HOME CREATOR

HOME CREATOR GROUP LTD
Tel: +44-1263805363
Web: www.homecreatorgroup.com
Add: 167-169 GREAT PORTLAND STREET , LONDON ,
UNITED KINGDOM W1W 5PF











WARM HOME
GREEN AND
HEALTHY HOME

CATALOGUE

HOME CREATOR

VISION

Green and Healthy Home

MISSION

Build High-quality Valve and Enhance Customer Satisfaction

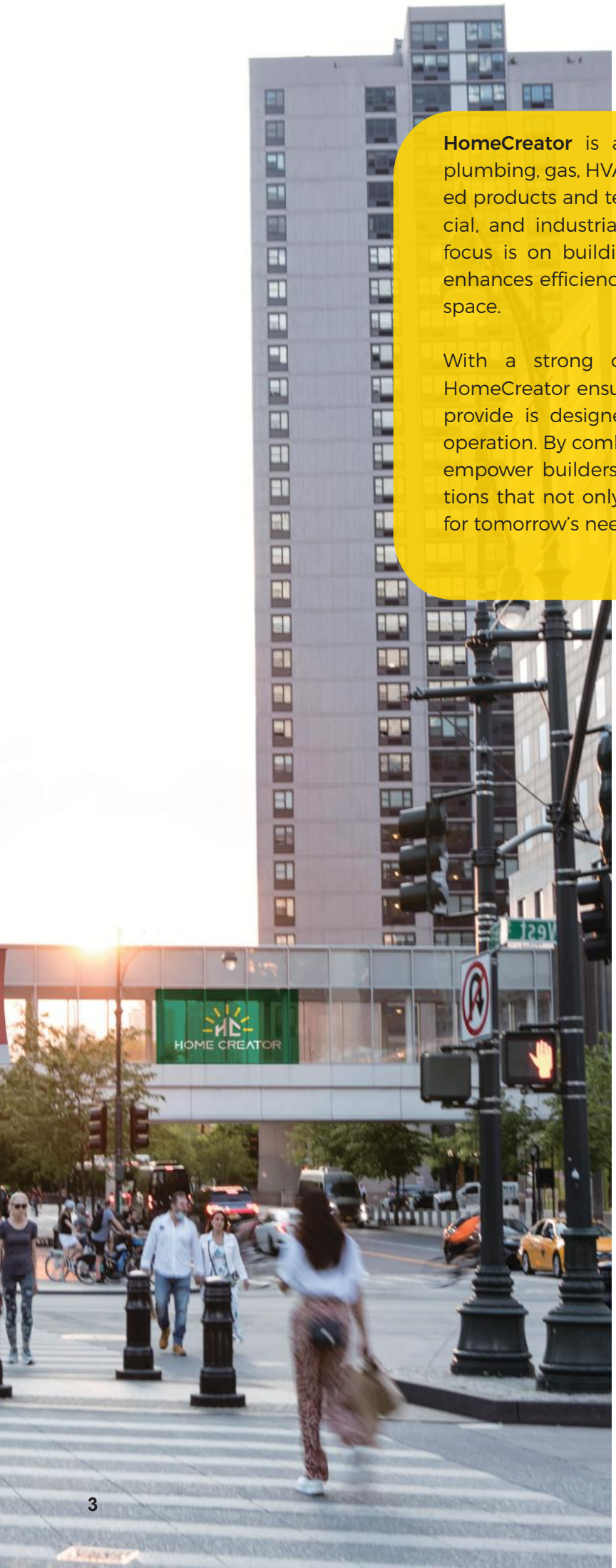
SIX VALUES

- Integrity
- Manner
- Innovation
- Pragmatist
- Value
- Gratitude



Home Creator Provide Customers All Over the World with Smart Fluid Solutions





COMPANY PROFLILE

HomeCreator is a solutions-focused brand specializing in plumbing, gas, HVAC and smart flow systems. We deliver trusted products and technologies that serve residential, commercial, and industrial projects with unmatched reliability. Our focus is on building performance-driven infrastructure that enhances efficiency, safety, and convenience for every type of space.

With a strong commitment to engineering excellence, HomeCreator ensures that every fitting, valve, and system we provide is designed for long-term durability and seamless operation. By combining innovation with proven expertise, we empower builders, contractors, and homeowners with solutions that not only solve today's challenges but also prepare for tomorrow's needs.

COMMITTED TO QUALITY

At HomeCreator, quality is the foundation of everything we do. From selecting premium materials to precision manufacturing, our products are built for safety, reliability, and long-term performance. With strict quality control and ongoing innovation, we ensure our plumbing, gas, HVAC and flow systems exceed industry standards delivering peace of mind and lasting value to every project.

TRUSTED BY STANDARDS

HomeCreator has earned the trust of leading clients and partner brands by consistently delivering products that meet and exceed international benchmarks. Certified and approved with UK and Gulf standards — including WRAS —

our solutions are recognized for their reliability, safety, and performance. This commitment to compliance and excellence ensures that every fitting, valve, and system we provide is not only trusted in homes and projects worldwide but also backed by certifications that guarantee lasting confidence.

nvention
Innovation

At HomeCreator, innovation isn't just a concept-From smarter plumbing and gas systems, our team develops solutions that improve performance, safety, and efficiency. Every product is designed with real-world challenges in mind, simplifying installation, reducing maintenance, and ensuring longevity.

SMART DESIGN
Optimized system layouts for space-saving and efficiency

R&D DRIVEN
Continuous product improvement through testing and feedback

EASY
INSTALLATION
Modular and installer-friendly system designs

TECH
INTEGRATION
Flow systems built to support modern tech & automation

One solutions-focused brand specializing in plumbing, gas fitting, and smart flow systems.





MANUFACTURING



Unmanned machining line, AGV car, conveyor line and other intelligent logistics equipment, and use MES, APS, IOT, ERP and other advanced digital management technology, equipment, facilities, orders, production and other systems of linkage, provide large-scale data analysis and decision support, achieve the goal of continuously improve operational efficiency and product quality.

Our valves manufacturing lines utilize advanced automation technologies to ensure consistent production quality and high-volume efficiency. From precision machining to robotic assembly & automated testing, each stage is carefully controlled to avoid error, improve repeatability, and meet the highest industry standards.



CERTIFIED RAW MATERIALS

All raw material are in accordance with EN10204, EN12420, SAE J463 standards. We handle the highest quality brass, low lead alloys, dezincification resistant alloys, steel and composite materials and innovative materials in-house.



25%
RAW MATERIALS
LEAD FREE

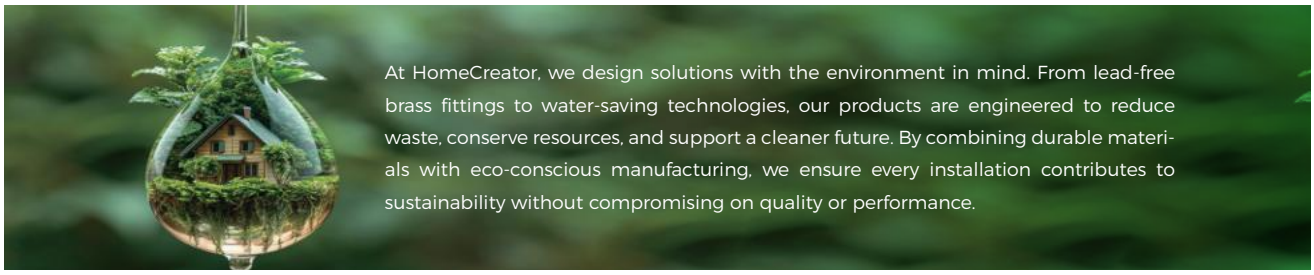
75%
RAW MATERIALS
EUROPE
STANDARD

All spare parts undergo a 100% quality inspection to ensure error-free performance throughout every production stage. This rigorous process guarantees that every component is manufactured to the highest quality standards, maintaining consistency, reliability, and production efficiency.



CERTIFICATIONS THAT BUILD TRUST

Discover quality and compliance with our globally recognized certifications. From product safety to environmental responsibility, each certification reflects our dedication to bringing the best to Gulf markets.

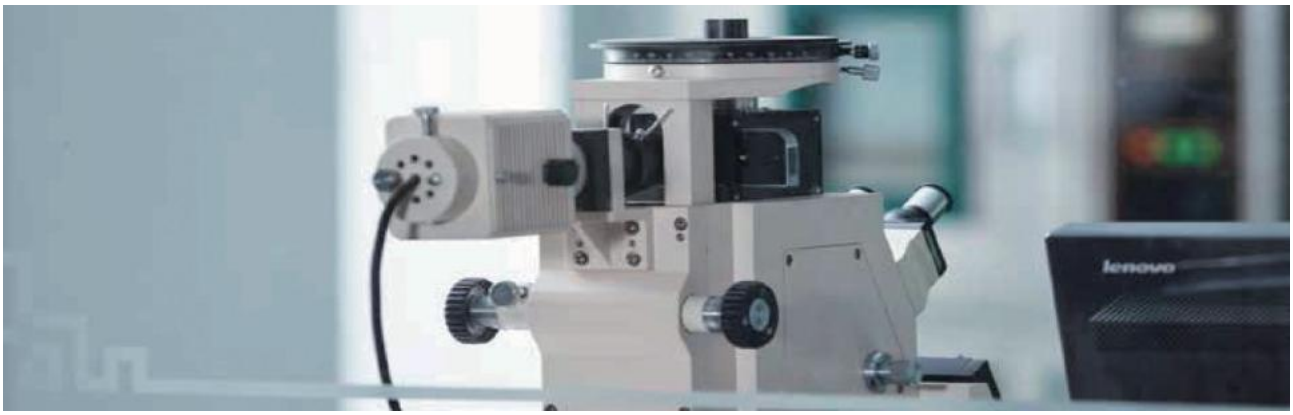


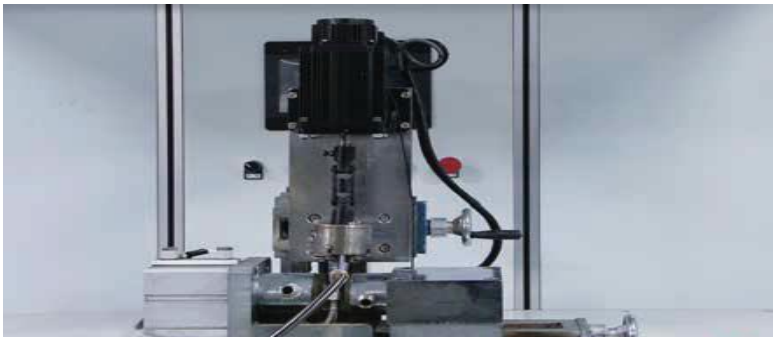
With our heating and plumbing solutions, we have been redesigning the comfort of the spaces we live and work in for over 40 years. This is thanks to the flow of expertise, technology, experience and innovations that we have acquired over the years by constantly exchanging ideas with our customers and suppliers. A flow that pushes boundaries, allowing us to constantly set the benchmark. A flow that allows us to always look one step ahead into the future.



WHOLE COMPOSITION

- **Headquarter :** UK
- **Manufacturing :** China , Malaysia , Japan
- **Distribution Center :**UK , Brazil , Dubai
- **Sales Office :** UK , Brazil , Poland , Dubai , Saudi Arabia ,

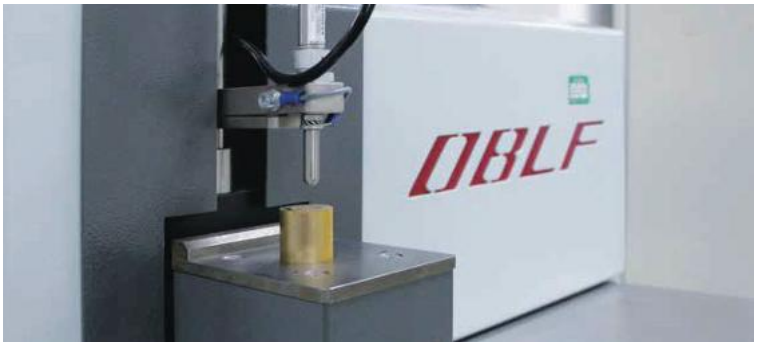

lenovo










OBLF





LAB

1000+

Covers an area of
1,000 square meters

80+

More than
80 equipment

100+

Including over
100 testing items

The lab is a comprehensive functional unit including testing, measurement, simulation and display with 15 functional subareas.
The testing center covers an area of 1,000 square meters, with more than 80 equipment, including over 100 testing items, involving materials analysis, geometric measurement, aging reliability, mechanical properties,physical/chemical analysis, fluid mechanics, metrology, calibration and other fields,achieving
"One Report, Global Access".
As the company's internal laboratory, the testing center provides services for valve product quality assessment and internal quality analysis, and provides a large amount of testing data for new products, customer complaint defective product analysis, and product process control. This medium-large-sized testing center with advanced level is also the company's external display window.

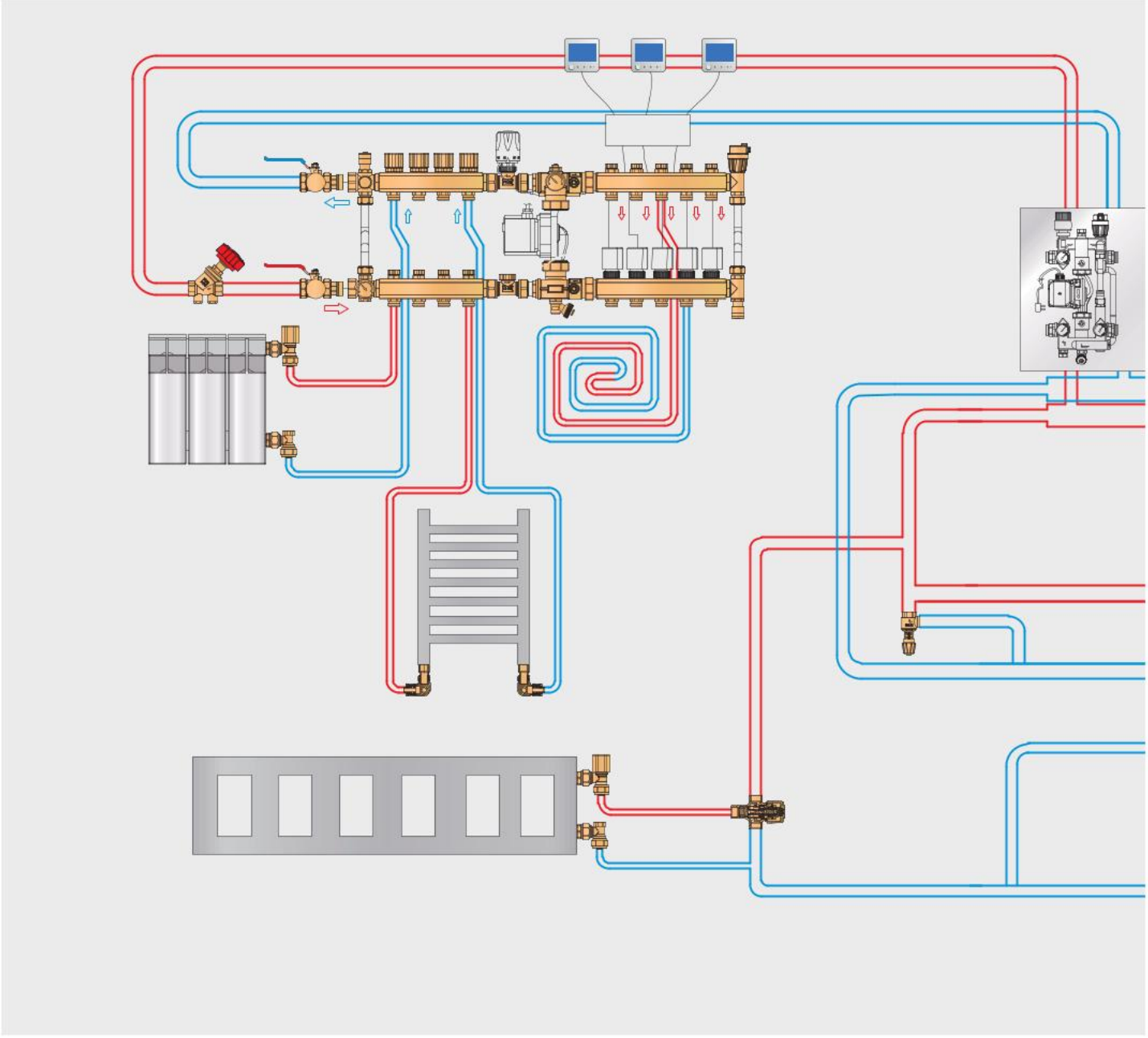


Performance

*Using the ground source heat pump as a heat source in winter,take gd use of the heating of underground water and heat pump host,through the hydraulic balance module,hierachical, partial pressure to distribute the different temperature and flow demand ,reasonably and evenly deliver the heat to heating facilities in each floor and room ,like heat sink ,towel rack ,floor heating ,domostic hot water.

*Better in sustainability of energy ,carbon-free environment protection and 20% in energy-saving, greatly improve the efficiency of energy management. Thereby enhancing the level of green energy-saving, is the new star among the green energy-saving products.

Application Diagram



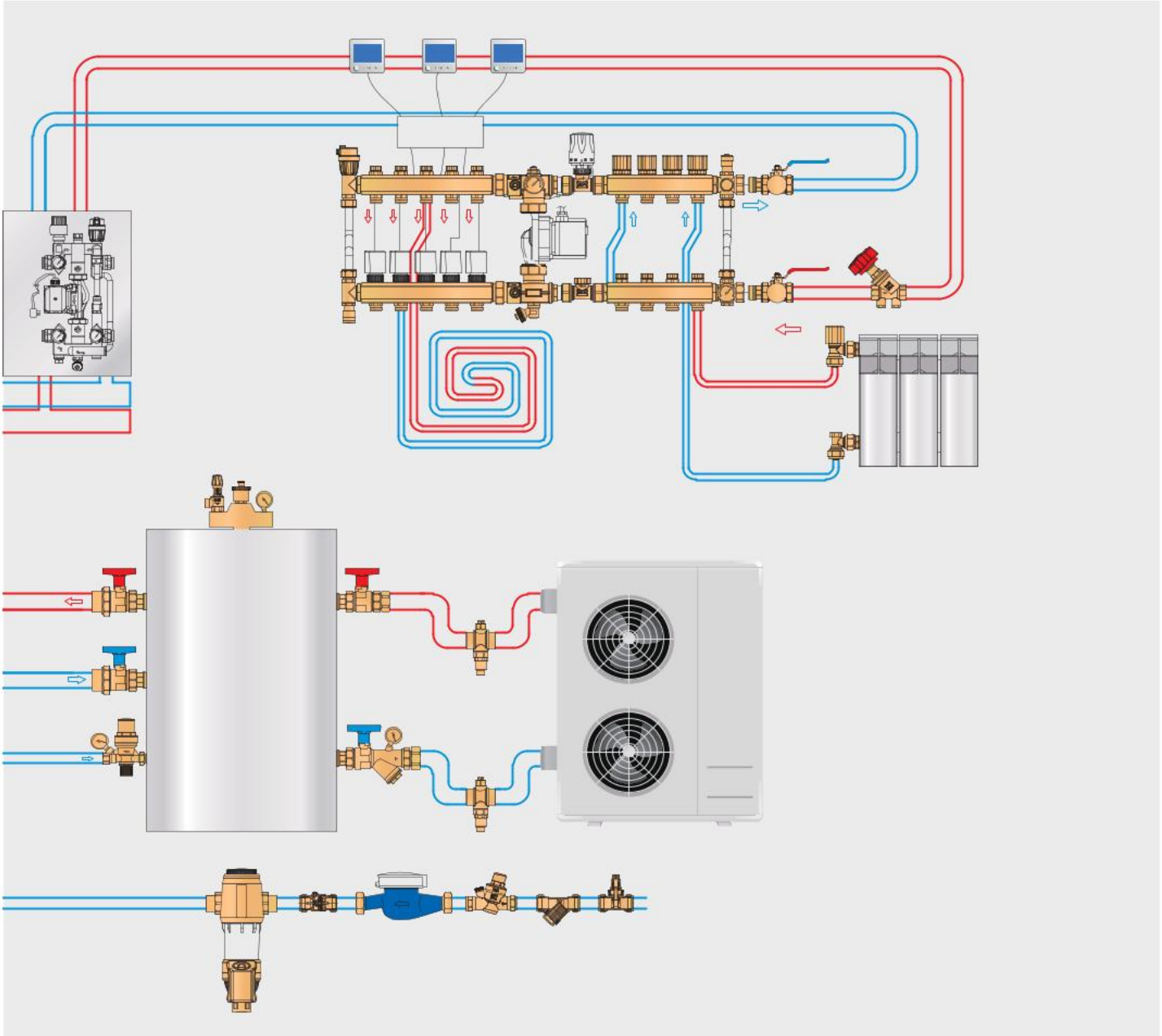
Technical characteristics

Manifolds

Material: SS /Brass
Operating pressure: ≤16 bar
Temperature range: ≤90°C
Actutor connection thread: M30x1.5
Diamter of Subordinate tube: 16/20

Pump Station

Material: Brass
Operating pressure: ≤16bar
Working temerpature: ≤110°C
Pump connection thread: Upper G1, Lower G11/2
Nozzle spacing: 125mm
Thermometer range: 0-120 °C
KV: 9.8 m^3/h



Catalogue

Gate valve	13-27
Ball valve	24-43
Butterfly valve	40-48
Check valve	61-64
Y Pattem strainer	65-70
Pressure reducing valve	71-76
Commissioning valve	77-80
Globe valve	81-85
Automatic air vent	71-75
Hose bibs	86-96
Float valve	97-102
Angle valve	103-110
Stop valve	111-115
Manifold	116-120
Thermostatic mixing valve	121-123
Other valve	124-133

gate valve



HC-10772DR & HC-10772IDR

DZR Brass Full Port Gate Valve ***PN16***

Feature & Benefits

- Europe DZR Brass 12165 CW602N Dezincification Resistant Brass
- Non-rising stem design to minimise installation height
- Full bore design to ensure minimal pressure drop
- Adjustable gland packing for ease of maintenance
- Valves are Tested in Accordance with BS EN 12288 PN16 Series B
- CW617N material is available HC - 10772 & HC-10772I



HC-10772IDR **HC-10772DR**

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 24bar
	Seat: 17.6bar

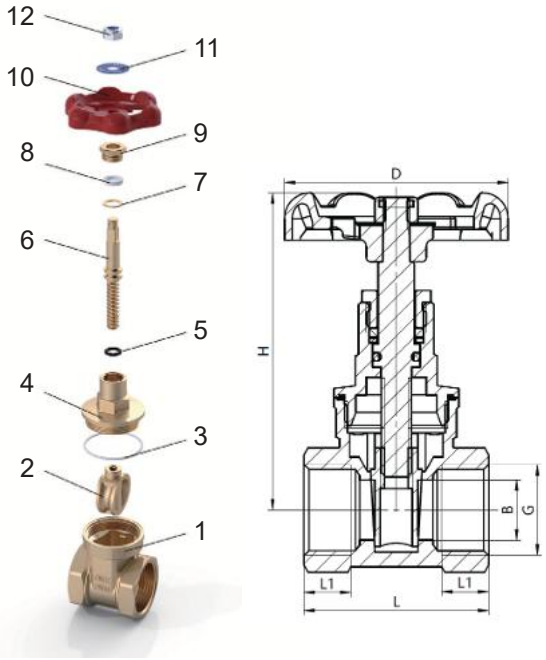
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1) formerly BS 21
- ISO 228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Gate	Brass
3	Washer	PTFE
4	Bonnet	DZR Brass CW602N
5	O-ring	EPDM
6	Stem	Brass
7	Washer	Brass
8	Packing	PTFE
9	Packing nut	Brass
10	Hand wheel	Cast Iron / Alumium
11	Name plate	Alumium
12	Nut	SS 304

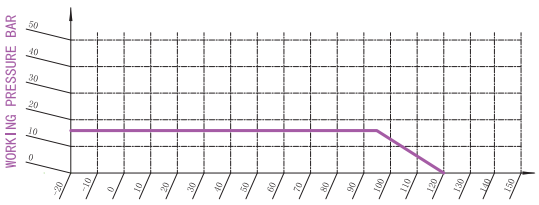
Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	B	D (mm)
1/2"	43	11	74	Φ14	Φ52
3/4"	46	11	82	Φ18	Φ52
1"	53	14	92	Φ23	Φ56
1-1/4"	56	14	103	Φ27	Φ72
1-1/2"	60	15	120	Φ33	Φ72
2"	70	18	139	Φ43	Φ78

Pressure & temperature ratings

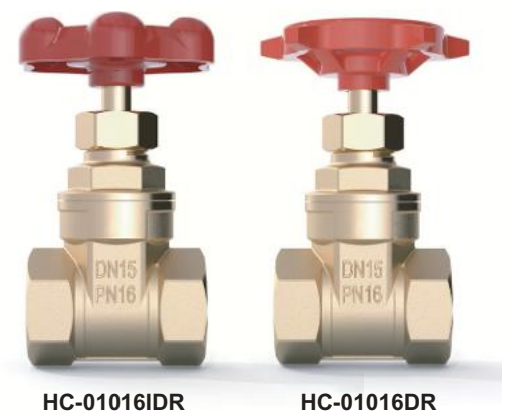


HC-01016DR & HC-01016IDR

DZR Brass Full Port Gate Valve ***PN16***

Feature & Benefits

- Europe DZR Brass 12165 CW602N Dezincification Resistant Brass
- Non-rising stem design to minimise installation height
- Full bore design to ensure minimal pressure drop
- Adjustable gland packing for ease of maintenance
- Valves are Tested in Accordance with BS EN 12288 PN16 Series B
- CW617N material is available HC-01016 & HC-01016I



HC-01016IDR **HC-01016DR**

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 24bar
	Seat: 17.6bar

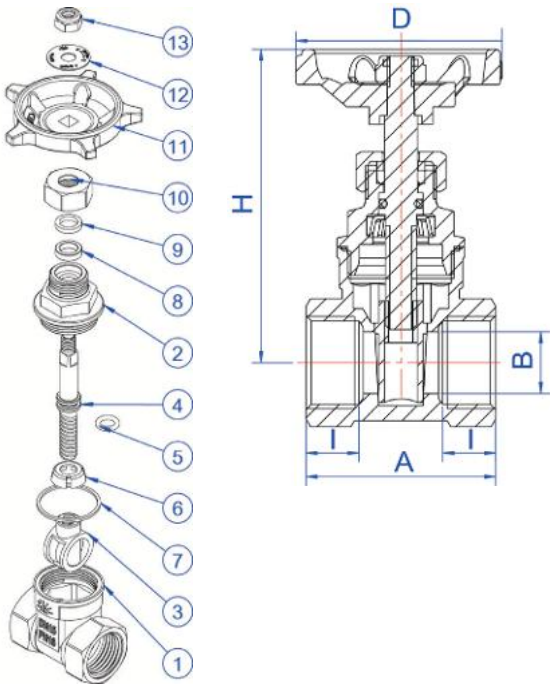
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1) formerly BS 21
- ISO 228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	Brass CW602N
2	Bonnet	Brass CW602N
3	Gate	Brass
4	Stem	Brass
5	O-ring	EPDM
6	Lock Cap	Stainless Steel
7	Washer	PTFE
8	Packing	PTFE
9	Washer	Brass
10	Packing nut	Brass
11	Hand Wheel	Cast Iron / Alumium
12	Name Plate	AL
13	Nut	Stainless Steel

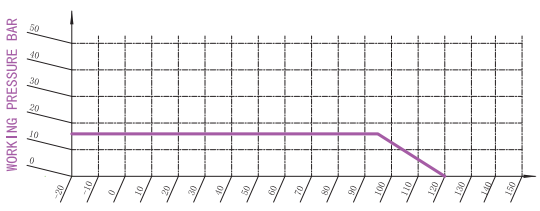
Dimensional Drawing



Dimensions

SIZE (inch)	B (mm)	D (mm)	H (mm)	I (mm)	A (mm)
1/2"	14	61	71	12	43
3/4"	18	61	78	12	46
1"	23	65	89	15	53
1-1/4"	27	82	107	16	56
1-1/2"	33	96	122	16	60
2"	43	104	143	19	70

