



**ADRITEC**  
YOUR WAY

# 2 IRRIGATION COMPONENTS



# Irrigation Components

## Valves

# 2

2c1- Plastic Valves

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2c2- Plastic Mini Valves

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2c3- Brass Valves

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2c4- Air Release Valves

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2c5- Electro Hydraulic Valves

Plastic ball Valves are supplied in two different types, polypropelene (PP) and u-PVC. The wide range of valves include the quick coupling valves, non-return valves, and the butterfly valves in different dimensions and pressure ratings. PP valves are made of PP-UV resistant, POM, NBR, Teflon. PVC valves have an anti bloc system that avoids ball blockage, are waterproof with minimal losses, resistant to inorganic chemicals, and come in double or single solvent gluing or threaded.

#### PP BALL VALVES

- Minimal pressure loss.
- Highly resistant to various weather conditions.
- Waterproof and leak resistant.
- Constructed from: PP-UV resistance, POM, NBR, teflon.
- Working Pressure 10 bar



PP Ball Valve , Female - Female	
Code	Size
2C1PBVFF1022	3/4" x 3/4"
2C1PBVFF1032	1" x 3/4"
2C1PBVFF1033	1" x 1"



PP Ball Valve , Male - Female	
Code	Size
2C1PBVMF1022	3/4" x 3/4"
2C1PBVMF1032	1" x 3/4"
2C1PBVMF1033	1" x 1"

#### PP BALL VALVES with Quick Coupling

- Ideal for connection to networks where disconnection of fitting from ball valve is required.
- Minimal pressure loss.
- Highly resistant to various weather conditions.
- Constructed from: PP-UV resistance, POM, NBR, Teflon.
- Working Pressure 6 bar



PP Ball Valve , Male - Female	
Code	Size
2C1PBVMF0622	3/4" x 3/4"

## PLASTIC VALVES

### U-PVC BALL VALVES

- Anti-block system that avoids ball blockage.
- Waterproof with minimal pressure losses.
- Resistant to inorganic chemicals.
- Easily manageable, with union ends for easy installation and removal.
- Manufactured from high standard raw material, U-PVC, NBR & Teflon.
- Good mechanical strength.
- Excellent flow characteristics.
- Available in double or single, solvent gluing or threaded.



#### U-PVC Ball Valve , Solvent Gluing

Code	PN	Size
2C1PVBV16020	16	20 mm
2C1PVBV16025	16	25 mm
2C1PVBV16032	16	32 mm
2C1PVBV16040	16	40 mm
2C1PVBV16050	16	50 mm
2C1PVBV16063	16	63 mm
2C1PVBV10075	10	75 mm
2C1PVBV10090	10	90 mm
2C1PVBV06110	6	110 mm



#### U-PVC Ball Valve , Female Threaded - Single

Code	PN	Size
2C1PVBVTS161	16	1/2"
2C1PVBVTS162	16	3/4"
2C1PVBVTS163	16	1"
2C1PVBVTS164	16	1 1/4"
2C1PVBVTS165	16	1 1/2"
2C1PVBVTS166	16	2"
2C1PVBVTS107	10	2 1/2"
2C1PVBVTS108	10	3"
2C1PVBVTS069	6	4"



#### U-PVC Ball Valve , Female Threaded - Double

Code	PN	Size
2C1PVBVTD161	16	1/2"
2C1PVBVTD162	16	3/4"
2C1PVBVTD163	16	1"
2C1PVBVTD164	16	1 1/4"
2C1PVBVTD165	16	1 1/2"
2C1PVBVTD166	16	2"
2C1PVBVTD107	10	2 1/2"
2C1PVBVTD108	10	3"
2C1PVBVTD069	6	4"

## Irrigation Components Valves

### U-PVC NON-RETURN VALVES

- Easy installation and maintenance.
- Can be used vertically or horizontally.
- Resistant to inorganic chemicals.
- Waterproof with minimal pressure losses.
- Manufactured from high quality raw material, U-PVC & NBR.
- Good mechanical strength.
- Excellent flow characteristics.



