



Catalogue



Components engineered for energy consumption optimization, energy metering, hot and cold fluid distribution.



Radiant floors and walls systems, false radiant ceilings for residential and tertiary applications, thermoregulation and air treatment.



Components for water distribution systems in buildings, devices for hydronic systems.



Products and systems for a safe and performing gas distribution inside buildings.



Components for systems dedicated to producing energy from renewable sources.



Specialized high-end components for professional fire protection applications.

R850 FULL PORT BALL VALVE

FOR WATER, OIL & GAS APPLICATIONS



Description

Ball valve with female-female connections. For plumbing, gas and liquid hydrocarbon systems. Chrome-plated brass. Full port. Steel lever handle (red or yellow).

Field of applications

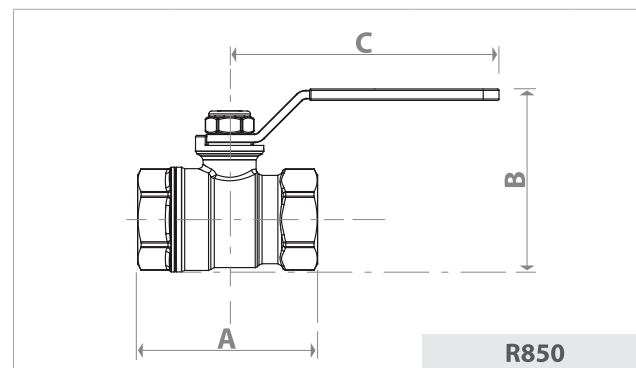
- Max. working pressure at 20 °C with water and not dangerous gas:
3,5 MPa (35 bar) for 1/4" - 3/8" - 1/2" - 3/4"
2,8 MPa (28 bar) for 1" - 1 1/4" - 1 1/2" - 2" - 2 1/2" - 3" - 4"
- Minimum working temperature: -20 °C with 50 % glycol solutions
- Max. working pressure at 20 °C with liquid hydrocarbon: 1,2 MPa (12 bar)
- Max. operating pressure (MOP) with gas: 0,5 MPa (5 bar)
- Max. working conditions with dry saturated steam:
185 °C with 1,05 MPa (10,5 bar)

Technical data

Main features and materials

- Suitable for plumbing, gas and liquid hydrocarbon systems.
- Connections: F x F (ISO 228).
- Full port from size 1/4" to 2" / Standard port from size 2 1/2" to 4".
- UNI EN 12165 CW617N chrome-plated brass valve.
- Stem with double O-Ring.
- Nut with anti-corrosion coating, with guarantee seal and hologram.
- Steel lever handle (red for water use; yellow for gas use), with pvc anti-corrosion coating.
- Gaskets: PTFE with low friction profile

Dimensions



Approvals



Size	DN	A [mm]	B [mm]	C [mm]	Kv
1/4"	8	43	36	43	6,6
3/8"	10	46	45	77	6,7
1/2"	15	53	51	77	12,7
3/4"	20	60	67	95	24,6
1"	25	74	76	95	48,5
1 1/4"	32	84	85	95	98,0
1 1/2"	40	95	104	137	140
2"	50	109	120	137	211
2 1/2"	58	146	154	173	240
3"	68	160	169	173	269
4"	90	207	207	187	461

Product specifications

R850

Ball valve with female-female connections. For plumbing, gas and liquid hydrocarbon systems. UNI EN 12165 CW617N chrome-plated brass. Full port from size 1/4" to 2"; standard port from size 2 1/2" to 4". Steel lever handle (red for water use; yellow for gas use), with pvc anti-corrosion coating. Stem with double O-Ring. Nut with anti-corrosion coating, with guarantee seal and hologram.

* For more details please visit www.giacomini.in

R250D STANDARD PORT BALL VALVE

FOR WATER, OIL & GAS APPLICATIONS



R250D



Description

Ball valve with female-female connections. For plumbing, gas and liquid hydrocarbon systems. Chrome-plated brass. Standard port. Steel lever handle (red or yellow).

Field of applications

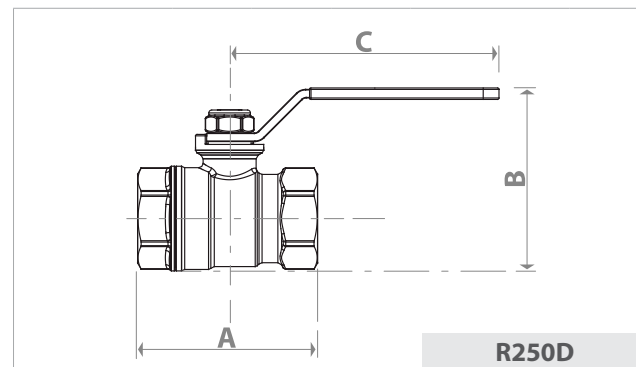
- Max. working pressure at 20 °C with water and not dangerous gas:
4,2 MPa (42 bar) for 1/4" - 3/8" - 1/2" - 3/4"
3,5 MPa (35 bar) for 1" - 1 1/4" - 1 1/2" - 2"
2,8 MPa (28 bar) for 2 1/2" - 3" - 4"
- Minimum working temperature: -20 °C with 50 % glycol solutions.
- Max. working pressure at 20 °C with liquid hydrocarbon: 1,2 MPa (12 bar)
- Max. operating pressure (MOP) with gas: 0,5 MPa (5 bar)
- Max. working conditions with dry saturated steam:
185 °C with 1,05 MPa (10,5 bar)

Technical data

Main features and materials

- Suitable for plumbing, gas and liquid hydrocarbon systems.
- Connections: F x F (ISO 228).
- Standard port.
- UNI EN 12165 CW617N chrome-plated brass valve.
- Stem with double O-ring.
- Nut with anti-corrosion coating, with guarantee seal and hologram.
- Steel lever handle (red for water use; yellow for gas use), with pvc anti-corrosion coating.

Dimensions



R250D

Approvals



Size	DN	A [mm]	B [mm]	C [mm]	Kv
1/4"	8	43	36	43	6,6
3/8"	10	45	46	77	6,7
1/2"	14	54	49	77	10,2
3/4"	18	63	64	94	18,5
1"	22	75	73	94	36,3
1 1/4"	28	84	82	94	73,5
1 1/2"	35	93	100	136	105
2"	45	107	115	136	158
2 1/2"	58	146	154	173	240
3"	68	160	169	173	269
4"	90	207	207	187	461

Product specifications

R250D

Ball valve with female-female connections. For plumbing, gas and liquid hydrocarbon systems. UNI EN 12165 CW617N chrome-plated brass. Standard port. Steel lever handle (red for water use; yellow for gas use), with pvc anti-corrosion coating. Stem with double O-ring. Nut with anti-corrosion coating, with guarantee seal and hologram. Max. working pressure at 20 °C with water and not dangerous gas: 4,2 MPa (42 bar) for 1/4" - 3/8" - 1/2" - 3/4"; 3,5 MPa (35 bar) for 1" - 1 1/4" - 1 1/2" - 2"; 2,8 MPa (28 bar) for 2 1/2" - 3" - 4". Minimum working temperature: -20 °C with 50 % glycol solutions. Max. working pressure at 20 °C with liquid hydrocarbon: 1,2 MPa (12 bar). Max. operating pressure (MOP) with gas: 0,5 MPa (5 bar). Max. working conditions with dry saturated steam: 185 °C with 1,05 MPa (10,5 bar).

* For more details please visit www.giacomini.in

Giacomini ball valves are suitable for use with the following products at room temperature and as indicated in the table:

	R250D	R850
Alcohol	+	+
Argon, nitrogen and technical gases (not for hospital uses)	+	+
Oxygen for hospitals	0	0
Gasoline	+	+
Benzene	+	+
Chlorine	0	0
Diesel	+	+
Gases of 1st, 2nd, 3rd family for range of -20 up to 60°C	+	+
Glycol as antifreeze	+	+
Salted water	0	0
Paraffin	+	+
Mineral oil	+	+
Methanol	+	+
All ammoniac containing products	0	0
Water at CWP (cold water pressure 600 psi) 41 bar as per MSS SP110	+	+
Max. steam peak temperature 185°	+	+

Where

+ = suitable

0 = non suitable

The pH value must stay within 5.5 and 9.5. All halogens corrode chromium layer. Water controls are requested.