Pressure & temperature ratings



HC-10502DR & HC-30502DR

Brass Full Port Gate Valve ***PN20***

Feature & Benefits

- WRAS Certified
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Non-rising stem design to minimise installation height
- Full bore design to ensure minimal pressure drop
- Adjustable gland packing for ease of maintenance
- Valves are Tested in Accordance with BS EN 12288 PN20 Series B
- CW617 material is available HC-10502 & HC-30502



HC-10502DR HC-30502DR

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 30 bar
	Seat: 22 bar

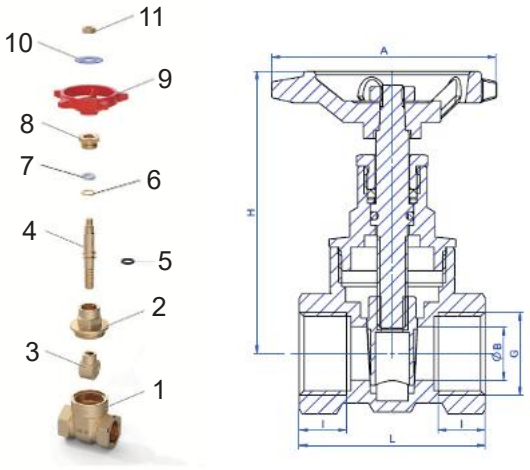
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1) formerly BS 21
- ISO 228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Bonnet	DZR Brass CW602N
3	Gate	Brass
4	Stem	Brass
5	O-ring	EPDM
6	Copper Washer	Brass
7	Washer	PTFE
8	Lock Cap	Brass
9	Hand Wheel	AL
10	Name Plate	AL
11	Nut	Brass

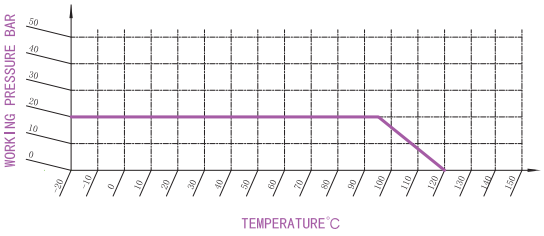
Dimensional Drawing



Dimensions

SIZE (inch)	G (mm)	B (mm)	L (mm)	I (mm)	H (mm)	A (mm)
1/2"	1/2"	14	47	12	72	61
3/4"	3/4"	19	51	15	81	61
1"	1"	23	56	14	96	65
1-1/4"	1-1/4"	32	64	17	120	82
1-1/2"	1-1/2"	39	68	17	135	96
2"	2"	48	78	20	158	104

Pressure & temperature ratings



HC-10872DR & HC-10872IDR

DZR Brass Full Port Gate Valve ***PN25***

Feature & Benefits

- Europe DZR Brass 12165 CW602N Dezincification Resistant Brass
- Non-rising stem design to minimise installation height
- Full bore design to ensure minimal pressure drop
- Adjustable gland packing for ease of maintenance
- Valves are Tested in Accordance with BS EN 12288 PN16 Series B
- CW617N material is available HC - 10872 & HC10872I



HC-10872IDR **HC-10872DR**

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5bar
	Seat: 27.5bar

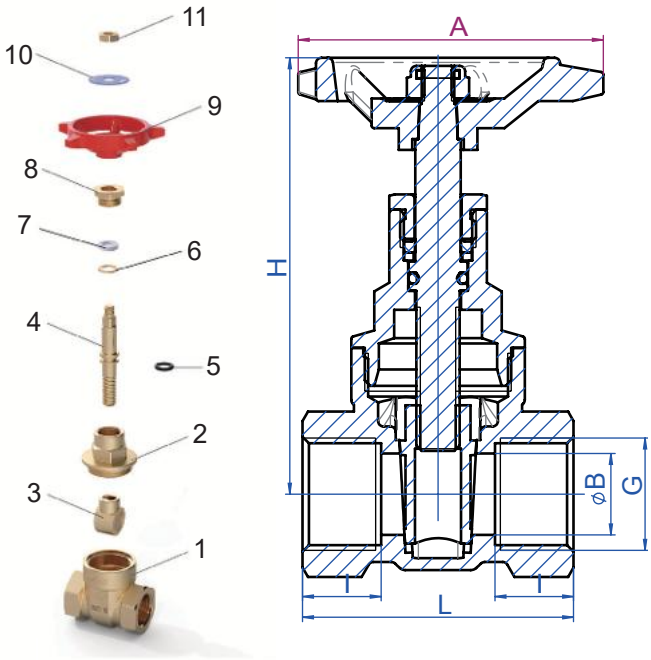
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1) formerly BS 21
- ISO 228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Bonnet	DZR Brass CW602N
3	Gate	Brass
4	Stem	Brass
5	O-ring	EPDM
6	Copper Washer	Brass
7	Washer	PTFE
8	Lock Cap	Brass
9	Hand wheel	AL
10	Name Plate	AL
11	Screw	SS 304

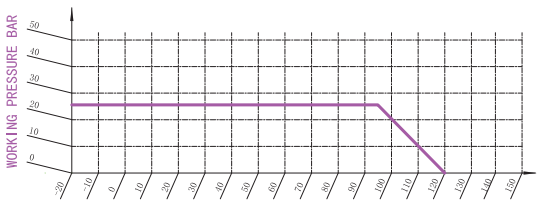
Dimensional Drawing



Dimensions

SIZE (inch)	G	B (mm)	L (mm)	I (mm)	H (mm)	A (mm)
1/2"	1/2"	15	50	15	81	61
3/4"	3/4"	20	54	16	88	61
1"	1"	25	60	18	97	65
1-1/4"	1-1/4"	32	68	20	126	82
1-1/2"	1-1/2"	40	70	20	140	96
2"	2"	50	84	24	162	104

Pressure & temperature ratings



HC-G20132

Compression Gate Valve ***PN16***

Feature & Benefits

- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Non-rising stem design to minimise installation height
- Full bore design to ensure minimal pressure drop
- Adjustable gland packing for ease of maintenance



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 24bar
	Seat: 17.6bar

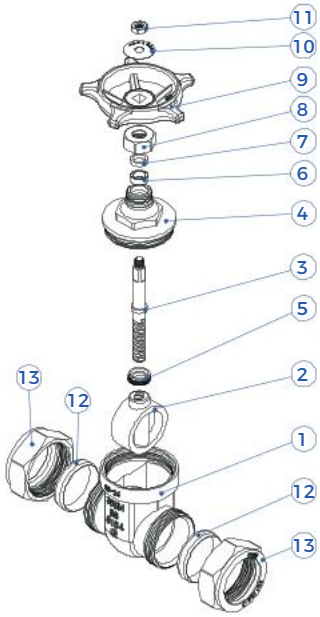
Connection Standard

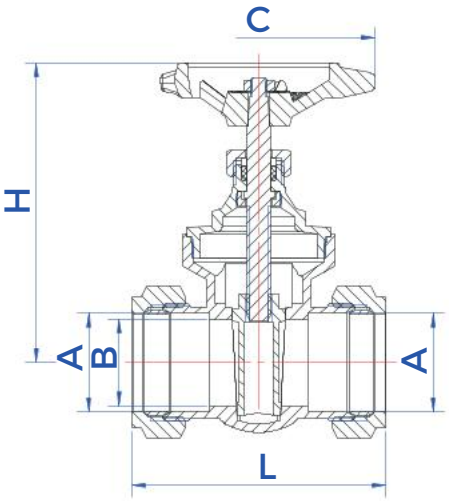
- Compression version supplied with ends complying with BS EN 1254-2
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Gate	Brass
3	Stem	Brass
4	Bonnet	DZR Brass CW602N
5	Nut	Brass
6	Gland	PTFE
7	Brass Gasket	Brass
8	Adjustable Nut	Brass
9	Hand wheel	HT200
10	Name Plate	AL
11	Nut	Q235
12	Ferrule	AL
13	Hexagon Nut	Brass

Dimensional Drawing

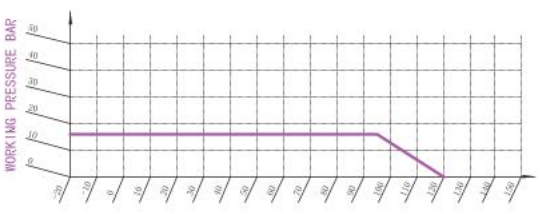




Dimensions

SIZE (inch)	A (mm)	B (mm)	C (mm)	H (mm)	L (mm)	A (mm)
15mm	15	14	50	72	72	61
22mm	22	19	50	76	81	61
28mm	28	25	60	86	90	65
35mm	35	31	83	107	91	82
42mm	42	38	96	130	97	96
54mm	54	51	96	147	112	104

Pressure & temperature ratings



HC-01172

PPR Brass Gate Valve *PN 16*



Feature & Benifits

- Europe Brass CW617N
- Non-rising stem design to minimise installation height
- Full bore design to ensure minimal pressure drop
- Adjustable gland packing for ease of maintenance
- Valves are tested in Accordance with BS EN 12288 PN16 Series B

Test Pressure & Temperature

Tempreture	Hydraulic
-10°C to 95°C	Shell: 24 bar
	Seat: 17.6 bar

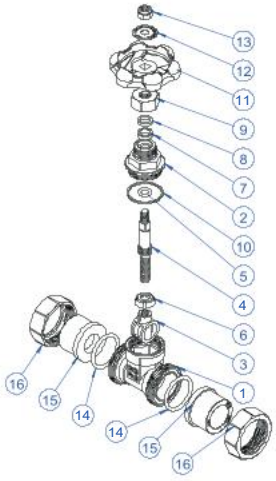
Connection Standard

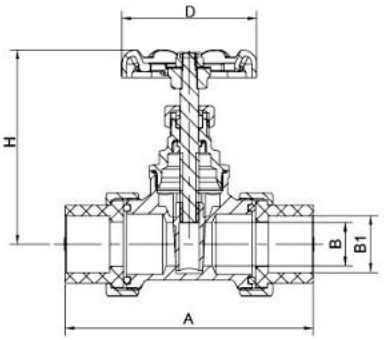
- PPR
- Medium: Water

Materials

NO.	Part	Materials
1	Body	Brass CW617N
2	Bonnet	Brass CW617N
3	Gate	Brass
4	Stem	Brass
5	O-ring	EPDM
6	Lock Cap	Stainless Steel
7	Packing	PTFE
8	Washer	Brass
9	Packing Nut	Brass
10	Washer	PTFE
11	Hand Wheel	Cast Iron
12	Name Plate	AL
13	Nut	Stainless Steel
14	O-ring	VMQ
15	Union	PPR
16	Nut	Brass

Dimensional Drawing

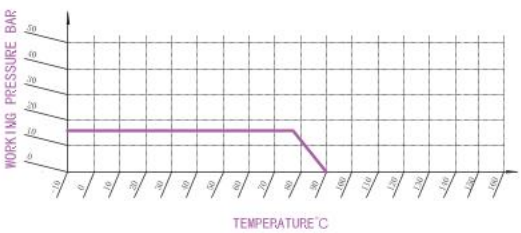




Dimensions

SIZE	DN	A (mm)	B (mm)	B1 (mm)	H (mm)	D (mm)
20x20	15	87	14	19	73	52
25x25	20	103	18	23.5	80.5	56
32x32	25	109	23	30	89	56
40x40	32	125	27	38	103	72
50x50	40	140	33	48	114	72
63x63	50	167	43	60	131	78

Pressure & temperature ratings

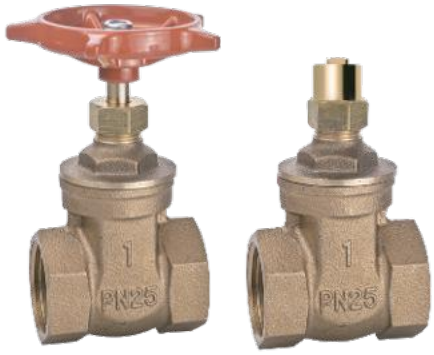


HC-06061A&HC-06061LS

Bronze Full Port Gate Valve ***PN 25***

Feature & Benefits

- WRAS Certified
- Robust and high quality bronze body with integral seating surfaces.
- Non-rising stem design to minimise installation height
- Full bore design to ensure minimal pressure drop
- Adjustable gland packing for ease of maintenance
- Valves are Tested in Accordance with MSS-SP-80
- Iron handle can be available of Item No. HC-06061



HC-06061A HC-06061LS

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5 bar
	Seat: 27.5 bar

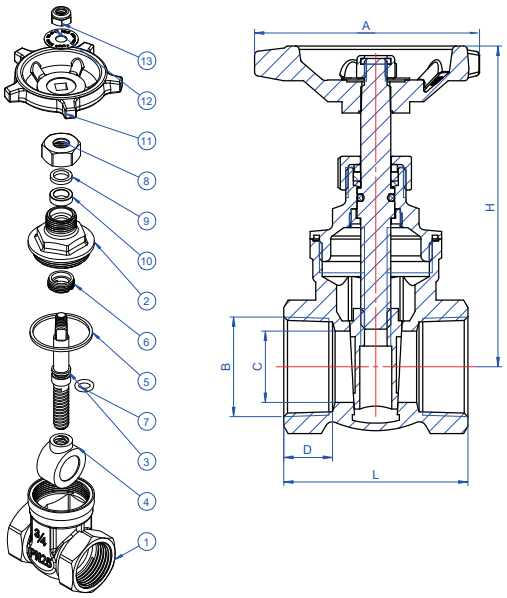
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
- ISO228-1 parallel thread
- US END CONNECTION: ANSI B1.20.1
- Medium: Water

Material

NO.	Part	Material
1	Body	Bronze C83600
2	Bonnet	Bronze C83600
3	Stem	CW602N
4	Gate	Bronze C83600
5	Flat Gasket	PTFE
6	Adjustable Nut	Brass
7	O ring	EPDM
8	Nut	Brass
9	Brass Ring	Brass
10	Gland	PTFE
11	Handlewheel	AL
12	Name Plate	AL
13	Handle Nut	304 SS

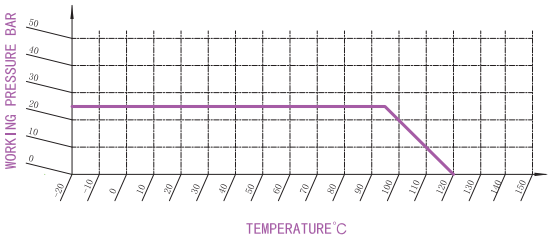
Dimensional Drawing



Dimensions

SIZE (inch)	A (mm)	B	C	D (mm)	L (mm)	H (mm)
1/2"	61	Rc1/2"	Φ14	13	45	74
3/4"	65	Rc3/4"	Φ19	13	49	85
1"	65	Rc1"	Φ24	16	56	93
1-1/4"	82	Rc11/4"	Φ30	17	61	116
1-1/2"	82	Rc11/2"	Φ34	17	62	124
2"	104	Rc2"	Φ47	20	71	150

Pressure & temperature ratings



HC-06281A & HC-06281LS

Bronze Full Port Gate Valve ***PN 20***

Feature & Benifits

- WRAS Certified
- Robust and high quality bronze body with integral seating surfaces.
- Non-rising stem design to minimise installation height
- Full bore design to ensure minimal pressure drop
- Adjustable gland packing for ease of maintenance
- Valves are Tested in Accordance with MSS-SP-80
- Cast Iron handle can be available of Item No. .HC-06281





HC-06281A **HC-06281LS**

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 30 bar
	Seat: 22 bar

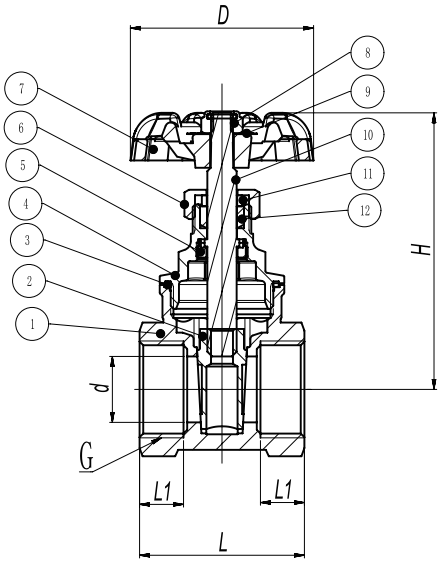
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
- ISO228-1 parallel thread
- US END CONNECTION: ANSI B1.20.1
- Medium: Water

Material

NO.	Part	Material
1	Body	Bronze C83600
2	Gate	Bronze C83600
3	Seal Ring	PTFE
4	Bonnet	Brass
5	Lock Cap	Brass
6	Adjustable Nut	Brass
7	Handlewheel	Aluminum
8	Nut	Q235
9	Name Plate	Aluminum
10	Stem	Brass
11	Washer	Brass
12	Packing	PTFE

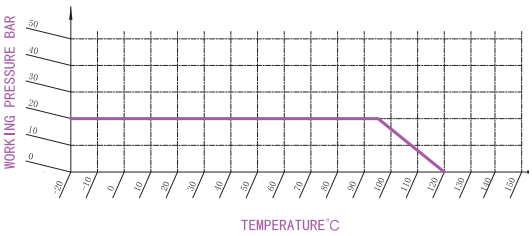
Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	D (mm)
1/2"	43	12	67	13	50
3/4"	45	12	76	18	50
1"	53	14	82	20	55
1-1/4"	55	14	104	28	67
1-1/2"	60	14	112	35	67
2"	64	16	131	42	90

Pressure & temperature ratings



HC-85001

Gate Valve **PN16**

Feature & Benifits

- Cast Iron with integral flanges
- Manufactured in accordance with BS5163
- Stainless steel stem
- Non -rising
- Ductile iron body



Test Pressure & Tempreture

Tempreture	Hydraulic
0°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

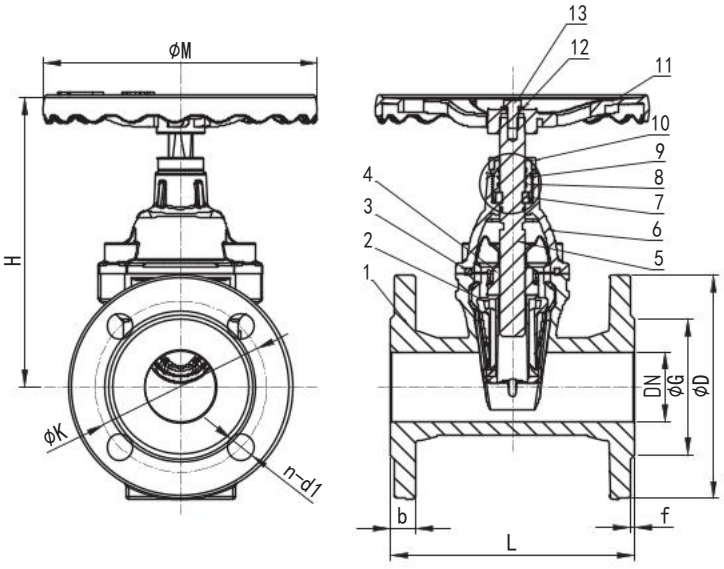
Connection Standard

- Face to face dimensions to BS EN 558-1
- Flanged to EN 1092-2
- Tests to EN 12266

Material

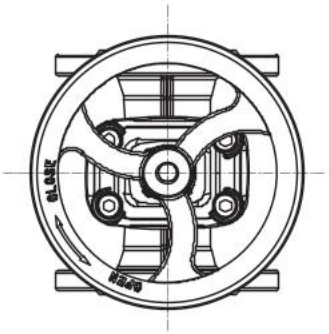
NO.	Part	Material
1	Body	GGG50
2	Disc	GGG50+EPDM
3	Bonnet Gasket	NBR
4	Stem Nut	CZ122
5	Stem	SS420
6	Bonnet	GGG50
7	Holding Ring	CZ122
8	O Ring	NBR
9	Thrust Nut	CZ122
10	Dust Ring	NBR
11	Hand Wheel	GGG50
12	Washer	A2-70
13	Bolt	A2-70

Dimensional Drawing



Dimensions

DN	OUTLINE mm			END FLANGE PN16					
	L	H	M	D	K	G	n-d1	b	f
50	178	210	180	165	125	99	4-Φ19	19	3
65	190	225	180	185	145	118	4-Φ19	19	3
80	203	255	200	200	160	132	8-Φ19	19	3
100	229	315	220	220	180	156	8-Φ19	19	3
125	254	330	280	250	210	184	8-Φ19	19	3
150	267	370	280	285	240	211	8-Φ23	19	3
200	292	460	315	340	295	266	12-Φ23	20	3
250	330	585	406	405	355	319	12-Φ28	22	3
300	356	665	406	460	410	370	12-Φ28	24.5	4



HC-95001

Resilient-Seated Gate Valve *PN16*



Feature & Benifits

- Non-Rising Stem, brass nut type
- Class A sealing (ZERO LEAKAGE)
- online maintenance under pressure
- 100% testing before packing and delivery.
- Clockwise closing (CWC) as standard, anticlockwise closing upon request.
- O-ring bonnet gasket wraps each bolt to prevent corrosion.
- Linear sealing design provides better sealing & lower closing torque.
- Fusion bonded epoxy coating

Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 120°C	Seat: 24 bar
	Seat: 17.6 bar

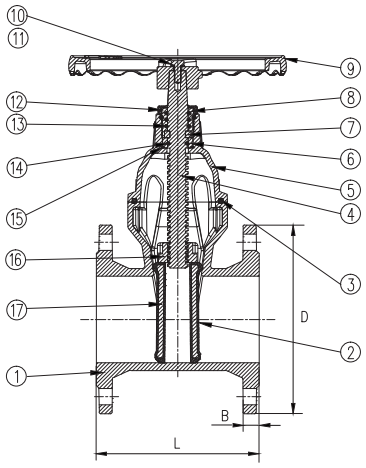
Materials

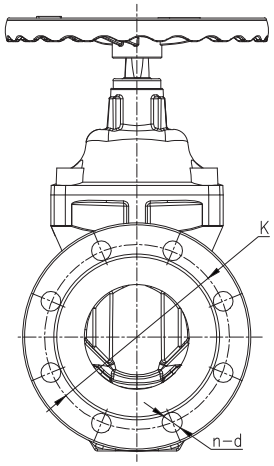
NO.	Part	Materials
1	Body	Ductile Iron
2	Disc	EPDM+Ductile Iron
3	Bonnet Gasket	NBR
4	Stem	AISI420
5	Bonnet	Ductile Iron
6	Thrust Nut	Brass
7	Holding Ring	Brass
8	Thrust Nut	Brass
9	Handwheel/Cap	Ductile Iron
10	Bolt	AISI304
11	Flat Washer	AISI304
12	Dustcover	NBR
13	O-Ring	NBR
14	O-Ring	NBR
15	O-Ring	NBR
16	Stem Nut	CuZn39Pb1 Brass
17	Core	Ductile Iron

Connection Standard

- Face to face dimensions to BS EN 558-1
- Flanged to EN 1092-2
- Design and manufacture as per BS5163

Dimensional Drawing





Dimensions

Size	Outline(mm)			Valve Flange dimensions(mm)			
	L(face to face)			EN1092-2, PN16			
DN	BS5163	DIN-F4	DIN-F5	D	K	n-d	B
DN40	165	140	240	150	110	4-Φ19	19
DN50	178	150	250	165	125	4-Φ19	19
DN65	190	170	270	185	145	4-Φ19	19
DN80	203	180	280	200	160	8-Φ19	19
DN100	229	190	300	220	180	8-Φ19	19
DN125	254	200	325	250	210	8-Φ19	19
DN150	267	210	350	285	240	8-Φ19	19
DN200	292	230	400	340	295	12-Φ23	20
DN250	330	250	450	405	355	12-Φ28	22
DN300	356	270	500	460	410	12-Φ28	24.5
DN350	381	290	550	520	470	16-Φ28	26.5
DN400	406	310	600	580	525	16-Φ31	28
DN450	432	330	650	640	565	20-Φ28	30
DN500	457	350	700	670	620	20-Φ28	26.5
DN600	508	390	800	780	725	20-Φ31	30
DN700	610	430	900	895	840	24-Φ31	32.5
DN800	660	470	1000	1015	950	24-Φ34	35
DN900	711	510	1100	1125	1050	28-Φ34	46.5
DN1000	811	550	1200	1255	1160	28-Φ37	50
DN1200	960	630	1400	1485	1380	32-Φ40	57

HC-95111

Resilient-Seated Gate Valve *PN25*

Feature & Benifits

- Tests: AWWA C515 / API 598
- Coating: AWWA C550 thickness 250micron
- WRAS certified for drinking water



Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 120°C	Seat: 37.5 bar
	Seat: 27.5 bar

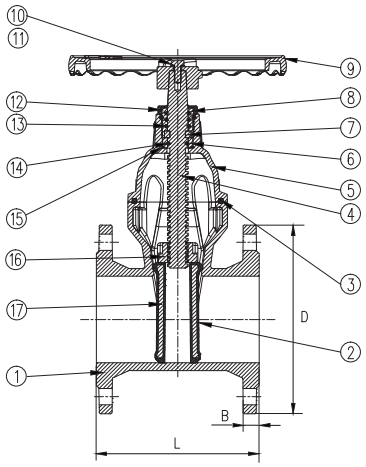
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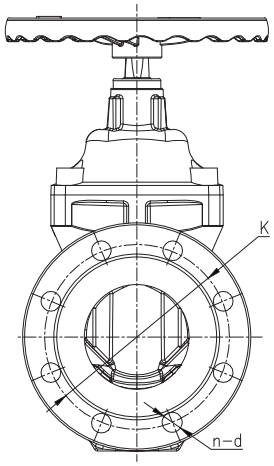
NO.	Part	Materials
1	Body	Ductile Iron
2	Disc	EPDM+Ductile Iron
3	Gasket	NBR
4	Stem	AISI420
5	Bonnet	Ductile Iron
6	Thrust Washer	CuZn39Pb1 Brass
7	Holding Ring	CuZn39Pb1 Brass
8	Thrust Sleeve	CuZn39Pb1 Brass
9	Gland	Ductile Iron
10	Handwheel/Cap	Ductile Iron
11	Bolt	AISI304
12	Flat Washer	AISI304
13	Dustcover	NBR
14	O-Ring	NBR
15	Stem Nut	CuZn39Pb1 Brass
16	Disc Nut	CuZn39Pb1 Brass
17	Screw	Carbon Steel

Connection Standard

- Face to face dimensions to BS EN 558-1
- Flanged to EN 1092-2
- Design and manufacture as per BS5163

Dimensional Drawing





Dimensions

Size	Outline(mm)			Valve Flange dimensions(mm)			
	L(face to face)			EN1092-2, PN25			
DN	BS5163	DIN-F4	DIN-F5	D	K	n-d	B
DN40	165	140	240	150	110	4-Φ19	19
DN50	178	150	250	165	125	4-Φ19	19
DN65	190	170	270	185	145	8-Φ19	19
DN80	203	180	280	200	160	8-Φ19	19
DN100	229	190	300	235	190	8-Φ23	19
DN125	254	200	325	270	220	8-Φ28	19
DN150	267	210	350	300	250	8-Φ28	20
DN200	292	230	400	360	310	12-Φ28	22
DN250	330	250	450	425	370	12-Φ31	25
DN300	356	270	500	485	430	16-Φ31	28
DN350	381	290	550	555	490	16-Φ34	32
DN400	406	310	600	620	550	16-Φ37	32
DN450	432	330	650	640	585	20-Φ31	30
DN500	457	350	700	715	650	20-Φ34	32
DN600	508	390	800	840	770	20-Φ37	36
DN700	610	430	900	910	840	24-Φ37	40
DN800	660	470	1000	1025	950	24-Φ41	43
DN900	711	510	1100	1125	1050	28-Φ40	47
DN1000	811	550	1200	1255	1170	28-Φ43	50
DN1200	960	630	1400	1485	1390	32-Φ49	57

HC-95121

Resilient-Seated Gate Valve *250 PSI*

Feature & Benifits

- Design: AWWA C515
- Flanges: ASME B16.5 / CL150



Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 120°C	Seat: 375 PSI
	Seat: 275 PSI