#### U-PVC Non-Return Valve - Solvent Gluing

Code	PN	Size
2C1PVNRV1650	16	50 mm
2C1PVNRV1663	16	63 mm
2C1PVNRV1075	10	75 mm
2C1PVNRV1090	10	90 mm
2C1PVNRV0611	6	110 mm



#### U-PVC Non-Return Valve - Threaded


Code	PN	Size
2C1PVNRVT165	16	1 1/2"
2C1PVNRVT166	16	2"
2C1PVNRVT107	10	2 1/2"
2C1PVNRVT108	10	3"
2C1PVNRVT069	6	4"




#### U-PVC Butterfly Valve

Code	PN	Size
2C1PVBV00050	16	50 mm
2C1PVBV00063	16	63 mm
2C1PVBV00075	10	75 mm
2C1PVBV00090	10	90 mm
2C1PVBV00110	6	110 mm
2C1PVBV00125	6	125 mm
2C1PVBV00140	6	140 mm
2C1PVBV00160	6	160 mm
2C1PVBV00200	6	200 mm
2C1PVBV00225	6	225 mm
2C1PVBV00250	6	250 mm


Mini valves are small valves used in different applications in irrigation systems mainly to control water flow into the different types of driplines. It is also used in landscape projects. Several models are available which are used with high thickness driplines and in tapes, with Inlet / Outlet diameters ranging from 16mm to 25mm. The mini valves are made of high quality Polypropelene raw material and a UV stabilizer. Recommended for use in irrigation systems with a working pressure not exceeding 4 bars.




Code	Size
<b>Male Thread / Male Thread</b>	
2 C 2 M N M T T 1 2 1 2	1/2" x 1/2"
2 C 2 M N M T T 3 4 1 2	3/4" x 1/2"
2 C 2 M N M T T 3 4 3 4	3/4" x 3/4"
2 C 2 M N M T T 1 0 1 0	1" x 1"




Code	Size
<b>Male Thread / Barbed</b>	
2 C 2 M N M T B 1 2 1 6	1/2" x 16mm
2 C 2 M N M T B 1 2 2 0	1/2" x 20mm
2 C 2 M N M T B 3 4 1 6	3/4" x 16mm
2 C 2 M N M T B 3 4 2 0	3/4" x 20mm
2 C 2 M N M T B 3 4 2 5	3/4" x 25mm
2 C 2 M N M T B 1 0 2 5	1" x 25mm




Code	Size
<b>Barbed / Barbed</b>	
2 C 2 M N B A B 1 6 1 6	16mm x 16mm
2 C 2 M N B A B 2 0 2 0	20mm x 20mm
2 C 2 M N B A B 2 5 2 5	25mm x 25mm




Code	Size
<b>Take-Off with Rubber / Barbed</b>	
2 C 2 M N T R B 1 0 1 6	10mm x 16mm
2 C 2 M N T R B 1 0 2 0	10mm x 20mm




Code	Size
<b>Grommet with Rubber / Barbed</b>	
2 C 2 M N G R B 0 8 1 6	8mm x 16mm
2 C 2 M N G R B 0 8 2 0	8mm x 20mm




Code	Size
<b>Off Take / Barbed</b>	
2 C 2 M N T O B 0 8 1 6	8mm x 16mm
2 C 2 M N T O B 0 8 2 0	8mm x 20mm




Code	Size
<b>Off Take with Rubber / Barbed</b>	
2 C 2 M N T R B 0 8 1 6	8mm x 16mm
2 C 2 M N T R B 0 8 2 0	8mm x 20mm




Code	Size
<b>Male Thread / Dripline</b>	
2 C 2 M N M T D 1 2 1 6	1/2" x 16mm
2 C 2 M N M T D 1 2 2 0	1/2" x 20mm
2 C 2 M N M T D 3 4 1 6	3/4" x 16mm
2 C 2 M N M T D 3 4 2 0	3/4" x 20mm



Code	Size
<b>Take-Off with Rubber / Dripline</b>	
2 C 2 M N T R D 1 0 1 6	10mm x 16mm
2 C 2 M N T R D 1 0 2 0	10mm x 20mm




Code	Size
<b>Off-Take / Dripline</b>	
2 C 2 M N T O D 0 8 1 6	8mm x 16mm
2 C 2 M N T O D 0 8 2 0	8mm x 20mm




Code	Size
<b>Barbed / Tape</b>	
2 C 2 M N B R T 1 6 1 7	16mm x 17mm
2 C 2 M N B R T 2 0 1 7	20mm x 17mm




Code	Size
<b>Male Thread / Tape</b>	
2 C 2 M N M T T 1 2 1 7	1/2" x 17mm



Code	Size
<b>Tape / Tape</b>	
2 C 2 M N T T O 1 7 1 7	17mm x 17mm
2 C 2 M N U T O 2 2 2 2	22mm x 22mm