R850+R749T BALL VALVE WITH EXTENDED STEM FOR CHILL WATER APPLICATION



Description

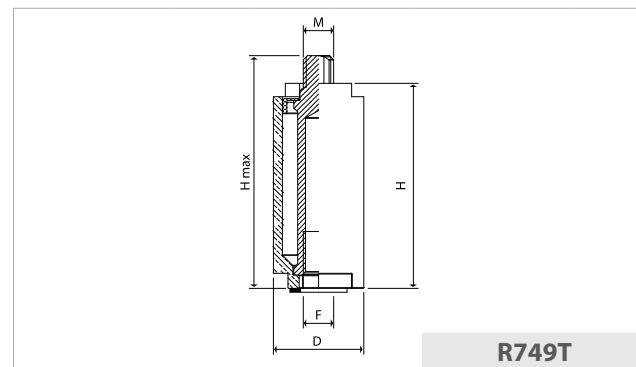
The need to achieve Energy saving, motivated by the environment safeguard, the cost increase of the fuels, and the need to provide at the use point the vector fluid at the necessary temperature, has brought to a sensible increase of the use of heat insulator material on the distribution lines of sanitary systems, heating, cooling and conditioning systems.

In order to allow anyway an easy manoeuvre of the ball valves installed on insulated lines, Giacomini has developed the cylinder extension for ball valves. The particular configuration of Giacomini's ball valves and R749T cylinder extension permits to apply these ones on installed valves too, without interrupting the flow of fluids, steams, gas or hydrocarbons circulating into the system. The appropriate R749T cylinder extension must be chosen depending on the type and on the size of the installed valve.

Field of applications

- Max. working pressure at 20 °C with water and not dangerous gas:
3,5 MPa (35 bar) for 1/4" - 3/8" - 1/2" - 3/4"
2,8 MPa (28 bar) for 1" - 1 1/4" - 1 1/2" - 2" - 2 1/2" - 3" - 4"
- Minimum working temperature: -20 °C with 50 % glycol solutions
- Max. working pressure at 20 °C with liquid hydrocarbon: 1,2 MPa (12 bar)
- Max. operating pressure (MOP) with gas: 0,5 MPa (5 bar)
- Max. working conditions with dry saturated steam:
185 °C with 1,05 MPa (10,5 bar)

Dimensions



Version		Hmax [mm]	H [mm]	D [mm]	M [mm]	F [mm]
Chrome-plated	Size					
R749TX101	3/8", 1/2"	50	40	20	M8	M8
R749TX102	3/4", 1", 1 1/4"	61	50	24	M8	M8
R749TX103	1/2", 2"	81	65	29	M12	M12
R749TX004	2 1/2", 3"	93	70	31	M16	M16
R749TX005	4"	107	85	36	M16	M16

Technical data

Main features and materials

- Suitable for plumbing, gas and liquid hydrocarbon systems.
- Suitable for insulation purpose for cooling & conditioning system
- Connections: F x F (ISO 228).
- Full port from size 1/4" to 2" / Standard port from size 2 1/2" to 4".
- UNI EN 12165 CW617N chrome-plated brass valve.
- Stem with double O-Ring.
- Nut with anti-corrosion coating, with guarantee seal and hologram.
- Steel lever handle (red for water use; yellow for gas use), with pvc anti-corrosion coating.
- Gaskets: PTFE with low friction profile

Main features and materials of extension

- Internal stem, cylindrical protection extension, stem washer made of brass UNI EN 12165 CW617N.
- PTFE stuffing box ring.

* For more details please visit www.giacomini.in

R851TH + R540F FULL PORT BALL VALVE WITH TEMPERATURE GAUGE



Description

Ball valve with female-female connections. Specific for pipes with high insulation thickness. For cooling & conditioning systems Chrome-plated brass. Full port.
Allows easy maneure of ball valves installed on insulated lines, Giacomini has developed plastic extended T handle.

Technical data

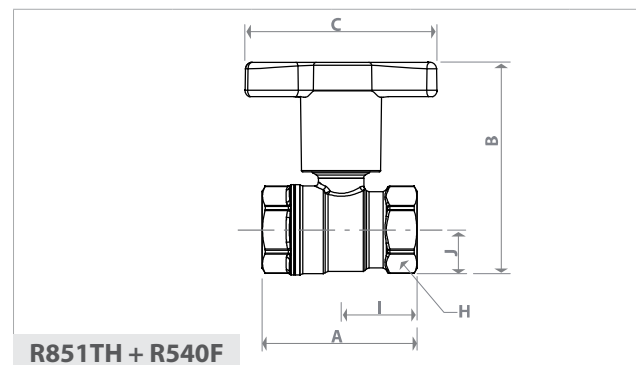
Main features and materials

- Suitable for insulation purpose for cooling & conditioning systems
- Connections: F x F (ISO 228).
- Full port.
- UNI EN 12165 CW617N chrome-plated valve.
- Stem with double O-ring.
- Nut with anti-corrosion coating.
- Plastic extended T handle (black handle, red plate).
- Temperature gauge 0 to 120 °C

Field of applications

- Max. working pressure at 20 °C with water and not dangerous gas:
3,5 MPa (35 bar) per 3/8" - 1/2" - 3/4"
2,8 MPa (28 bar) per 1" - 1 1/4" - 1 1/2" - 2"
- Temperature range: -20÷110 °C (-20 °C with 50 % glycol solutions), possibility of 120 °C for short periods of time

Dimensions



Size	DN	A [mm]	I [mm]	B [mm]	J [mm]	C [mm]	H [mm]
3/8"	10	46	23	73	13	78	20
1/2"	15	53	27	80	16	78	25
3/4"	20	60	30	89	20	78	31
1"	25	74	37	98	24	78	38
1 1/4"	32	84	42	108	30	78	47
1 1/2"	40	95	47	141	35	96	54
2"	50	109	54	156	43	96	66

Product specifications

R851TH

Ball valve with female-female connections. Specific for pipes with high insulation thickness. Chrome-plated brass. Full port.
Plastic extended T handle. Stem with double O-ring. Nut with anti-corrosion coating. Max. working pressure at 20 °C with water and not dangerous gas: 3,5 MPa (35 bar) per 3/8" - 1/2" - 3/4"; 2,8 MPa (28 bar) per 1" - 1 1/4" - 1 1/2" - 2". Temperature range: -20÷110 °C (-20 °C with 50 % glycol solutions), possibility of 120 °C for short periods of time.

NOTE : Ball Valve is available with or without temperature gauge.

R854 STANDARD PORT BALL VALVE

FOR WATER, OIL & GAS APPLICATIONS



R854



Description

Ball valve with female-male connections. For plumbing, gas and liquid hydrocarbon systems. Chrome-plated brass. Standard port. Steel lever handle (red or yellow)

Field of applications

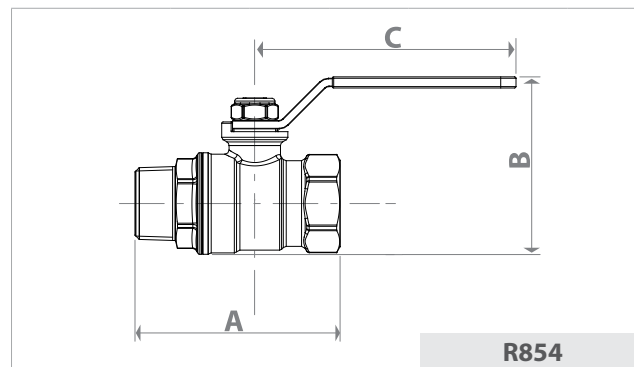
- Max. working pressure at 20 °C with water and not dangerous gas:
4,2 MPa (42 bar) for 1/4" - 3/8" - 1/2" - 3/4"
3,5 MPa (35 bar) for 1" - 1 1/4" - 1 1/2" - 2"
- Minimum working temperature: -20 °C with 50 % glycol solutions
- Max. working pressure at 20 °C with liquid hydrocarbon: 1,2 MPa (12 bar)
- Max. operating pressure (MOP) with gas: 0,5 MPa (5 bar)
- Max. working conditions with dry saturated steam:
185 °C with 1,05 MPa (10,5 bar)

Technical data

Main features and materials

- Suitable for plumbing, gas and liquid hydrocarbon systems.
- Connections: F (ISO 228) x M (R - EN 10226).
- Standard port.
- UNI EN 12165 CW617N chrome-plated brass valve.
- Stem with double O-ring.
- Nut with anti-corrosion coating, with guarantee seal and hologram.
- Steel lever handle (red for water use; yellow for gas use), with pvc anti-corrosion coating.

