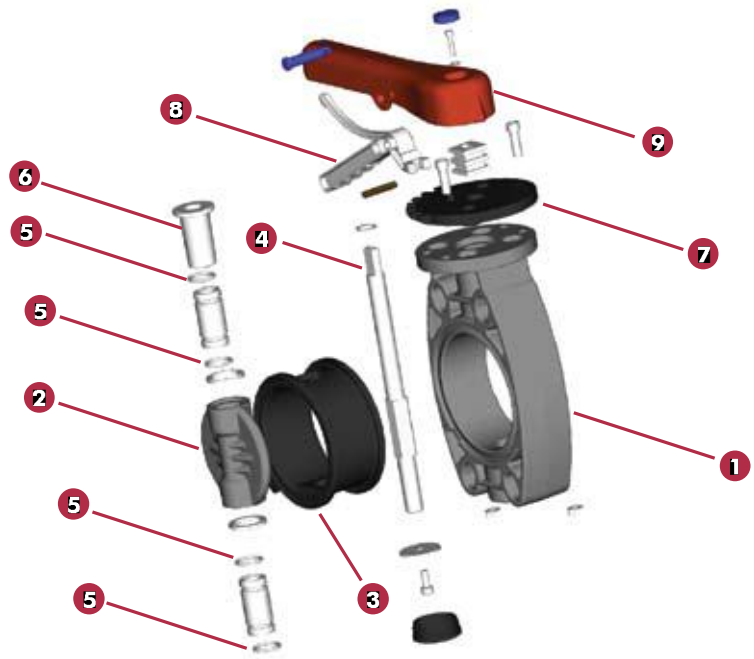
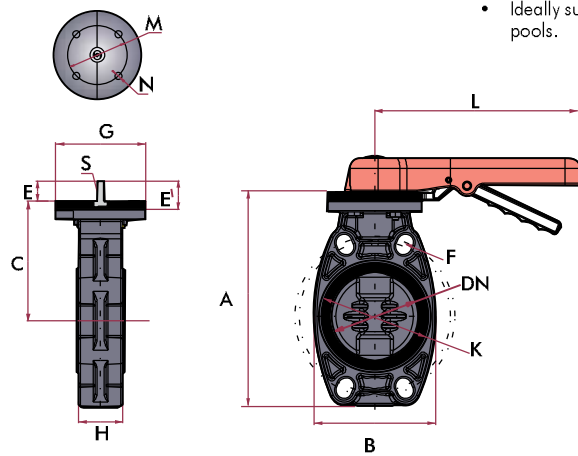
## FEATURES

- Ideally suited for flow control using minimal piping space.
- 100% factory tested.
- Minimal pressure drop.
- Low maintenance.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Good mechanical strength.
- One piece PVC-U body.
- New disc design in PVC-U
- Sizes from 63 mm to 315 mm (2" - 12").
- Available standards: ISO/DIN, ANSI/ASTM, British Standard, JIS.
- Rubber seal available in EPDM or Viton®.
- Non-wetted zinc plated steel shaft.
- Ideally suited for irrigation installations or swimming pools.

## TECHNICAL CHARACTERISTICS

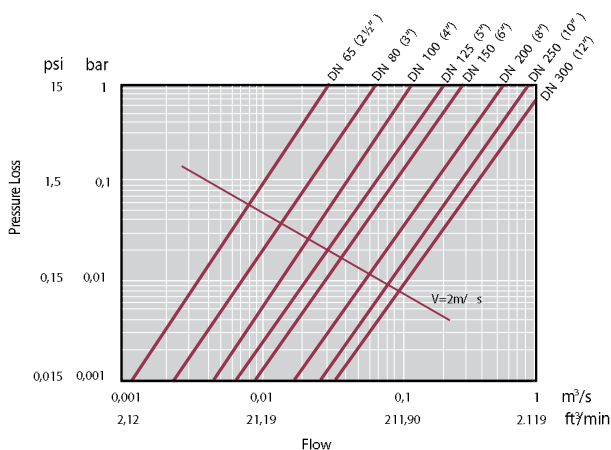
Working pressure at 20°C (73°F) water temperature:  
 • D63 - D315 (2" - 12"): PN 10 (150 psi)

