



*Ideas Drive Our Work*



The company "**Kar va Andisheh-e Noavar**" has been actively involved in the design and production of water and sewage connections since 1996, offering its products to customers under the KAN brand. The company's products include bronze valves, brass valves, cast iron fittings, polymer components, and home water services fittings.

The name of our company, "Kar va Andisheh-e Noavar," translates to "Work and Innovative Thinking" in English. This name encapsulates our commitment to dynamic and strategic endeavors. "Kar" signifies our drive for executing impactful projects, while "Andisheh" underscores the importance of thoughtful planning and strategic thinking. "Noavar" reflects our dedication to innovation, embodying the ability to introduce novel solutions and cutting-edge products. Together, these elements represent a fusion of efficiency, strategic vision, and a relentless pursuit of innovative approaches in our business endeavors. Our company strives to uphold these values, creating a brand identity that emphasizes both work ethic and inventive thinking.



## TRAINING

KAN provides valuable information, training, and advice to keep you informed about the latest developments and solutions.



## DESIGN

With over 30 years of experience, KAN excels in working closely with you throughout the entire design and project management process.



## SUPPORT

Our dedicated technical support team collaborates effectively with engineers and installers, ensuring optimal results and yield during and after the installation process.



## CARE

We guarantee service excellence post-product delivery, offering continuous support from the initial contact to the completion of the process. If you require expertise and assistance, we are prepared to assist you.



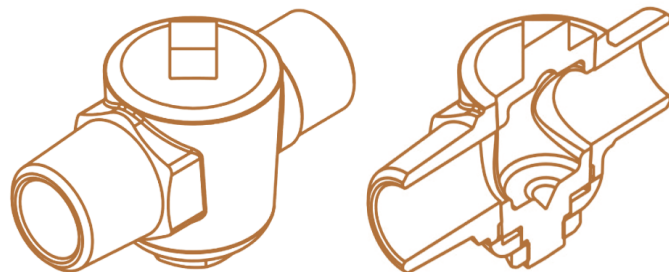
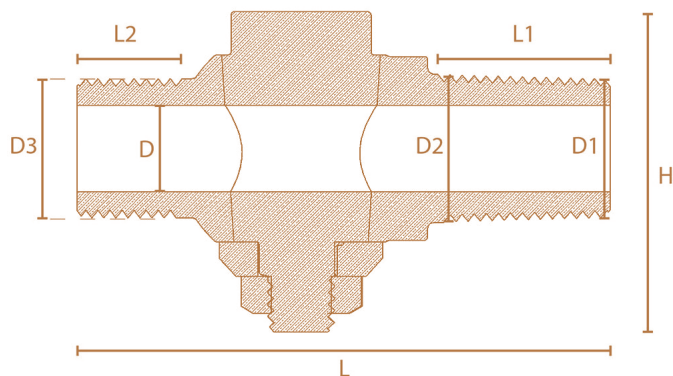
*Certificates*  
*We work with all standards*



- ▶ ISO 45001:2018
- ▶ EFQM
- ▶ ISO 14001:2015
- ▶ ISO 9001:2015
- ▶ INSO 16222
- ▶ ISIRI 3664



# 1 | CORPORATION VALVE



## DEFINITION AND APPLICATION

This kind of valve that is opened and closed through 1/4th of the round. This valve is mounted on service clamp or metal pipe for urgent disconnection or connection and receiving the water from the distribution network.

Also, there is a possibility of providing and producing through PEX-AL-PEX couplings as well.



## THE PLACE FOR USED

*It is installed outside the building on the service clamp connected to the water distribution transmission pipe.*




## TABLE

Body Material	<b>Bronze</b> ASTM B62\ C83600, EN19282\ CC491K	<b>Brass</b> ASTM B455\ C38500/ C38000, EN12164\ CW617N/ CW614N
Sizes	DN15-50	
Connection	Male, Compression Fittings	
Operating Pressure	Max.16 bar (marked with PN10)	
Plug valve		
Plug	Bronze / Brass	
Metal Washer	Bronze / Brass	
Nut	Bronze / Brass	
Compression Nut	Brass	
Compression Ring	Brass	
Ball valve		
Ball	plated Brass	
Stem	Brass	
Cap	Brass	
O-Ring	Rubber	
Ball Washer	PTFE	
Compression Nut	Brass	
Compression Ring	Brass	