Dimensions



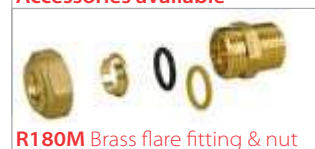
R854

Size	DN	A [mm]	B [mm]	C [mm]	Kv
1/4"	8	51	36	43	6,6
3/8"	10	55	46	77	6,7
1/2"	14	64	49	77	10,2
3/4"	18	76	64	94	18,5
1"	22	89	73	94	36,3
1 1/4"	28	100	82	94	73,5
1 1/2"	35	105	100	136	105
2"	45	124	115	136	158



R854+R74A

Accessories available



R180M Brass flare fitting & nut

BRASS VALVE WITH STRAINER

R74A Y-FILTER FOR WATER APPLICATION



R74A



Description

Inspectable Y filter, suitable for the distribution of non-hazardous fluids (group 2, according to the PED Directive) which are safe for use with copper alloys. The filter features a metallic mesh, which was designed to prevent solid impurities from entering into the piping and, by depositing residues, reducing the width of the passage, thus increasing losses of pressure and oxidation.

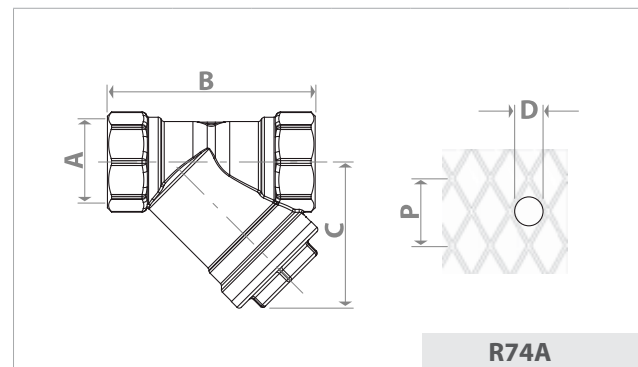
Technical data

- Temperature range: 5÷110 °C
- Max. working pressure: 16 bar
- Connections: female threaded ISO 228
- Filtering capacity: 500 µm

Materials

- Body: brass UNI EN 12165 - CW617N for 3/8"÷1 1/4";
brass EN 1982 - CB7535 for 1 1/2"÷2 1/2";
bronze UNI EN 1982 - CB491K for 3", 4".
- Cap: brass UNI EN 12165 - CW617N
- Gasket: EPDM
- Basket: stainless steel AISI 304

Dimensions



R74A

Product code	A	B [mm]	C [mm]	P [mm]	D [µm]	N
R74AY002	3/8"	48	33	1	500	70
R74AY003	1/2"	52	34			
R74AY004	3/4"	63	42			
R74AY005	1"	75	50			
R74AY006	1 1/4"	91	63			
R74AY007	1 1/2"	102	70			
R74AY008	2"	118	87			
R74AY009	2 1/2"	150	108			
R74AY010	3"	167	148			
R74AY011	4"	226	185			

P: passage of holes

D: diameter of hole inscribed

N: number of holes per cm²

Product specifications

R74A

Inspectable Y filter with stainless steel basket. Female threaded connection ISO 228. Brass body UNI EN 12165 CW617N for 3/8"÷1 1/4"; brass EN 1982 CB7535 for 1 1/2"÷2 1/2"; bronze UNI EN 1982 CB491K for 3", 4". Cap in brass UNI EN 12165 CW617N. Gasket in EPDM. Temperature range 5÷110 °C. Max. working pressure 16 bar.

* For more details please visit www.giacomini.in

R99 AND R99I AUTOMATIC AIR VENT FOR WATER APPLICATION



Description

R99 and R99I automatic air vent valves can discharge large air quantities, that formed into the hydraulic circuits of the heating/cooling or sanitary systems. This avoids the onset of negative phenomenon, that could compromise the lifetime and the efficiency of the thermal system. The automatic air vent valves are performing either during the initial phases of the system load where the air quantity to be discharged is high, or during the operation where the discharge shall not happen continuously but intermittently, with modest air amounts to be discharged in a progressive way.

Technical data

- Temperature range: 5÷120°C
- Maximum working pressure: 14 bar
- Maximum pressure of air vent operation: 7 bar
- Use fluids: water and glycol solutions (maximum 50%)

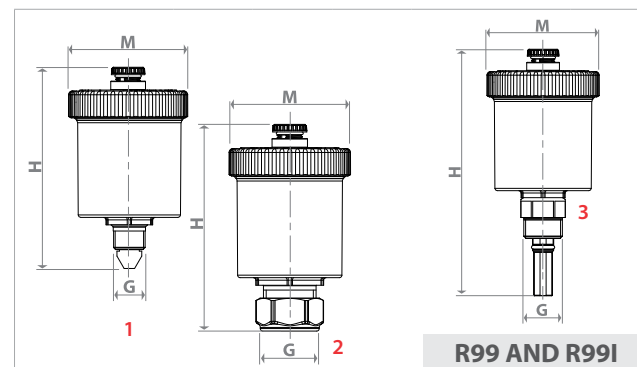
Materials

- Body: UNI EN 12165 CW617N brass
- O-ring: EPDM
- Shutter spring: inox
- Internal float: PP-H

Accessories available



Dimensions



Product code	G	L [mm]	H [mm]
R99Y001	1/4"	48	81
1 R99Y002	3/8"	48	82
R99Y003	1/2"	48	75
2 R99Y033	Ø 15 [mm]	48	82
3 R99IY002	3/8"	48	106
R99IY003	1/2"	48	106

Product specifications

R99

Automatic air vent for heating/cooling or sanitary systems. Body in UNI EN 12165 CW617N brass. O-ring in EPDM. Shutter spring in inox. Internal float in PP-H. Use fluids: water and glycol solutions (maximum 50%). Temperature range 5÷120 °C. Maximum working pressure 14 bar. Maximum pressure of air vent operation 7 bar.

R99I

Automatic air vent with R160 isolating valve, for heating/cooling or sanitary systems. Body in UNI EN 12165 CW617N brass. O-ring in EPDM. Shutter spring in inox. Internal float in PP-H. Use fluids: water and glycol solutions (maximum 50%). Temperature range 5÷120 °C. Maximum working pressure 14 bar. Maximum pressure of air vent operation 7 bar.

* For more details please visit www.giacomini.in

R55 GATE VALVE FOR WATER APPLICATION



R55



Description

Gate valve with female threads. It is suitable for use with cold water, hot water and steam at low pressure. It satisfies the requirements of PED 97/23/CE Directive, according to which, it is exempted from CE marking according to 3.3 paragraph.

Field of applications

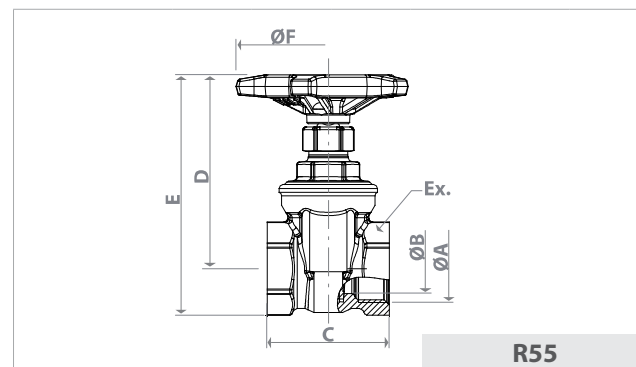
- Temperature range: 5÷110 °C (41÷230 °F)
- Max. working pressure: 16 bar / 232 psi (a 23 °C / 73 °F)
10 bar / 145 psi (a 95 °C / 203 °F)

Technical data

Main features and materials

- Suitable for plumbing systems.
- Connections: F x F (ISO 228 - BSP - NPT)
- Body: UNI EN 12165 - CW 617N (3/8"÷2")
UNI 7013 - CuSn5Zn5Pb5 (4")
- Particulars in forged brass (UNI EN 12165 - CW 617N)
and machined from bar (UNI EN 12164 - CW 614 N).
- PTFE external sealing.
- Handwheel: Alluminium (3/8"÷3")
Steel plate laminated with epoxy red (4").
- Zinc plated steel nut for fixing of the handwheel.