FIG.	Parts	Material
1	Body	PVC-U
2	Valve disc	PVC-U
3	Rubber seal	EPDM / Viton®
4	Shaft	Zinc plated steel
5	O-ring seal	EPDM / Viton®
6	Top bearing	PP - GF
7	Throttle plate	POM
8	Lever-lock	POM
9	Handle	PP - GF

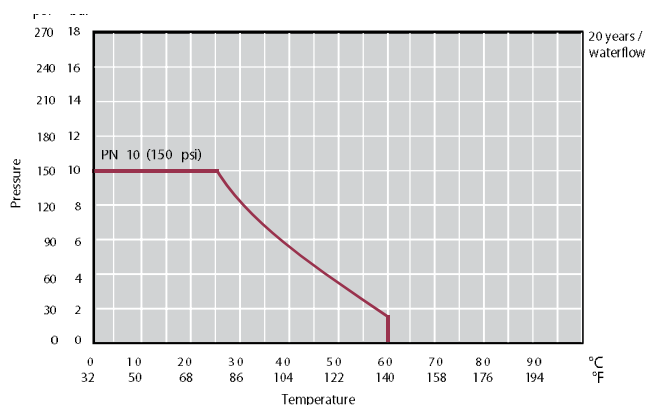


D	CODE	REF.	DN	PN
63 - 75	<b>32614</b>	05 83 075	65	10
90	<b>32615</b>	05 83 090	80	10
110	<b>32616</b>	05 83 110	100	10
125 - 140	<b>32617</b>	05 83 140	125	10
160	<b>32618</b>	05 83 160	150	10
200 - 225	<b>32619</b>	05 83 200	200	10
250-280	<b>46647</b>	05 83 250	250	10
315	<b>46648</b>	05 83 315	300	10

## PRESSURE LOSS DIAGRAM



## PRESSURE / TEMPERATURE GRAPH



# Butterfly Valves - Industrial Series



## FEATURES

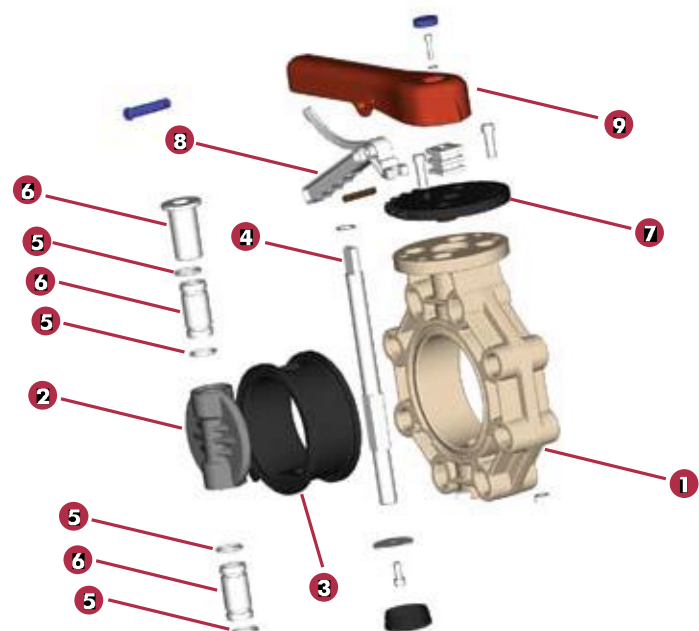
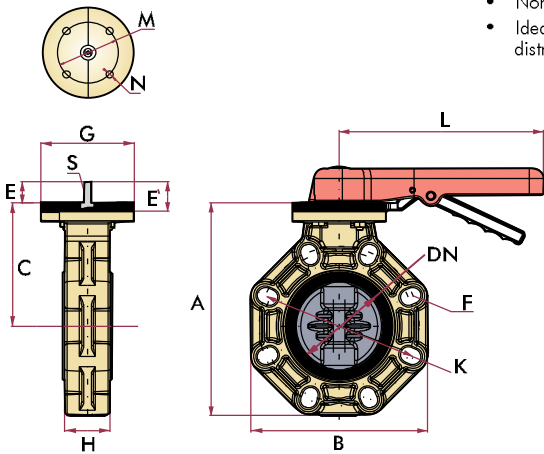
- Ideally suited for flow control using minimal piping space.
- 100% factory tested.
- Minimal pressure drop.
- Low maintenance.
- Resistance to many inorganic chemicals.
- Excellent flow characteristics.
- Good mechanical strength.
- One piece PP - GF body.
- Sizes from 63 mm to 315 mm (2" - 12").
- Available standards: ISO/DIN, ANSI/ASTM, British Standard, JIS.
- Rubber seal available in food grade EPDM or Viton®.
- Built in lockout feature to prevent undesired operations.
- Electric and pneumatic actuators available, and with gear box.
- Disc available in different materials.
- Non-wetted shaft in stainless steel.
- Ideally suited for industrial, water treatment or water distribution applications.