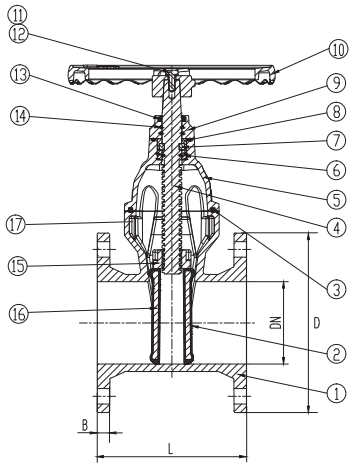
Materials

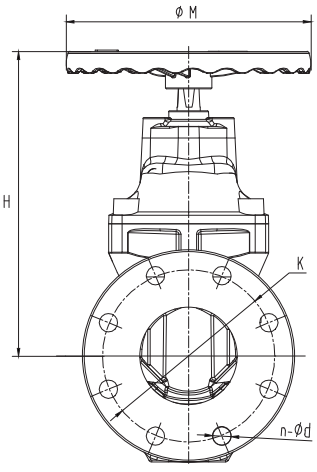
NO.	Part	Materials
1	Body	Ductile Iron
2	Disc	EPDM+Ductile Iron
3	Bonnet Gasket	NBR
4	Stem	AISI420
5	Bonnet	Ductile Iron
6	Thrust Nut	Brass
7	Holding Ring	Brass
8	Thrust Nut	Brass
9	Handwheel/Cap	Ductile Iron
10	Bolt	AISI304
11	Flat Washer	AISI304
12	Dustcover	NBR
13	O-Ring	NBR
14	O-Ring	NBR
15	O-Ring	NBR
16	Stem Nut	CuZn39Pb1 Brass
17	Core	Ductile Iron

Connection Standard

- Face to face dimensions to ASME B16.10
- Flanged to ASME B16.5 / CL150
- Design and manufacture as per AWWA C515

Dimensional Drawing





Dimensions

Size		Outline(mm)			Flange dimensions(mm)				Switch Turns	Closing Torque (N.m)
		ANSI B16.10	ΦM	H	ASME B16.1/16.42 Class 125/150					
DN	Inch	L			D	K	n-d	B		
DN40	11/2"	165	180	215	127	99	4-Φ16	19	9	30
DN50	2"	178	180	215	152	121	4-Φ19	19	9	40
DN65	21/2"	190	200	250	178	140	4-Φ19	22	10	50
DN80	3"	203	200	275	191	153	4-Φ19	24	12	60
DN100	4"	229	220	320	229	191	8-Φ19	24	12	80
DN125	5"	254	254	365	254	216	8-Φ19	24	15	100
DN150	6"	267	280	400	279	242	8-Φ22	25	17	120
DN200	8"	292	315	495	343	299	8-Φ22	29	19	150
DN250	10"	330	406	590	406	362	8-Φ22	30	23	200
DN300	12"	356	406	670	483	432	12-Φ25	32	27	250
DN350	14"	381	500	760	535	477	12-Φ28	35	31	300
DN400	16"	406	500	850	595	540	16-Φ28	37	35	350

HC-95401

Resilient-Seated Gate Valve *PN16*

Feature & Benifits

- Bigger sizes upon request
- Gearbox operation upon request
- Rising stem



Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 80°C	Seat: 24 bar
	Seat: 17.6 bar

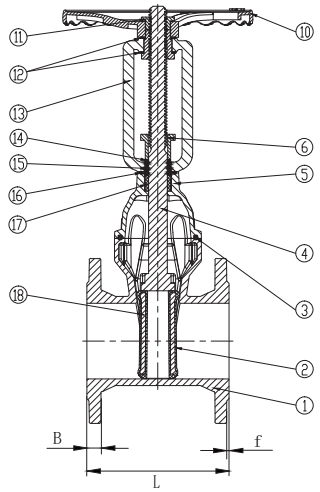
Connection Standard

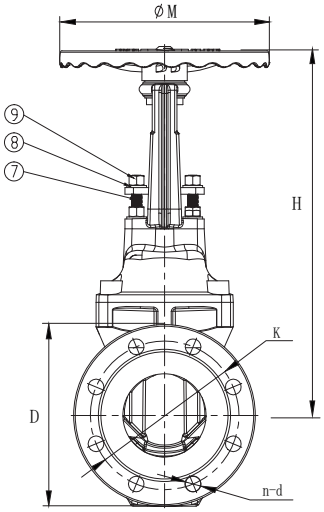
- Design and manufacture as per BS5163
- Flanged to EN 1092-2

Materials

NO.	Part	Materials
1	Body	Ductile Iron
2	Disc	EPDM+Ductile Iron
3	Gasket	NBR
4	Stem	AISI420
5	Bonnet	Ductile Iron
6	Gland	Ductile Iron
7	Bolt	AISI304
8	Washer	AISI304
9	Nut	AISI304
10	Handwheel	Ductile Iron
11	Stem Nut	CuZn39Pb1 Brass
12	Friction Pads	AISI304
13	Yoke	Ductile Iron
14	Gasket	POM
15	O-Ring	NBR
16	O-Ring	NBR
17	Washer	Phenolic
18	Disc Core	Ductile Iron

Dimensional Drawing





Dimensions

Size	Outline(mm)			Valve Flange dimensions(mm)					Switch Turns
	L	ΦM	H	BS4504/EN1092-2, PN16					
DN	BS5163			D	K	n-d	B	f	
DN65	190	Φ200	350	185	145	4-Φ19	19	3	17
DN80	203	Φ200	375	200	160	8-Φ19	19	3	20
DN100	229	Φ254	450	220	180	8-Φ19	19	3	21
DN125	254	Φ315	510	250	210	8-Φ19	19	3	26
DN150	267	Φ315	585	285	240	8-Φ23	19	3	26
DN200	292	Φ315	735	340	295	12-Φ23	20	3	34
DN250	330	Φ406	875	405	355	12-Φ28	22	3	43
DN300	356	Φ406	1015	460	410	12-Φ28	24.5	4	51
DN350	381	Φ500	1210	520	470	16-Φ28	26.5	4	51
DN400	406	Φ500	1335	580	525	16-Φ31	28	4	58
DN450	432	Φ650	1515	640	585	20-Φ34	30	4	65
DN500	457	Φ650	1600	670	650	20-Φ34	31.5	4	73

HC-95411

Resilient-Seated Gate Valve *PN25*

Feature & Benifits

- Bigger sizes upon request
- Gearbox operation upon request
- Rising stem



Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 120°C	Seat: 37.5 bar
	Seat: 27.5 bar

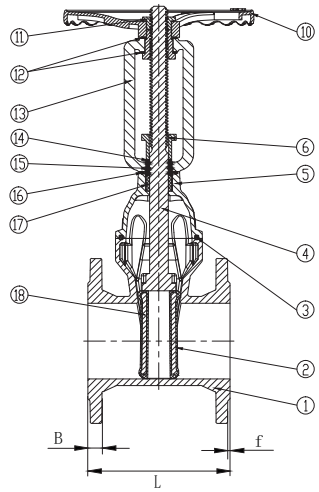
Materials

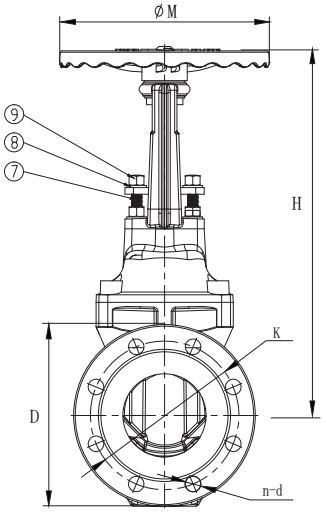
NO.	Part	Materials
1	Body	Ductile Iron
2	Disc	EPDM+Ductile Iron
3	Gasket	NBR
4	Stem	AISI420
5	Bonnet	Ductile Iron
6	Gland	Ductile Iron
7	Bolt	AISI304
8	Washer	AISI304
9	Nut	AISI304
10	Handwheel	Ductile Iron
11	Stem Nut	CuZn39Pb1 Brass
12	Friction Pads	AISI304
13	Yoke	Ductile Iron
14	Gasket	POM
15	O-Ring	NBR
16	O-Ring	NBR
17	Washer	Phenolic
18	Disc Core	Ductile Iron

Connection Standard

- Design and manufacture as per BS5163
- Flanged to EN 1092-2

Dimensional Drawing

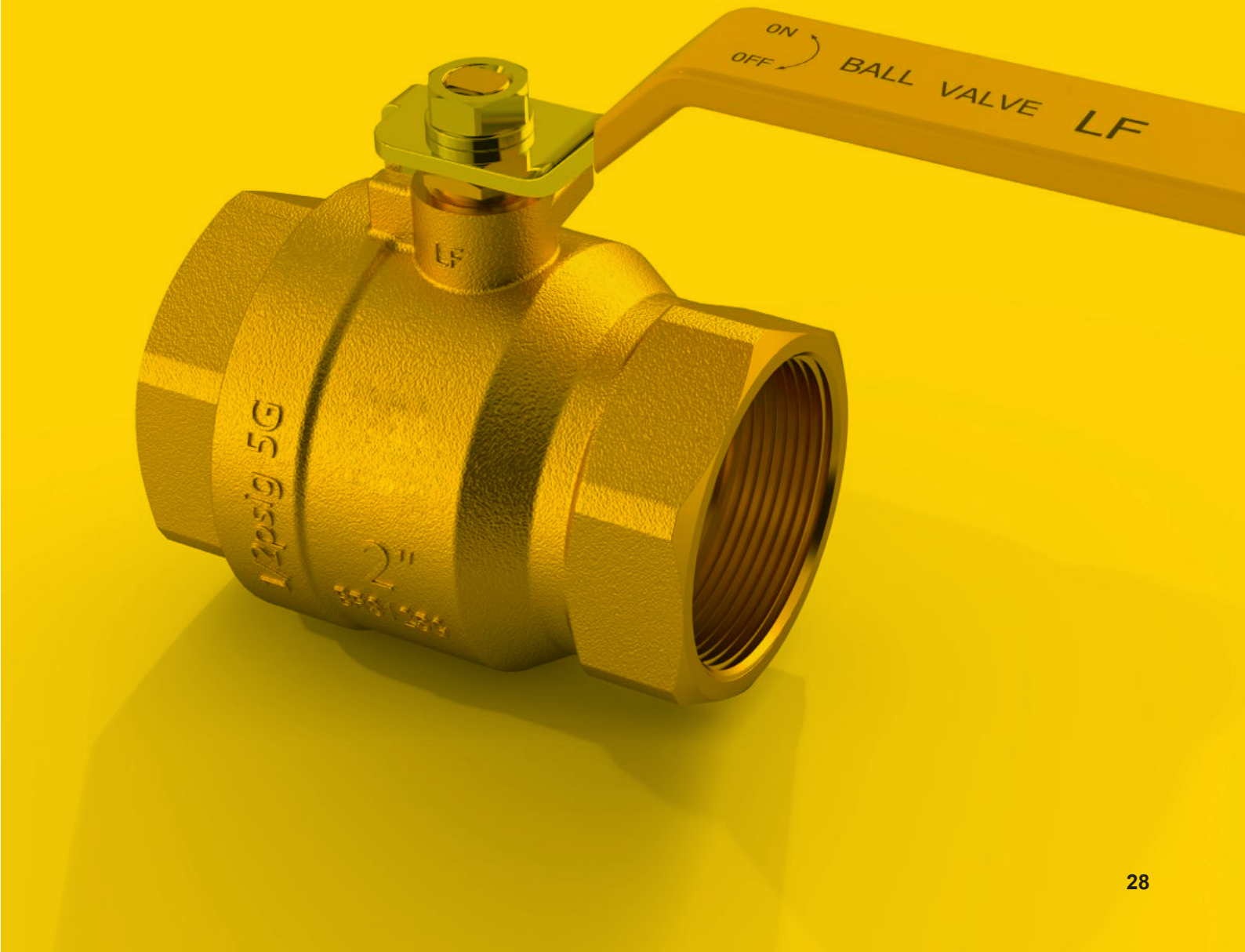




Dimensions

Size	Outline(mm)			Valve Flange dimensions(mm)					Switch Turns
	L	ΦM	H	EN1092-2, PN25					
DN	BS5163			D	K	n-d	B	f	
DN65	190	Φ200	350	185	145	8-Φ19	19	3	17
DN80	203	Φ200	375	200	160	8-Φ19	19	3	20
DN100	229	Φ254	450	235	190	8-Φ23	19	3	21
DN125	254	Φ315	510	270	220	8-Φ28	19	3	26
DN150	267	Φ315	585	300	250	8-Φ28	20	3	26
DN200	292	Φ315	735	360	310	12-Φ28	22	3	34
DN250	330	Φ406	875	425	370	12-Φ31	24.5	3	43
DN300	356	Φ406	1015	485	430	16-Φ31	27.5	4	51
DN350	381	Φ500	1210	555	490	16-Φ34	30	4	51
DN400	406	Φ500	1335	620	550	16-Φ37	32	4	58
DN450	432	Φ650	1515	-	-	-	-	-	65
DN500	457	Φ650	1600	-	-	-	-	-	73

ball valve



HC-99561

Lever Handle Ball Valve ***PN25***

Feature & Benefits

- Brass material are made of brass grade CW617N as per the European standard EN12165.
- Designed to be light, compact and easy to install and operate
- Steel lever handle with anti-corrosion treatment and Blue PVC coating



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5 bar
	Seat: 27.5 bar

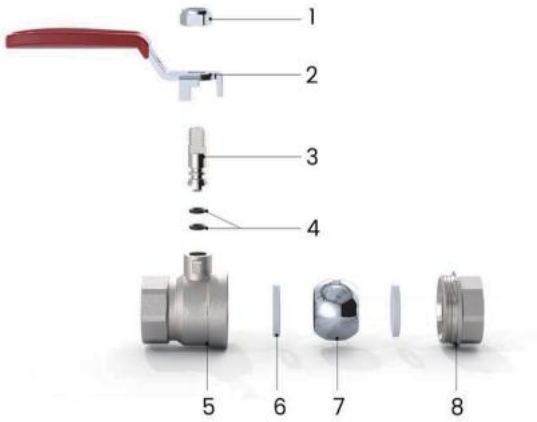
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

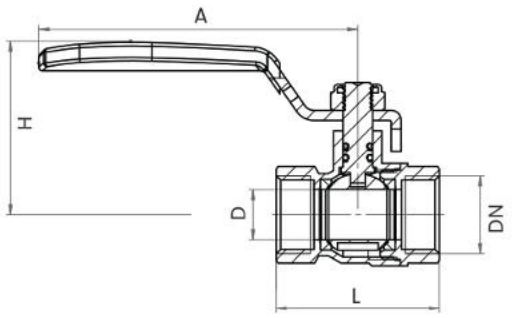
NO.	PART	Materials
1	Nut	Steel
2	Lever handle	Steel
3	Stem	Brass
4	O-ring	NBR
5	Body	Brass
6	Seats	PTFE
7	Ball	Brass
8	Bonnet	Brass

Dimensional Drawing

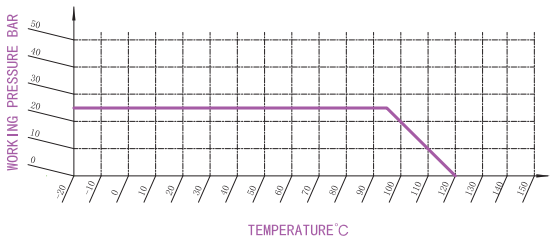


Dimensions

SIZE (inch)	L (mm)	A (mm)	H (mm)	D (mm)	G
1/2"	44	86	47	14	G1/2"
3/4"	51	86	50	18	G3/4"
1"	61	112	61	23	G1"
1-1/4"	74	135	74	30	G11/4"
1-1/2"	85	135	85	34	G11/2"
2"	98	135	98	43	G2"
2-1/2"	125	227	109	57	G2-1/2"
3"	145	227	117	68	G3"
4"	168	236	130	85	G4"



Pressure & temperature ratings



HC-89901DR

DZR Brass Ball Valve ***PN25***



Feature & Benefits

- Full port
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass prevents corrosion and fungal growth
- Designed to be light, compact and easy to install and operate
- Steel lever handle with anti-corrosion treatment and Blue PVC coating
- Valves are Tested in Accordance with BSEN 13828 standards

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5 bar
	Seat: 27.5 bar

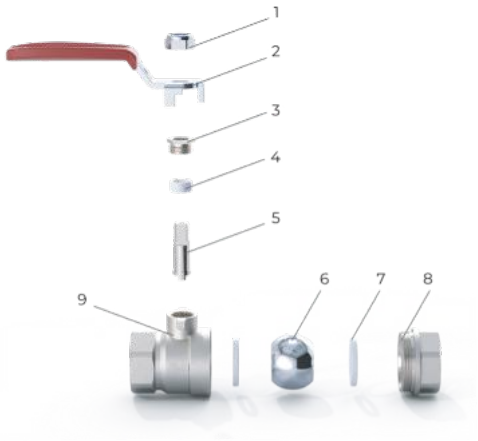
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

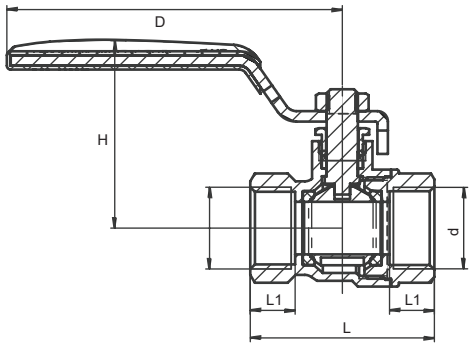
NO.	PART	Materials
1	Nut	Steel
2	Lever handle	Steel
3	Packing nut	Brass
4	Packing	PTFE
5	Stem nickle plated	Brass
6	Ball chrome plated	Brass
7	Seats	PTFE
8	Bonnet nickle plated	Brass DZR
9	Body nickle plated	Brass DZR

Dimensional Drawing

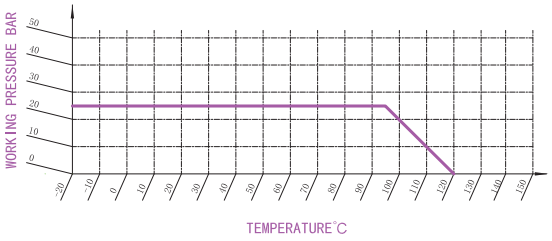


Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	D (mm)
1/2"	47.2	11.5	47.7	Φ25	Φ86
3/4"	56.4	13	52.2	Φ31	Φ86
1"	64	14	63.9	Φ37.5	Φ112
1-1/4"	77.4	15.5	72.1	Φ46.5	Φ140
1-1/2"	86.2	16	78.9	Φ54	Φ140
2"	102	17	95	Φ67	Φ162



Pressure & temperature ratings



HC-88881DR

Brass Full Port Ball Valve ***PN25***

Feature & Benefits

- WRAS Certified
- Europe Brass CW617N
- Full port
- Designed to be light, compact and easy to install and operate
- Steel lever handle with anti-corrosion treatment and Blue PVC coating
- Valves are Tested in Accordance with BSEN 13828 standards
- CW617N material is available HC - 88881



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5 bar
	Seat: 27.5 bar

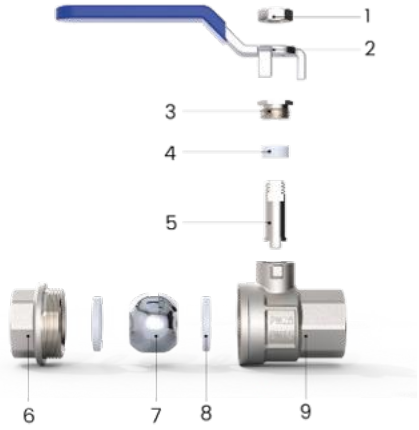
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

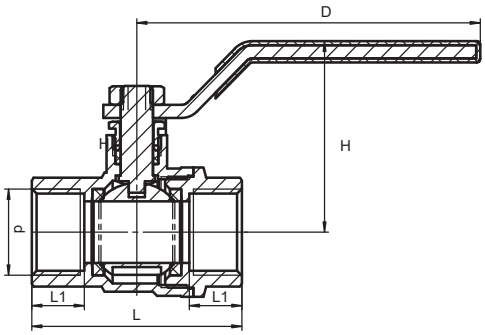
NO.	PART	Materials
1	Nut	Brass
2	Lever handle	Steel
3	Packing Nut	Brass
4	Seats	PTFE
5	Stem	Brass
6	Bonnet	DZR Brass CW602N
7	Ball	Brass
8	Washer	PTFE
9	Body	DZR Brass CW602N

Dimensional Drawing

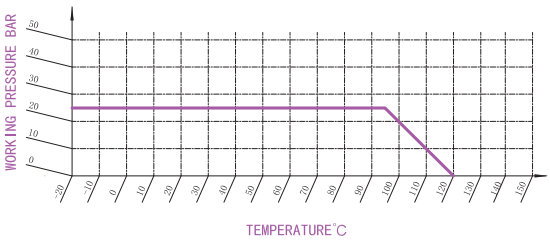


Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	D (mm)
1/2"	52	13	46.5	Φ25	Φ85
3/4"	60.4	13.5	52.4	Φ32	Φ85
1"	69	16	58	Φ38	Φ104
1-1/4"	83	17	72.9	Φ48	Φ123.5
1-1/2"	97	19.5	78.5	Φ55	Φ123.5
2"	110.2	20	93.7	Φ65	Φ155.8



Pressure & temperature ratings



HC-88881TDR

Brass Full Port Ball Valve ***PN25***



Feature & Benefits

- WRAS Certified
- Europe Brass CW617N
- Full port
- Designed to be light, compact and easy to install and operate
- Butterfly handle
- Valves are Tested in Accordance with BSEN 13828 standards
- CW617N material is available HC - 88881T

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5 bar
	Seat: 27.5 bar

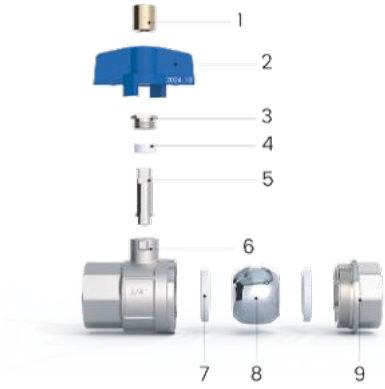
Connection Standard

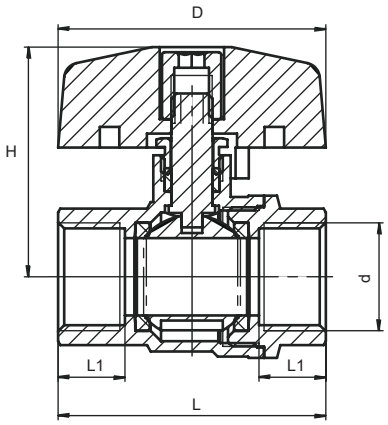
- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Nut	Brass
2	Handle	Aluminum
3	Packing Nut	Brass
4	Seats	PTFE
5	Stem	Brass
6	Body	DZR Brass CW602N
7	Washer	PTFE
8	Ball	Brass
9	Bonnet	DZR Brass CW602N

Dimensional Drawing

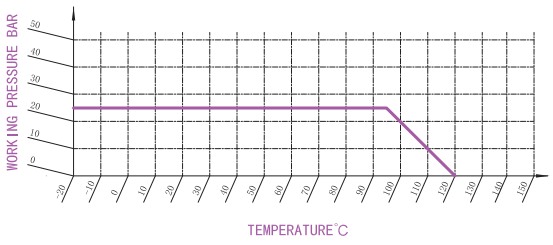




Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	D (mm)
1/4"	44.6	13	38.4	Φ8	Φ52
3/8"	44.6	11.2	40.2	Φ10	Φ52
1/2"	52	13	44.6	Φ15	Φ52
3/4"	60.4	13.5	50.5	Φ20	Φ52
1"	69	15	54	Φ25	Φ69

Pressure & temperature ratings



HC-88881MFDR

Brass Full Port Ball Valve ***PN25***

Feature & Benefits

- WRAS Certified
- Europe Brass CW617N
- Full port
- Designed to be light, compact and easy to install and operate
- Steel lever handle with anti-corrosion treatment and Blue PVC coating
- Valves are Tested in Accordance with BSEN 13828 standards
- CW617N material is available HC - 88881MF



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5 bar
	Seat: 27.5 bar

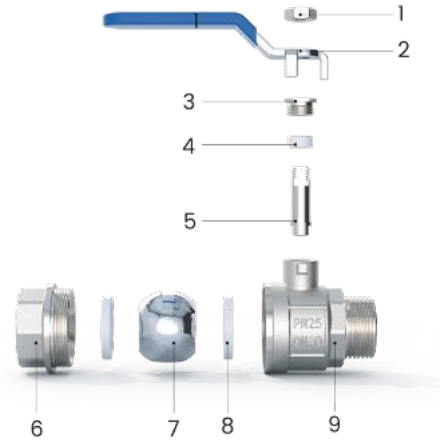
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

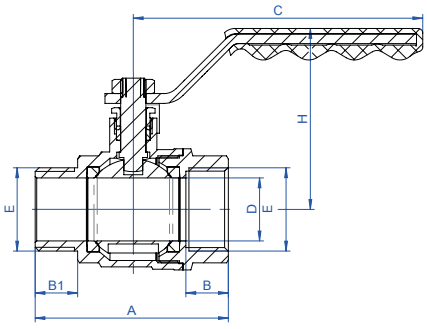
NO.	PART	Materials
1	Nut	Brass
2	Lever handle	Steel
3	Packing Nut	Brass
4	Seats	PTFE
5	Stem	Brass
6	Bonnet	DZR Brass CW602N
7	Ball	Brass
8	Washer	PTFE
9	Body	DZR Brass CW602N

Dimensional Drawing

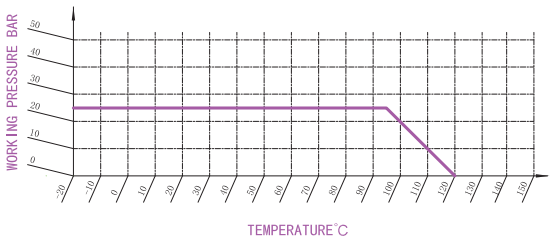


Dimensions

SIZE (inch)	A (mm)	B (mm)	B1 (mm)	C (mm)	D (mm)	H (mm)
1/2"	54	13	13	92	15	51.6
3/4"	61.4	13.5	13.5	92	20	57.5
1"	72	16	16	115.5	25	63.5
1 1/4"	85.5	17	17	129.5	32	72.9
1 1/2"	101.5	19.5	19.5	129.5	39.5	78.5
2"	119.7	20	20	156	50	93.9



Pressure & temperature ratings



HC-88881MFTDR

Brass Full Port Ball Valve ***PN25***



Feature & Benefits

- WRAS Certified
- Europe Brass CW617N
- Full port
- Designed to be light, compact and easy to install and operate
- Butterfly handle
- Valves are Tested in Accordance with BSEN 13828 standards
- CW617N material is available HC - 88881MFT

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5 bar
	Seat: 27.5 bar

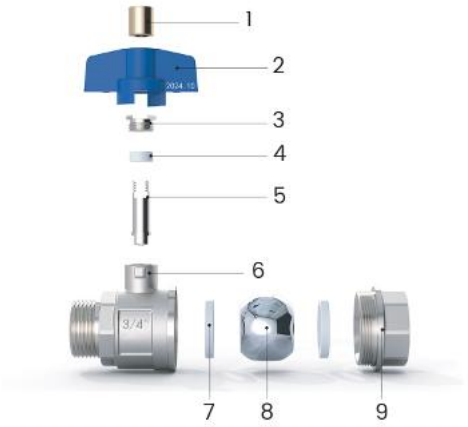
Connection Standard

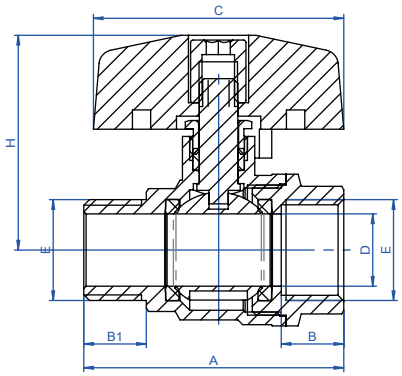
- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Nut	Brass
2	Handle	Aluminum
3	Packing Nut	Brass
4	Seats	PTFE
5	Stem	Brass
6	Body	DZR Brass CW602N
7	Washer	PTFE
8	Ball	Brass
9	Bonnet	DZR Brass CW602N