Dimensions



R55

Size (Ø A)	Ø B [mm]	C [mm]	D [mm]	Ex.	E [mm]	Ø F [mm]
3/8"	12	37	60	22	72	59
1/2"	14	43	64	26	79	59
3/4"	19	48	76	33	94	72
1"	25	54	87	40	109	72
1 1/4"	32	62	96	49	130	84
1 1/2"	38	64	116	55	147	95
2"	51	76	140	69	178	108
2 1/2"	60	80	186	84	233	145
3"	70	84	198	98	256	145
4"	93	96	240	-	-	120

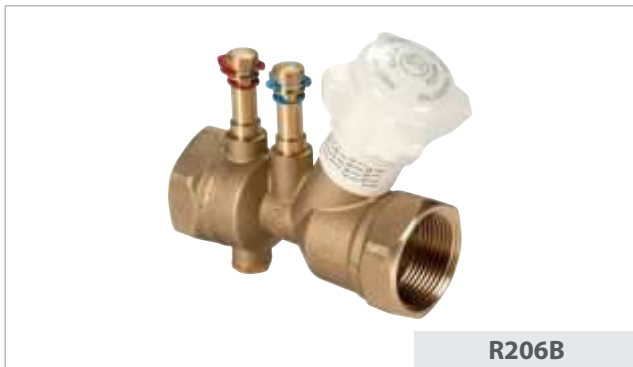
Product specifications

R55

Gate valve with female threads. It is suitable for use with cold water, hot water and steam at low pressure. Body: brass UNI EN 12165 - CW 617N (3/8"÷2"); bronze UNI 7013 - CuSn5Zn5Pb5 (4"). Particulars in forged brass (UNI EN 12165 - CW 617N) and machined from bar (UNI EN 12164 - CW 614 N). PTFE external sealing. Handwheel: Alluminium (3/8"÷3"); Steel plate laminated with epoxy red (4"). Zinc plated steel nut for fixing of the handwheel. Temperature range 5÷110 °C (41÷230 °F). Max. working pressure 16 bar / 232 psi (a 23 °C / 73 °F); 10 bar / 145 psi (a 95 °C / 203 °F). It satisfies the requirements of PED 97/23/CE Directive, according to which, it is exempted from CE marking according to 3.3 paragraph.

* For more details please visit www.giacomini.in

R206B STATIC BALANCING VALVE FOR WATER APPLICATION



R206B



Description

Balancing is essential to saving the energy used in hydronic systems. The R206B are static balancing valves, that allow a gradual and precise regulation of the flow rate.

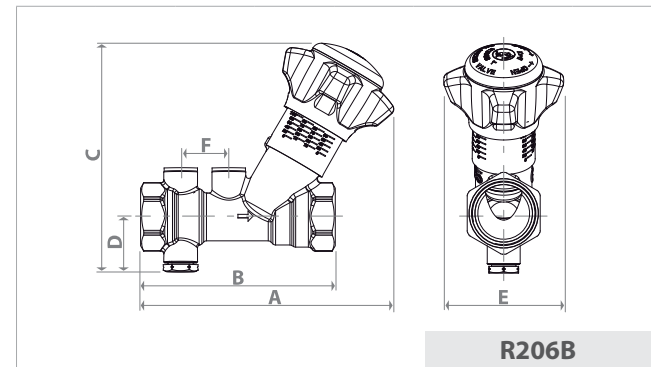
The R206B valves have a flowmeter with calibrated orifice (Venturi principle), that is with fixed Kv. Through the pressure outlets (depending on the versions they are provided with or they are optional accessory) and a differential manometer, it allows to carefully measure the flow rate actually circulating.

Technical data

Main features and materials

- Temperature range: 5÷110 °C
- Maximum working pressure: 25 bar (2500 kPa)
- Drain connection 1/4" F - ISO 228
- Sensor holder for needle Ø 3 mm and lenght 30÷40 mm
- Closing function
- Presetting possibility
- Venturi flowmeter for flow rate measurement by means of pressure probes
- Handwheel: ABS, white color
- Body: dezincification resistant brass DZR (EN 12165 - CW602N)

Dimensions



R206B

Connections	DN	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
1/2"	15	131	95	119	25	64	25
3/4"	20	131	101	118	28	64	25
1"	25	131	110	122	32	64	25
1 1/4"	32	137	120	129	35	64	25
1 1/2"	40	163	140	166	39	64	25
2"	50	169	154	172	45	70	25

Product specifications

R206B – with pressure probes

Static balancing valve with ISO 228 threaded connections female-female from 1/2" to 2". Temperature range: 5÷110 °C. Maximum working pressure: 25 bar (2500 kPa). Handwheel in ABS, white color. Body dezincification resistant brass DZR (EN 12165 - CW602N). Pressure probes to determine the flow rate through fixed orifice (Venturi principle). 1/4" F drain connection.

* For more details please visit www.giacomini.in

P206 PRESSURE SENSOR HOLDER

FOR MEASURING PRESSURE ON CHILL WATER PIPE LINE



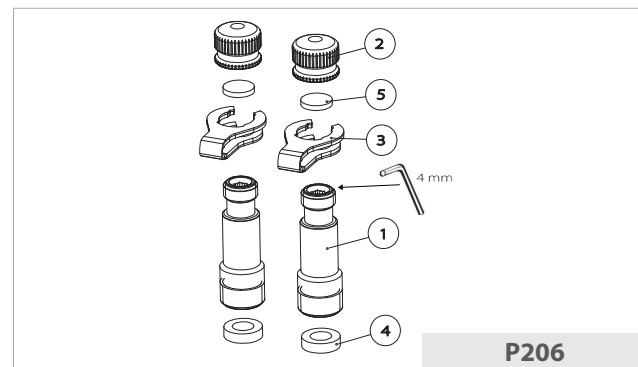
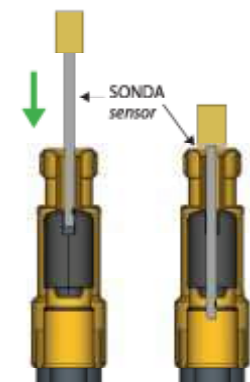
P206



Technical data

Main features and materials

- Maximum working temperature : 110°C
- Maximum working pressure : 25bar
- 1/4" M connections
for sensors with needle \varnothing 3mm and 30 - 40mm length
- DZR brass (CW602N)
- EPDM gaskets



P206

Components

- 1: Sensor holder, 1/4" M
- 2: Sensor holder plug (red=high pressure : blue=low pressure)
- 3: Plug holder
- 4: Gasket for sensor holder
- 5: Plug gasket

Regarding the pressure measurement

1. Remove the plugs of the sensor holder
2. Insert the sensors inside the sensor holder
3. After having effected the measurement, remove the sensors
4. Ensure the closing of the sensor holder plugs.

Caution!

During the sensor introduction, hot water leakage can occur through the pressure outlets. Wear protective clothes and glasses to prevent personal physical damages during the pressure measurement.



Do not use lubricants on the sensors to make the introduction into the outlets easier. If necessary, simply wet the sensors with clean water.

Do not leave the measurement sensors too much time into the pressure outlet, as this could cause leakages.

* For more details please visit www.giacomini.in

R206C DIFFERENTIAL PRESSURE CONTROLLER



R206C



Description

R206C balancing valves control the differential pressure maintaining it constant with any flow. The nominal differential pressure can be controlled on a constant basis from 5 to 30 kPa in "L" mode (Low) or from 25 to 60 kPa in "H" mode (High). The adjustment value is specified in the diagram. The original factory nominal set point is set to the minimum. The included 1 m capillary pipe should be connected to the circuit control valve within the flow.