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F) water temperature:

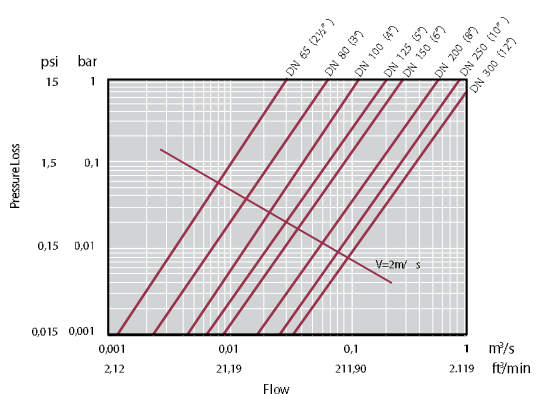
- D63 - D315 (2" - 12"): PN 10 (150 psi)

FIG.	Parts	Material
1	Body	PP - GF
2	Valve disc	PVC-U / PVC-C / PP-H
3	Rubber seal	Food grade EPDM / Viton®
4	Shaft	AISI 630 stainless steel
5	O-ring seal	EPDM / Viton®
6	Top bearing	PP - GF
7	Throttle plate	POM
8	Lever-lock	POM
9	Handle	PP - GF

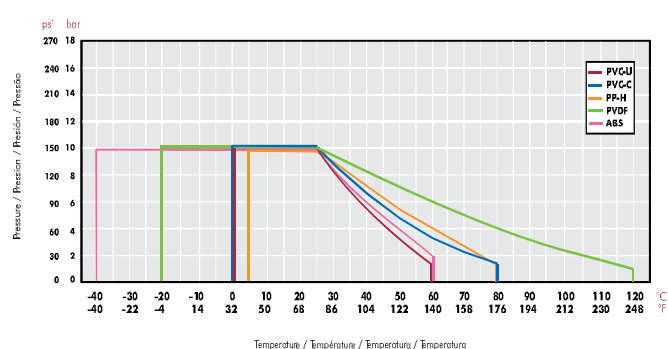


CODE	D	REF.	DN	PN
32620	63 - 75	05 84 075	65	10
32621	90	05 84 090	80	10
32622	110	05 84 110	100	10
32623	125 - 140	05 84 140	125	10
32624	160	05 84 160	150	10
32625	200 - 225	05 84 200	200	10