Code	Size
<b>Take-Off with Rubber / Tape</b>	
2 C 2 M N O T T 1 0 1 7	10mm x 17mm
2 C 2 M N T O T 1 0 2 2	10mm x 22mm



Code	Size
<b>Grommet with Rubber / Tape</b>	
2 C 2 M N G R T 0 8 1 7	8mm x 17mm
2 C 2 M N G R T 0 8 1 7	8mm x 22mm



Code	Size
<b>Off Take / Tape</b>	
2 C 2 M N T O T 0 8 1 7	8mm x 17mm

Brass valves are used in irrigation systems in addition to different civil engineering and industrial applications. Brass valves are available in both ball and gate valves. The body is produced from brass while the handle is either aluminum lever or steel hand-wheel. A wide range of sizes starting from 1/4" up to 6" with different working pressures are available. Ball valves working temperature is from -20° C up to 110° C while the gate valves working temperature is -10° C up to 90° C.



Brass Ball Valve , Female Threaded - 25 Bar		
Code	Sizes	Specifications
2C3BBVT25001	1/2"	Nominal Pressure PN 25, working temperature -20 Deg. up to + 110 Degrees, thread according to ISO 228/1
2C3BBVT25002	3/4"	
2C3BBVT25003	1"	
2C3BBVT25004	1 1/4"	
2C3BBVT25005	1 1/2"	
2C3BBVT25006	2"	
2C3BBVT25007	2 1/2"	
2C3BBVT25008	3"	
2C3BBVT25009	4"	



Brass Gate Valve , Female Threaded - 16 Bar		
Code	Sizes	Specifications
2C3BGVT16001	1/2"	Nominal Pressure PN 16 working temperature -10 Deg. up to + 90 Degrees, thread according to ISO 228/1
2C3BGVT16002	3/4"	
2C3BGVT16003	1"	
2C3BGVT16004	1 1/4"	
2C3BGVT16005	1 1/2"	
2C3BGVT16006	2"	
2C3BGVT16007	2 1/2"	
2C3BGVT16008	3"	
2C3BGVT16009	4"	



Brass Ball Valve , Female Threaded - 16 Bar		
Code	Sizes	Specifications
2C3BBVT16001	1/2"	Nominal Pressure PN 16 working temperature -20° C up to + 110° C, thread according to ISO 228/1
2C3BBVT16002	3/4"	
2C3BBVT16003	1"	
2C3BBVT16004	1 1/4"	
2C3BBVT16005	1 1/2"	
2C3BBVT16006	2"	
2C3BBVT16007	2 1/2"	
2C3BBVT16008	3"	
2C3BBVT16009	4"	



Brass Gate Valve , Female Threaded - 10 Bar		
Code	Sizes	Specifications
2C3BGVT10001	1/2"	Nominal Pressure PN 10 working temperature -10° C up to + 90° C, thread according to ISO 228/1
2C3BGVT10002	3/4"	
2C3BGVT10003	1"	
2C3BGVT10004	1 1/4"	
2C3BGVT10005	1 1/2"	
2C3BGVT10006	2"	
2C3BGVT10007	2 1/2"	
2C3BGVT10008	3"	
2C3BGVT10009	4"	

Air release valves are used to release and extract the air trapped in piping networks, tanks and any system in which trapped air could cause operational in-efficiency. It allows air to enter into the system during drainage of any system to avoid pipe crushing, and eliminates air bubbles that may exist in the pipe during operation. The valve body is made of fiber glass reinforced polyamide while the main gasket is made of polyurethane material which is resistant to chemicals and micro-organisms. The air release valves come either in a single or double effect models with two different sizes 1" and 2".

#### AIR RELEASE VALVE - Single Effect

- It extracts air from the pipes during filling.
- It allows air to enter into the system to avoid pipe crushing during pipe draining.
- Available in 1" & 2".



Air Release Valve - Single Effect		Pressure (Bar)		Extracted Air
Code	Size	Min.	Max.	m3 / Hr.
2C4PARVS0003	1"	0.2	16	95
2C4PARVS0006	2"	0.2	16	365

#### AIR RELEASE VALVE - Double Effect

- It extracts air from the pipes during filling.
- It allows air to enter into the system to avoid pipe crushing during pipe draining.
- It eliminates air bubbles that may exist in pipe during system operation.
- Available in 1" & 2".