## Products


### 1 L1 PLUG STYLE CORPORATION VALVE (PARALLEL INLET THREAD)

plug style Corporation valve (Parallel Inlet Thread)	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
	15	1/2	69	VA-11211	
	20	3/4	86	VB-11211	
	25	1	111	VC-11211	
	32	1 1/4	124	VD-11211	
	40	1 1/2	165	VE-11211	
	50	2	196	VF-11211	



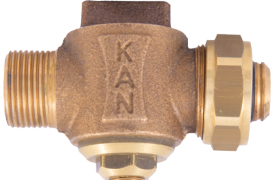
1  
L2

## PLUG STYLE CORPORATION VALVE (INLET TAPER THREAD)

plug style Corporation valve (Inlet Taper thread)	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
	15	1/2	78	VA-11241	
	20	3/4	94	VB-11241	
	25	1	117.5	VC-11241	
	32	1 1/4	124	VD-11241	
	40	1 1/2	166.5	VE-11241	
	50	2	198	VF-11241	

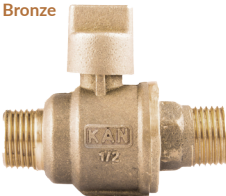

SEE MORE  
DETAILS &  
INFORMATION  
HERE.1  
L3

## PLUG STYLE CORPORATION VALVE (COMPRESSION FITTINGS)

plug style Corporation valve (Compression Fittings)	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
	15	1/2*20	68	VA-11213	
	20	3/4*25	87	VB-11213	
	25	1*32	101	VC-11213	



SEE MORE  
DETAILS &  
INFORMATION  
HERE.1  
L4

## BALL STYLE CORPORATION VALVE (PARALLEL INLET THREAD)

Ball Style Corporation Valve (Parallel Inlet Thread)	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
 	15	1/2	65	VA-11111	VA-21111
	20	3/4	70	VB-11111	VB-21111
	25	1	92	VC-11111	VC-21111

SEE MORE  
DETAILS &  
INFORMATION  
HERE.1  
L5

## BALL STYLE CORPORATION VALVE (COMPRESSION FITTINGS)

Ball Style Corporation Valve (Compression Fittings)	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
 	15	1/2*20	70	VA-11113	VA-21113
	20	3/4*25	76	VB-11113	VB-21113
	25	1*32	94	VC-11113	VC-21113

SEE MORE  
DETAILS &  
INFORMATION  
HERE.





- Bronze melting furnace  
Melting and inoculation of raw materials at a temperature of °1150C.

- Molding and core making  
Molding and core making are performed through the models manufactured by industrial sands. Thanks to modern and updated technology used in the factory, the percentage of wastes and defects of casting have decreased to a great extent and speed of production and quality has noticeably increased accordingly.

- Casting  
Casting is performed after confirmation by laboratory director at a specific temperature.

## STEP 1

### Casting Products

STEP 2

STEP 3

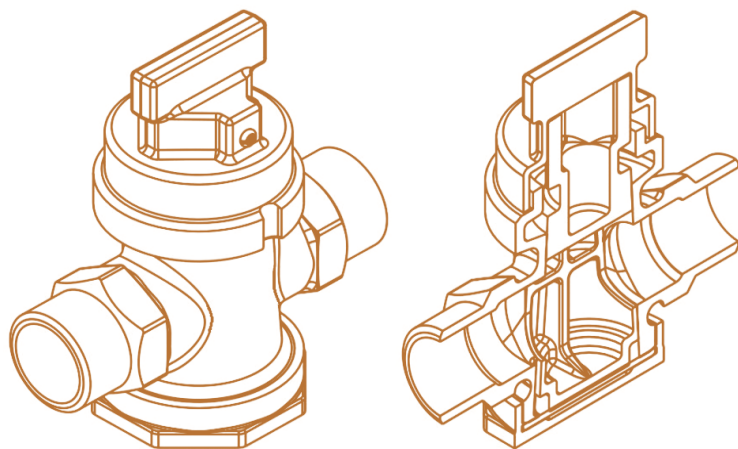
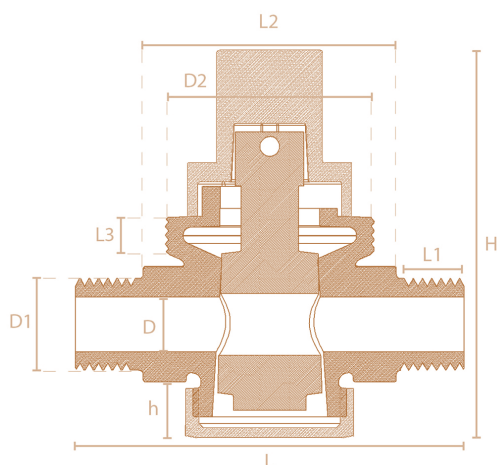
STEP 4