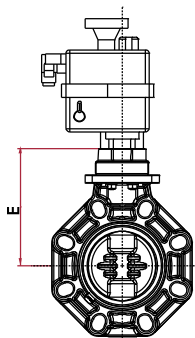
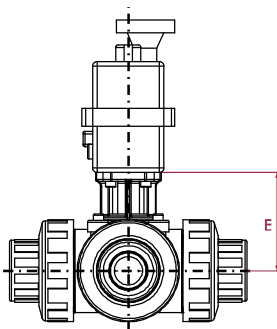
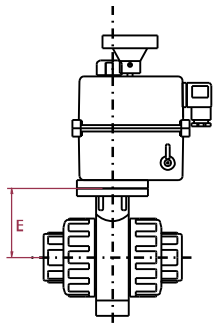
## PRESSURE LOSS DIAGRAM



## PRESSURE / TEMPERATURE GRAPH



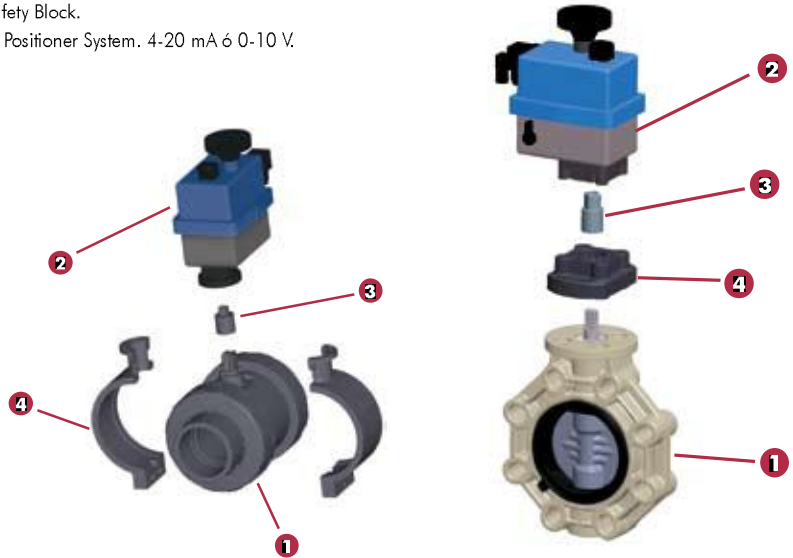
# Electric actuation



## FEATURES

- Electric actuators J+J and Valpes.
- Available voltages:
  - J+J**
    - 12-48 V AC-DC
    - 80-240 V AC-DC
  - VALPES**
    - 12-24 V AC-DC
    - 115 and 230 V AC
- Manual override and visual position indicator.
- Torque limiter.
- BSR Safety Block.
- Digital Positioner System. 4-20 mA  $\pm$  0-10 V.

FIG.	Parts
1	Valve
2	Electric actuator
3	Actuator-valve coupling bush
4	Mounting clamp