Technical data

- Compatible fluids: water, glycol-based solutions (max. 50 % of glycol)
- Working temperature range: 5÷110 °C (-20÷110 °C with anti-freezing glycol)
- Max. working pressure: 16 bar
- Max. differential pressure: 6 bar
- Setting of differential pressure range:
"L" setting = 5÷30 kPa; "H" setting = 25÷60 kPa
- Connections for pressure outlets: 1/4" F (Rp - EN 10226)
- Connections for copper capillary: 1/4" M

Materials

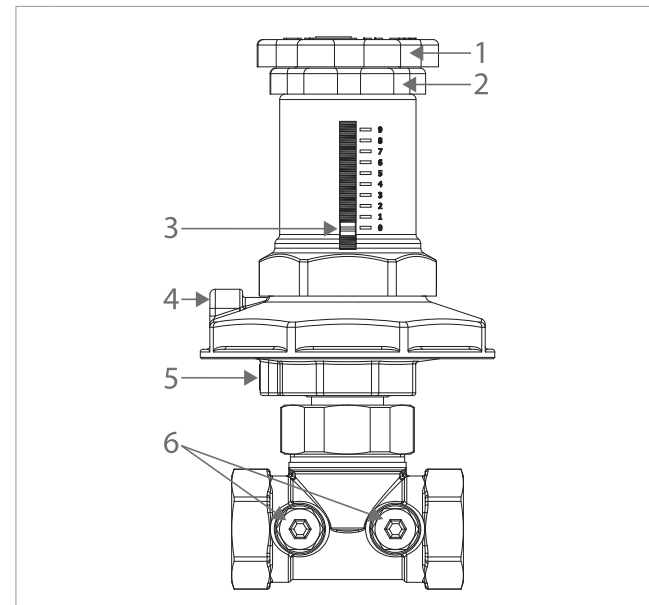
- Internal body and components: brass EN12165 - CW602N (DZR)
- Other components not in contact with water: brass EN12165 - CW617N
- Membrane: EPDM with nylon reinforcement
- O-Ring: EPDM
- Springs: galvanized steel
- Plastic components: PA 6 GF15 and POM
- Capillary pipe: copper

Product specifications

R206C

Differential pressure controller to maintain a constant pressure with any flow. The nominal differential pressure can be controlled on a constant basis from 5 to 30 kPa in "L" mode (Low) or from 25 to 60 kPa in "H" mode (High). The setting value is specified by the diagram. The original factory nominal set point is set to the minimum. 1 m copper capillary pipe included. Dezincification resistant brass (DZR) body. EPDM membranes and O-Rings. Working temperature range 5÷110 °C. Max. working pressure 16 bar.

Main components

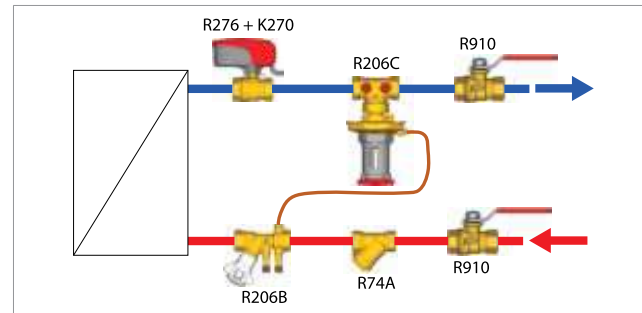
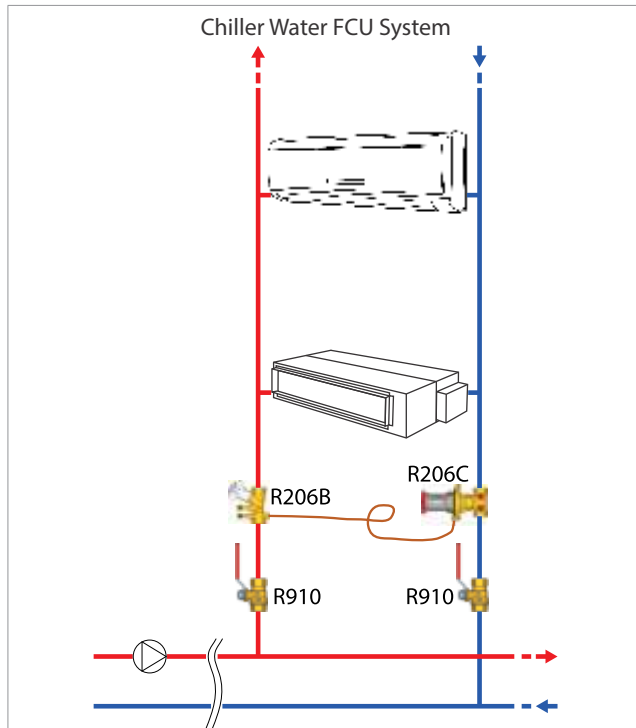


Legend

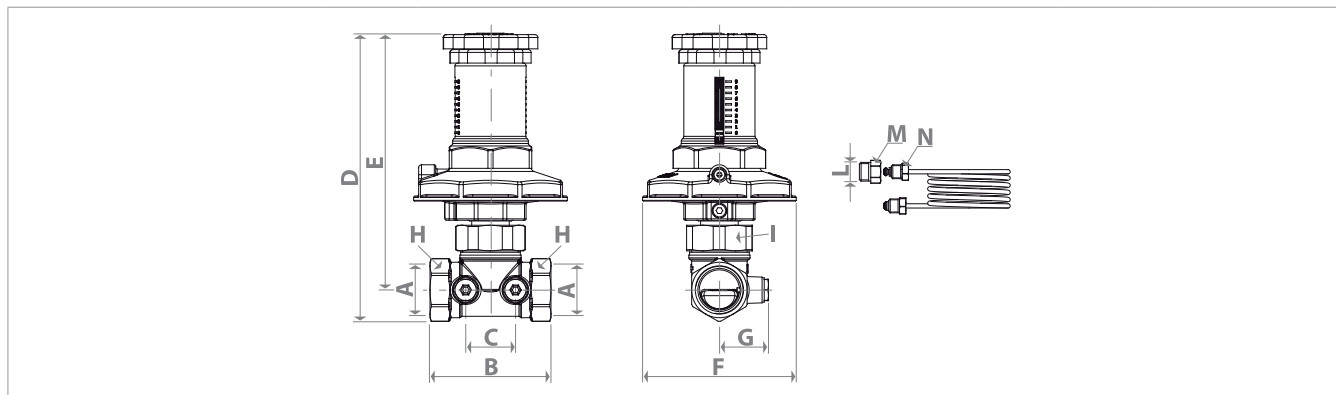
1	Adjustment knob
2	Knob-removing ring nut
3	Indicator ring with graded scale
4	Connection to capillary pipe
5	Air-purging screw
6	Pressure outlets

* For more details please visit www.giacomini.in

Application diagrams



Dimensions



Product codes	DN	A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L	M [mm]	N [mm]	Kv
R206CY103	15	1/2"F	65	26	185	170	108	30	hex.26	hex.37	1/4"F	hex.14	hex.11	2,24
R206CY104	20	3/4"F	75	26	188	170	108	30	hex.32	hex.37	1/4"F	hex.14	hex.11	3,49
R206CY105	25	1"F	85	35	202	181	108	34,5	hex.39	hex.46	1/4"F	hex.14	hex.11	5,92
R206CY106	32	1 1/4"F	95	35	208	181	108	37,5	hex.48	hex.46	1/4"F	hex.14	hex.11	6,95
R206CY107	40	1 1/2"F	100	42	220	192	108	41,5	oct.54	oct.64	1/4"F	hex.14	hex.11	11,72
R206CY108	50	2"F	130	46	227	192	108	47,5	oct.67	oct.64	1/4"F	hex.14	hex.11	12,97