STEP 5





# 2 | CURB VALVE



## DEFINITION AND APPLICATION

This kind of valve that is opened and closed through 1/4th of the round. It is of Plug Style Valve. This valve is used to disconnect or connect water flow before entrance door of the property for management purpose. Moreover, this type of valve is used when something happens between curb valve and water meter box. Also, it provides the possibility of providing and production by five-layer couplings (PEX-AL-PEX Pipe) as well.



## THE PLACE FOR USED

*This type of valve is installed outside the subscriber's property, hidden beneath the cell.*




## TABLE

Body Material	Bronze ASTM B62\C83600, EN19282\CC491K	Brass ASTM B455\C38500/C38000, EN12164\CW617N/CW614N
Sizes	DN15-50	
Connection	Male, Compression Fittings	
Operating Pressure	Max.16 bar (marked with PN10)	
Cap	Bronze / Brass	
Plug valve		
Plug	Bronze	
Washer	Rubber	
Nut	Bronze / Brass	
Screw	Brass / Stainless steel / Iron	
Ball valve		
Ball	Plated Brass	
Stem	Brass	
O-Ring	Rubber	
Ball Washer	PTFE	
Compression Nut	Brass	
Compression Ring	Brass	

## Products


### 2 L1 PLUG STYLE CURB VALVE

plug style Curb valve   DN 15-50   Bronze	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
	15	1/2	98	VA-12211	
	20	3/4	99.5	VB-12211	
	25	1	118.5	VC-12211	
	32	1 1/4	176.5	VD-12211	
	40	1 1/2	176.5	VE-12211	
	50	2	220	VF-12211	



2  
L2



## PLUG STYLE CURB VALVE (COMPRESSION FITTINGS)

Plug Style Curb Valve (Compression Fittings)	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
	15	20*20	107	VA-12233	
	20	25*25	112	VB-12233	
	25	32*32	121	VC-12233	

SEE MORE  
DETAILS &  
INFORMATION  
HERE.

2  
L3



## BALL STYLE CURB VALVE

Ball Style Curb Valve   DN 15-25   Bronze   Brass	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
 	15	1/2	91	VA-12111	VA-22111
	20	3/4	88	VB-12111	VB-22111
	25	1	102	VC-12111	VC-22111

SEE MORE  
DETAILS &  
INFORMATION  
HERE.

2  
L4

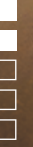
## BALL STYLE CURB VALVE (COMPRESSION FITTINGS)

Ball Style Curb Valve (Compression Fittings)   DN 15-25   Bronze   Brass	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
 	15	20*20	110.5	VA-12133	VA-22133
	20	25*25	107	VB-12133	VB-22133
	25	32*32	121	VC-12133	VC-22133

SEE MORE  
DETAILS &  
INFORMATION  
HERE.







Machining and cutting all parts are performed by full-automatic and semi-automatic lathe machines under the supervision of highly experienced quality control engineers and technicians by instrumentations. Using the said equipment, human errors are noticeably decreased and such errors can be regarded as equal to zero.

#### Shot blast

This stage of the production process is to achieve a high level of smoothness and free from sand, ... which itself has 2 different stages:

##### 1. Soil cleaning

Cleaning the surface sands stuck to the surface of the part.

##### 2. Polishing

In order to achieve the maximum smoothness on the surface and omission of the entire sands stuck in the pores of the part.