## TECHNICAL CHARACTERISTICS

Specifications	J2 - L300	J2 - H300	ER20		EK20			ER60	
			230 VAC	12-24 VAC/VDC	230 VAC	115 VAC	24 VAC/VDC	230 VDC	12-24 VAC/VDC
Voltage (V)	12-48 VAC/VDC $\pm$ 5%	80-240 VAC/VDC	230 VAC	12-24 VAC/VDC	230 VAC	115 VAC	24 VAC/VDC	230 VDC	12-24 VAC/VDC
Operation time (s/90°) no load $\pm$ 10%	60s	60 s	20 s	4/8 s	7 / 10 s			60 s	10 / 20 s
Maximum operational torque (Nm - lb/in)	300 Nm 2655 in/lb	300 Nm 2655 in/lb	20 Nm 177 in/lb		20 Nm 177 in/lb			60 Nm 531 in/lb	
Maximum torque break (Nm - lb/in)	350 Nm 3097 in/lb	350 Nm 3097 in/lb	-		-			-	
Duty rating (%)	75	75	50		30			50	30
IP rating IEC 60529	IP 65	IP 65	IP 65		IP 65			IP 65	
Working angle (°)	90° - 180 - 270°	90° - 180° - 270°	0° - 90°		0° - 90°			0° - 90°	
Temperature	-20° / 70° C -4° / 158° F	-20° / 70° C -4° / 158° F	4		4			4	
Limit switch	4 SPTD micro	4 SPTD micro	10		10			10	
Heating resistor (W)	4	4	15 W		9 W			24 W	
Consumption at maximum torque $\pm$ 5%	24 VAC 1800 mA -86,4 W 24 VDC 1600 mA -72 W 48 VAC 930 mA -62,4 W 48 VDC 1000 mA -48 W	110 V 470 mA -77,0 W 230 V 150 mA -50,6 W	2 DIN 43650		2 DIN 43650			2 DIN 43650	
Plugs	DIN 43650 ISO 4400 & C192	DIN 43650 ISO 4400 & C192							
Weight (kg)	5,2 kg 11,44 in/lb	5,2 kg 11,44 in/lb	1,5 kg 3,3 lb		1,2 kg 2,64 lb			1,5 kg 3,3 lb	

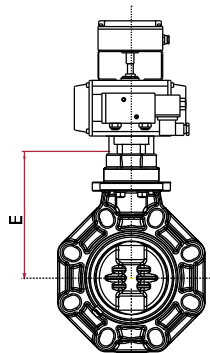
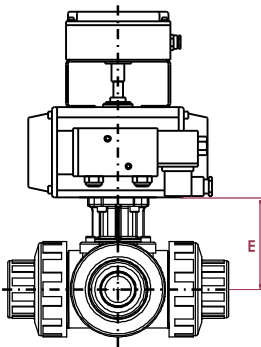
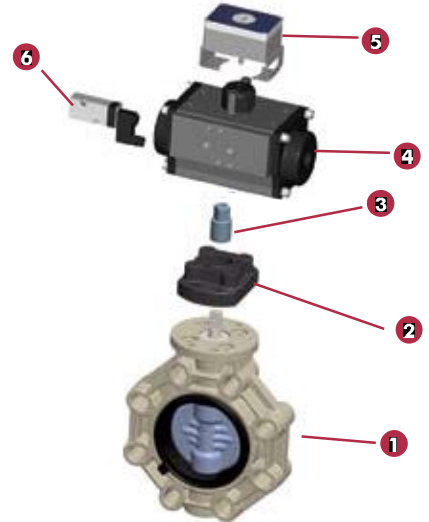
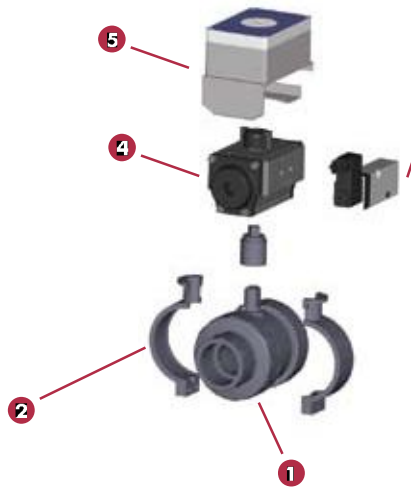
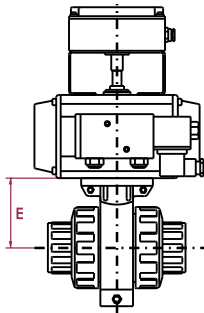
# Pneumatic actuation



## FEATURES

- Electric actuators J+J and Valpes.
- Available voltages:  
**J+J** - 12-48 V AC-DC  
 - 80-240 V AC-DC  
**VALPES** - 12-24 V AC-DC  
 - 115 and 230 V AC
- Manual override and visual position indicator.
- Torque limiter.
- BSR Safety Block.
- Digital Positioner System. 4-20 mA ó 0-10 V.