Dimensional Drawing

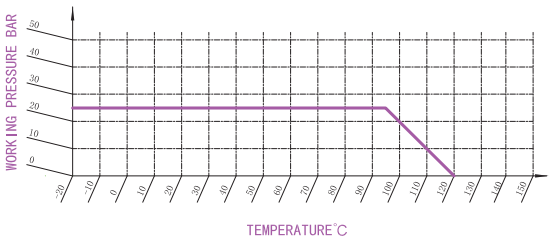




Dimensions

SIZE (inch)	A (mm)	B (mm)	B1 (mm)	C (mm)	D (mm)	H (mm)
1/4"	48.1	13	10	52	8	38.4
3/8"	49.6	11.2	11.5	52	10	40.2
1/2"	54	13	13	52	15	44.6
3/4"	61.4	13.5	13.5	52	20	50.5
1"	72	16	16	69	25	54

Pressure & temperature ratings



HC-88881DCDR

Brass Full Port Ball Valve with Drain ***PN25***



Feature & Benefits

- Europe Brass CW617N
- Full port
- Designed to be light, compact and easy to install and operate
- Steel lever handle with anti-corrosion treatment and Blue PVC coating
- Valves are Tested in Accordance with BSEN 13828 standards
- CW617N material is available HC - 88881DC

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5 bar
	Seat: 27.5 bar

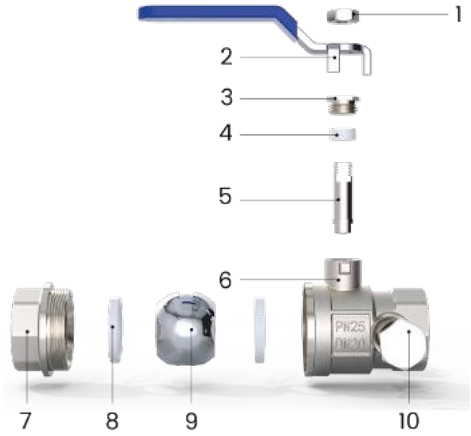
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

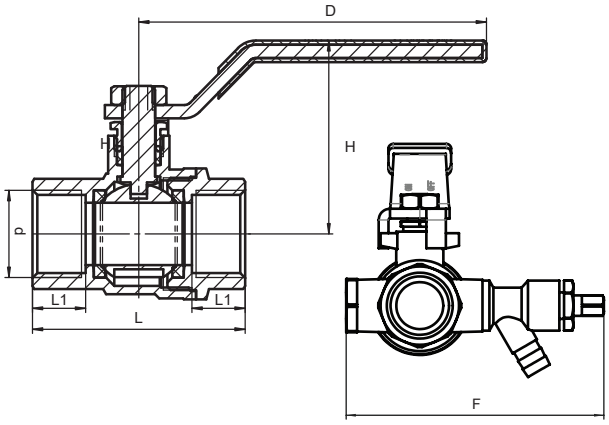
NO.	PART	Materials
1	Nut	Brass
2	Handle	Steel
3	Packing Nut	Brass
4	Seats	PTFE
5	Stem	Brass
6	Body	DZR Brass CW602N
7	Bonnet	DZR Brass CW602N
8	Washer	PTFE
9	Ball	Brass
10	Drain	Brass

Dimensional Drawing

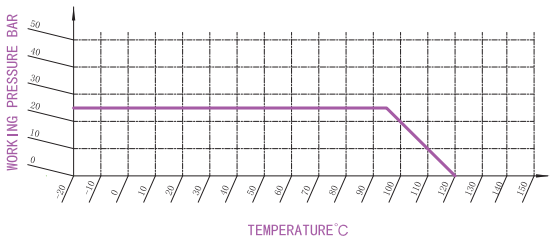


Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	D (mm)	F (mm)
1/2"	55.5	13	51.6	Φ15	Φ92	82.2
3/4"	63.6	13.5	57.5	Φ20	Φ92	90.2



Pressure & temperature ratings



HC-77972

Union Ball Valve *PN 25*



Feature & Benifits

- Europe Brass CW617N
- Full port
- Designed to be light, compact and easy to install and operate
- Steel lever handle with anti-corrosion treatment and Blue PVC coating
- Valves are Tested in Accordance with BSEN 13828 standards

Test Pressure & Temperature

Tempreture	Hydraulic
-10°C to 95°C	Shell: 37.5 bar
	Seat: 27.5 bar

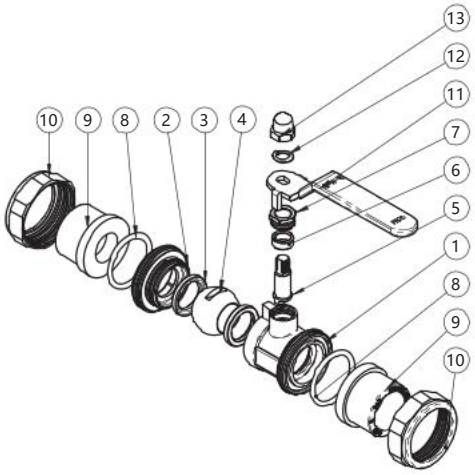
Connection Standard

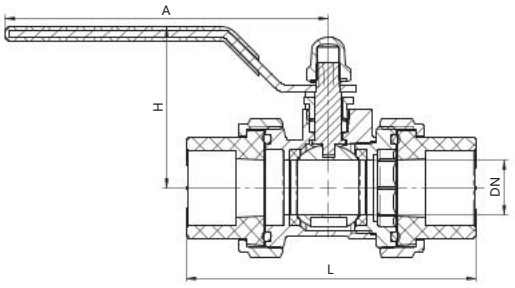
- PPR
- Medium: Water

Materials

NO.	Part	Materials
1	Body	Brass CW617N
2	Bonnet	Brass CW617N
3	Seat	PTFE
4	Ball	Brass
5	Stem	Brass
6	Packing	PTFE
7	Packing Nut	Brass
8	O-ring	VMQ
9	PPR Union	PPR
10	Nut	Brass
11	Handle	Q235
12	Washer	304
13	Nut	304

Dimensional Drawing

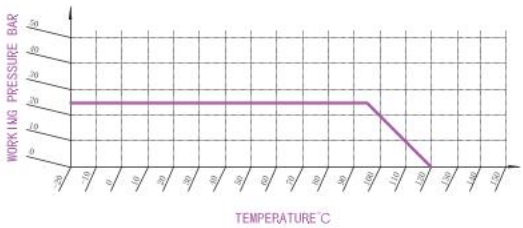




Dimensions

SIZE	DN	H (mm)	A (mm)	L (mm)
20x20	13	47	106	84
25x25	18	53	106	95
32x32	21	62	120	105
40x40	25	65	120	115
50x50	32	79	141	133
63x63	40	93	154	148
75X75	50	113	219	166
90X90	61	120	219	185
110X110	75	129	280	205

Pressure & temperature ratings



HC-80081

Bronze Full Port Ball Valve ***PN40***

Feature & Benefits

- Robust and high quality bronze body with integral seating surfaces.
- Full port
- Steel lever handle with anti-corrosion treatment and Blue PVC coating
- Light and compact for easy installation
- Valves are Tested in Accordance with MSS-SP-110



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 60 bar
	Seat: 44 bar

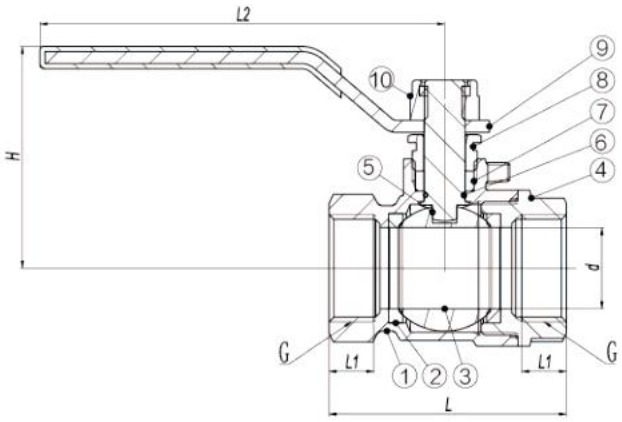
Connection Standard

- US END CONNECTION: ANSI B1.20.1
- ISO228-1 parallel thread
- Medium: Water
- UK END CONNECTION: Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21

Material

NO.	Part	Material
1	Body	Bronze
2	Seal	PTFE
3	Ball	Brass
4	Bonnet	Bronze
5	Stem	Brass
6	O-ring	EPDM
7	Packing	PTFE
8	Nut	Brass
9	Handle	Steel
10	Nut	Stainless Steel

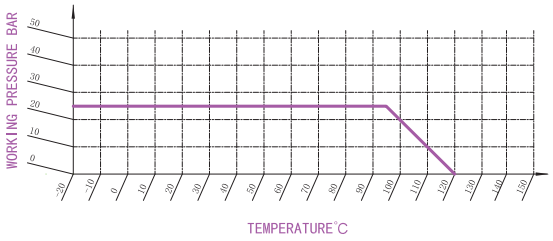
Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	L2 (mm)	G
1/2"	53.6	12	47	15	89	1/2"
3/4"	58.5	11	55	20	100	3/4"
1"	71	15	62	25	121	1"
1-1/4"	77	13	69	30	121	1-1/4"
1-1/2"	93	18	82	38	148	1-1/2"
2"	109	17	93	50	145	2"

Pressure & temperature ratings



HC-A20502

Brass Compression Ball Valve ***PN25***

Feature & Benefits

- WRAS Certified
- Europe Brass CW617N
- Full port
- Designed to be light, compact and easy to install and operate
- Steel lever handle with anti-corrosion treatment and Blue PVC coating
- Valves are Tested in Accordance with BSEN 1254-2



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5bar
	Seat: 27.5bar

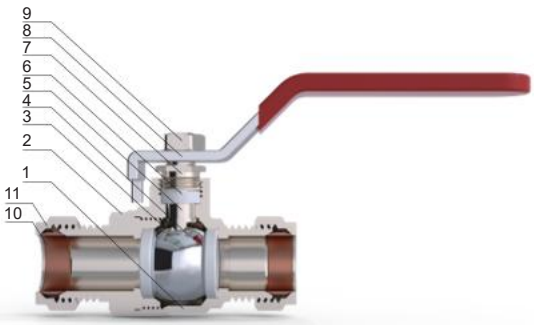
Connection Standard

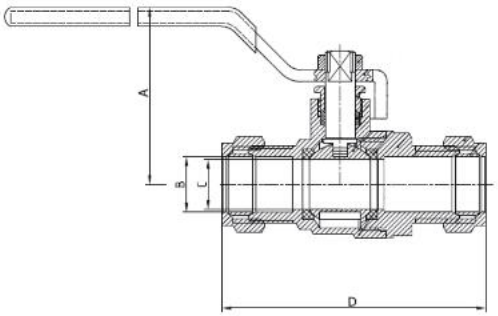
- Compression version supplied with ends complying with BS EN 1254-2

Materials

NO.	PART	Materials
1	Body	Brass CW617N
2	Bonnet	Brass CW617N
3	Seat	PTFE
4	Ball	Brass
5	Stem	Brass
6	Packing	PTFE
7	Packing Nut	Brass
8	Handle	Iron
9	Nut	Iron
10	Ring	Brass
11	Nut	Brass

Dimensional Drawing

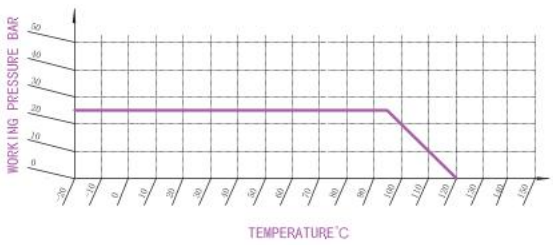




Dimensions

SIZE (inch)	A (mm)	B (mm)	C (mm)	D (mm)
15MM	52	15	14	72
22MM	52	22	19	83
28MM	58	28	23	86
35MM	75	35	32	107
42MM	76	42	38	113
54MM	90	54	49	127

Pressure & temperature ratings



HC-A20332

Brass Compression Ball Valve **PN16**



Feature & Benefits

- WRAS Certified
- Europe Brass CW617N
- Full port
- Designed to be light, compact and easy to install and operate
- Butterfly handle with anti-corrosion treatment and Blue PVC coating
- Valves are Tested in Accordance with BSEN 1254-2

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 25 bar
	Seat: 17.6 bar

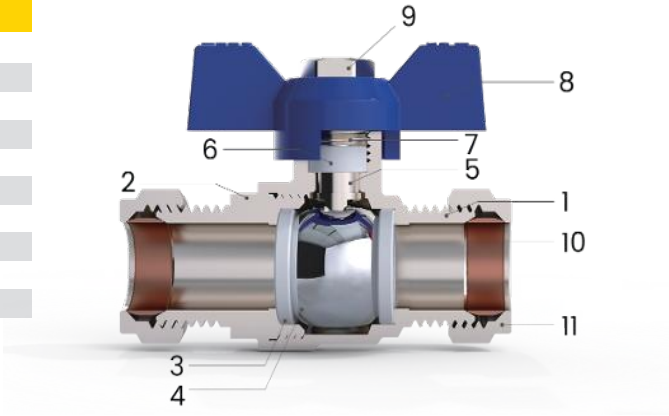
Connection Standard

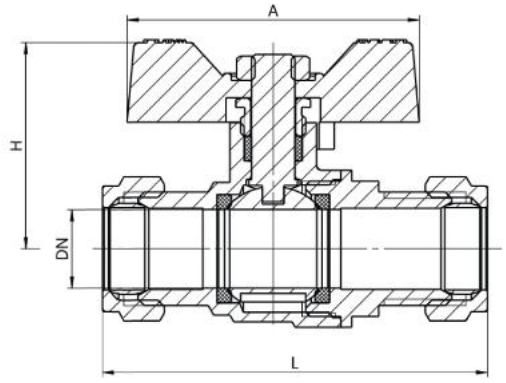
- Compression version supplied with ends complying
- with BS EN 1254-2

Materials

NO.	PART	Materials
1	Body	Brass CW617N
2	Bonnet	Brass CW617N
3	Seat	PTFE
4	Ball	Brass
5	Stem	Brass
6	Gland	PTFE
7	Packing Nut	Brass
8	Handle	Aluminum
9	Nut	Brass
10	Ring	Brass
11	Hexagonal Nut	Brass

Dimensional Drawing

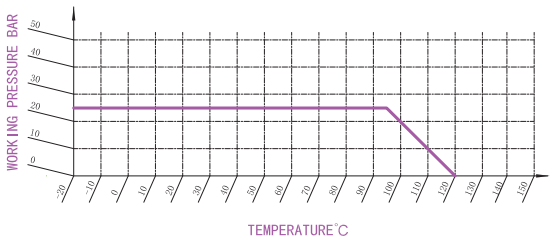




Dimensions

SIZE (inch)	H (mm)	DN (mm)	A (mm)	L (mm)
15mm	38	15	54	71
22mm	48	20	63	80
28mm	51	25	63	96

Pressure & temperature ratings



HC-16912

Brass Gas Ball valve **MOP5**

Feature & Benefits

- Suitable for gases of the first, second and third family (EN 437)
- Full port
- Valve made of UNI EN 12165 CW617N nickel plated brass Stem with double sealing system
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Steel lever handle with anti-corrosion treatment which can bear neutral salt spray test 144 hours and yellow PVC coating. The sealant is DVGW (EN-751-1) approved by German gas and water authority, which can improve the bending and torque resistance better and firmly.
- Double O Ring with EN549 certified NBR on the stem, double Security for sealing
- Valves are Tested in Accordance :EN 331:2015



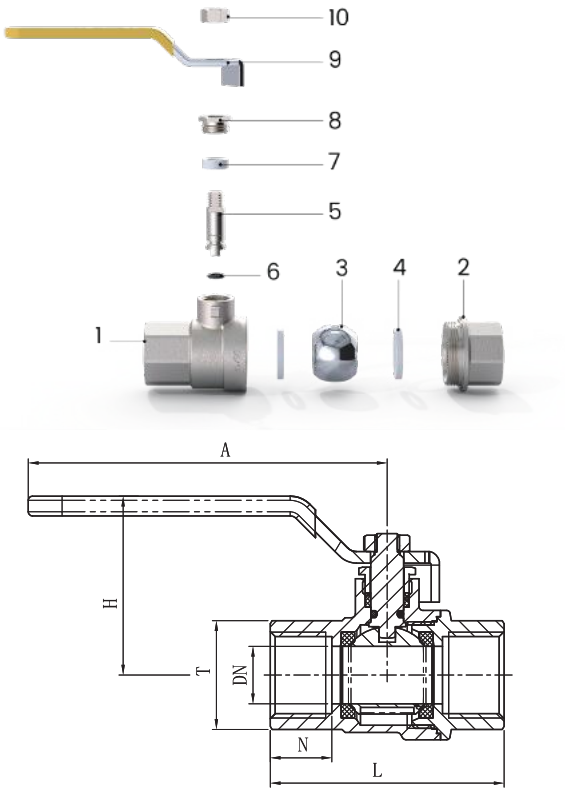
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
  Medium: Natural Gas

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 60°C	Seat: 7.5bar

Dimensional Drawing



Materials

NO.	PART	Materials
1	Body	Brass CW617N
2	Bonnet	Brass CW617N
3	Ball	Brass
4	Seat	PTFE
5	Stem	Brass
6	O-Ring	NBR
7	Gland	Graphite
8	Packing Nut	Brass
9	Handle	Q235
10	Nut	Brass

Dimensions

SIZE (inch)	DN	N (mm)	L (mm)	H (mm)	A (mm)	T (mm)
1/2"	14	15	57	44	88	EN25
3/4"	19	21	72	53	104	EN31
1"	24	24	87	57	104	EN38
1-1/4"	29	24	93	67	131	EN48
1-1/2"	37	24	103	73	131	EN55
2"	46	26	117	87	160	EN68

HC-61011

Brass Gas Ball valve

MOP5

Feature & Benefits

- Suitable for gases of the first, second and third family (EN 437)
- Full port
- Valve made of UNI EN 12165 CW617N nickel plated brass Stem with double sealing system
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Steel lever handle with anti-corrosion treatment which can bear neutral salt spray test 144 hours and yellow PVC coating
- The sealant is DVGW (EN-751-1) approved by German gas and water
- authority, which can improve the bending and torque resistance better and firmly
- Double O Ring with EN549 certified NBR on the stem, double Security for sealing
- Valves are Tested in Accordance :EN 331:2015



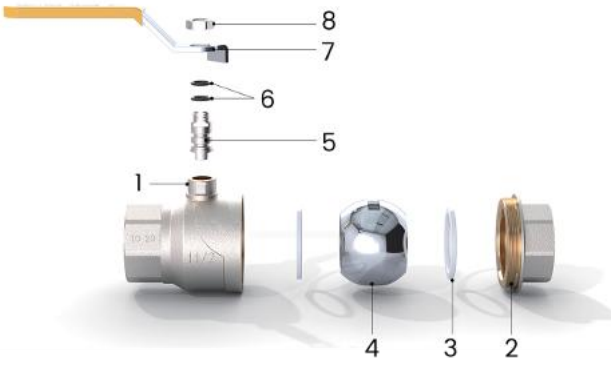
Connection Standard

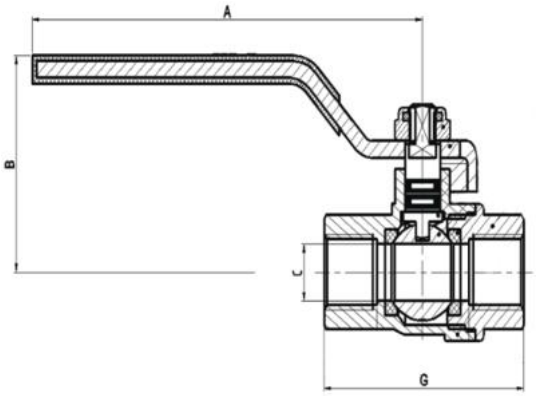
- UK END CONNECTION:Taper threaded to BS
- EN10226-2(ISO7-1)formerly BS 21
- Medium: Natural Gas

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 60°C	Seat: 7.5bar

Dimensional Drawing





Materials

NO.	PART	Materials
1	Body	Brass CW617N
2	Bonnet	Brass CW617N
3	Seat	PTFE
4	Ball	Brass
5	Stem	Brass
6	O-Ring	NBR(EN549 Certificate)
7	Handle	Q235
8	Lock Nut	Stainless Steel

Dimensions

SIZE (inch)	A (mm)	B (mm)	C (mm)	G (mm)
1/4"	89	38	10	46
3/8"	89	39	12	56
1/2"	89	42	15	58
3/4"	89	46	20	67
1"	112	60	25	81
1-1/4"	131	70	32	95
1-1/2"	131	76	40	103
2"	160	83	50	126

HC-71191

Brass Gas Ball valve

MOP5

DVGW CERT GMBH

Feature & Benefits

- Suitable for gases of the first, second and third family (EN 437)
- Full port
- Valve made of UNI EN 12165 CW617N nickel plated brass Stem with double sealing system
- Nut with anti-corrosion coating, with guarantee seal and hologram
- Steel lever handle with anti-corrosion treatment which can bear neutral salt spray test 144 hours and yellow PVC coating
- The sealant is DVGW (EN-751-1) approved by German gas and water
- authority, which can improve the bending and torque resistance better and firmly
- Double O Ring with EN549 certified NBR on the stem, double Security for sealing
- Valves are Tested in Accordance :EN 331:2015



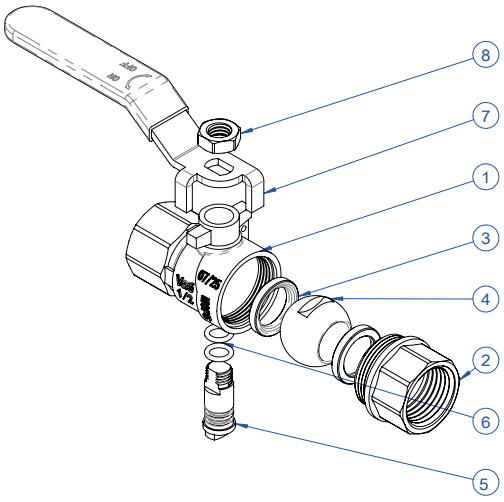
Connection Standard

- UK END CONNECTION:Taper threaded to BS
- EN10226-2(ISO7-1)formerly BS 21
- Medium: Natural Gas

Test Pressure & Temperature

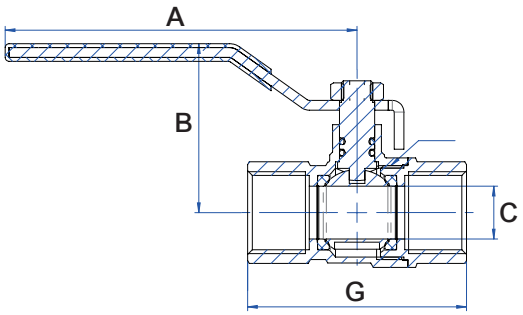
Temperature	Hydraulic
-20°C to 60°C	Seat: 7.5bar

Dimensional Drawing



Materials

NO.	PART	Materials
1	Body	Brass CW617N
2	Bonnet	Brass CW617N
3	Seat	PTFE
4	Ball	Brass
5	Stem	Brass
6	O-Ring	NBR
7	Handle	Q235
8	Lock Nut	Stainless Steel



Dimensions

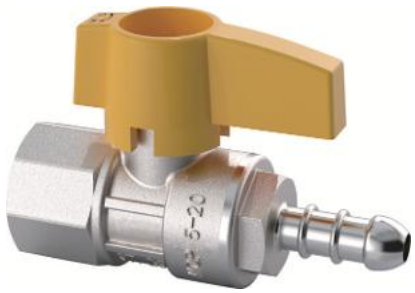
SIZE (inch)	A (mm)	B (mm)	C (mm)	G (mm)
1/2"	90	43	14	56
3/4"	104	52	18	62
1"	126	59	22	76

HC-63131

Gas Ball Valve with Nozzle ***MOP5***

Feature & Benefits

- Valve made of UNI EN 12165 CW617N nickel plated brass with
- double sealing system
- Double O Ring with EN549 certified NBR on the stem, double Security for sealing
- Valves are Tested in Accordance :EN 331:2015



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 60°C	Seat: 7.5bar

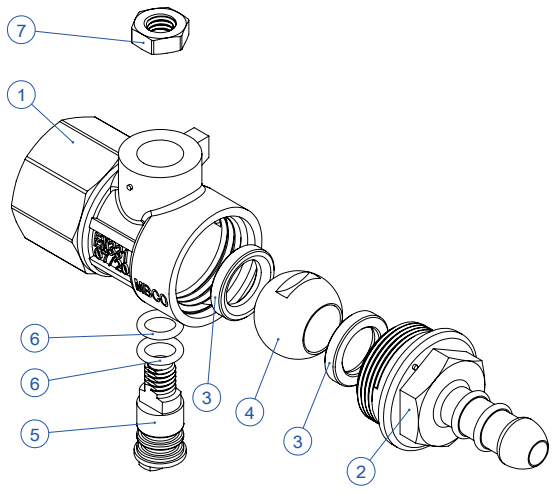
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
- Medium: Natural Gas

Materials

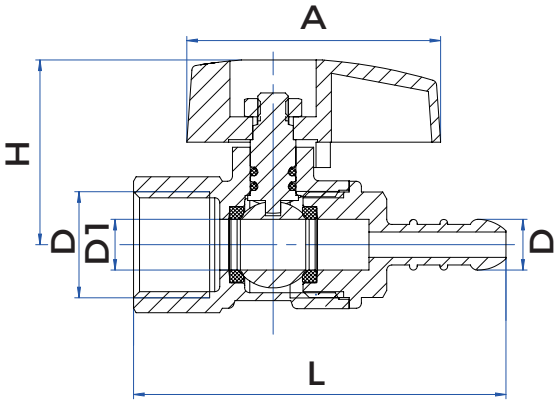
NO.	PART	Materials
1	Body	Brass
2	Seat	PTFE
3	Ball	Brass
4	Union	Brass
5	Stem	Brass
6	O-Ring	NBR
7	Handle	Aluminum
8	Nut	Q235

