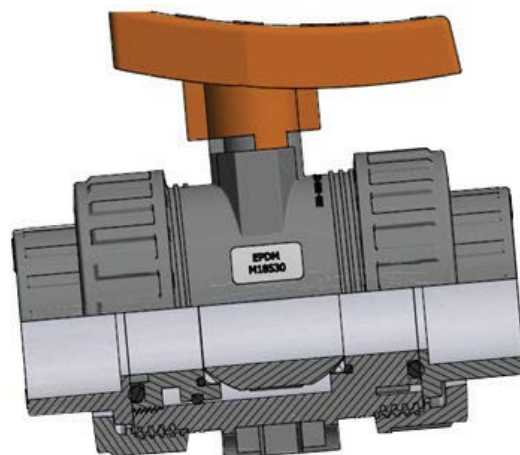


U-PVC BALL VALVES

General Properties

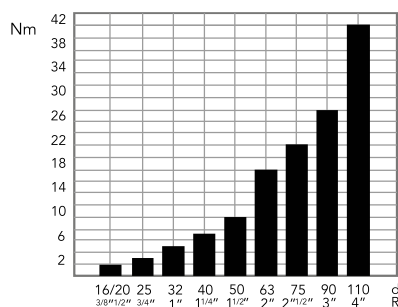
Abbreviations

d	Nominal outside diameter of the pipe in mm
DN	Nominal internal diameter in mm
G	Nominal size of the thread in inches
PN	Nominal pressure in bar (max. working pressure at 20°C – water)
Gr.	Weight in grams
PVC	Polyvinyl chloride
EPDM	Ethylene propylene rubber (DUTRAL®)
FPM	Fluoride rubber (VITON®)
PTFE	Polytetrafluoroethylene

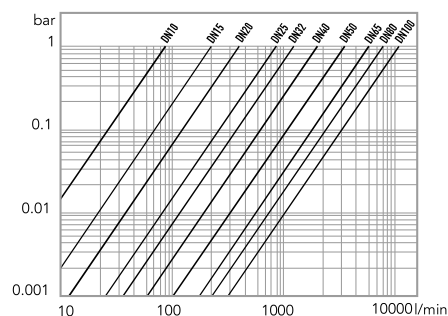


Technical data

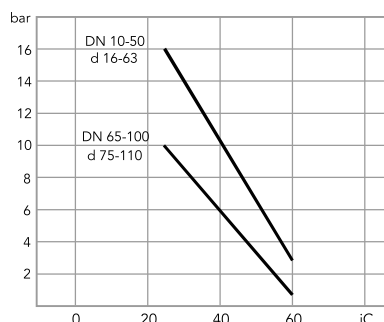
Max torque at maximum working pressure



Pressure chart



Pressure/temperature rating for water and other suitable fluids to which PVC is resistant



FLOW COEFFICIENT KV100: kv100 is the number of litres per minute of water at a temperature of 20°C that will flow through a valve with one-bar pressure differential at a specified rate. The kv100 values shown in the table are calculated with the valve completely open.

d	16	20	32	40	50	63	75	90	110
DN	10	15	25	32	40	50	65	80	100
Kv 100	80	200	385	770	1100	1750	5250	7100	9500

COMER have produced a complete range of ball valves which comply with the following standards:

SOLVENT WELDING ISO 727, DIN 8063, NF T54-028, BS 4346/1, UNI EN 1452

THREADED COUPLINGS UNI ISO 228/1, DIN 2999, BS21

FLANGED COUPLINGS ISO 2084, UNI 7442, DIN 8063



Made in ITALY

U-PVC BALL VALVES

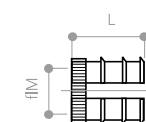
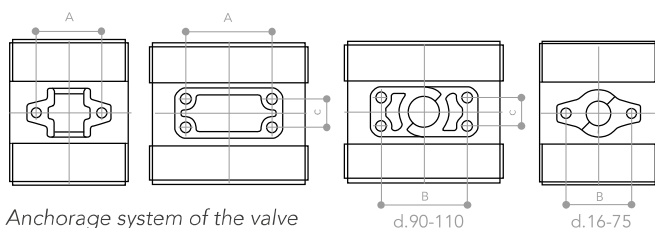
Industrial Series