## STEP 2

### Machining & Shot blast

STEP 1

STEP 3

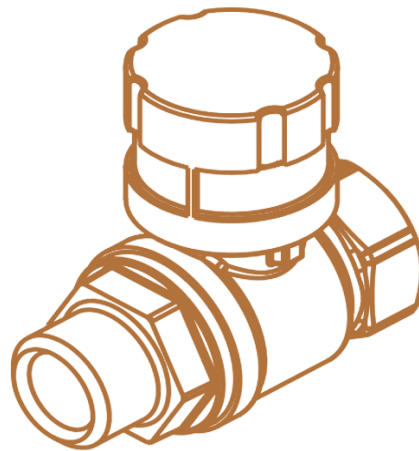
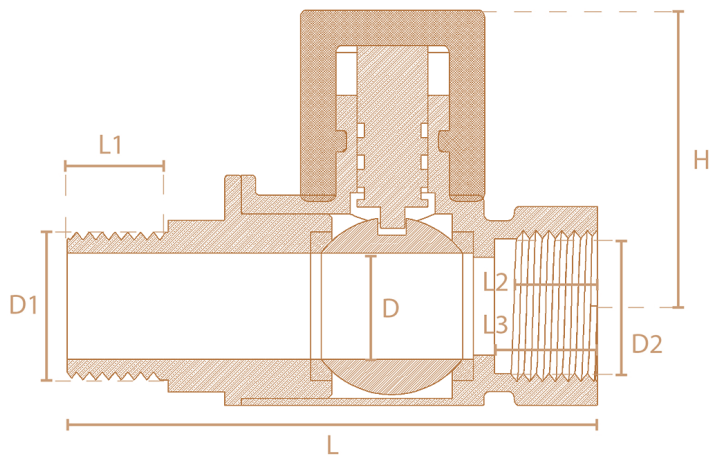
STEP 4

STEP 5





# 3 | LOCKABLE VALVE



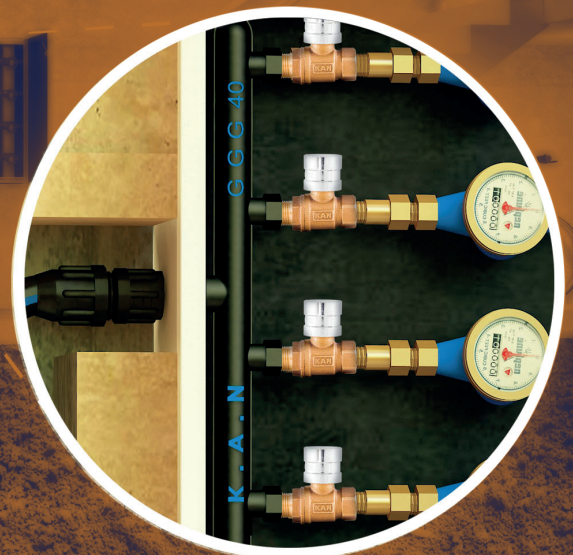
## DEFINITION AND APPLICATION

This kind of valve that is opened and closed through 1/4th of the round. It is a ball valve type. This kind of valve is used for connection or disconnection of water inside the blow hole for management purposes. Thanks to its distinguished wrench, this type of valve can be only opened and closed by the holder of the wrench. Considering its lock, it is divided into types of mechanical and magnetic lockable valves.



## THE PLACE FOR USED

*This kind of valve is installed inside the meter box/inside the subscriber's property/inside the connection panel/outside the property on the wall.*





## TABLE

Body Material	<b>Bronze</b> ASTM B62\ C83600, EN19282\ CC491K	<b>Brass</b> ASTM B455\ C38500/ C38000, EN12164\ CW617N/ CW614N
Sizes	DN15-25	
Connection	Male, Female, Compression Fittings	
Operating Pressure	Max.16 bar (marked with PN10)	
Ball	Plated Brass	
Stem	Brass	
Cap	Metal-Magnetic/Brass/Plastic	
O-Ring	Rubber	
Ball Washer	PTFE	
Compression Nut	Brass	
Compression Ring	Brass	



## Products

### 3 L1 MECHANICAL LOCKABLE BALL VALVE

Mechanical Lockable Ball Valve   DN 15-25   Brass   Bronze		DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
		15	1/2	65.5	VA-13112	VA-23112
		20	3/4	71.5	VB-13112	VB-23112
		25	1	88.5	VC-13112	VC-23112





### 3 L2 MECHANICAL LOCKABLE BALL VALVE (COMPRESSION FITTINGS)



Mechanical Lockable Ball Valve (Compression Fittings)		DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
		15	1/2*20	70	VA-13132	VA-23132
		20	3/4*25	77.5	VB-13132	VB-23132
		25	1*32	96.5	VC-13132	VC-23132



## MAGNETISM LOCKABLE BALL VALVE

Magnetism Lockable Ball Valve   DN 15-25   Brass   Bronze		DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
		15	$\frac{1}{2}$	62.5	VA-14112	VA-24112
		20	$\frac{3}{4}$	75.5	VB-14112	VB-24112
		25	1	89	VC-14112	VC-24112

SEE MORE  
DETAILS &  
INFORMATION  
HERE.MAGNETISM LOCKABLE BALL VALVE  
(COMPRESSION FITTINGS)

Magnetism Lockable Ball valve (Compression Fittings)   DN 15-25   Brass   Bronze		DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
		15	$\frac{1}{2}$ *20	66	VA-14132	VA-24132
		20	$\frac{3}{4}$ *25	77.5	VB-14132	VB-24132
		25	1*32	94	VC-14132	VC-24132

SEE MORE  
DETAILS &  
INFORMATION  
HERE.