Air Release Valve - Double Effect		Pressure (Bar)		Extracted Air
Code	Size	Min.	Max.	m3 / Hr.
2C4PARVD0003	1"	0.2	12	25
2C4PARVD0006	2"	0.2	16	365

Electrohydraulic valves are manufactured from cast iron and are the diaphragm type. Designed to control and regulate the fluid flow in irrigation systems. Available in different sizes starting from DN 25 up to DN 500 (1"- 20") to meet all irrigation systems requirements. There are different models used for all applications, namely the hydraulically operated manual valve, pressure reducing control valve with a 3 way pilot, electrohydraulic operated solenoid valve, pressure reducing control valve with 3 way pilot, battery control operated valve, and quick relief valve to protect from water hammer in the system. All models come in both threaded or flanged connections.



Hydraulic Manual Valve - Threaded	
Code	Spec.
2 C 5 H M V F T 0 0 0 3	1"
2 C 5 H M V F T 0 0 0 5	1 1/2"
2 C 5 H M V F T 0 0 0 6	2"
2 C 5 H M V F T 0 0 0 7	2 1/2"
2 C 5 H M V F T 0 0 0 8	3"
2 C 5 H M V F T 0 0 0 9	4"

Hydraulic Manual Valve - Flange	
Code	Spec.
2 C 5 H M V F 0 0 0 5 0	50 mm
2 C 5 H M V F 0 0 0 6 3	63 mm
2 C 5 H M V F 0 0 0 7 5	75 mm
2 C 5 H M V F 0 0 0 9 0	90 mm
2 C 5 H M V F 0 0 1 1 0	110 mm
2 C 5 H M V F 0 0 1 2 5	125 mm
2 C 5 H M V F 0 0 1 4 0	140 mm
2 C 5 H M V F 0 0 1 6 0	160 mm
2 C 5 H M V F 0 0 2 0 0	200 mm
2 C 5 H M V F 0 0 2 2 5	225 mm
2 C 5 H M V F 0 0 2 5 0	250 mm
2 C 5 H M V F 0 0 3 0 0	300 mm



Pressure Reducing Valve with Plastic 3 way Pilot - Threaded	
Code	Spec.
2 C 5 P R V P P T 0 0 3	1"
2 C 5 P R V P P T 0 0 5	1 1/2"
2 C 5 P R V P P T 0 0 6	2"
2 C 5 P R V P P T 0 0 7	2 1/2"
2 C 5 P R V P P T 0 0 8	3"
2 C 5 P R V P P T 0 0 9	4"

Pressure Reducing Valve with Plastic 3 way Pilot - Flange	
Code	Spec.
2 C 5 P R V P P F 0 5 0	50 mm
2 C 5 P R V P P F 0 6 3	63 mm
2 C 5 P R V P P F 0 7 5	75 mm
2 C 5 P R V P P F 0 9 0	90 mm
2 C 5 P R V P P F 1 1 0	110 mm
2 C 5 P R V P P F 1 2 5	125 mm
2 C 5 P R V P P F 1 4 0	140 mm
2 C 5 P R V P P F 1 6 0	160 mm
2 C 5 P R V P P F 2 0 0	200 mm
2 C 5 P R V P P F 2 2 5	225 mm
2 C 5 P R V P P F 2 5 0	250 mm
2 C 5 P R V P P F 3 0 0	300 mm

Optional PRV. : 0.2 - 1.5 Bar, 0.2-3 Bar & 1-9 Bar  
 Additional : 3-way solenoid  
                   : Solenoid latch (9-12 vdc, PN10)  
                   : Pressure sustaining pilot



## ELECTRO HYDRAULIC VALVES



Electrohydraulic Operated Solenoid Valve - Threaded	
Code	Spec.
2C5EHSVFT003	1"
2C5EHSVFT005	1 1/2"
2C5EHSVFT006	2"
2C5EHSVFT007	2 1/2"
2C5EHSVFT008	3"
2C5EHSVFT009	4"

Electrohydraulic Operated Solenoid Valve - Flange	
Code	Spec.
2C5EHSV F 0 0 5 0	50 mm
2C5EHSV F 0 0 6 3	63 mm
2C5EHSV F 0 0 7 5	75 mm
2C5EHSV F 0 0 9 0	90 mm
2C5EHSV F 0 1 1 0	110 mm
2C5EHSV F 0 1 2 5	125 mm
2C5EHSV F 0 1 4 0	140 mm
2C5EHSV F 0 1 6 0	160 mm
2C5EHSV F 0 2 0 0	200 mm
2C5EHSV F 0 2 2 5	225 mm
2C5EHSV F 0 2 5 0	250 mm
2C5EHSV F 0 3 0 0	300 mm