General characteristics

Double Union Ball Valve characterized by an optimal handling (low torque). Each valve is tested in vacuum conditions and in extremely low pressure, then makes it the ideal valve to be used in industrial plant and with aggressive fluids (see table of chemical resistances of PVC Fittings)

Installation and use

When gluing the end connector on the pipe, care must be taken to prevent the glue or solvent from coming in contact with the valve seats or ball. Threaded ends should not be connected with cone-shaped male threads and the use of hemp or similar materials should be carefully avoided. Special attention should be paid to the correct line-up of the installation and to the pipe length. Tighten the union nut only by hands. The use of wrench is not allowed. It is important that the unions are not used to pull the system together. If there is any leakage from the union nuts, please check the correct line-up of the system and the pipe length. An excessive tightening of the unions could finally break them. Before the valve is cycled all dirt, sand or other material should be flushed from the system. This is to prevent scarring of the ball and/or seats. It is important to avoid rapid closures/opening of the valve to eliminate the possibly of water hammer causing damage to the pipeline. It is necessary that all installation and maintenance personnel become familiar with the proper solvent cement and thread joining procedures.



Brass insert

Instructions for disassembly and reassembly in case of maintenance

The whole body of the valve can be removed from the installation by unscrewing the union nuts **5**. To reach the internal parts of the valve, proceed as follows:

A Set the valve open.

B Remove the handle **1** from control stem **2**.

C Unscrew the sealing bush **7** off the body **3** using the two teeth of the handle **1** unscrewing operations should be done counter-clockwise.

D After having unscrewed the sealing bush **7**, it is possible to dismantle all the internal parts of the valve and to check the O-rings. To remove the ball **6**, turn the control stem 90° to the closed position. The ball can then be removed through the control stem **2**. To remove the control stem push it downwards as far is possible. To reassemble the valve follow the instructions in reverse order, being careful to set the O-ring properly and grease it with silicone grease.

d-G	A	B	C	ØM	L
16 - 3/8"	23	29	-	M5	9.5
20 - 1/2"	23	29	-	M5	9.5
25 - 3/4"	27	32	-	M5	9.5
32 - 1"	32.5	35.5	-	M5	9.5
40 - 1" 1/4	38	46	-	M6	13
50 - 1" 1/2	50	50	-	M6	13
63 - 2"	53	53	-	M6	13
75 - 2" 1/2	70	70	-	M8	13
90 - 3"	80	80	26	M8	13
110 - 4"	100	100	32	M8	13

U-PVC BALL VALVES

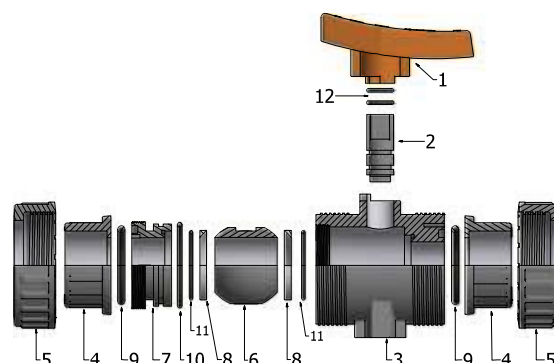
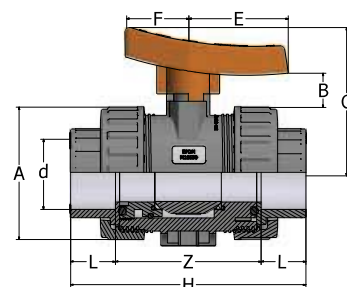
AQVASTAR
PRO SERIES