At this stage, the product components are assembled under the supervision of the production expert and delivered to the QC unit to test the performance of the valve.

### STEP 3

## Assembling Products

STEP 1

STEP 2

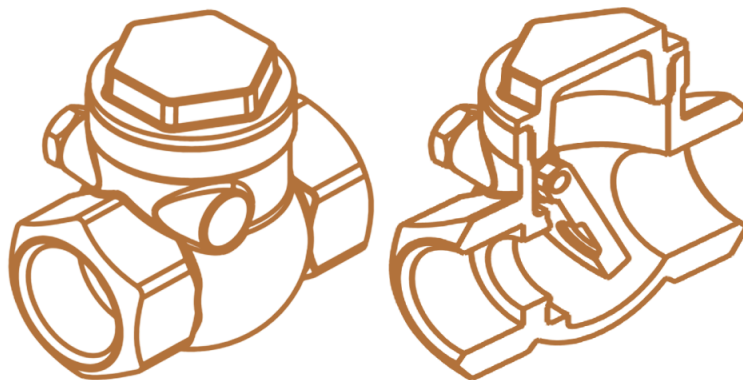
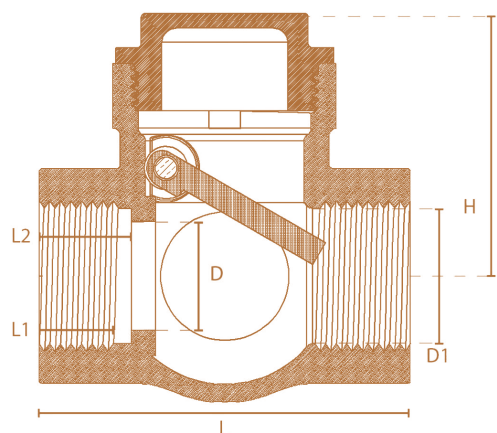
STEP 4

STEP 5





# 4 | CHECK VALVE



## DEFINITION AND APPLICATION

This type of valve is used to prevent water from returning to the water supply network. The operation of this valve is based on changes in water pressure on each side. It is possible that the returned water may contaminate the water in the urban network due to contamination and raises some health problems. Also, it is possible that hot water swing check valve does not function in the internal network equipment well and eventually, hot water enters the meter and eventually dysfunctions the said meter.



## THE PLACE FOR USED

*Mounted inside properties (For EXP. In water meter box after water meter)*




## TABLE

Body Material	<b>Bronze</b> ASTM B62\C83600, EN19282\CC491K	<b>Brass</b> ASTM B455\C38500/C38000, EN12164\CW617N/CW614N
Sizes	DN15-50	
Connection	Female, Male	
Operating Pressure	Max.16 bar (marked with PN10)	
Disk	Bronze/Brass	
Cover	Bronze/Brass	
Hinge pin	Brass	

## Products


### 4 L1 CHECK VALVE TYPE A

Check Valve   Type A   DN 15-50   Bronze   Brass	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
	15	1/2	53	VA-15322C	VA-25322
	20	3/4	58	VB-15322C	VB-25322
	25	1	68	VC-15322C	VC-25322
	32	1 1/4	88	VD-15322C	VD-25322
	40	1 1/2	93	VE-15322C	VE-25322
	50	2	110	VF-15322C	VF-25322

SEE MORE  
DETAILS &  
INFORMATION  
HERE.



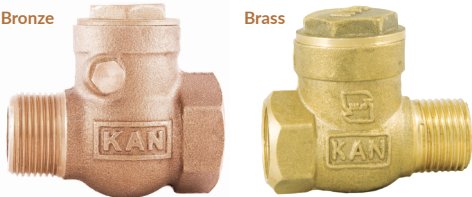
### 4 L2 CHECK VALVE TYPE B

Check Valve   Type B   DN 15-25   Bronze	DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
	15	1/2	58	VA-15322	
	20	3/4	62	VB-15322	
	25	1	73	VC-15322	


SEE MORE  
DETAILS &  
INFORMATION  
HERE.