Dimensional Drawing

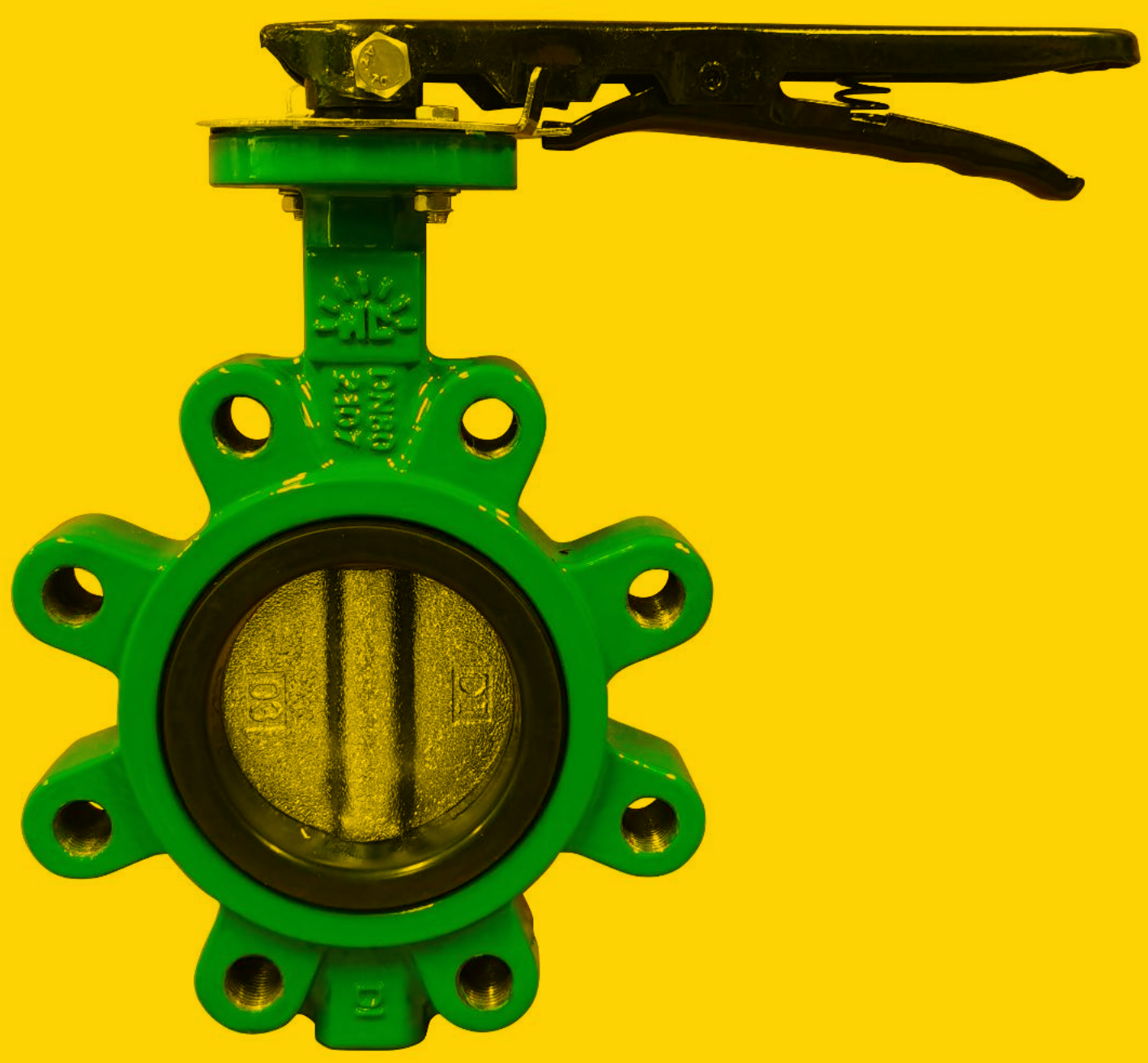


Dimensions

SIZE (inch)	D	D1 (mm)	A (mm)	H (mm)	L (mm)
1/2"	1/2"	10	50	36	73



butterfly valve



HC-90501

Butterfly Valve

PN16



Feature & Benifits

- Stainless steel disc and stem
- Quarter turn
- EPDM liner
- Fully lugged to BS EN 593 :2004
- Ductile iron body
- Available with electric actuators
- Available with lockable gearbox
- Available with gear box + chain-wheel operators

Test Pressure & Tempreture

Tempreture	Hydraulic
0°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

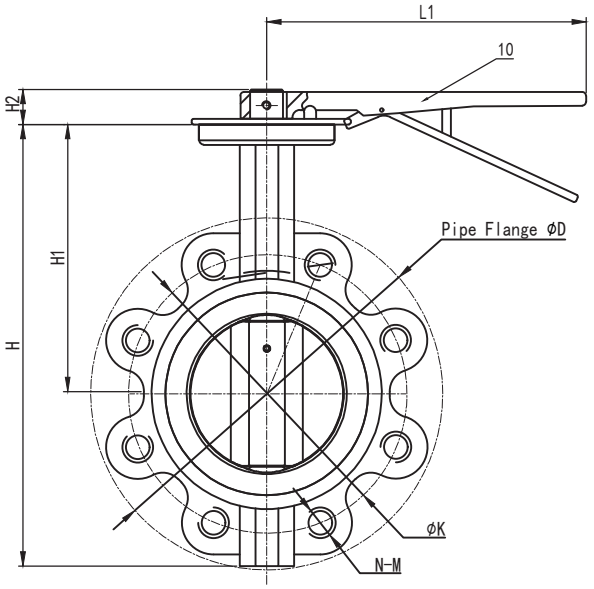
Connection Standard

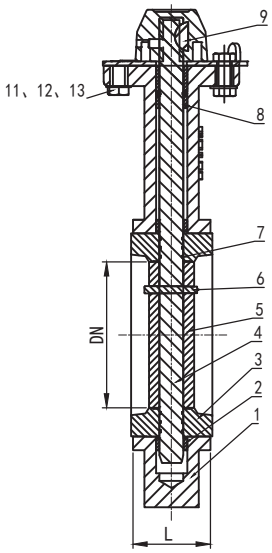
- Face to face dimention to BS EN 558-1 Series 20
- Flanged to EN 1092-2
- Tests to EN 12266

Material

NO.	Part	Material
1	Body	GGG50
2	Axle sleeve I	PTFE
3	Seat	EPDM
4	Shaft	Stainless Steel
5	DISC	CF8
6	Conical Pin	Stainless Steel
7	O-Ring	EPDM
8	Axle sleeve II	PTFE
9	Woodruff Key	Steel
10	Handle	Steel
11	Bolt	A2-70
12	Nut	A2-70
13	Washer	A2-70

Dimensional Drawing





Dimensions

DN	OUTLINE mm					END FLANGE PN16		
	L	H	H1	H2	L1	D	K	N-M
50	43	206	130	45	140	165	125	4-M16
65	46	225	140	45	140	185	145	4-M16
80	46	240	150	45	140	200	160	8-M16
100	52	272.5	170	45	140	220	180	8-M16
125	56	302	185	50	140	250	210	8-M16
150	56	330	205	50	140	285	240	8-M20
200	60	415	235	55	200	340	295	12-M20
150	56	330	205	50	140	285	240	8-M20
200	60	415	235	55	200	340	295	12-M20

HC-90501G

Butterfly Valve ***PN16***

Feature & Benifits

- Stainless steel disc and stem
- Quarter turn
- EPDM liner
- Fully lugged to BS EN 593 :2004
- Ductile iron body



Test Pressure & Tempreture

Tempreture	Hydraulic
0°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

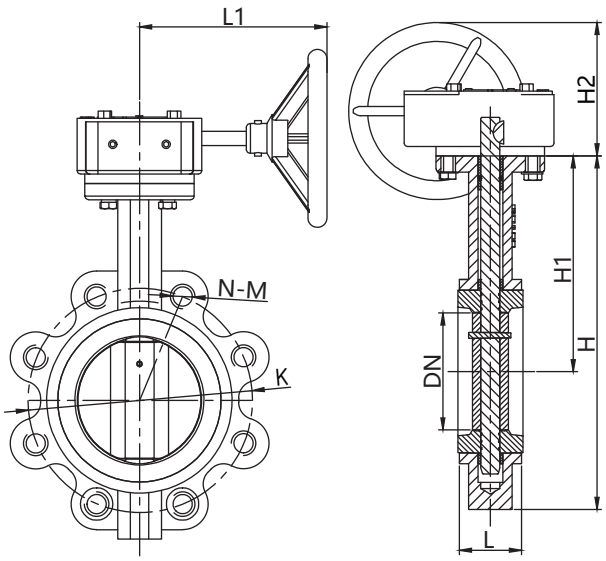
Connection Standard

- Face to face dimention to BS EN 558-1 Series 20
- Flanged to EN 1092-2
- Tests to EN 12266

Material

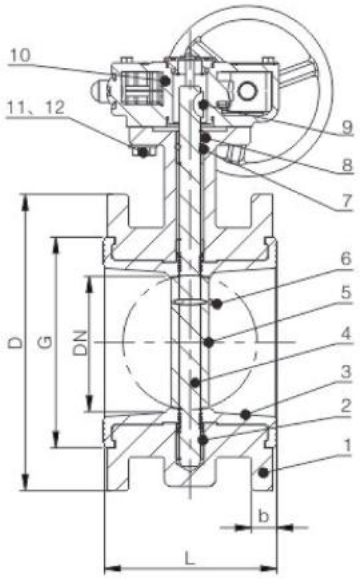
NO.	Part	Material
1	Body	GGG50
2	Bushing 1	H62
3	Seat	EPDM
4	Shaft	Stainless Steel
5	Disc	Stainless Steel
6	Conical Pin	Stainless Steel
7	O Ring	EPDM
8	Bushing 2	H62
9	Woodruff Key	Carbon Steel
10	Worm Gear Box	Ductile Iron
11	Bolt	Carbon Steel
12	Washer	Carbon Steel

Dimensional Drawing



Dimensions

DN	OUTLINE mm					END FLANGE PN16	
	L	H	H1	H2	L1	K	N-M
200	60	415	235	180	200	295	12-M20
250	68	475	270	180	200	350	12-M24
300	78	559	305	180	200	400	12-M24
350	78	636	348	230	220	470	16-M24
400	102	721	386	270	250	525	16-M27
450	114	757	408	270	250	585	20-M27
500	127	848	464	300	280	650	20-M30
600	154	1020	560	400	450	770	20-M33



HC-90601

Butterfly Valve ***PN16***

Feature & Benifits

- Stainless steel disc and stem
- Quarter turn
- EPDM liner
- Ductile iron body
- Semi lugged to BS EN 593: 2004



Test Pressure & Tempreture

Tempreture	Hydraulic
0°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

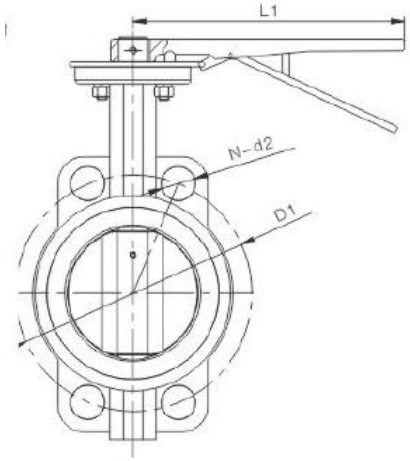
Connection Standard

- Face to face dimention to BS EN 558-1
- Flanged to EN 1092-2
- Tests to EN 12266

Material

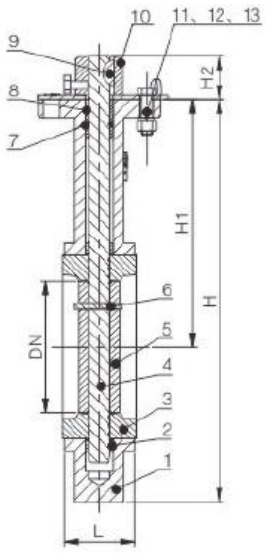
NO.	Part	Material
1	Body	Ductile iron
2	Axie Sleeve I	Compound meterial
3	Seat	PTFE
4	Shaft	Stainless Steel
5	DISC	Stainless Steel
6	Conical pin	Stainless Steel
7	O Ring	NBR
8	Axie Sleeve II	Compound meterial
9	Woodruff key	Carbon steel
10	Handle	Malleable iron
11	Bolt	Carbon steel
12	Washer	Carbon steel
13	Washer	Carbon steel

Dimensional Drawing



Dimensions

DN	L	H	H1	H2	L1	D1	N-d1	Torque
50	43	226	144	45	235	125	4-Φ19	14
65	46	245	155	45	235	145	4-Φ19	18
80	46	260	161	45	235	160	8-Φ19	21
100	52	293	178	52	275	180	8-Φ19	37
125	56	322	193	52	275	210	8-Φ19	66
150	56	350	206	52	275	240	8-Φ23	110
200	60	435	280	58	390	295	8-Φ23 12-Φ23	160



HC-90601G

Butterfly Valve ***PN16***

Feature & Benifits

- Stainless steel disc and stem
- Quarter turn
- EPDM liner
- Ductile iron body
- Semi lugged to BS EN 593: 2004



Test Pressure & Tempreture

Tempreture	Hydraulic
0°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

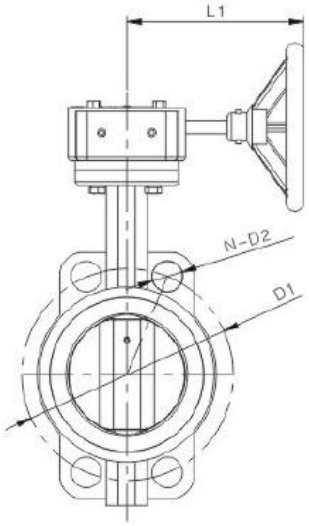
Connection Standard

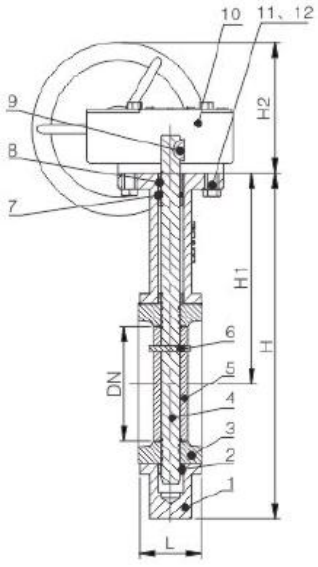
- Face to face dimention to BS EN 558-1
- Flanged to EN 1092-2
- Tests to EN 12266

Material

NO.	Part	Material
1	Body	Ductile iron
2	Axie Sleeve I	Compound meterial
3	Seat	PTFE
4	Shaft	Stainless Steel
5	DISC	Stainless Steel
6	Conical pin	Stainless Steel
7	O Ring	NBR
8	Axie Sleeve II	Compound meterial
9	Woodruff key	Carbon steel
10	Gear box	Ductile iron
11	Bolt	Carbon steel
12	Washer	Carbon steel

Dimensional Drawing





Dimensions

DN	L	H	H1	H2	L1	D1	N-d1	Torque
200	60	435	280	180	140	295	8-Φ23 12-Φ23	160
250	68	495	292	180	200	350/355	12-Φ23 12-Φ28	340
300	78	579	337	180	200	400/410	12-Φ23 12-Φ28	520
350	78	656	368	230	220	460/470	16-Φ23 16-Φ28	960
400	102	731	400	270	250	515/525	16-Φ28 16-Φ31	1500
450	114	777	422	270	250	565/585	20-Φ28 20-Φ31	2000
500	127	868	480	300	280	620/650	20-Φ28 20-Φ34	2500
600	151	1021	562	300	280	725/770	20-Φ31 20-Φ37	4100

check valve



HC-25081

Bronze Swing Check Valve ***PN20***



Feature & Benefits

- Robust and high quality bronze body
- Check valves permit flow in one direction only and close automatically if flow reverses
- Entirely automatic in action, depending upon pressure and velocity of flow within the line to perform their functions of opening and closing
- Lift Check Valves should only be used in horizontal pipe runs

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 30 bar
	Seat: 22 bar

Materials

NO.	PART	Materials
1	Body	Bronze C83600
2	Gate	Bronze C83600
3	Bonnet	Bronze C83600
4	Name plate	AL
5	Washer	PTFE
6	Plug	Stainless Steel
7	Scew	Brass

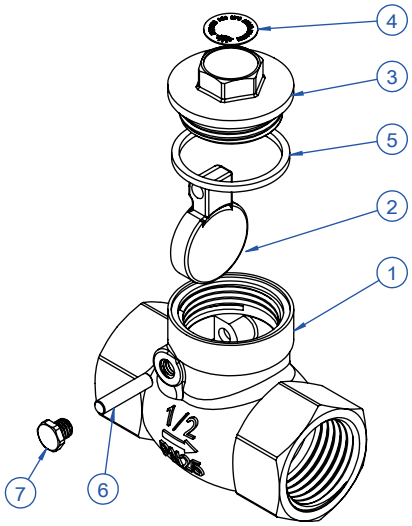
Dimensions

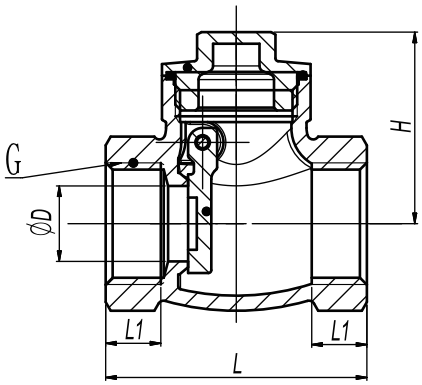
SIZE (inch)	L (mm)	L1 (mm)	H (mm)	D (mm)
1/2"	53	14	33	13
3/4"	62	15	40	17
1"	71	17	47	23
1-1/4"	88	20	54	28
1-1/2"	95	20	61	33
2"	116	24	72	45

Connection Standard

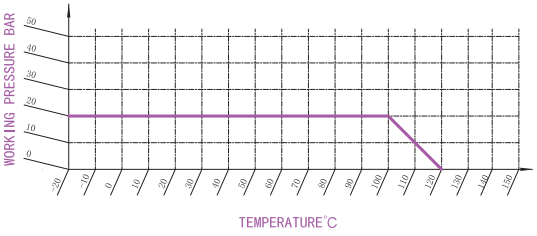
- US END CONNECTION: ANSI B1.20.1
- ISO228-1 parallel thread
- Medium: Water
- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21

Dimensional Drawing





Pressure & temperature ratings



HC-04033DR

DZR Swing Check Valve **PN20**



Feature & Benefits

- Check valves permit flow in one direction only and close automaically if flow reverses
- Entirely automatic in action, depending upon pressure and velocity of flow within the line to perform their functions of opening and closing
- Check Valves should only be used in horizontal pipe runs
- CW617N material is available HC-04033

Pressure & Temperature

Temperature	Hydraulic
-20°C+ 120°C	Shell : 30bar
	Seat : 22bar

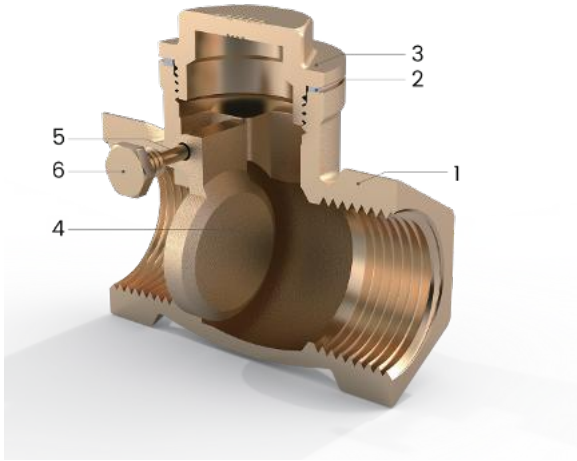
Connection Standard

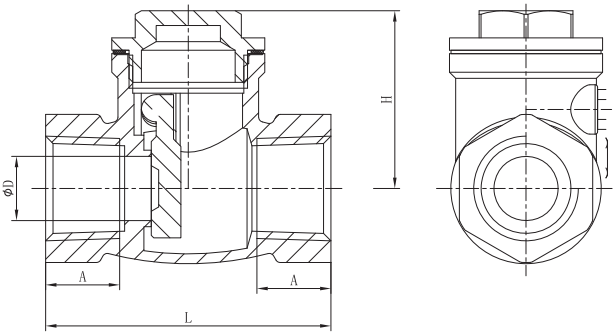
- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Washer	EPDM
3	Bonnet	DZR Brass CW602N
4	Gate	DZR Brass CW602N
5	Pin	Brass
6	Screw	Brass

Dimensional Drawing

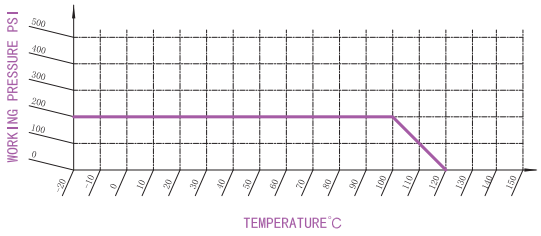




Dimensions

SIZE (inch)	A	B (mm)	C (mm)	L (mm)	H (mm)
1/2"	1/2"	15	12	49	33
3/4"	3/4"	18	12	54	37
1"	1"	23	14	69	44
1-1/4"	1-1/4"	30	14	76	54
1-1/2"	1-1/2"	36	15	85	62
2"	2"	44	15	94	70

Pressure & temperature ratings



HC-12051DR

DZR Vertical Check Valve ***PN25***

Feature & Benefits

- ACS Certified
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Stainless steel springs
- Brass core
- CW617N material is available HC-12051



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 90°C	Shell: 37.5bar
	Seat: 27.5bar

Connection Standard

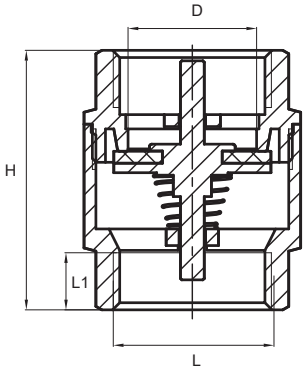
- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Spring	Stainless Steel
3	Core	Brass
4	Rubber mat	EPDM
5	Bonnet	DZR Brass CW602N

Dimensional Drawing

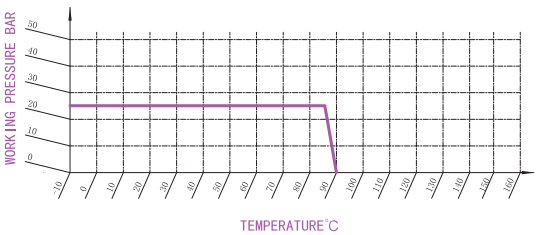




Installation Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	D (mm)
1/2"	1/2	10	45	17
3/4"	3/4	10	49	21
1"	1	12	54.50	27
1-1/4"	1 1/4	12.50	57.50	35
1-1/2"	1 1/2	14.50	66	42
2"	2	15	73	54

Pressure & temperature ratings



HC-12051FDR

DZR Foot Valve ***PN25***



Feature & Benefits

- ACS Certified
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Stainless steel springs
- Brass core
- ABS pin and washer
- EPDM sealing washer
- Stainless steel screw in filter
- CW617N material is available HC-12051F

Pressure & Temperature

Temperature	Hydraulic
-10°C+ 90°C	Shell : 37.5bar
	Seat : 27.5bar

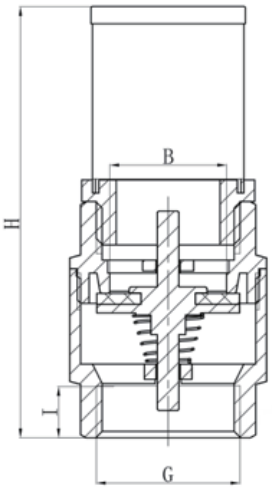
Connection Standard

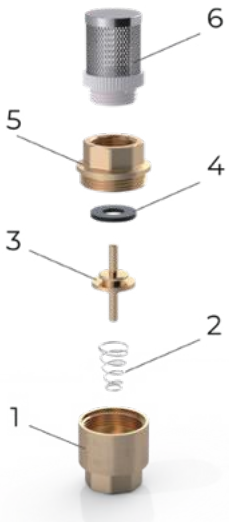
- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Spring	Stainless Steel
3	Core	Brass
4	Rubber mat	EPDM
5	Bonnet	DZR Brass CW602N
6	Filter	Stainless Steel

Dimensional Drawing



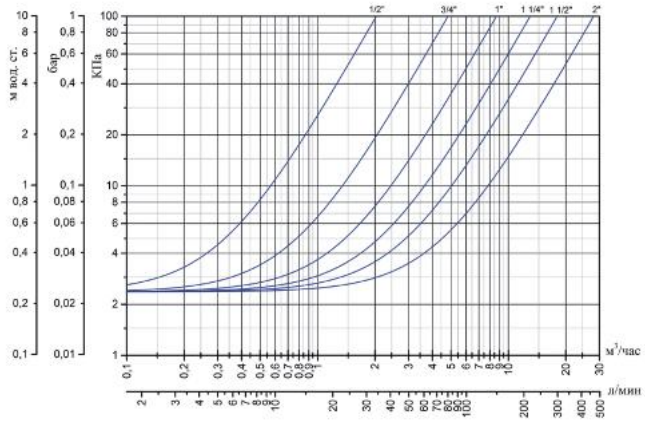


Installation Dimensions

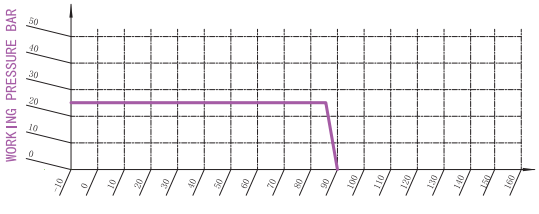
SIZE (inch)	H (mm)	i (mm)	B (mm)
1/2"	77	10	17
3/4"	84	10	21
1"	100	12	27
1-1/4"	109	13	35
1-1/2"	125	15	42
2"	141	15	54

FLOW DIFFERENCE CHARACTERISTIC OF CLEANING FILTER

SIZE (inch)	Cv	Kv
1/2"	3.35	2.03
3/4"	5.59	4.82
1"	10.03	8.65
1-1/4"	15.08	13
1-1/2"	20.88	18
2"	32.48	28



Pressure & temperature ratings



HC-12071

Bronze Spring Check Valve ***150 PSI***

Feature & Benefits

- Stainless steel springs
- Bronze core



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 225 PSI
	Seat: 150 PSI

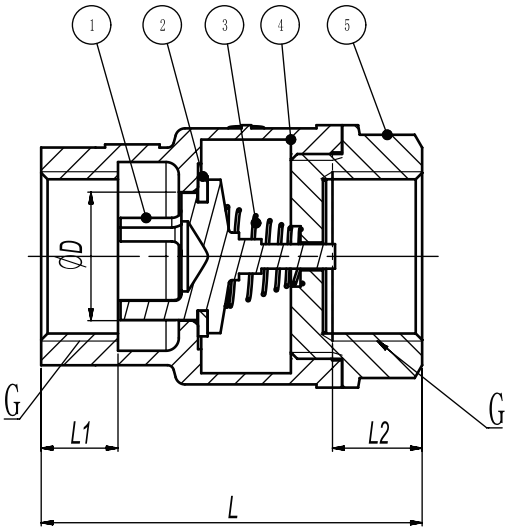
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	DISC	Bronze C83600
2	Seal ring	EPDM
3	Spring	304SS
4	Body	Bronze C83600
5	Bonnet	Bronze C83600

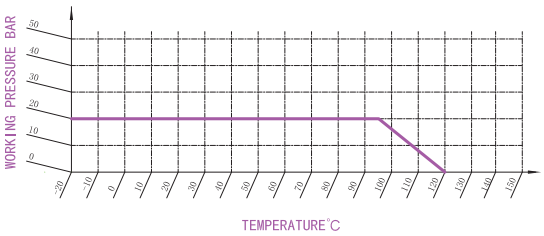
Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	G
1/2"	52	11	13	Φ15	1/2"
3/4"	60	12	14	Φ20	3/4"
1"	70	14	17	Φ25	1"
1-1/4"	78	18	18	Φ32	1-1/4"
1-1/2"	85	18	19	Φ40	1-1/2"
2"	98	19	22	Φ50	2"

Pressure & temperature ratings



HC-12071F

Bronze Foot Valve ***150 PSI***

Feature & Benefits

- Stainless steel springs
- Bronze core



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 110°C	Shell: 225 PSI
	Seat: 150 PSI

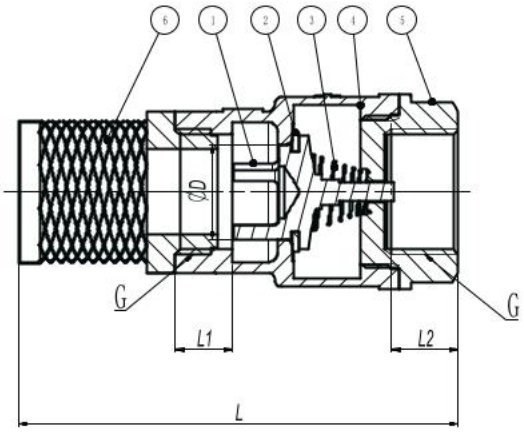
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	DISC	Bronze C83600
2	Seal ring	EPDM
3	Spring	304SS
4	Body	Bronze C83600
5	Bonnet	Bronze C83600
6	Filter mesh	304SS