FIG.	Parts
1	Valve
2	Mounting clamp
3	Actuator-valve coupling bush
4	Pneumatic actuator
5	Limit-switch box
6	Electric valve



## TECHNICAL CHARACTERISTICS

TYPE OF VALVE		ACTUATOR		TORQUE OUTPUT	
<b>Double Acting</b>		<b>J+J</b>	<b>Bonomi</b>		
Ball valve	1/2"-3/4"	CH032	DA32	61	Torque output (in - lb) at 80 psi
	1"-1 1/4"-1 1/2"-2"	CH050	DA52	150	
Ball valve	2 1/2"-3"	CH075	DA75	570	
Butterfly valve	2 1/2"-3"-4"				Spring return at 0° - 90°
Ball valve	4"	CH100	DA100	1351	
Butterfly valve	5"-6"-8"	CH115	DA115	2229	
	12"	CH125	DA125	2932	
<b>Spring Return</b>				<b>Spring</b>	<b>Air</b>
Ball valve	1/2"-3/4"	CH050 SR	SR52	101 - 62	88 - 48
	1"-1 1/4"	CH063 SR	SR63	181 - 128	164 - 68
	1 1/2"-2"	CH075 SR	SR75	339 - 224	347 - 172
Butterfly valve	2 1/2"	CH085 SR	SR85	612 - 334	534 - 512
Ball valve	2 1/2"-3"	CH100 SR	SR100	942 - 431	820 - 408
Butterfly valve	3"-4"				
Ball valve	4"	CH125 SR	SR125	1493 - 939	1290 - 736
Butterfly valve	6"-8"	CH125 SR	SR140	2070 - 1130	1803 - 863
	10"	CH180 SR	SR160	6517 - 4800	5102 - 3385
	12"				



# PVC Fittings



## FEATURES

- Material : PVC-U.
- Injection moulding.
- Density : 1,4 g/cm<sup>3</sup>.
- Color : grey RAL 7024.
- Dimensions: socket fittings D16 to D400 and threaded fittings from 1/4" to 4".
- Dimensions: Socket fittings according to EN 1452-3. Threaded fittings according to ISO 7/1.
- For tubes according to EN 1452-2.
- Socket fittings: we recommend solvent cement THF basis.
- Threaded fittings: in order to guarantee the watertightness, Teflon® thread-wrap tape must be used. In PVC-U metal

## TECHNICAL CHARACTERISTICS

Working pressure at 20°C (73°F) water temperature:

- Socket unions:
- D16 - D140: PN 16 (240 psi)
  - D160 - D315: PN 10 (150 psi)

Threaded unions:

- PN 10 (150 psi)

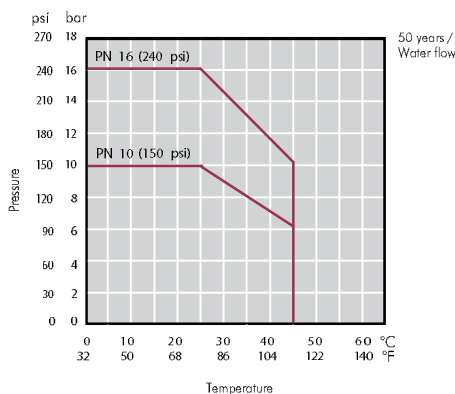
## Plain Fittings

<b>Elbows</b> 16-35 	<b>Tees</b> 16-400 	<b>Bends</b> 20-400 	<b>Couplings</b> 16-400 
<b>Reductions</b> 32-25x25, 315-280x160 	<b>Unions</b> 16-110 	<b>End Caps</b> 16-315 	<b>Crosses</b> 20-110 
		<b>Flange Adaptor</b> 20-225 	