Industrial Series

Industry ball valve with female plain ends

Aqvastar code	Factory Code	d	DN	L	Z	H	A	B	C	E	F	PN	Gr.
ASDCOM40B	BVI10016	16	10	14	74	102	50	10	54	39	19	16	180
ASDCOM50B	BVI10020	20	15	16	70	102	50	10	54	39	19	16	170
ASDCOM75B	BVI10025	25	20	19	82	120	60	11	64	47	22	16	270
ASDCOM100B	BVI10032	32	25	22	86	130	68	13	74	55	25	16	380
ASDCOM125B	BVI10040	40	32	26	97	149	80	18	87	60	30	16	564
ASDCOM150B	BVI10050	50	40	31	103	165	96	20	100	68	35	16	870
ASDCOM200B	BVI10063	63	50	38	123	199	116	20	118	80	40	16	1,514
ASDCOM250B	BVI10075	75	65	44	130	218	145	25	150	90	45	10	2,345
ASDCOM300B	BVI10090	90	80	51	148	250	166	28	175	100	50	10	3,690
ASDCOM400B	BVI10110	110	100	61	168	290	210	28	200	120	60	10	6,040

Pos.	Components	N°	Mat.
1	Ergonomic handle	1	U-PVC
2	Reinforced stem	1	U-PVC
3	Body	1	U-PVC
4	Union end	2	U-PVC
5	Union nut	2	U-PVC
6	Machined Ball	1	U-PVC
7	Threaded sealing bush	1	U-PVC
8	Ball seat	2	PTFE
9	Union O-ring	2	EPDM
10	O-ring sealing bush	1	EPDM
11	O-ring ball seat	2	EPDM
12	O-ring stem	2	EPDM

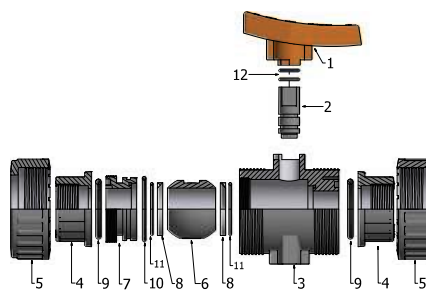
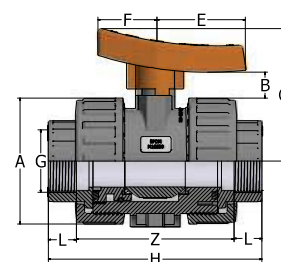


Industry ball valve with female threaded ends

Aqvastar code	Factory Code	G	DN	L	Z	H	A	B	C	E	F	PN	Gr.
ASDCOM40BT	BVI11016	3/8"	10	14	74	102	50	10	54	39	19	16	180
ASDCOM50BT	BVI11020	1/2"	15	16	70	102	50	10	54	39	19	16	170
ASDCOM75BT	BVI11025	3/4"	20	19	82	120	60	11	64	47	22	16	270
ASDCOM100BT	BVI11032	1"	25	22	86	130	68	13	74	55	25	16	380
ASDCOM125BT	BVI11040	1" 1/4	32	26	97	149	80	18	87	60	30	16	570
ASDCOM150BT	BVI11050	1" 1/2	40	31	103	165	96	20	100	68	35	16	900
ASDCOM200BT	BVI11063	2"	50	38	123	199	116	20	118	80	40	16	1,540
ASDCOM250BT	BVI11075	2" 1/2	65	44	130	218	145	25	150	90	45	10	2,400
ASDCOM300BT	BVI11090	3"	80	51	148	250	166	28	175	100	50	10	3,810
ASDCOM400BT	BVI11110	4"	100	61	168	290	210	28	200	120	60	10	6,200

*Available only on request

Pos.	Components	N°	Mat.
1	Ergonomic handle	1	U-PVC
2	Reinforced stem	1	U-PVC
3	Body	1	U-PVC
4	Union end	2	U-PVC
5	Union nut	2	U-PVC
6	Machined Ball	1	U-PVC
7	Threaded sealing bush	1	U-PVC
8	Ball seat	2	PTFE
9	Union O-ring	2	EPDM
10	O-ring sealing bush	1	EPDM
11	O-ring ball seat	2	EPDM
12	O-ring stem	2	EPDM



Made in ITALY