CHECK VALVE  
TYPE C

Check Valve   Type C   DN 15-25   Bronze   Brass		DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
	Bronze <span style="margin-left: 20px;">Brass</span>	15	$\frac{1}{2}$	58	VA-15312	VA-25312
		20	$\frac{3}{4}$	69	VB-15312	VB-25312
		25	1	77	VC-15312	VC-25312

SEE MORE  
DETAILS &  
INFORMATION  
HERE.CHECK VALVE  
TYPE D

Check Valve   Type D   DN 15-25   Bronze		DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
	Bronze	15	$\frac{1}{2}$	64	VA-15321	
		20	$\frac{3}{4}$	73	VB-15321	
		25	1	84	VC-15321	

SEE MORE  
DETAILS &  
INFORMATION  
HERE.





All stages of production are performed under the supervision of QC manager by considering the updated and world standards so that no defective part will be transferred from one stage to another and eventually the output product is completely intact by meeting the standard and desirable quality. Inspections performed comprise the following items:

- 1.VT Inspections
- 2.Control of dimensions
- 3.sealing test



**STEP 4**  
Quality control

STEP 1

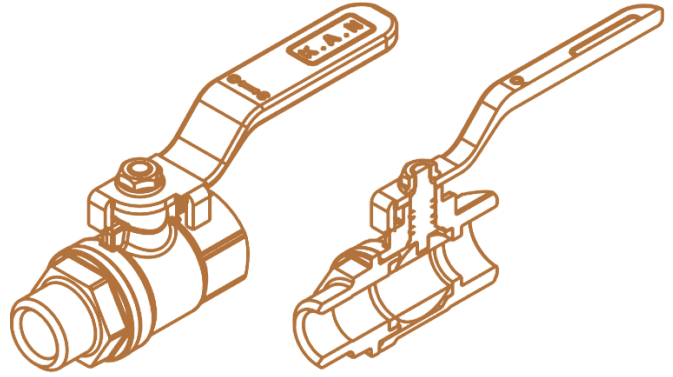
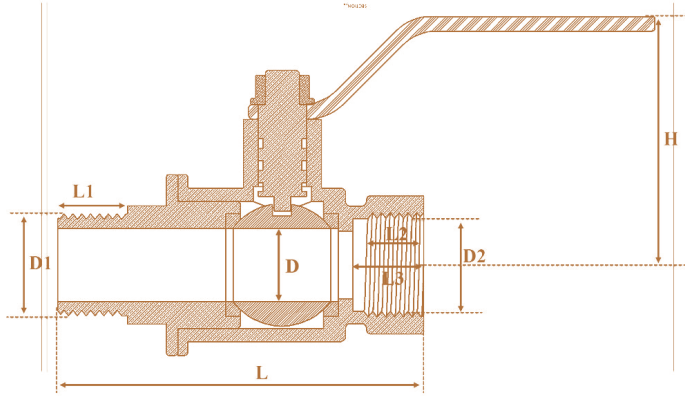
STEP 2

STEP 3

STEP 5



# 5 | BALL VALVE



## DEFINITION AND APPLICATION

This kind of valve that is opened and closed through 1/4th of the round. It is a ball type. It is a ball type of valve is used to disconnect or connect the water flow urgently. It can be produced by push-fit fittings with T-Lever or Gas type.



## THE PLACE FOR USED

*Mounted inside properties (For EXP. In water meter box)*





## TABLE

Body Material	<b>Bronze</b> ASTM B62\ C83600, EN19282\ CC491K	<b>Brass</b> ASTM B455\ C38500/ C38000, EN12164\ CW617N/ CW614N
Sizes	DN15-25	
Connection	Female, Male, Compression Fittings	
Operating Pressure	Max.16 bar (marked with PN10)	
Lever	Metal	
Ball	Plated Brass	
Stem	Brass	
O-Ring	Rubber	
Compression Nut	Brass	
Compression Ring	Brass	



## Products

### 5 L1 BALL VALVE (F-F THREAD)

Ball Valve (F-F Thread)   DN 15-25   Bronze   Brass		DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
		15	1/2	56	VA-16122	VA-26122
		20	3/4	61.5	VB-16122	VB-26122
		25	1	83	VC-16122	VC-26122