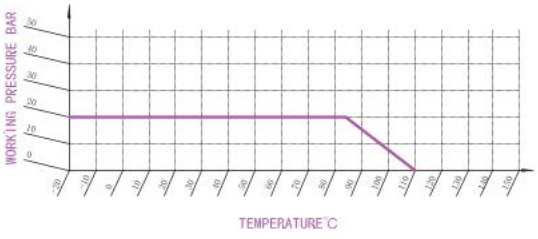
Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	G
1/2"	85	11	13	Φ15	1/2"
3/4"	93	12	14	Φ20	3/4"
1"	112	14	17	Φ25	1"
1-1/4"	126	18	18	Φ32	1-1/4"
1-1/2"	167	18	19	Φ40	1-1/2"
2"	179	19	22	Φ50	2"

Pressure & temperature ratings



HC-92001

Foot Valve ***PN16***

Feature & Benefits

- Temperature range: 0℃ - 80℃
- Ductile iron body
- Fusion bonded epoxy coating
- Design to BS5153



Test Pressure & Temperature

Temperature	Hydraulic
0°C to 80°C	Shell: 24 bar
	Seat: 17.6 bar

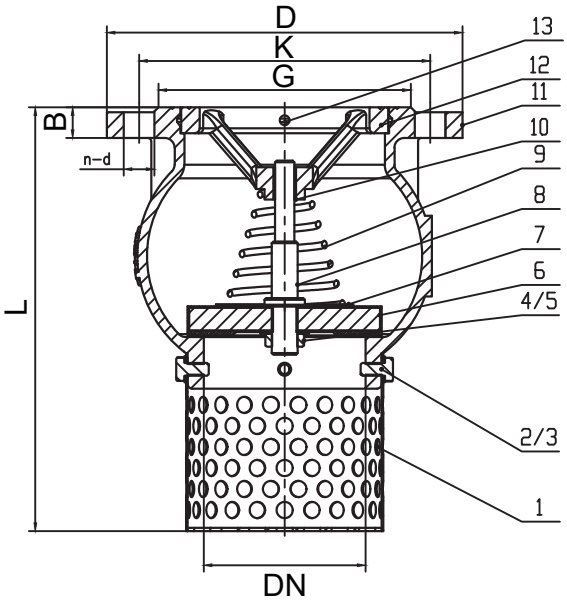
Connection Standard

- End flange: EN1092-2

Materials

NO.	PART	Materials
1	Filter mesh	304 stainless steel
2	Hex head bolt	Stainless steel
3	Flat washer	Stainless steel
4	Hex nut	Stainless steel
5	Flat washer	Stainless steel
6	Valve core	Q235 steel + NBR
7	Flat washer	Stainless steel
8	Valve shaft	Stainless steel
9	Spring	Stainless steel
10	Shaft sleeve	Copper
11	Body	Ductile iron
12	Bonnet	Ductile iron
13	Screw	Stainless steel

Dimensional Drawing



Dimensions

DN	L	1.0MPa					1.6MPa				
		D	K	G	n-d	B	D	K	G	n-d	B
50	171	165	125	99	4-19	19	165	125	99	4-19	19
65	185	185	145	118	4-19	19	185	145	118	4-19	19
80	213	200	160	132	8-19	19	200	160	132	8-19	19
100	270	220	180	156	8-19	19	220	180	156	8-19	19
125	304	250	210	184	8-19	19	250	210	184	8-19	19
150	391	285	240	211	8-23	19	285	240	211	8-23	19
200	493	340	295	266	8-23	20	340	295	266	12-23	20
250	630	405	350	319	12-23	22	405	355	319	12-28	22
300	644	460	400	370	12-23	25	260	410	370	12-28	25
350	613	505	460	429	16-23	25	520	470	429	16-28	27
400	682	565	515	480	16-28	25	580	525	480	16-31	28
450	764	615	565	530	20-28	26	640	585	548	20-31	30
500	811	670	620	582	20-28	27	715	650	609	20-34	32
600	922	780	725	682	20-31	30	840	770	720	20-37	36

HC-10153

DZR Double Check Valve ***PN16***

Feature & Benefits

- WRAS Approved for use with wholesome (potable) water to 60°C
- Double check valves are used to prevent the risk of backflow and back siphonage contamination in domestic dwellings, public and commercial buildings
- With a maximum inlet/working pressure of 16 bar
- Compliant with BS EN 13959 ‘Anti- pollution check valves’ family E type D



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 85°C	Shell: 24bar
	Seat: 17.6bar

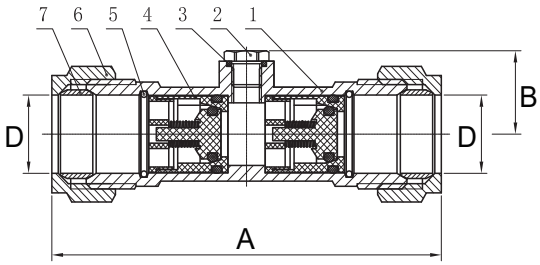
Connection Standard

- Compression version supplied with ends complying with BS EN 1254-2

Materials

NO.	PART	Materials
1	Body	DZR CW602N
2	Test Plug	CW617N
3	O ring	EPDM
4	Cartridge	/
5	Circlip	Stainless steel
6	Nut	DZR CW602N
7	Ring	Brass

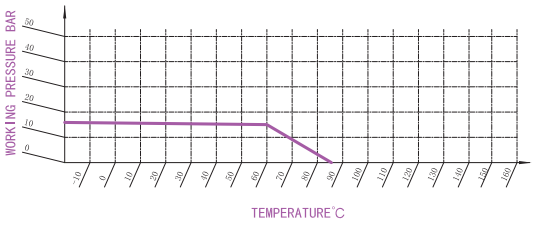
Dimensional Drawing



Dimensions

Size (inch)	A (mm)	B (mm)	D (mm)
15mm	78	16	15
22mm	105	23	22
28mm	125	23	28
35mm	136	30	35
42mm	154	34	42
54mm	193	40	54

Pressure & temperature ratings



HC-C10152

DZR Double Check Valve ***PN16***

Feature & Benefits

- WRAS Approved for use with wholesome (potable) water to 85°C
- Double check valves are used to prevent the risk of backflow and back siphonage contamination in domestic dwellings, public and commercial buildings
- With a maximum inlet/working pressure of 16 bar
- Compliant with BS EN 13959 'Anti- pollution check valves' family E type D



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 85°C	Shell: 24bar
	Seat: 17.6bar

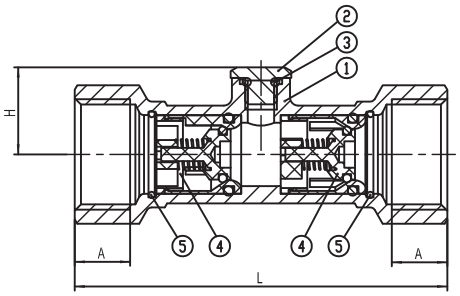
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Screw	Brass
3	O ring	EPDM
4	Cartridge	/
5	Circlip	Stainless Steel

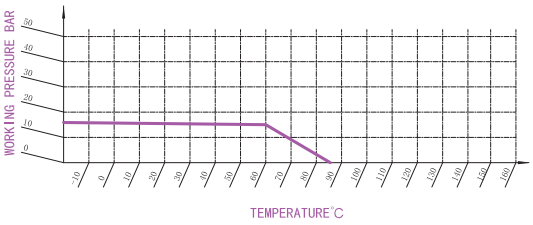
Dimensional Drawing



Dimensions

Size (inch)	A (mm)	L (mm)	H (mm)
1/2"	13	75	17
3/4"	15	84	20
1"	16	108	23
1 1/4"	17	118	30
1 1/2"	19	137	34
2"	23	178	40

Pressure & temperature ratings



HC-90901

Wafer Check Valve **PN16**

Feature & Benefits

- Self-acting , spring assisted , closure
- Dual plate wafer pattern
- Cast iron body
- Fusion bonded epoxy coating



Test Pressure & Temperature

Temperature	Hydraulic
0°C to 80°C	Shell: 24 bar
	Seat: 17.6 bar

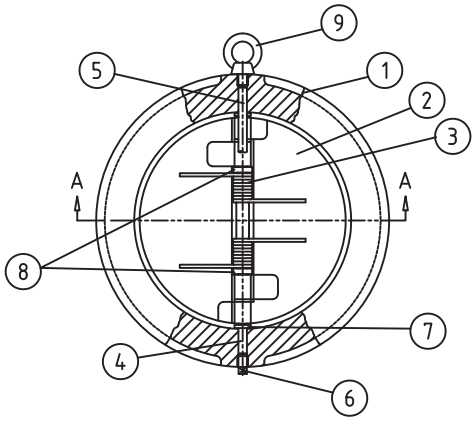
Connection Standard

- Face to face dimention to BS EN 558-1
- Tests to EN 12334

Material

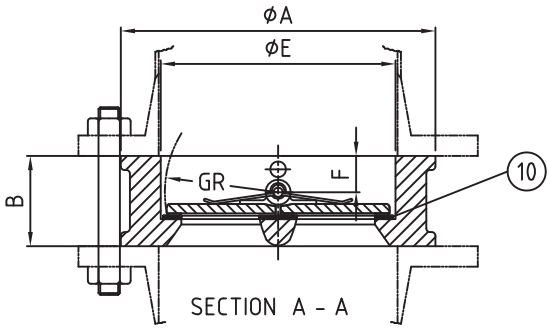
NO.	Part	Material
1	Body	DI
2	Plate	CF8
3	Spring	Stainless Steel
4	Hinge PIN	Stainless Steel
5	Stop PIN	Stainless Steel
6	Plug	Carbon Steel
7	Body Bearing	PTFE
8	Spring Bearing	PTFE
9	Bolt	Carbon Steel
10	Body Seat	EPDM

Dimensional Drawing



Dimensions

SIZE DN	A	E	B	GR	F
DN50	107	65	43	28.8	19
DN65	127	80	46	36.1	20
DN80	142	94	64	43.4	28
DN100	162	117	64	52.8	27
DN125	192	145	70	65.7	30
DN150	218	170	76	78.6	31
DN200	273	224	89	104.4	33
DN250	328	265	114	127	50
DN300	382	310	114	148.3	43
DN350	442	360	127	172.4	45
DN400	495	410	140	197.4	52
DN450	555	450	152	217.8	58
DN500	617	505	152	241	58
DN600	734	624	178	295.4	73



HC-90911

Swing Check Valve ***PN16***

Feature & Benefits

- Cast Iron with integral flanges
- Horizontal or vertical fixing
- Ductile iron bonnet
- Cast Iron/Ductile iron body
- WRAS approved Non- Metal parts
- WRAS approved coating



Test Pressure & Temperature

Temperature	Hydraulic
0°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

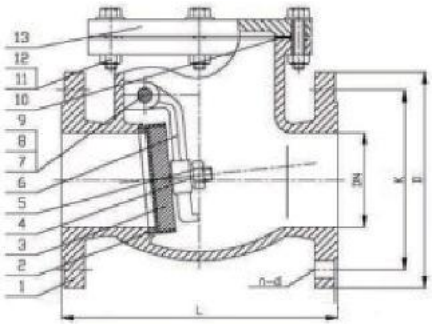
Connection Standard

- Face to face dimention to BS EN 558-1
- Flanged to EN 1092-2
- Tests to EN 12334

Material

NO.	Part Name	Material	Standard
1	Body	GGG50	DIN1691/DIN1693
2	Seat Ring	Brass/Bronze	EN12167
3	Disc Ring	Brass/Bronze	EN12167
4	Washer	Carbon Steel	EN10083-2/ASTM A29
5	Locking Nut	Carbon Steel	EN10083-2/ASTM A29
6	Arm	Ductile Iron	DIN1693/BS EN1563
7	Hing Pin	Stainless Steel	EN10088-1/ASTM A959
8	Plug	Carbon Steel	EN10083-2/ASTM A29
9	Gasket	Nylon	
10	Gasket	NBR	ISO4633
11	Bolt	Carbon Steel	EN10083-2/ASTM A29
12	Nut	Carbon Steel	EN10083-2/ASTM A29
13	Bonnet	Ductile Iron	DIN1691/BS EN1561

Dimensional Drawing



Dimensions

DN	OUTLINE mm			END FLANGE PN10/PN16-CL125/150 mm								
	BS 5153	ASME B16.10	DIN -F6	EN1092-2			ASME B16.1/B16.42			AS4087		
	L			D	K	n-d	D	K	n-d	D	K	n-d
40	165	165	180	150	110	4-Φ16	127	98.5	4-Φ16	-	-	-
50	203	203	200	165	125	4-Φ19	152	120.5	4-Φ19	-	-	-
65	216	216	240	185	145	4-Φ19	178	139.5	4-Φ19	-	-	-
80	241	241	260	200	160	4-Φ19	191	152.5	4-Φ19	185	146	4-Φ18
100	292	292	300	220	180	8-Φ19	229	190.5	8-Φ19	215	178	4-Φ18
125	330	330	350	250	210	8-Φ19	254	216	8-Φ22	-	-	-
150	356	356	400	285	240	8-Φ23	279	241.5	8-Φ22	280	235	8-Φ18
200	495	495	500	340	295	8-Φ23/12-Φ23	343	298.5	8-Φ22	335	292	8-Φ18
250	622	622	600	395/405	350/355	12-Φ23/12-Φ28	406	362	12-Φ25	405	356	8-Φ22
300	698	699	700	445/460	400/410	12-Φ23/12-Φ28	483	432	12-Φ25	455	406	12-Φ22
350	787	787	800	505/520	460/470	16-Φ23/16-Φ28	533	476	12-Φ28	525	470	12-Φ26
400	914	914	900	565/580	515/525	16-Φ28/16-Φ31	597	540	16-Φ28	580	521	12-Φ26
450	965	965	1000	615/640	565/585	20-Φ28/20-Φ31	635	578	16-Φ32	640	584	12-Φ26
500	1067	1067	1100	670/715	620/650	20-Φ28/20-Φ34	699	635	20-Φ32	705	641	16-Φ26
600	1219	1219	1300	780/840	725/770	20-Φ31/20-Φ37	813	749	20-Φ35	825	756	16-Φ30

Y pattern strainer



HC-30822DR

DZR Y Pattern Strainer ***PN20***



Feature & Benefits

- WRAS Certified
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- "Y" pattern strainer is a very necessary device in pipe systems networks. Its main purpose is to filter out impurities,dirt and foreign bodies, preventing all of these clog or deteriorate the devices that are installed downstream of the strainer itself.
- CW617N Material is available HC -30822

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 30 bar
	Seat: 22 bar

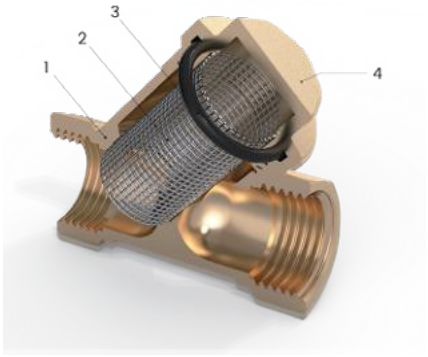
Connection Standard

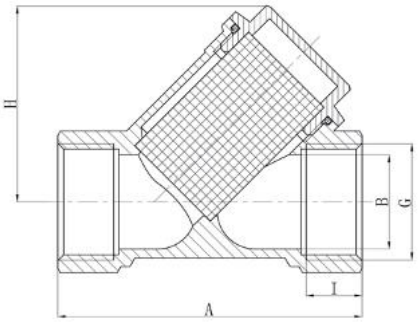
- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Filter	Stainless Steel
3	Washer	EPDM
4	Bonnet	DZR Brass CW602N

Dimensional Drawing



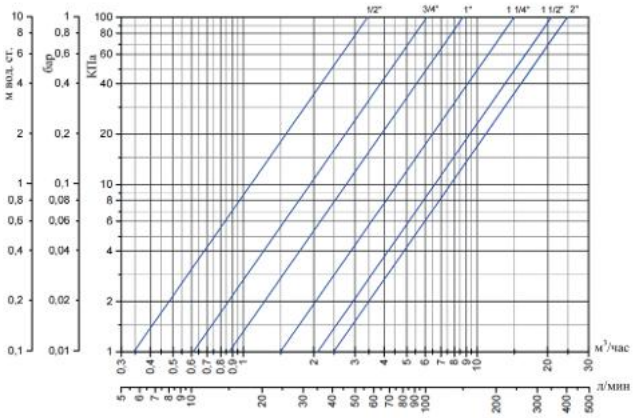


Dimensions

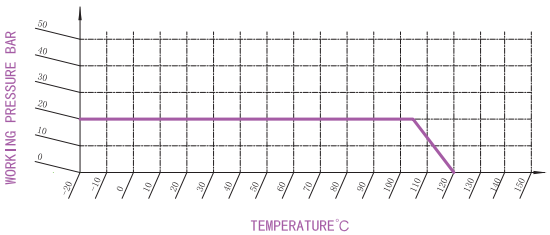
SIZE (inch)	A (mm)	L (mm)	B (mm)	H (mm)
1/2"	58	11	17	40
3/4"	70	16	23	48
1"	87	18	28	56
1-1/4"	96	19	35	67
1-1/2"	106	19	42	75
2"	126	21	55	90

FLOW-DIFFERENCE CHARACTERISTIC OF A CLEANING FILTER

SIZE (inch)	Cv	Kv
1/2"	3.9	3.4
3/4"	7.1	6.1
1"	10.1	8.7
1-1/4"	16.7	14.4
1-1/2"	24.13	20.8
2"	28.19	24.3



Pressure & temperature ratings



HC-06181

Bronze Y Pattern Strainer ***PN25***

Feature & Benefits

- Robust and high quality bronze body with integral seating surfaces.
- Eliminate the problems caused by foreign matter within piping systems
- Perforated stainless steel screen with robust design, low flow resistance and high quality materials
- 0.75mm screen perforations



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5bar
	Seat: 27.5bar

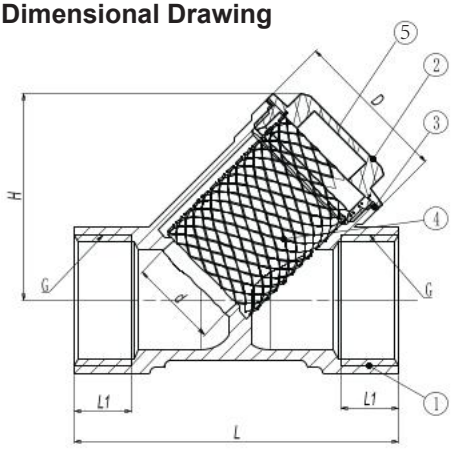
Connection Standard

- US END CONNECTION: ANSI B1.20.1
- ISO228-1 parallel thread
- Medium: Water
- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21

Material

NO.	Part	Material
1	Body	Bronze C83600
2	Bonnet	Bronze C83600
3	Gasket	PTFE
4	Filter Mesh	Stainless Steel
5	Name Plate	AL

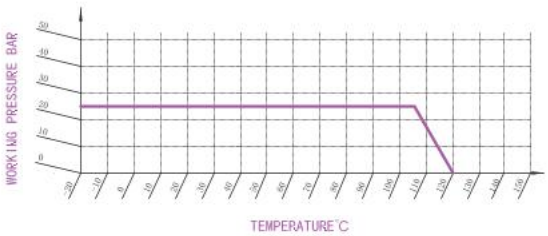
Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	D (mm)
1/2"	65	13	39	Φ14	29
3/4"	72	13	45	Φ19	34
1"	84	14	54	Φ24	41
1-1/4"	97	16	66	Φ30	50
1-1/2"	108	17	76	Φ34	55
2"	128	19	91	Φ47	69

Pressure & temperature ratings



HC-91201

Flanged Y Strainer ***PN16***

Feature & Benefits

- Temperature: 0°C~120°C
- Medium: Clear, sewage, air
- Fusion bonded epoxy



Test Pressure & Temperature

Temperature	Hydraulic
0°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

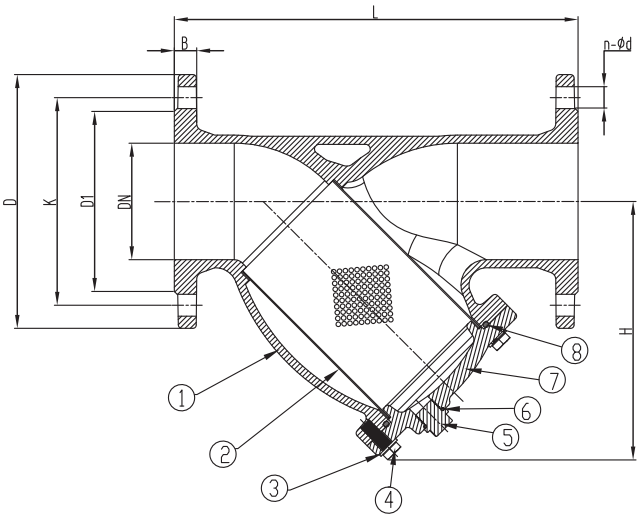
Connection Standard

- Face to face: DIN3202-F1
- End flange: EN1092-2
- Tests to EN 12266

Material

NO.	Part Name	Material
1	Body	GGG50
2	Screen	Stainless Steel
3	Flat Washer	Stainless Steel
4	Bolts	Stainless Steel
5	Plug	Stainless Steel
6	O-Ring	EPDM
7	Bonnet	Ducitile Iron
8	O-Ring	EPDM

Dimensional Drawing



Dimensions

DN	OUTLINE mm		Flange Dimension(EN1092-2,BS4504)PN16					Perforation Dia (mm)
	H	DIN3202-F1 L	D	K	n-d	D1	B	
40	120	200	150	110	4-Φ19	Φ84	19	Φ1.5
50	140	230	165	125	4-Φ19	Φ99	19	Φ1.5
65	175	290	185	145	4-Φ19	Φ118	19	Φ1.5
80	200	310	200	160	8-Φ19	Φ132	19	Φ1.5
100	225	350	220	180	8-Φ19	Φ156	19	Φ1.5
125	260	400	250	210	8-Φ19	Φ184	19	Φ1.5
150	310	480	285	240	8-Φ23	Φ211	19	Φ1.5
200	390	600	340	295	12-Φ23	Φ266	20	Φ1.5
250	480	730	405	350	12-Φ28	Φ319	22	Φ1.5
300	560	850	460	400	12-Φ28	Φ370	25	Φ1.5

pressure reducing valve



HC-50902

Brass Pressure Reducing Valve ***PN25***

Feature & Benefits

- WRAS Certified
- Europe Brass CW617N
- Maximum inlet pressure 25 bar
- adjustable outlet 0.5 bar to 6 bar
- nickel plated brass finish
- two outlet gauge points
- Maximum inlet tempreture



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 85°C	Shell: 37.5 bar
	Seat: 27.5 bar

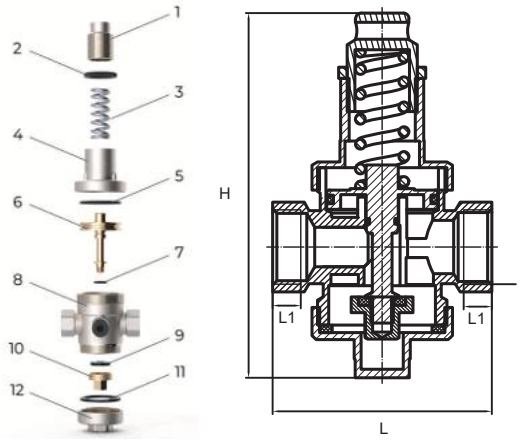
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Adjustable Nut	Brass CW617N
2	O-Ring	EPDM
3	Spring	AISI 304
4	Bonnet	Brass CW617N
5	O-Ring	EPDM
6	Screw Rod	Brass
7	O-Ring	EPDM
8	Body	Brass CW617N
9	Gasket	EPDM
10	Plug	Brass
11	Gasket	EPDM
12	End Cap	Brass CW617N

Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)
1/2"	70	14.5	121
3/4"	80	14.5	121
1"	85	15	141
1 1/4"	105	17	159
1 1/2"	115	18.5	159
2"	120	22	175

HC-17042

DZR Pressure Reducing Valve ***PN16***

Feature & Benefits

- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Maximum inlet pressure 25 bar
- Adjustable outlet 0.1 bar to 0.6 bar
- Nickel plated brass finish



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 85°C	Shell: 24 bar
	Seat: 17.6 bar

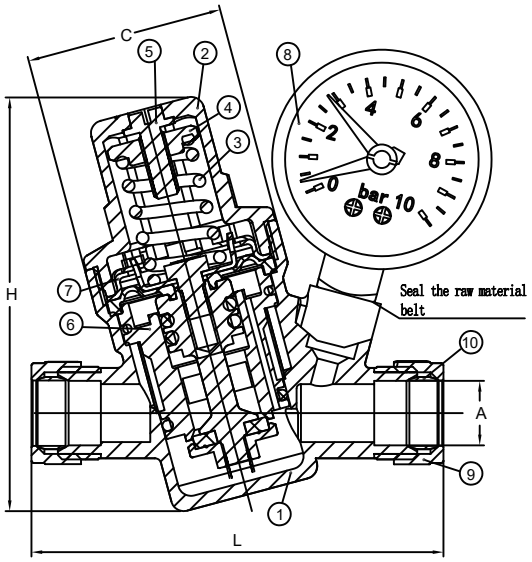
Connection Standard

- ISO228-1 parallel thread
- Medium: Water
- Compression version supplied with ends complying with BS EN 1254-2

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Bonnet	DZR Brass CW602N
3	Spring	Stainless Steel
4	Adjustable Nut	Brass
5	Adjustable Bolt	Brass
6	Component	Brass
7	Gasket	Stainless Steel
8	Pressure Gauge	/
9	Nut	Brass
10	Capsule	H65

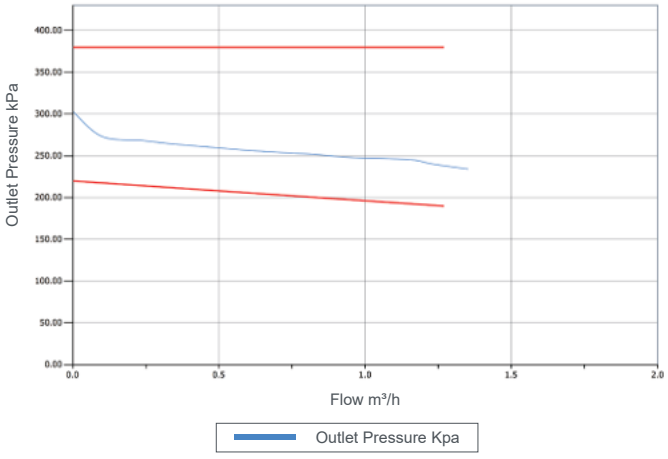
Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	H (mm)	C (mm)
15	96	96	Φ46
22	104	96	Φ46

Outlet Pressure and Flow Ratings



HC-91701

Pressure Reducing Valve *PN16*



Feature & Benifits

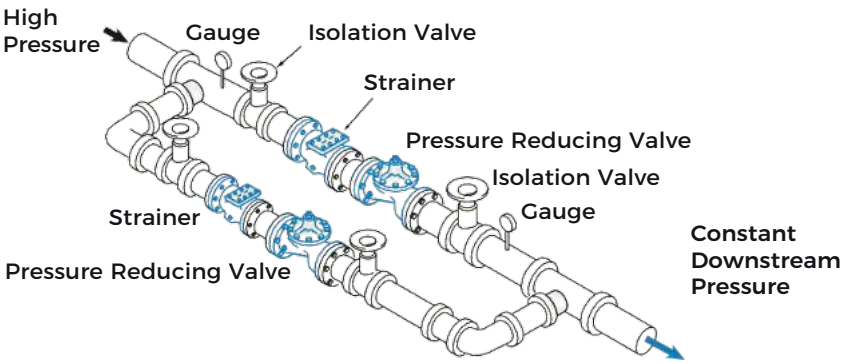
- Pressure Reducing Valve controls and maintains a preset
- reduced outlet pres sure despite varying inlet pressures.
- Downstream pressure setting is always below upstream pressure.
- The outlet pressure can be adjusted at any time by removing the tamperproof cover on the pilot valve and rotating the hexagon screw. Turn clockwise to increase the pressure.
- Accurate downstream pressure characteristics
- Compact, with no large springs
- Controllable, ancillary pilot valves control main valve.
- Two factory fitted pressure gauges are supplied with each PRV, which indicate the supply and outlet pressure. Gauge isolating valves are provided for extra security and maintenance.
- A strainer should be installed upstream of the Pressure Reducing Valve. Upstream and downstream Servicing valves (Gate Valve) are strongly recommended to avoid draining for maintenance.