R401TG & R402TG ANGLE VALVE & STRAIGHT FCU VALVE



R401TG

R402TG



Description

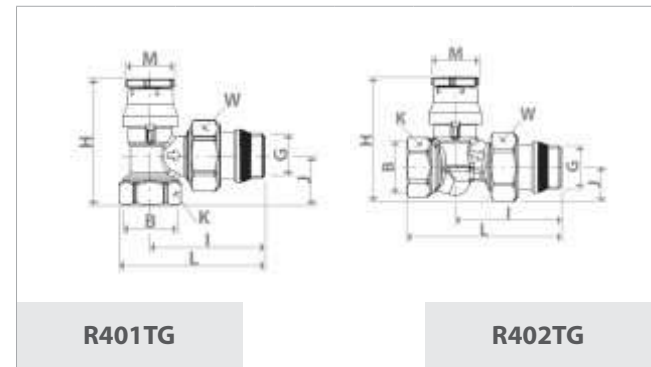
Brass 2 way valve chrome plated with female - tail piece male connector with linear movement for FCU application

Field application
Max working pressure : 16Bar
Temp : 110°C

Technical data

- Suitable for FCU application
- Connector : F(ISO228) X tail piece M(ISO228)
- Chrome plate brass valve
- Linear movement

Dimensions



R401TG

R402TG

R401TG

Size	H	I	J	K	L	M	W	Kv
3/8"x3/8" ^{**}	55	51	20	22	64	23	27	1,26
1/2"x1/2" ^{**}	59	53	23	26	68	23	30	1,26
3/4"x3/4" [*]	60	60	25	32	78	23	38	1,41
1"x1" [*]	78	72	31	39	94	23	46	2,95

R402TG

Size	H	I	J	K	L	M	W	Kv
3/8"x3/8" ^{**}	58	54	15	22	76	23	27	1,26
1/2"x1/2" ^{**}	60	55	17	26	82	23	30	1,26
3/4"x3/4" [*]	64	55	21	32	81	23	38	1,41
1"x1" [*]	76	64	26	39	105	23	46	2,95

*T ail piece without self-sealing

Approvals



* For more details please visit www.giacomini.in

R473 ON /OFF ACTUATOR FOR FCU VALVE

R401TG & R402TG



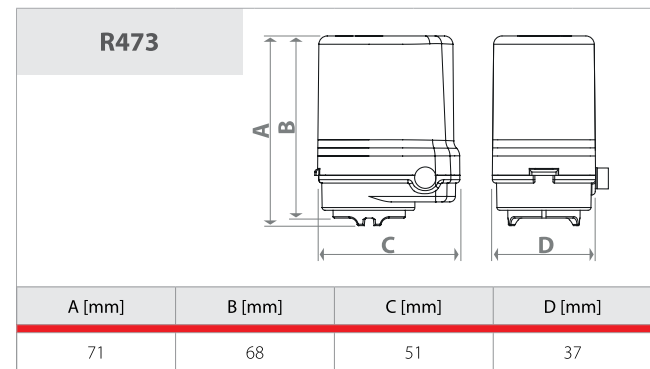
Description

Actuators installed on fan coil units enable to adequately control the ambient temperature by combining energy saving to high levels of comfort. The R473 thermo-electric actuators feature absolute operational quietness, a long life as they have no mechanical parts subject to wear and tear and a proper slowed-down closing system to prevent water hammer effects. The activation mechanism includes wax bulbs controlled by low-consumption electrical PTCs.

Technical data

- Complies with EMC and B.T. directive provisions.
- Status without voltage: normally closed (N.C.)
- Rapid connection for Giacomini standard valves and/or manifolds
- Position mechanic indicator
- Linear movement
- Actuator useful stroke: 2,4 mm
- Pollution class: II
- Nominal pulse voltage: 4 kV
- Protection class: IP40
- Protection against direct contacts through double insulation (Class II)
- Power wire: H03 VV-F; useful length 1 m
- Opening and closing time at 20 °C: ~ 6 mins.
- Room temperature of use: -5÷50 °C
- Storage room temperature: -20÷65 °C
- Max. temperature for device installation surface: 90 °C
- PBT self-extinguishing case material V0-UL94
- Absorbed power : 2.5W
- Voltage : 230V, 50Hz / 24V, 50Hz
- 2 Conductor wire, length 1m

Dimensions



Main characteristics

- **R473** thermo-electric actuators are equipped with a 2-conductors wire to connect them to ambient thermostats or control units.

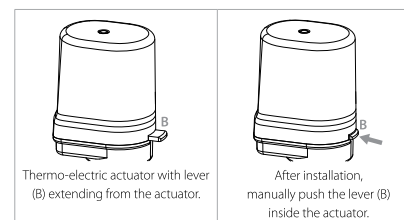
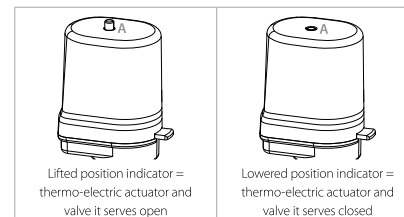
Position mechanical indicator

R473 and R473M thermo-electric actuators include a position mechanical indicator (A) on the top which enables to visually identify the current position of the actuator and the valve it serves.

The actuator opens the valve when electrically powered.

The position indicator (A) is lifted up when the valve is open.

The position indicator is particularly useful during testing to perform operation verifications without activating the system or disassembling the actuator.



Manual locking lever

For an easier installation on valves R473 thermo-electric actuators feature a red manual locking lever.



Warning.
Once the actuators are installed on the valves the manual locking lever must be pushed in.

A61 TEST & DRAIN VALVE FOR WATER APPLICATION



Description

A61 Giacomini Test and Drain valve for sprinkler systems combines the functions of test and drain for wet sprinkler systems.

A61 valves have forged brass body with chrome plate brass ball valve and PTFE seats. The valves complies with the requirements of NFPA-13, NFPA-13R and NFPA-13D. The A61 valves are single handle ball valves with three working positions. They include tamper resistant test orifice and sight glass for the visual control.

Technical data

- Rated pressure: 300 psi

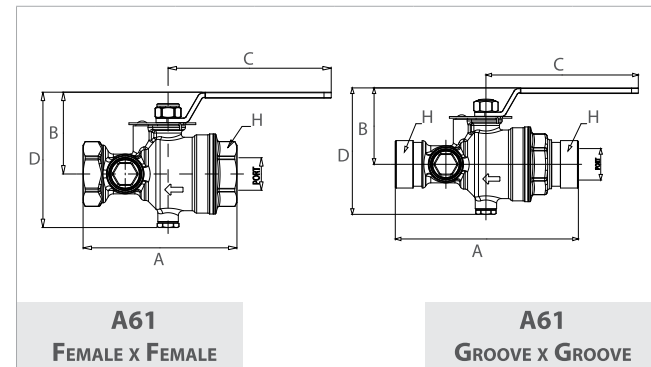
Materials

- Forged brass body
- Chrome plated ball
- Steel handle
- Valve seat in PTFE
- Indication disk in brass
- Sight glasses in polycarbonate

Approvals



Dimensions



A61 - FEMALE NPT x FEMALE NPT

Size	C (plug)	PORT	A	B	C	D	H
1"	1/4"	1 1/16"	5 1/32"	2 43/64"	5 11/32"	4 27/64"	1 57/64"
1 1/4"	1/4"	1 1/16"	5 1/32"	2 43/64"	5 11/32"	4 27/64"	1 57/64"
2"	1/4"	1 12/16"	6 6/32"	4"	6 26/32"	6 21/64"	2 40/64"

A61 - GROOVE x GROOVE

Size	C (plug)	PORT	A	B	C	D	H
1 1/4"	1/4"	1 1/16"	6 13/32"	2 43/64"	5 11/32"	4 27/64"	1 1/4" GROOVE
2"	1/4"	1 12/16"	7 17/32"	4"	6 26/32"	6 21/64"	2" GROOVE

Product specifications

A61

Test and drain valve for sprinkler systems combines the functions of test and drain for wet sprinkler systems. complies with the requirements of NFPA-13, NFPA-13R and NFPA-13D and is FM approved and UL listed.

Main feature as following:

- NPT threads 1" - 1 1/4" - 2"
- Groove connectins 1 1/4" - 2"
- Forged brass body
- Chrome plate brass ball valve
- PTFE seats.
- Single handle ball valves with three working positions
- Tamper resistant test orifice and sight glass included

A55 & A56 ANGLE HOSE VALVE FOR WATER APPLICATION



Description

Forged brass hose valve, angle pattern for the control of the flow of water from a pipe out to the valve and usually along a standpipe riser. Turning the handle of the hose valve allows the water to flow out from the valve, or shuts it off to prevent any more water from running out.