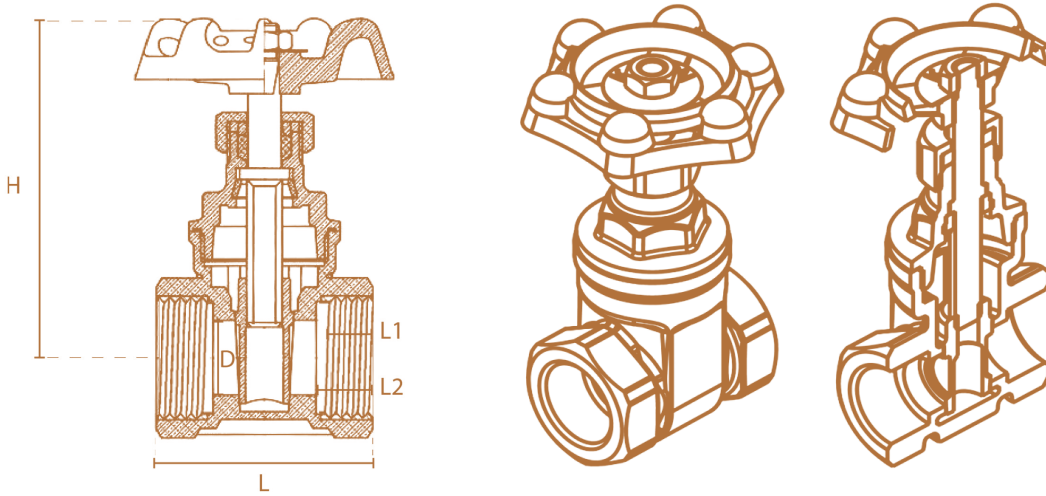


### 5 L2 BALL VALVE (F-M THREAD)

Ball Valve (F-M Thread)   DN 15-25   Bronze   Brass		DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
		15	1/2	65	VA-16121	VA-26121
		20	3/4	71.5	VB-16121	VB-26121
		25	1	89	VC-16121	VC-26121



# 6 | GATE VALVE



## DEFINITION AND APPLICATION

This kind of valve is used to disconnect or connect the water flow slowly inside the property. The function of this valve is in such a manner that water flow is controlled by the sliding blocker that is wedge in form. When the valve is in open state, the edge of the blocker should not contact the water so that corrosion will be prevented.



## THE PLACE FOR USED

*This kind of valve is installed inside the meter box or connection panel after the non-return valve.*







## TABLE

Body Material	<b>Bronze</b> ASTM B62\ C83600, EN19282\ CC491K	<b>Brass</b> ASTM B455\ C38500/ C38000, EN12164\ CW617N/ CW614N
Sizes	DN15-50	
Connection	Female	
Operating Pressure	Max.16 bar (marked with PN10)	
Gate	Bronze / Brass	
Bonnet	Bronze / Brass	
Stem	Brass	
Nut	Brass	
Handwheel	Lead / Cast Iron / ABS	

## Products

### 6 L1 GATE VALVE

Gate Valve   DN 15-25   Bronze   Brass		DN	Dimension (inch)	length (mm)	SN-Bronze	SN-Brass
		15	1/2	45	VA-17422	VA-27422
		20	3/4	49	VB-17422	VB-27422
		25	1	55	VC-17422	VC-27422

SEE MORE  
DETAILS &  
INFORMATION  
HERE.



# ALL PRODUCTS



■ BOX



■ WATERMETER



■ PE & PP



■ DUCTIL IRON



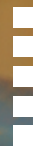
■ VALVES



THE PLACE FOR USED







In order to provide a guarantee and to create the traceability of the valve production process, a unique serial number is engraved on each product. This serial number provides the following information to the consumer.

- valve name
- Date of manufacture
- Unique number (possibility of tracking sales)

## STEP 5 Serial Number

STEP 1

STEP 2

STEP 3

STEP 4





Our company, with over 30 years of experience, proudly announces its successful execution of numerous projects across the entire expanse of Iran. From the northern regions to the southern, and from the eastern to the western parts of the country, we have undertaken and successfully completed a diverse range of projects, including the production and installation of valves and fittings. These projects reflect our commitment to delivering high-quality services and expertise in handling challenging projects nationwide. Our team boasts a wealth of expertise and experience, and we are honored to be recognized as the leader of our industry in Iran.



# CONTACT US

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