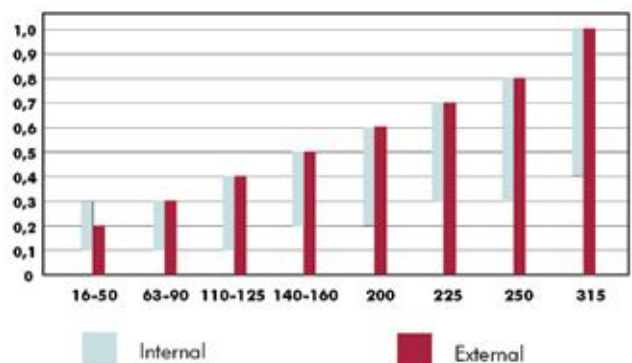
## Threaded & Adaptor Fittings

<b>Elbows</b> 20x1/2" - 110x4" 	<b>Tees</b> 20 x 1/2" - 110 x 4" 	<b>Reinforced</b> 20 x 1/2" - 63 x 2" 	<b>Nipples</b> 16 x 3/8" - 110 x 4" 	<b>Couplings</b> - 4" 	<b>Unions</b> 3/8" - 4" 
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## PRESSURE LOSS DIAGRAM



## PRESSURE / TEMPERATURE GRAPH



# Irrigation



## Controllers



## Valves



## Valve Boxes



## Sprinklers



## Spray Heads



## Filters



## Quality



### Leak Control Device

In order to safely and accurately check valves and guarantee their leaktightness, there are a number of leak control systems in use on each of our valve production lines. Each control stage features a small leakmeter via which the leaktightness of a valve may be checked, by testing both the valve seat and all the components used in the casing or body of the valve.

This leakmeter receives an analogical signal from a manometer, converting the pressure level into an electrical signal. The leakmeter uses this signal to determine whether or not the valve is satisfactory, using a series of parameters previously introduced, sending a signal to the operator.

2 leakmeter controls are carried out on each assembled valve:

**A) Casing (or body) leaktightness control:**

Verification of the leaktightness of the valve casing, including the final control element, compared to internal pressure. In order to achieve this, air pressure is applied to the valve with the choke in the open position. In the event that there are leaks, the leakmeter detects a drop in outlet pressure.

**B) Valve seat leaktightness control:**

Verification of the ability of the valve seats to comply with the stipulated leak specifications. Air pressure is applied to the valve with the choke in the closed position. In the event that there are leaks, the leakmeter detects a change in outlet pressure.



### Quality Management

The goal of the Cepex Quality Policy is to offer products and services which fulfill legal and regulatory requirements and satisfy the needs of our customers and end-users, in order to be recognized as one of the best in the market.

To achieve this goal, Cepex is committed to fulfilling its Quality Policy, which is based on the following three guiding principles:

- I) A market-orientated quality :  
Adjusted to our customers' needs, the latest technologies, and legal considerations.
- II) An efficient quality :  
Based on a quality system aimed at maximizing efficiency.
- III) A policy oriented toward widespread understanding, consideration, and ownership of environmental issues.

Commitment to the on-going improvement and promotion of environmental management by informing, training, motivating, and encouraging the participation of all personnel at all levels of the organization.

To fulfill our commitments, within our manufacturing companies we have achieved the certification of our Environmental Management System under ISO 14001, an international standard that regulates the impact of production and service activities on the environment.

### Environmental Management

Three main characteristics of our environmental policy are the key to our commitment to the environment:

- I) A policy in compliance with the legislation : Pursuit and fulfillment of the current and future applicable legislation at the municipal, regional, national, and European levels.
- II) A policy orientated toward reducing the environmental impacts resulting from materials and processes in all our facilities. Proactive management aimed at reducing waste and emissions and preventing pollution.
- III) A policy oriented toward widespread understanding, consideration, and ownership of environmental issues.

Commitment to the on-going improvement and promotion of environmental management by informing, training, motivating, and encouraging the participation of all personnel at all levels of the organization.

To fulfill our commitments, within our manufacturing companies we have achieved the certification of our Environmental Management System under ISO 14001, an international standard that regulates the impact of production and service activities on the environment.