It is used with a Fire Hose Rack Assembly, or as a Fire Department outlet connection.

Female NPT inlet and Female NPT outlet (A55) or male hose thread outlet (A56). 300 lbs rated. With red handwheel.

Technical data

- Rated pressure: 300 PSI (20,6 bar)

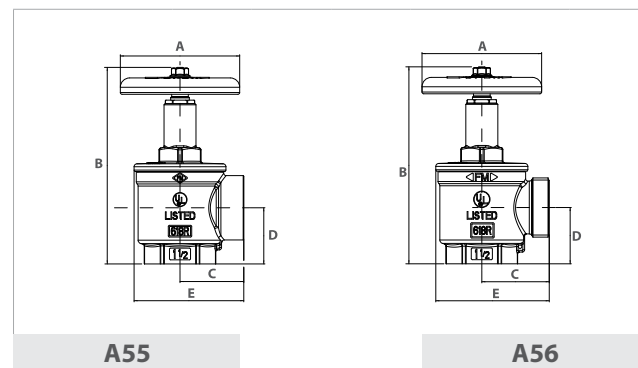
Materials

- Body: forged brass CuZn40Pb2 in accordance with European Standard EN 12165 CW617N, similar to American Standard ASTM B124 C37700
- Yield stress of the material in the shape of bar: 360 MPa
- Stress for permanent distortion R(0.2): 138 MPa
- Elongation: 10 %
- Shutter: forged brass CuZn40Pb2 in accordance with European Standard EN 12165 CW617N, similar to American Standard ASTM B124 C37700
- Stem: brass EN 12164 CW614N similar to American Standard ASTM B124 C37700
- Handwheel: red painted aluminum- Rated pressure 300 psi

Approvals:



Dimensions



A55

Size	A	B	C	D	E
1 1/2" x 1 1/2"	4 1/32"	7 19/32"	2 5/32"	1 7/8"	3 11/16"
2 1/2" x 2 1/2"	5 1/8"	10 19/32"	3 5/32"	2 5/8"	5 11/32"

A56

Size	A	B	C	D	E
1 1/2" x 1 1/2"	4 1/32"	7 19/32"	2 1/4"	1 7/8"	3 13/16"
2 1/2" x 2 1/2"	5 1/8"	10 19/32"	3 3/16"	2 5/8"	5 3/8"

Product specifications

A55 1 1/2"/2 1/2"

Angle hose valve, used with fire hose rack assembling or as Fire Department outlet connection with main feature as following:

- Forged brass body
- Forged brass shutter
- 1 1/2" female NPT inlet / - 2 1/2" female NPT inlet
- 1 1/2" female NPT outlet / - 2 1/2" female NPT outlet
- Aluminum red painted hand wheel
- Rated pressure 300 psi
- FM approved and UL-ULC listed

A56 1 1/2"/2 1/2"

Angle hose valve, used with fire hose rack assembling or as Fire Department outlet connection with main feature as following:

- Forged brass body
- Forged brass shutter
- 1 1/2" female NPT inlet / - 2 1/2" female NPT inlet
- 1 1/2" male hose thread outlet / - 2 1/2" male hose thread outlet
- Aluminum red painted hand wheel
- Rated pressure 300 psi
- FM approved and UL-ULC listed

* For more details please visit www.giacomini.in

A155 & A156 PRESSURE RESTRICTING ANGLE VALVES FOR WATER APPLICATION



Description

The valves are capable of adjustment to provide a range of the outlet pressures under flowing condition only.

For Hose Connections to be used on fire protection standpipe system with maximum working pressure up to 300 PSI.

Technical data

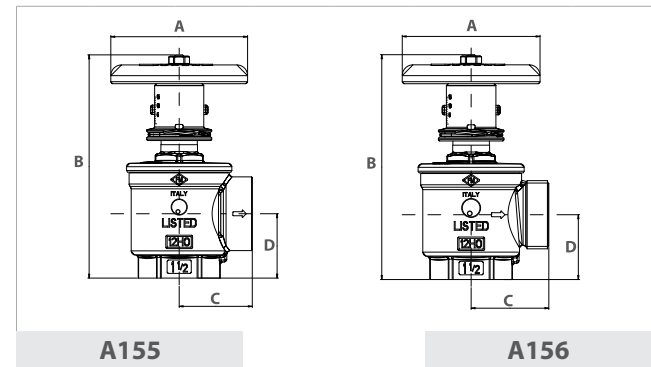
Materials

- Body: forged brass CuZn40Pb2 in accordance with European Standard EN 12165 CW617N, similar to American Standard ASTM B124 C37700
- Yield stress of the material in the shape of bar: 360 MPa
- Stress for permanent distortion R(0.2): 138 MPa
- Elongation: 10 %
- Bonnet: forged brass CuZn40Pb2 in accordance with European Standard EN 12165 CW617N, similar to American Standard ASTM B124 C37700
- Stem: brass EN 12164 CW614N similar to American Standard ASTM B124 C37700
- Handwheel: red painted aluminum

Approvals



Dimensions



A155

Size	A	B	C	D
1 1/2"	4 1/32"	7 19/32"	2 5/32"	1 7/8"
2 1/2"	5 1/8"	10 19/32"	3 5/16"	2 5/8"

A156

Size	A	B	C	D
1 1/2"	4 1/32"	7 19/32"	2 1/4"	1 7/8"
2 1/2"	5 1/8"	10 19/32"	3"	2 5/8"

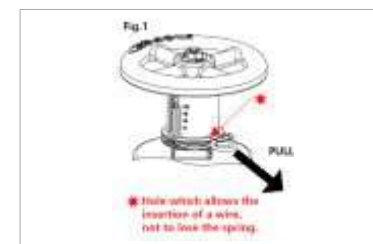
Product specifications

A155 1 1/2" / 2 1/2"

Angle pressure restricting valves for water pressure control by adjustable flow restriction; forged brass body with 1 1/2" / 2 1/2" female-female NPT threads and red painted aluminium, handwheel. Rated pressure 300PSI. Complete with spring clip to override the setting when full flow is required.

A156 1 1/2" / 2 1/2"

Angle pressure restricting valves for water pressure control by adjustable flow restriction; forged brass body with 1 1/2" / 2 1/2" female NPT threads and red painted aluminium, handwheel. Rated pressure 300PSI. Complete with spring clip to override the setting when full flow is required.



* For more details please visit www.giacomini.in

R156 & R156-1 THERMOSTATIC MIXING VALVE FOR HOT WATER APPLICATION



Description

The thermostatic mixing valve is installed on R156 or R156-1 domestic sanitary installations in order to achieve energy saving, greater comfort of use of hot water, elimination of the risk of burns caused by excessive operating temperatures.

It can be positioned in the boiler room on the rising pipes of sanitary hot water, nearby boiler or storage boilers, or in the distribution boxes in case of removable sanitary systems with manifolds. It is very important to install the mixing valve on the downstream to storage tanks in solar heating systems installations where the temperature of the storage tanks, especially in summer, could reach very high values, well above the temperatures to ordinary use. The wax bulb, immersed in the mixed flow, assisted by a balanced spring system, can ensure the maintenance of the required mixed temperature value, with rapid shifts of few millimeter tenths effected depending on the temperature change of the hot and cold supply waters.