St. solenoid : 24 vac, 50 - 60 Hz, PN10  
 Additional : 3-Way manual handle  
 : Brass Solenoid (24 vac, PN10 )  
 : Solenoid latch (9-12 vdc, PN10)



Quick Relief Valve - Threaded	
Code	Spec.
2C5QRVT00003	1"
2C5QRVT00005	1 1/2"
2C5QRVT00006	2"
2C5QRVT00007	2 1/2"
2C5QRVT00008	3"
2C5QRVT00009	4"

Valve body, glob or elbow

Quick Relief Valve - Flange	
Code	Spec.
2C5QRV F 0 0 0 5 0	50 mm
2C5QRV F 0 0 0 6 3	63 mm
2C5QRV F 0 0 0 7 5	75 mm
2C5QRV F 0 0 0 9 0	90 mm
2C5QRV F 0 0 1 1 0	110 mm
2C5QRV F 0 0 1 2 5	125 mm
2C5QRV F 0 0 1 4 0	140 mm
2C5QRV F 0 0 1 6 0	160 mm
2C5QRV F 0 0 2 0 0	200 mm
2C5QRV F 0 0 2 2 5	225 mm
2C5QRV F 0 0 2 5 0	250 mm
2C5QRV F 0 0 3 0 0	300 mm

Standard Pilot : 1 - 10 Bar, PN 25, brass  
 Optional Pilot : 1.5 - 22 Bar, PN 25, brass

## Irrigation Components

Valves



Pressure Reducing Valve with Brass 3 way Pilot - Threaded	
Code	Spec.
2C5PRVBPT003	1"
2C5PRVBPT005	1 1/2"
2C5PRVBPT006	2"
2C5PRVBPT007	2 1/2"
2C5PRVBPT008	3"
2C5PRVBPT009	4"

3-ways or 2-ways

Pressure Reducing Valve with Brass 3 way Pilot - Flange	
Code	Spec.
2C5PRVBPF050	50 mm
2C5PRVBPF063	63 mm
2C5PRVBPF075	75 mm
2C5PRVBPF090	90 mm
2C5PRVBPF110	110 mm
2C5PRVBPF125	125 mm
2C5PRVBPF140	140 mm
2C5PRVBPF160	160 mm
2C5PRVBPF200	200 mm
2C5PRVBPF225	225 mm
2C5PRVBPF250	250 mm
2C5PRVBPF300	300 mm

1 - W Standard PRV : 1 - 5.5 Bar, 3-way, PN16, brass  
 2 - W Standard PRV : 0.5 - 8 Bar, 3-way, PN16, brass  
 3 - W Optional PRV : 0.2 - 1.5 Bar, 0.2-3 Bar & 1-9 Bar  
 Additional : Brass 3 -way solenoid  
 : Solenoid latch (9-12 vdc, PN10)  
 : 3 - way solenoid, PN16, 24 vac  
 : 2 - way solenoid, PN16, 24 vac



Battery Controlled Operated Valve - Threaded	
Code	Spec.
2C5BCVT00003	1"
2C5BCVT00005	1 1/2"
2C5BCVT00006	2"
2C5BCVT00007	2 1/2"
2C5BCVT00008	3"
2C5BCVT00009	4"

Battery Controlled Operated Valve - Flange	
Code	Spec.
2C5BCV F 0 0 0 5 0	50 mm
2C5BCV F 0 0 0 6 3	63 mm
2C5BCV F 0 0 0 7 5	75 mm
2C5BCV F 0 0 0 9 0	90 mm
2C5BCV F 0 0 1 1 0	110 mm
2C5BCV F 0 0 1 2 5	125 mm
2C5BCV F 0 0 1 4 0	140 mm
2C5BCV F 0 0 1 6 0	160 mm
2C5BCV F 0 0 2 0 0	200 mm
2C5BCV F 0 0 2 2 5	225 mm
2C5BCV F 0 0 2 5 0	250 mm
2C5BCV F 0 0 3 0 0	300 mm

Additional : Pressure reducing pilot  
 : 3-Way manual handle