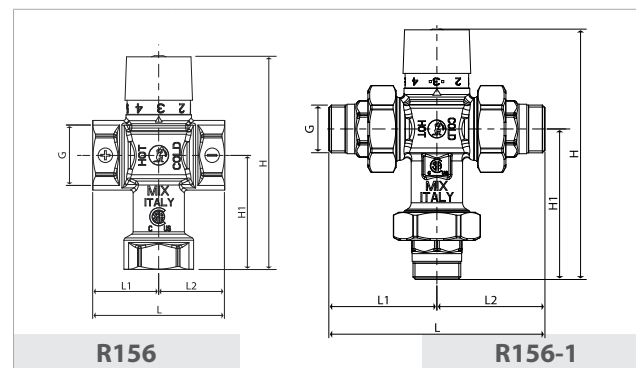
Technical data

- Max. working temperature: 100 °C
- Max. working pressure: 16 bar
- Temperature regulation range: 38÷60 °C
- Adjustment scale subdivision: 1 °C
- Adjustment accuracy: ±1 °C
- Thermostatic wax bulb
- Handle with mechanical position stop
- Complies with A.S.S.E.1017

Materials

- Forged brass body, chromed
- Stainless steel inner springs
- O-rings in Ethylene Propylene
- High resistance plastic handle

Dimensions



Product code	G	H [mm]	H1 [mm]	L [mm]	L1 [mm]	L2 [mm]	Kv
R156X004	3/4" F	118	63	73	36,5	36,5	2
R156X005	1" F	118	63	73	36,5	36,5	2,2
R156X024	3/4" M	138	83	120	60	60	1,8
R156X025	1" M	143	88	128	64	64	2

Regulation

The R156/R156-1 thermostatic mixing valve with five setting positions allow to set the mixed temperature in the range of 38÷60°C.

As stated in the table, each value of the numbering corresponds to a reference temperature. For intermediate positions to the numbering values, you have mixing temperatures differentiated of about 1°C.

The setting adjustment of the mixing valve is carried out by lifting the handle and turning it until it reaches the desired numbering and then repositioning it in the grooves present at the top of the body.

Position	Mixing temperature
1	38 °C
2	43,5 °C
3	49 °C
4	54,5 °C
5	60 °C

* For more details please visit www.giacomini.in

R153C PISTON PRESSURE REDUCERS FOR WATER APPLICATION



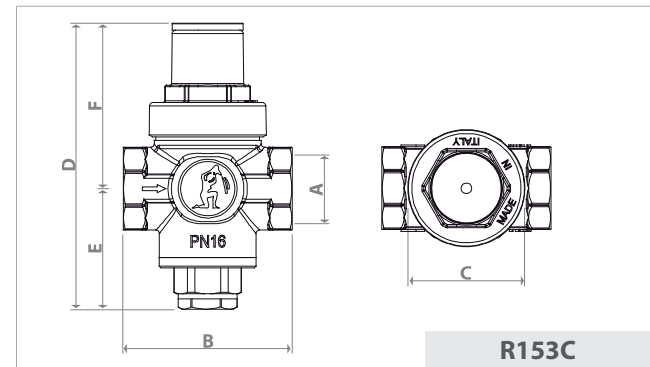
R153C



Description

The R153C model pressure reducing valve is an automatic valve that reduces and stabilizes the pressure of a fluid in a water distribution conduit according to a preset value. Its reduced size, silent operation and internal self-cleaning seat render this valve ideal for use in small systems such as apartments and single-family households (according to EN 806-2 and EN 805) or as a safety device in boilers or automatic beverage distributors. The nickel-plated surface, besides giving it a pleasing appearance, protects against corrosion and calcareous incrustation. The valve is capable of an elevated flow capacity even with its reduced dimensions, so it can be used directly on main distribution networks, where the water pressure reaches up to 16 bar. The internal piston structure guarantees rigidity, strength and an enhanced regulation precision thanks to the compensated seat. The o-rings, in EPDM peroxide elastomer with a low friction coefficient, are durable and require only limited maintenance interventions. The internal finish of the body and the broader dimensions of the passage allow an elevated flow even with a small water draw. This product adheres to the standards set forth by the European health authorities for the transport of alimentary fluids and potable water.

Dimensions



R153C

Product code	Connections A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
R153CX003	1/2"	49	34	83	35	48
R153CX004	3/4"	50	34	88	36,5	51,5

Technical data

- Max. working pressure (PN): 16 bar
- Outlet pressure regulation range: from 1 to 5,5 bar
- Outlet pressure factory set: 3 bar
- Working temperature range: 0 °C (no freezing) to 130 °C
- Compatible fluids: water, glycol solutions (with 50% max. concentration of glycol), compressed air
- Compliant with Standard EN 1567
- Sound class I - Lap [dB (A)] < 20

Materials

- Body: CW617N (UNI EN 12165) nickel plated brass
- Piston: technopolymer reinforced with glass fibre
- Gaskets: EPDM peroxide
- Spring: EN10270-1 SM zinc plated steel

Product specifications

R153C

Piston pressure reducer with compensated seat compliant to standard EN 1567. Female-Female 1/2" and 3/4" threaded connections (ISO 228/1). Manometer connection Rp 1/4" (ISO 7/1). Body in nickel-plated brass, technopolymer piston, EPDM gaskets. Compatible fluids: water, glycol solutions (with 50 % max. concentration of glycol), compressed air. Max. working temperature 130 °C. Max. working pressure 16 bar. Outlet pressure regulation range from 1 to 5,5 bar:

* For more details please visit www.giacomini.in

R153P PISTON PRESSURE REDUCERS FOR WATER APPLICATION



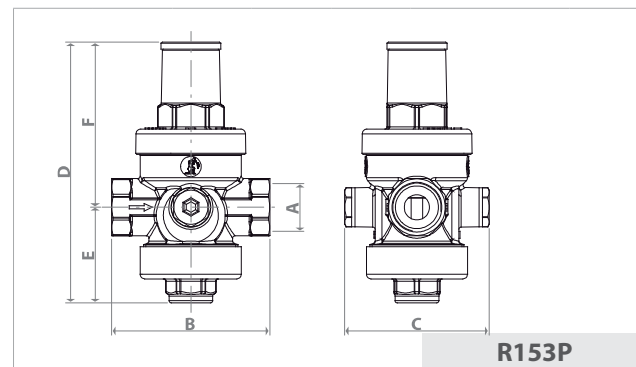
R153P



Description

The piston-type pressure reducing valve R153P is an automatic valve that reduces and stabilizes the pressure of a fluid in a water distribution conduit according to a preset value. The use of this hydraulic device is necessary if the maximum possible pressure at any point in the water distribution system can reach or exceed the relative maximum allowable working pressure, or if connectable to apparatus and equipment that function exclusively at lower levels of pressure. The piston-type pressure reducing valve is designed for use in either internal or external water distribution systems, where the water main pressure values do not surpass 25 bar. The thermoplastic material of the internal piston structure guarantees rigidity, strength and an enhanced regulation precision thanks to the compensated seat. The O-rings, in EPDM peroxide elastomer with a low coefficient of friction, are durable and require only limited maintenance interventions. The internal finish of the body and the broader dimensions of the passage allow an elevated flow even with a minimal water draw. The R153P piston-type pressure reducing valve (PN 25) is used in air conditioning plants, sanitary installations for water supply, irrigation systems, compressed air (not oil mist) distribution systems, fire suppression piping (it should be borne in mind that local government standards for fire protection must always be observed), and sanitary installations for water supply in buildings (according to EN 806-2 and EN 805). This product adheres to the standards set forth by the European health authorities for the transport of alimentary fluids and potable water.

Dimensions



R153P

Product code	Connections A	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
R153PX003	1/2"	69	63	113,8	41,8	72
R153PX004	3/4"	82	63	113,8	41,8	72
R153PX005	1"	96	73	145,5	52,5	93
R153PX006	1 1/4"	100	73	151,5	56,5	95
R153PX007	1 1/2"	91	77	148	48	100
R153PX008	2"	97	81	150	48	102

Technical data

- Max. working pressure (PN): 25 bar
- Outlet pressure regulation range: from 1 to 5,5 bar
- Outlet pressure factory set: 3 bar
- Working temperature range: 0 °C (no freezing) to 130 °C
- Compatible fluids: water, glycol solutions (with 50 % max. concentration of glycol), compressed air (except 2")
- Compliant with Standard EN 1567
- Sound class II - Lap [dB (A)] < 30
- Female-Female 1/2" ÷ 2" threaded connection (ISO 228/1)

Materials

- Body: CW617N (UNI EN 12165) nickel plated brass
- Piston: technopolymer reinforced with glass fibre
- Gaskets: EPDM peroxide
- Seat: EN 10088 - 1.4305 stainless steel (AISI 303)
- Spring: EN10270-1 SM zinc plated steel

* For more details please visit www.giacomini.in