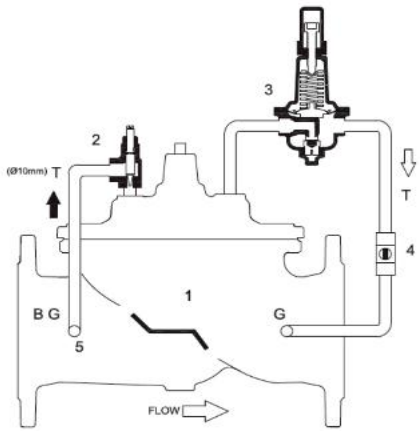
Applications

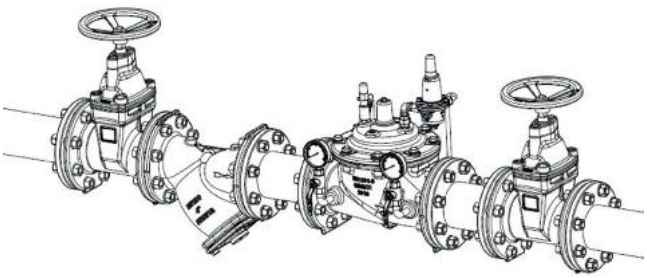
- Reducing excessive mains pressure
- Controlling pump outlet pressure
- Pressure regulation per floor
- Water conservation

Installation

- Confirm the flow direction of pipeline must meet the arrow of Pressure Reducing Valve.
- Enough space for adjustments and disassembly.
- Install the isolation valves in both inlet and outlet of Pressure Reducing Valve.
- Install the strainer before Pressure Reducing Valve.
- better function if the valve is installed horizontally.
- After installation, clean the pipeline and strainer.



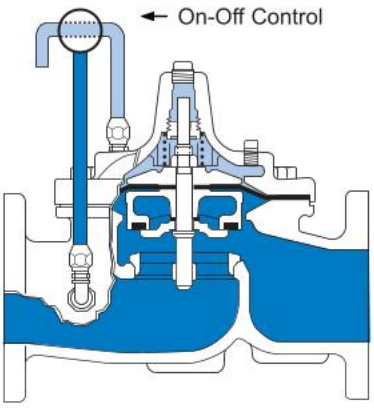




General parts

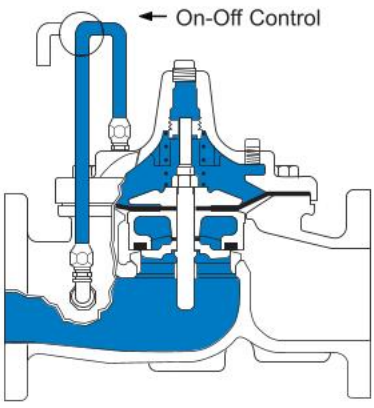
- Main valve
- Throttle
- Needle valve
- Pressure reducing
- Pilot valve
- Ball valve
- Filiter

Principle of Operation



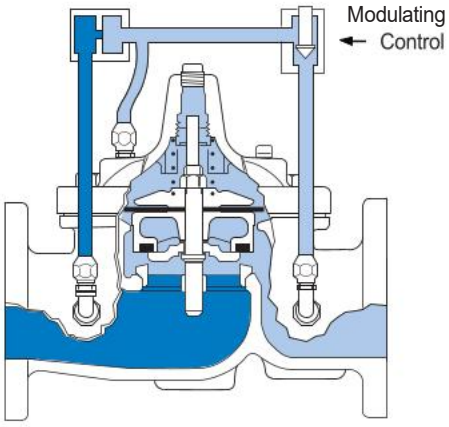
Full Open Operation

When pressure in the cover chamber is relieved to a zone of lower pressure, the line pressure at the valve inlet opens the valve, allowing full flow.



Tight Closing Operation

When pressure from the valve inlet is applied to the cover chamber, the valve closes drip-tight.



Modulating Action

The valve holds any intermediate position when operating pressures are equal above and below the diaphragm. Pilot Control will allow the valve to automatically compensate for line pressure changes.

Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 80°C	Seat: 24 bar
	Seat: 17.6 bar

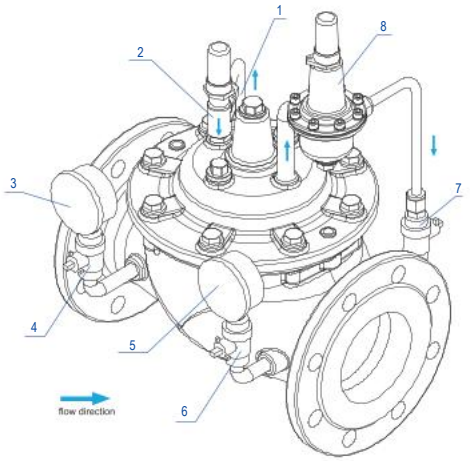
Connection Standard

- Face to face dimensions to EN558 Series S1
- Flanged to EN1092-2 / BS4504 - PN 16 ASME B16.1/16.42
- Design and manufacture as per EN1074-1&5,EN1349, EN12266-1&2

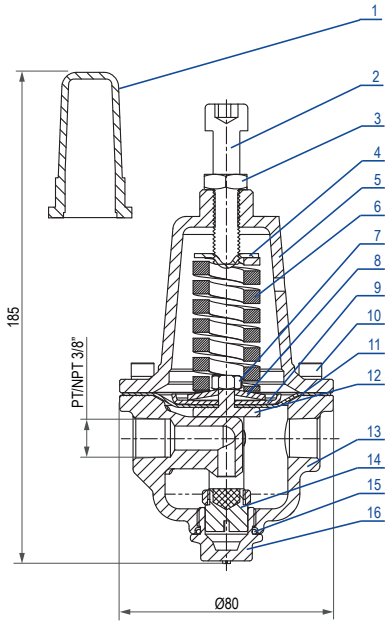
Materials

NO.	Part	Materials
1	Y-Strainer	Stainless Steel 304
2	Needle Valve	Stainless Steel 304
3	Pressure Gauge	Stainless Steel 304
4	2-Way Ball Valve	Stainless Steel 304
5	Pressure Gauge	Stainless Steel 304
6	2-Way Ball Valve	Stainless Steel 304
7	2-Way Ball Valve	Stainless Steel 304
8	Pressure Reducing Pilot	Stainless Steel 304

Dimensional Drawing

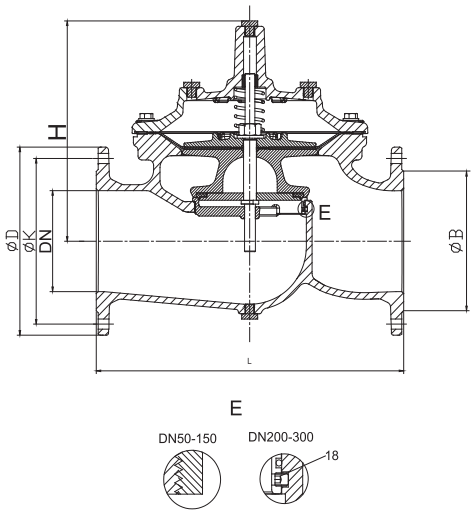


NO.	Part	Materials
1	Cap	ABS
2	Adjusting screw	Stainless steel
3	Jam nut	Stainless steel
4	Spring guide	Stainless steel
5	Bonnet	Stainless steel
6	Spring	Cr-VA
7	Nut	A2
8	Washer	A2
9	Fixing Holder	Stainless steel
10	Screw	A2
11	Diaphragm	NBR+Nylon
12	Yoke	Stainless steel
13	Body	Stainless steel
14	Disc	SUS304+NBR
15	Gasket	PTFE
16	Plug	Stainless steel

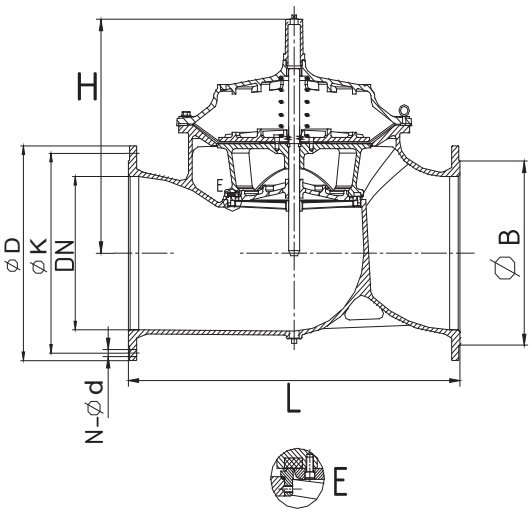


Dimensions

DN	L	H	ΦD	ΦK	N-Φd	ΦB
			PN16	PN16	PN16	PN16
50	230	177	165	125	4-Φ19	Φ99
65	290	202	185	145	4-Φ19	Φ118
80	310	219	200	160	8-Φ19	Φ132
100	350	243	220	180	8-Φ19	Φ156
125	400	243	250	210	8-Φ19	Φ156
150	480	333	285	240	8-Φ23	Φ211
200	600	428	340	295	12-Φ23	Φ266
250	730	478	405	355	12-Φ28	Φ319
300	850	538	460	410	12-Φ28	Φ370



DN	L	H	ΦD	ΦK	N-Φd	ΦB
			PN16	PN16	PN16	PN16
350	980	700	520	470	16-Φ28	429
400	1100	710	580	525	16-Φ31	480
450	1200	720	640	585	20-Φ31	548
500	1250	822	715	650	20-Φ34	609
600	1450	885	840	770	20-Φ37	720
700	1650	910	910	840	24-Φ37	720
800	1850	1260	1025	950	24-Φ40	901



commissioning valve



HC-00022

DZR Commissioning Valve ***PN25***

Feature & Benefits

- WRAS Certified
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Regulation, isolation and flow measurement functions
- Handle position indicator
- Meets BS 7350
- Include memory stop
- Include test points



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 85°C	Shell: 37.5 bar
	Seat: 27.5 bar

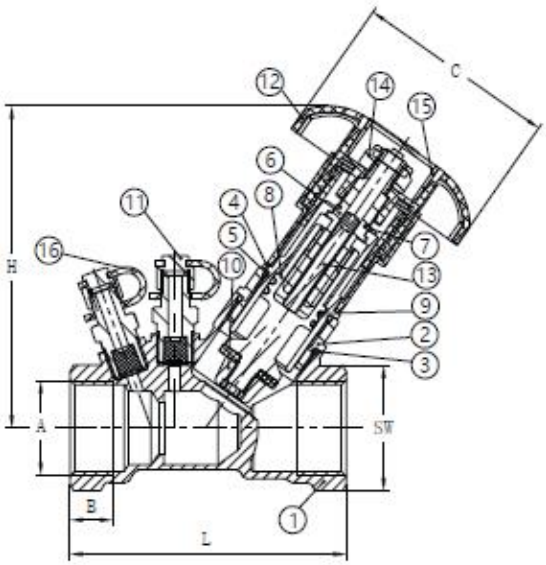
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Connection cap	Brass
3	O-ring	EPDM
4	Bonnet	DZR Brass CW602N
5	O-ring	EPDM
6	Stem	BRASS
7	Circlip	Stainless Steel
8	Sealing plate screw rod	Brass
9	O-ring	EPDM
10	Lower Stem Nut	Brass
11	Binder Point-blue	Brass
12	Handlewheel	PA66
13	Adjusting Screw	Stainless Steel
14	Nylon Locking Nut	Stainless Steel
15	Fastener	ABS
16	Binder Point-red	Brass

Dimensional Drawing



Installation Dimensions

SIZE (inch)	A	L (mm)	H (mm)	B (mm)	C (mm)	SW (mm)
15	1/2"	77	93	13	71	26
20	3/4"	82	100	14	71	31
25	1"	97	114	16.5	71	38
32	11/4"	115	122	20	71	49
40	11/2"	123	133	24.5	71	53
50	2"	145	136	27	71	66

HC-00022O

DZR Brass Commissioning Valve *PN 20*



Feature & Benifits

- WRAS Certified
- Europe Brass DZR
- Regulation, isolation and flow measurement functions
- Y pattern body
- Handle position indicator
- Meets BS 7350
- Include memory stop

Test Pressure & Temperature

Tempreture	Hydraulic
-10°C to 85°C	Shell: 30 bar
	Seat: 22 bar

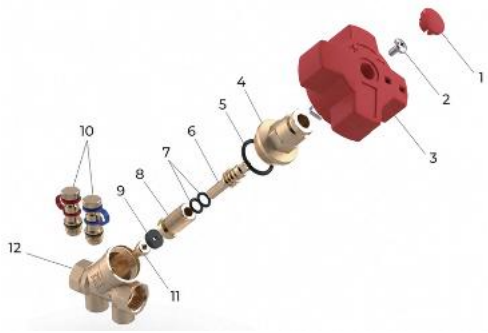
Connection Standard

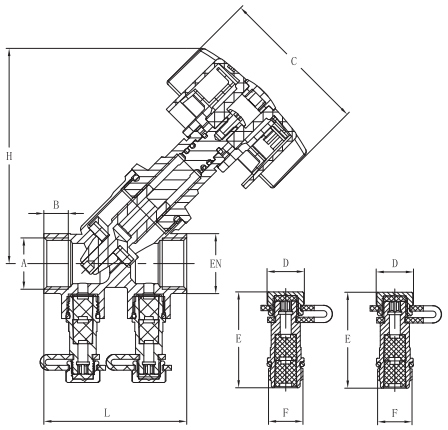
- Medium: Water
- ISO228-1 parallel thread

Materials

NO.	Part	Materials
1	Color Buckle	ABS
2	Phillips flat head screws	304
3	Hand Wheel	ABS
4	Valve Cover	DZR BRASS
5	O-Ring	EPDM
6	Stem	DZR BRASS
7	O-ring	EPDM
8	Water Stop Plate	DZR BRASS
9	O-ring	EPDM
10	Pressure Gauge Joint	DZR BRASS
11	Screw	Screw
12	Body	DZR BRASS

Dimensional Drawing



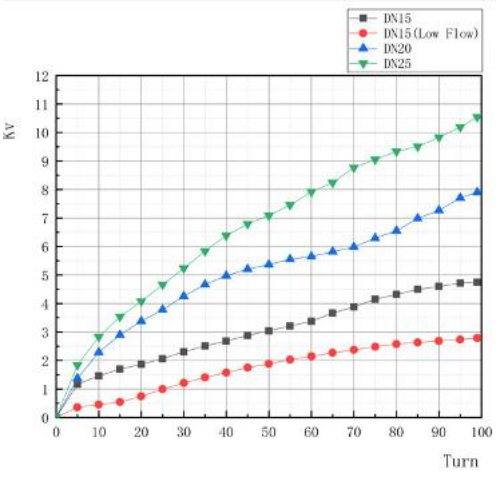


Dimensions

SIZE	B (mm)	L (mm)	A	H (mm)	C (mm)	D (mm)	F	E (mm)	EN (mm)
1/2"	11	59	1/2"	88	70	14	G1/4"	36	25
3/4"	13	69	3/4"	93	70	14	G1/4"	36	31
1"	18	90	1"	99	70	14	G1/4"	36	38

Dimensions

Scale value	Kv value (m°\hour) for DN			
	1/2"	1/2" Low Flow	3/4"	1"
00	0	0	0	0
05	1.167	0.355	1.372	1.838
10	1.458	0.449	2.289	2.828
15	1.695	0.543	2.897	3.536
20	1.869	0.740	3.378	4.070
25	2.065	0.996	3.779	4.667
30	2.302	1.208	4.256	5.233
35	2.508	1.401	4.661	5.840
40	2.678	1.572	4.977	6.380
45	2.875	1.749	5.208	6.788
50	3.042	1.882	5.360	7.091
55	3.213	2.027	5.553	7.454
60	3.374	2.147	5.648	7.920
65	3.665	2.267	5.815	8.242
70	3.874	2.375	5.983	8.768
75	4.148	2.482	6.296	9.051
80	4.319	2.577	6.549	9.334
85	4.492	2.628	6.989	9.509
90	4.594	2.685	7.274	9.829
95	4.721	2.735	7.706	10.191
99	4.747	2.786	7.903	10.548



HC-5000Y

Bronze Commissioning Valve ***PN25***



Feature & Benefits

- Robust and high quality bronze body with integral seating surfaces.
- Regulation , isolation and flow measurement functions
- Y pattern body
- Handle position indicator
- Meets BS 7350
- Include memory stop
- Include test points

Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 85°C	Shell: 37.5 bar
	Seat: 27.5 bar

Material

NO.	Part	Material
1	Body	Bronze C83600
2	Brass Ring	Brass
3	Lower Stem Nut	Brass
4	Lower Seal Gasket	PTFE(M111)
5	DISC	Brass
6	Stem	Brass
7	Stem Nut	Brass
8	O-Ring	EPDM
9	Bonnet	Brass
10	Circlip	SS304
11	Stem Set	Brass
12	Flange Nut	Brass
13	Set Screw	SS304
14	Handlewheel	Assembly
15	Test Cock	Assembly

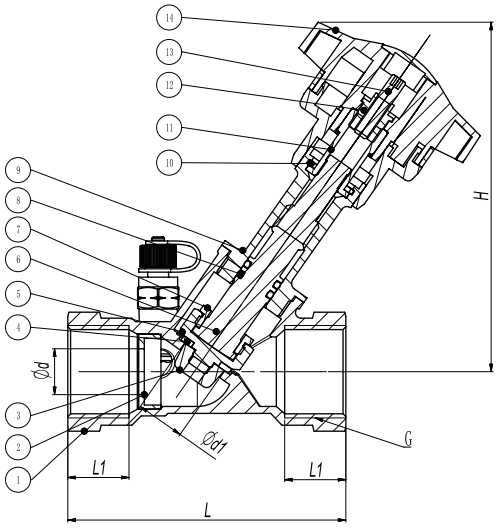
Dimensions

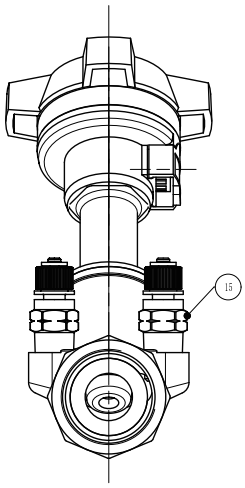
SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	d1 (mm)
1/2"	88	18	102	9	10
3/4"	96	21	105	13	14
1"	100	22	125	17	18
11/4"	114	25	129	23	25
11/2"	125	23	140	29	32
2"	146	30	142	39	39

Connection Standard

- ISO228-1 parallel thread
- Medium: Water
- UK END CONNECTION: Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
- US END CONNECTION: ANSI B1.20.1

Dimensional Drawing





HC-91601

Double Regulating Valve *PN16*

Feature & Benifits

- **Precision Throttling**: Y-pattern design coupled with a characteristic disc provides efficient flow modulation.
- **Double Regulating (DRV) Function**: Facilitates positive shut-off for isolation and guarantees reliable return to a preset balancing point to sustain desired flow rates.
- **System Authority**: Delivers high regulating authority in two-unit systems, ensuring stable control within circuits equipped with flow measurement instruments.
- **Set-and-Forget**: Valve travel can be locked to deliver a specific, predetermined flow coefficient (Kv).
- **Diagnostic Ready**: Equipped with two 1/4" BSPT pressure/temperature test ports for external meter hookups.
- **Micro-Metric Control**: Features a handwheel with an integrated micrometer mechanism for exceptionally precise stem positioning



Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 120°C	Seat: 24 bar
	Seat: 17.6 bar

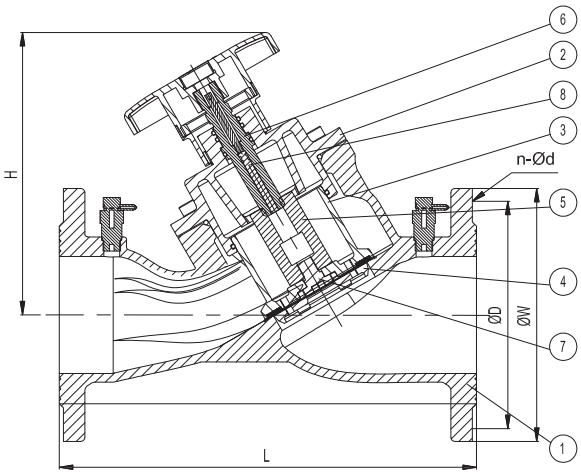
Connection Standard

- Face to face dimensions to BS EN 558-1
- Flanged to EN 1092-2
- Design and manufacture as per BS7350

Materials

NO.	Part	Materials
1	Body	GGG40
2	Bonnet	GGG40
3	Sleeve	GGG40
4	Disc	GGG40
5	Stem Barrel	Brass
6	Stem	Brass
7	Connecting Bolte	Brass
8	Pin	SS304

Dimensional Drawing



Dimensions

Size	L	H	ØW	ØD	n-Ød	Flow(kv)
DN65	290	198	185	145	4-19	90
DN80	310	210	200	160	8-19	115
DN100	350	238	220	180	8-19	202
DN125	400	252	250	210	8-19	258
DN150	480	278	285	240	8-23	373
DN200	600	434	340	295	12-23	637
DN250	730	471	405	355	12-28	1063
DN300	850	504	460	410	12-28	1276

*Fully open position

HC-05022

DZR Test points

Feature & Benefits

- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Self sealing



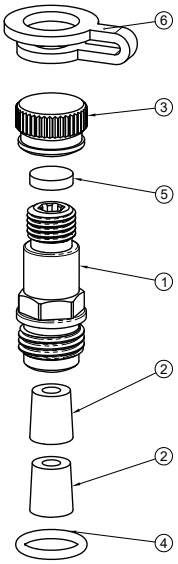
Connection Standard

- ISO 7-1 R thread

Material

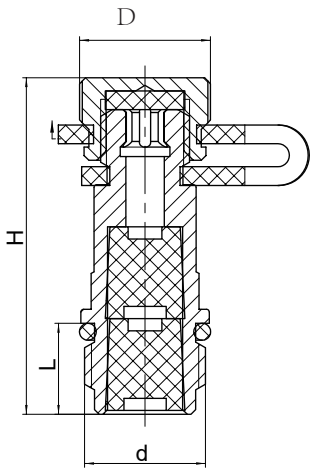
NO.	Part	Material
1	Pressure joint	DZR Brass CW602N
2	Rubber plug	EPDM
3	Lock cap	Brass
4	O-Ring	EPDM
5	Gasket	EPDM
6	Connective band	PVC

Dimensional Drawing



Dimensions

SIZE (inch)	D (mm)	d	H (mm)	L (mm)
1/4"	14	G1/4"	36	10
1/2"	14	G1/2"	72	10



globe valve



HC-13602

Bronze Globe Valve ***150 Lbs***



Feature & Benefits

- Robust and high quality bronze body with integral seating surfaces.
- Renewable PTFE seat disc
- female ends
- BS 5154 series B
- Rising stem
- Gland packed

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 225 Lbs
	Seat: 165 Lbs

Material

NO.	Part	Material
1	Body	Bronze C83600
2	Gate	Bronze C83600
3	Seal Ring	PTFE
4	Bonnet	Bronze C83600
5	Packing Gland	Graphite
6	Brass Ring	Brass
7	Gland Nut	Brass
8	Stem	Brass
9	Handlewheel	Cast Iron
10	Name Plate	Aluminum
11	Handle Nut	Q235

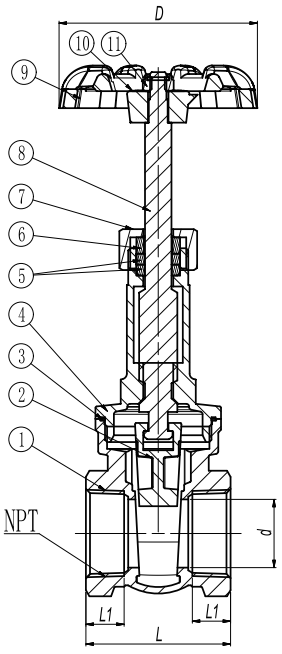
Dimensions

SIZE	NPT	d (mm)	L1 (mm)	L (mm)	D (mm)
15	1/2NPT	13	14	48	58
20	3/4NPT	18	14	51	65
25	1NPT	23	18	60	77
32	11/4NPT	32	19	68	77
40	11/2NPT	38	18	71	97
50	2NPT	49	21	76	110

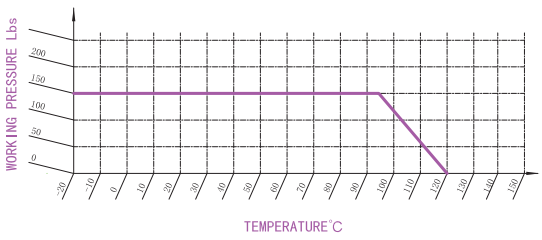
Connection Standard

- US END CONNECTION: ANSI B1.20.1
- ISO228-1 parallel thread
- UK END CONNECTION: Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
- Medium: Water

Dimensional Drawing



Pressure & temperature ratings



HC-13612

Bronze Globe Valve **PN 25**

Feature & Benefits

- Robust and high quality bronze body with integral seating surfaces.
- Renewable non-metallic seat disc
- Female ends
- PTFE gland packed



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 37.5 bar
	Seat: 27.5 bar

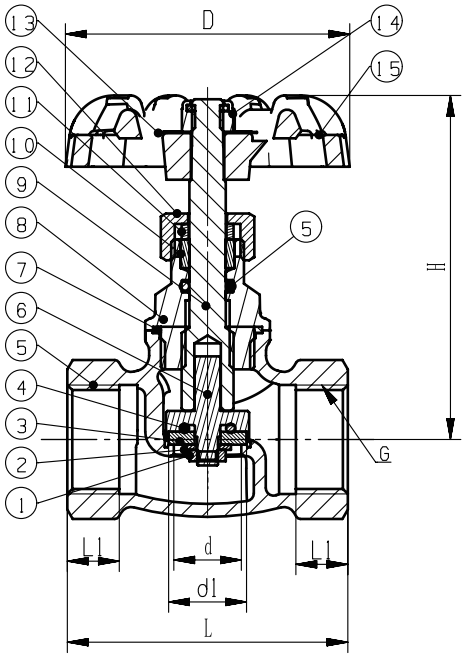
Material

NO.	Part	Material
1	Nut	304 SS
2	Plate	304 SS
3	Lower Seal Gasket	PTFE
4	O-Ring	EPDM
5	Body	Bronze C83600
6	DISC	Brass
7	Seal Ring	PTFE
8	Bonnet	Bronze
9	Stem	Brass
10	Packing Gland	PTFE
11	Brass Ring	Brass
12	Gland Nut	Brass
13	Name Plate	AL
14	Handle Nut	304 SS
15	Handlewheel	HT200

Connection Standard

- US END CONNECTION: ANSI B1.20.1
- ISO228-1 parallel thread
- UK END CONNECTION: Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
- Medium: Water

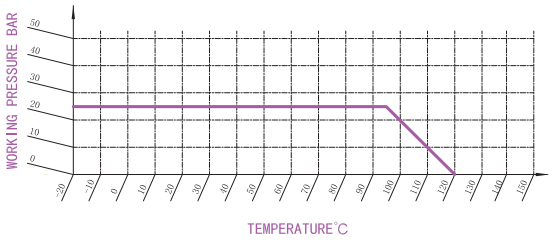
Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	d1 (mm)
1/2"	54	10	67	Φ13	Φ15
3/4"	58	11	67	Φ13	Φ15
1"	66	12	86.5	Φ18.5	Φ21
1-1/4"	75	14.5	86.5	Φ23	Φ25.5
1-1/2"	85	15	97	Φ31	Φ33.5
2"	101	17	109	Φ37	Φ39.5

Pressure & temperature ratings



HC-53021

Concealed Valve *PN16*

Feature & Benifits

- The Quantum Industries Concealed Valve is manufactured in accordance with relevant international quality and safety standards. It is designed to ensure reliable performance, durability, and compliance with general plumbing requirements.
- The Quantum Industries Concealed Valve is used to regulate water flow and temperature in showers or faucets. It provides smooth control while keeping the installation neatly hidden within the wall.



Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 90°C	Seat: 24 bar
	Seat: 17.6 bar

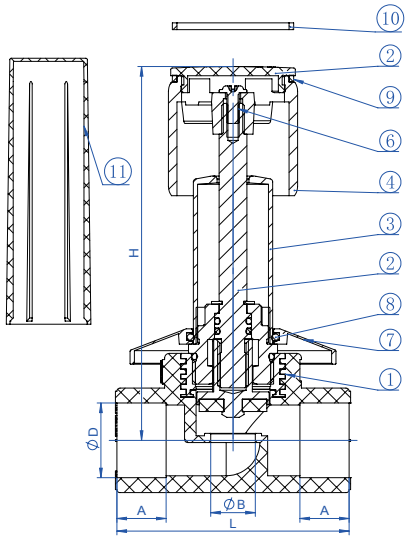
Connection Standard

- Medium: Water

Materials

NO.	Part	Materials
1	Body	Brass
2	Cartridge	Brass
3	Extension	ZINC
4	Handle	ZINC
5	Handle Cover	ABS
6	Screw	Q235
7	Cover	ZINC
8	O-ring	EPDM
9	Marking Circle-Red	PE
10	Marking Circle-Bule	PE
11	Thread Protector	PE

Dimensional Drawing



Dimensions

DN	H (mm)	L (mm)	B (mm)	A (mm)	D (mm)
20	122	75	15	16	19
25	122	77	15	17	24
32	126	80	15	19	31

automatic air vent





HC-21041

Brass Automatic Air Vent

PN10



Feature & Benefits

- Europe brass CW617N
- Removes inevitable potentially dangerous air trapped in system
- Simplifies the venting process
- Saves time and costs
- A shut-off valve option is available in size 1/2 "& 3/8"
- Conforms to design standard BS EN 1074-4

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 15 bar
	Seat: 11 bar

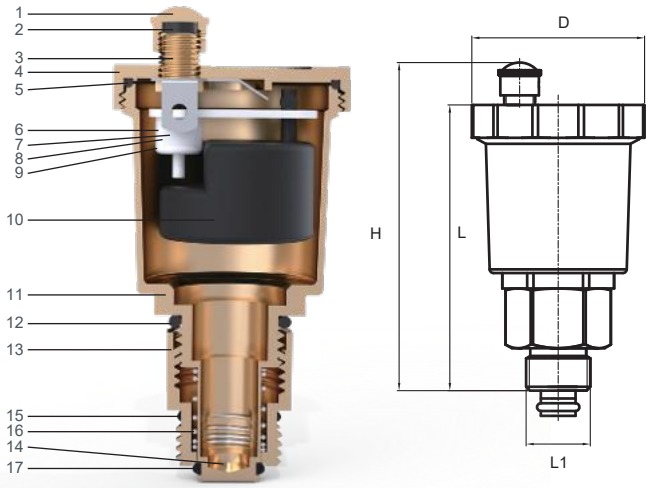
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO	PART	Materials
1	Big Cap	Brass CW617N
2	Rubber Washer	EPDM
3	Air Relief Nozzle	Brass CW617N
4	End Cap	Brass CW617N
5	O-Ring	EPDM
6	Washer	Steel
7	Spring	Stainless Steel
8	Core	POM
9	Spring Spool Holder	POM
10	Float	PP
11	Body	Brass CW617N
12	O-Ring	EPDM
13	Adapter	Brass CW617N
14	Core	POM
15	O-Ring	EPDM
16	Spring	Stainless Steel
17	O-Ring	EPDM

Dimensional Drawing



Installation Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	D (mm)
3/8"x3/8"	76	3/8	87	45
1/2"x1/2"	74	1/2	85	45
1/2"x3/4"	74	3/4	87	45
1/2"x1"	76	1	87	45

HC-50002

Bronze Automatic Air Vent

PN 10



Feature & Benefits

- Robust and high quality bronze body with integral seating surfaces.
- Removes inevitable potentially dangerous air trapped in system
- Simplifies the venting process
- Saves time and costs
- A shut-off valve option is available in size 1/2 "& 3/8"
- Conforms to design standard BS EN 1074-4.

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 15 bar
	Seat: 11 bar

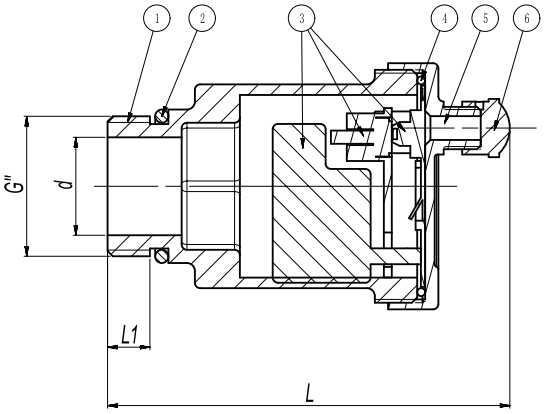
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Material

NO.	Part	Material
1	Body	Bronze C83600
2	O-Ring	EPDM
3	Assembly	/
4	Bonnet	Bronze C83600
5	O-Ring	EPDM
6	Plug	Brass

Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	L1 (mm)	d (mm)	G
1/2"	74	9	15	1/2"
3/4"	74	8	19	3/4"
1"	73	9	23	1"

HC-93401

AIR RELEASE VALVE NONSLAM ANTI-SHOCK ***PN16***



Feature & Benefits

- to discharge a large air flow from a water pipeline
- to admit a large air flow into a water pipeline
- to purge entrapped air from pipeline under pressure

Test Pressure & Temperature

Temperature	Hydraulic
0°C to 80°C	Shell: 24 bar
	Seat: 17.6 bar

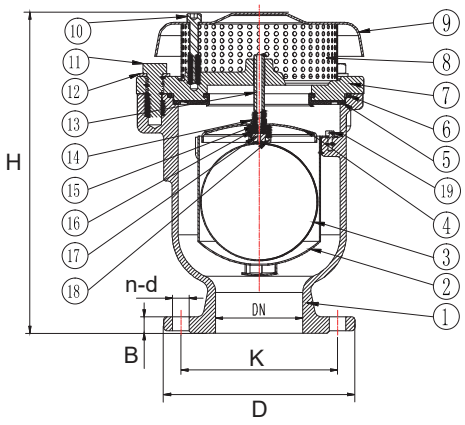
Connection Standard

- Hydrostatic tests according to EN-12266-1, class A. Designed to EN-1074/4 and AWWA C-512
- Flanges to EN-1092/2, BS4504, or ANSI-150

Material

NO.	Part Name	Material
1	Body	Ductile Iron
2	Bushing	AISI304
3	Floating ball	AISI304
4	Disc	AISI304
5	Seal ring	NBR
6	O Ring	NBR
7	Bonnet	Ductile Iron
8	Screen	AISI304
9	Dust cover	AISI A36
10	Screw	AISI304
11	Bolt	AISI304
12	Flat washer	AISI304
13	Guide rod	Brass
14	Nut	AISI304
15	O-ring	NBR
16	Lock nut	Brass
17	Sealing Plug	SI
18	Sealing Sleeve	Brass
19	Screw	AISI304

Dimensional Drawing



Dimensions

SIZE		Height	Flange to EN1092-2/BS4504(mm)							
			End Flange PN10/16				End Flange PN25			
DN	inch	H	D	K	n-d	B	D	K	n-d	B
DN50	2"	305	165	125	4-Φ19	19	165	125	4-Φ19	19
DN65	2.5"	305	185	145	4-Φ19	19	185	145	8-Φ19	19
DN80	3"	330	200	160	8-Φ19	19	200	160	8-Φ19	19
DN100	4"	370	220	180	8-Φ19	19	235	190	8-Φ23	19
DN150	6"	450	285	240	8-Φ23	19	300	250	8-Φ28	20
DN200	8"	500	340	295	8-Φ23/12-Φ23	20	360	310	12-Φ28	22
DN250	10"	685	395/405	350/355	12-Φ23/12-Φ28	22	425	370	12-Φ31	24.5
DN300	12"	780	445/460	400/410	12-Φ23/12-Φ28	24.5	485	430	16-Φ31	27.5

HC-93201 & HC-93301

AIR RELEASE VALVE

Feature & Benefits

- Hydrostatic tests to EN-12266-1, class A. 1.1XPN
- Designed to EN-1074/4 and AWWA C-512
- 1" / 25mm BSP female inside thread



HC-93201 HC-93301

Options

- Isolating valve (gate valve / butterfly valve)
- Inlet flange (DN50/65)

Material

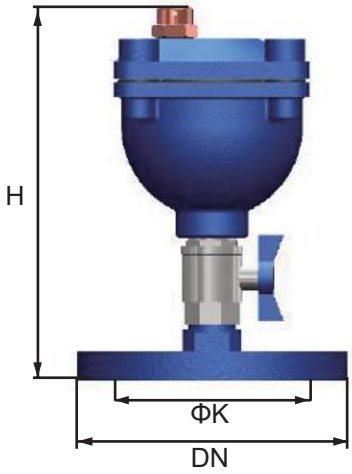
NO.	Part Name	Material
1	Uni flange	Ductile cast iron GJS 500-7
2	Ball Valve	Brass nickel plated
3	Body	Ductile cast iron GJS 500-7
4	Floating Ball	NBR
5	Shaft	Brass
6	Air Vent	Brass
7	Gasket	EPDM
8	Gasket	EPDM
9	Cover	Ductile cast iron GJS 500-7
10	Air Vent	Brass

Dimensional Drawing



Dimensions

DN	K	H
40	110	252
50	120/125	252
65	140/145	252
80	160	252
100	180	252



hose bibs



HC-32001

Brass Bibcock with Lever Handle **PN20**

Feature & Benefits

- Europe Brass CW617N
- Hose union connection
- Water and oil service
- Fixed to stand wall plate elbows
- DZR material is available, item No. HC-32001DR



Test Pressure & Temperature

Temperature	Hydraulic
0°C to 100°C	Shell: 30 bar
	Seat: 22 bar

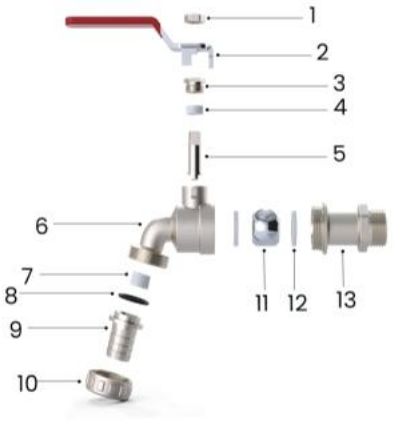
Connection Standard

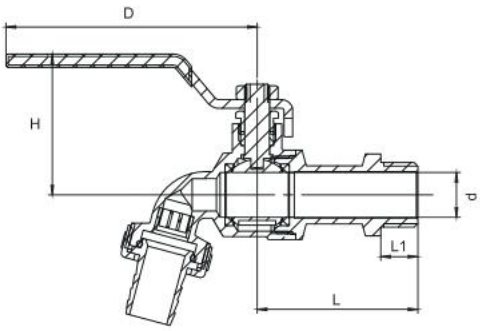
- US END CONNECTION: ANSI B1.20.1
- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Nut	Steel
2	Handle	Steel
3	Packing nut	Brass
4	Packing	PTFE
5	Stem	Brass
6	Body	Brass CW617N
7	Diverter	ABS
8	Washer	EPDM
9	Outlet	Brass
10	Cap	Brass
11	Ball	Brass
12	Seats	PTFE
13	Bonnet	Brass

Dimensional Drawing

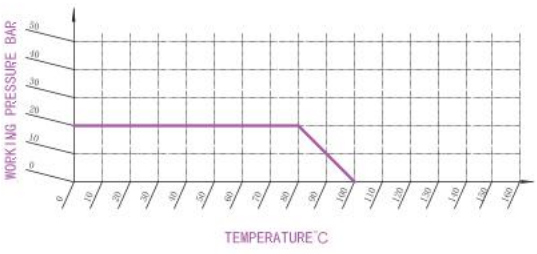




Installation Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)	D (mm)
1/2"x3/4"	52	12	45.6	14.5	81.3
3/4"x1"	57	13.5	49.7	18	104

Pressure & temperature ratings



HC-99011DR

DZR Bibcock with Lever Handle ***PN16***

Feature & Benefits

- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Hose union connection
- Water and oil service
- Fixed to stand wall plate elbows
- CW617N material is available, item No. HC-99011



Test Pressure & Temperature

Temperature	Hydraulic
0°C to 100°C	Shell: 24
	Seat: 17.6

Materials

NO.	PART	Materials
1	Nut	Stainless Steel
2	Handle	Steel
3	Stem	Brass
4	O-Ring	NBR
5	Body	DZR CW602N
6	Diverter	ABS
7	Washer	NBR
8	Outlet	Stainless Steel
9	Cap	Brass
10	Ball	Brass
11	Seat	PTFE
12	Bonnet	DZR CW602N

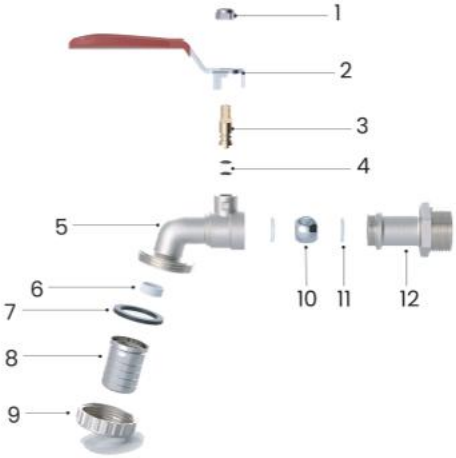
Installation Dimensions

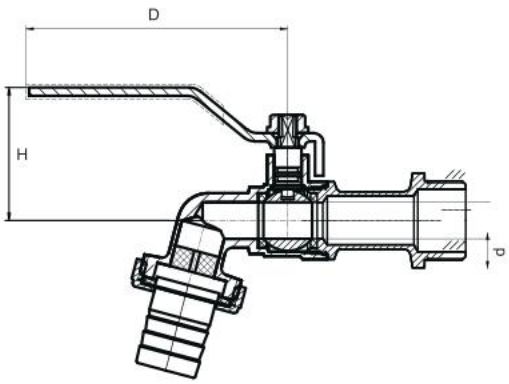
SIZE (inch)	D (mm)	H (mm)	d (mm)
1/2"x3/4"	86	43	10
3/4"x1"	86	44.6	12
1"x11/4"	112	54.4	13.5

Connection Standard

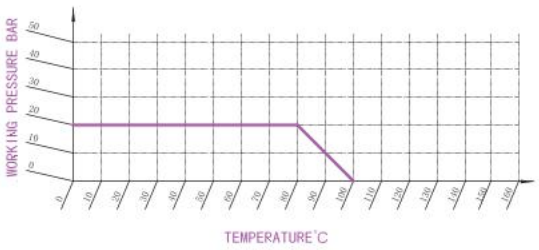
- ISO228-1 parallel thread
- Medium: Water

Dimensional Drawing





Pressure & temperature ratings



HC-10322

DZR Hose Bibs

125PSI



Feature & Benefits

- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Designed standard: CSA B125.1-11 Standard

Test Pressure & Temperature

Temperature	Hydraulic
5°C to 71°C	Shell: 187.5 PSI
	Seat: 137.5 PSI

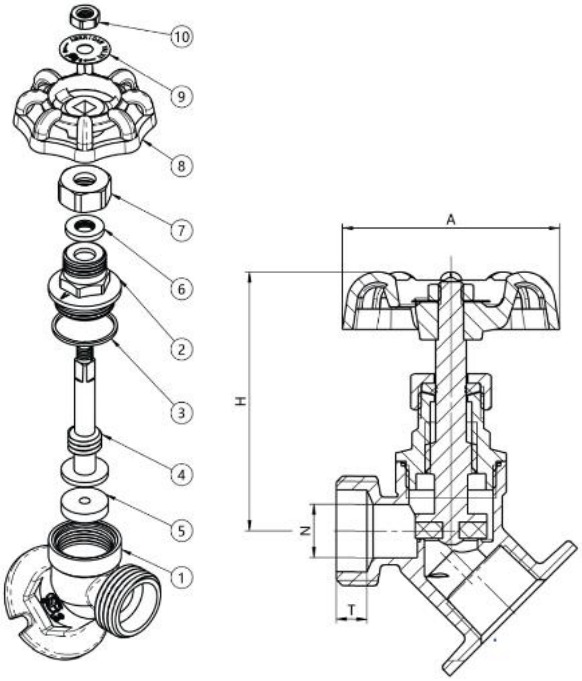
Connection Standard

- US END CONNECTION: ANSI B1.20.1
- Medium: Water
- ISO228-1parallel thread

Material

NO.	Part	Material
1	Body	DZR Brass CW602N
2	Bonnet	DZR Brass CW602N
3	Gasket	PTFE
4	Stem	Brass
5	gland	EPDM
6	gland	EPDM
7	Adjustable nut	Brass
8	Handle	Cast Iron
9	Nameplate	Aluminum
10	Nut	Stainless Steel

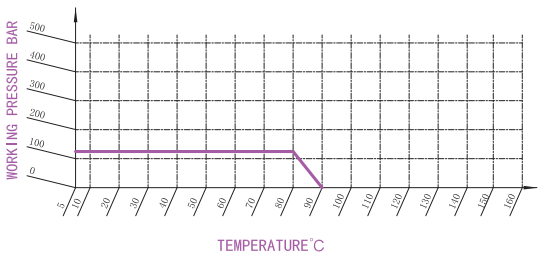
Dimensional Drawing



Dimensions

SIZE (inch)	H (mm)	A (mm)	N (mm)	T (mm)
1/2"x3/4"	63	53	13	8
3/4"x3/4"	63	53	13	8

Pressure & temperature ratings



HC-25102

Lead Free Hose Bibs ***125PSI***



Feature & Benefits

- Leadfree Brass
- Design standard:CSA B125.1-11 Standard

Test Pressure & Temperature

Temperature	Hydraulic
5°C to 71°C	Shell: 187.5 PSI
	Seat: 137.5 PSI

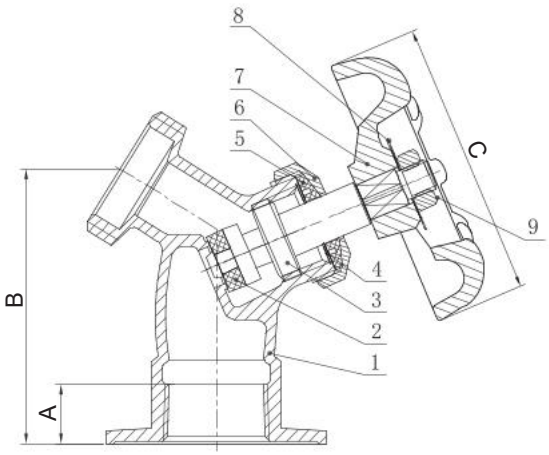
Connection Standard

- US END CONNECTION: ANSI B1.20.1
- Medium: Water
- ISO228-1 parallel thread

Materials

NO.	PART	Materials
1	Nut	Stainless Steel
2	Name plate	Aluminum
3	Handwheel	Cast Iron
4	Adjustable nut	Brass
5	Rubber washer	EPDM
6	Washer	Stainless Steel
7	Stem	Brass
8	Rubber washer	EPDM
9	Body	C46500

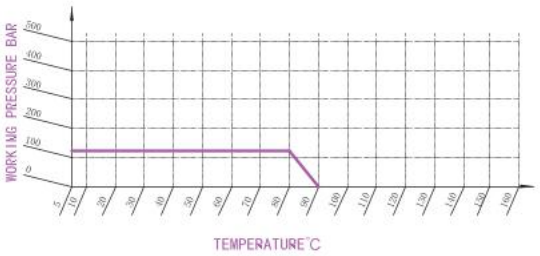
Dimensional Drawing



Dimensions

DN	A	B	C
15	12	53	58
20	17	53	58

Pressure & temperature ratings



HC-20902

Lead Free Brass Hose Bibs **125PSI**



Feature & Benefits

- Multi Turn
- Rough Brass
- Zinc T- handle

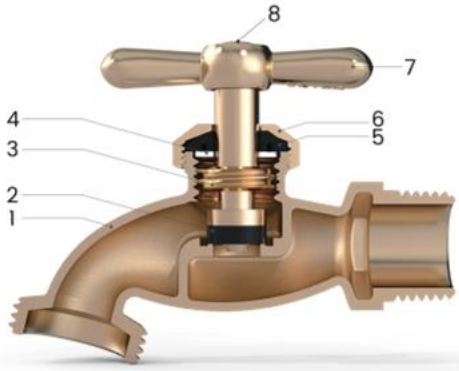
Test Pressure & Temperature

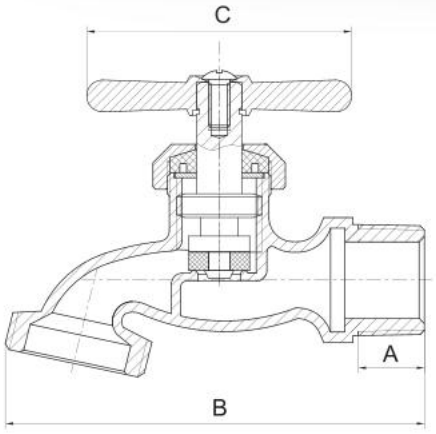
Temperature	Hydraulic
5°C to 90°C	Shell: 187.5 PSI
	Seat: 137.5 PSI

Connection Standard

- US END CONNECTION: ANSI B1.20.1
- Medium: Water
- ISO228-1parallel thread

Dimensional Drawing





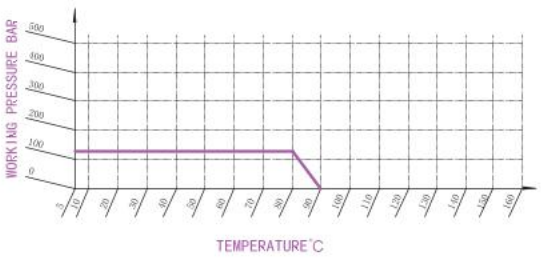
Materials

NO.	PART	Materials
1	Screw	Stainless Steel
2	Handle	ZN
3	Adjustable nut	Brass
4	Rubber washer	EPDM
5	Washer	Stainless Steel
6	Stem	Brass C46500
7	Rubber washer	EPDM
8	Body	Brass C46500

Dimensions

DN	A	B	C
15	14	85	50
20	14	89	52

Pressure & temperature ratings



HC24.10001

Lead Free Brass Vacuum Breakers **125PSI**

Feature & Benefits

- It is a tamper-proof vacuum breaker - to fix in between bib tap union connection and the hose union nozzle components.
  Under normal piping conditions, the inner diaphragm opens to permit generous flow, while the circumferential diaphragm closes the air vents.
  Then when should supply pressure drop and a backflow begin, the inner diaphragm immediately closes to prevent backflow into the main line, while the circumferential diaphragm opens the air vents to break the vacuum.
- Chrome plated Item No. HC24.10011
- Nickle plated Item No. HC24.10021



Materials

NO.	PART	Materials
1	Body	C46500
2	Seal	PTFE
3	Tamper-Proof nut	Brass
4	Piston's guide	Brass
5	Spring	Stainless Steel
6	Gasket	EPDM

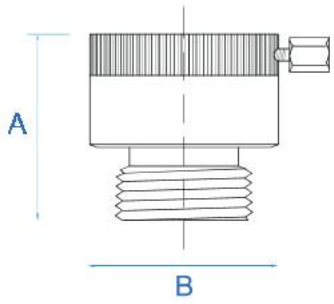
Connection Standard

- US END CONNECTION: ANSI B1.20.1
- Medium: Water
- ISO228-1parallel thread

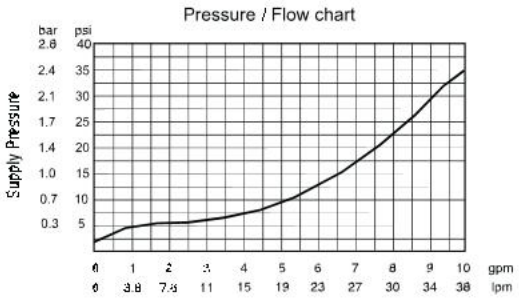
Installation Dimensions

SIZE (mm)	Dimensions	
	A	B
3/4"HT	36	35

Dimensional Drawing



Characteristic Curve



HC-20302T

DZR Bibcock with Check Valve **PN16**



Feature & Benefits

- WRAS certified
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- BS1010-2 standards
- Brass Hose Union Bib Tap with Double Check Valve - includes nut and tail.
- Suitable for cold water systems.

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

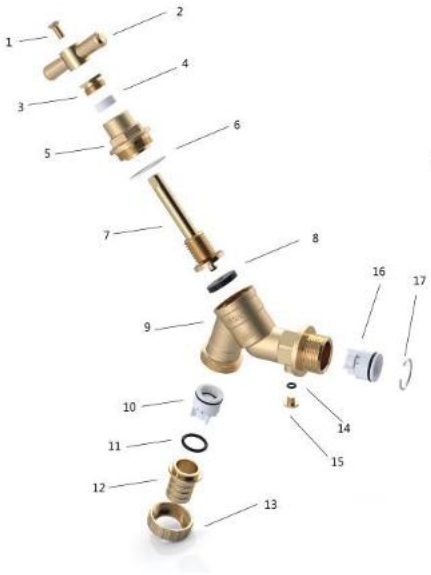
Connection Standard

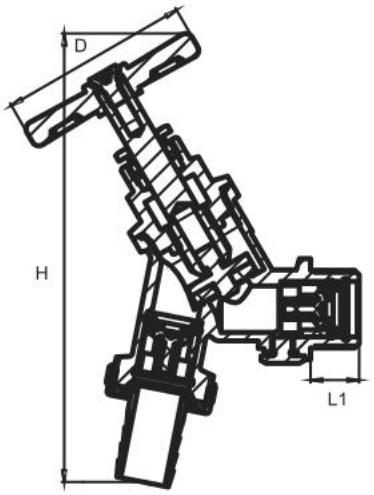
- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Screw	Brass
2	Handle	Brass
3	Lock cap	Brass
4	Flat Washer	PTFE
5	Bonnet	DZR Brass
6	Seats	PTFE
7	Stem	Brass
8	Washer	EPDM
9	Body	DZR Brass
10	Anti-return core	/
11	O-ring	EPDM
12	Nozzle	Brass
13	Pressing Nut	Brass
14	O-ring	EPDM
15	Screw	Brass
16	Anti-return core	/
17	Internal circlips	Steel

Dimensional Drawing

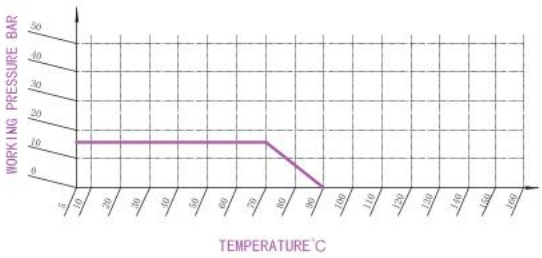




Installation Dimensions

SIZE (inch)	L1 (mm)	H (mm)	D (mm)
1/2"	13	74	69
3/4"	15	74.3	105

Pressure & temperature ratings



HC-20302W

DZR Bibcock with Check Valve **PN16**

Feature & Benefits

- WRAS certified
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- BS1010-2 standards
- Brass Hose Union Bib Tap - includes nut and tail.
- Suitable for cold water systems.



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

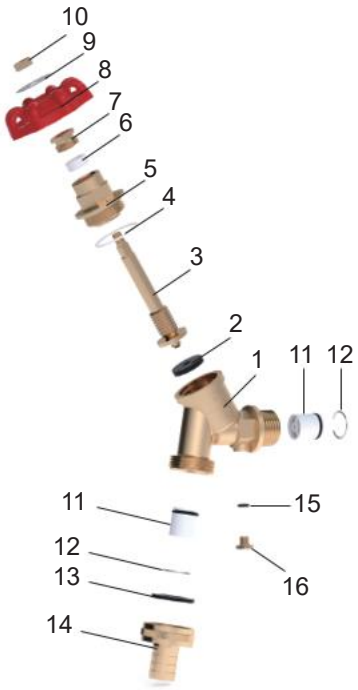
Connection Standard

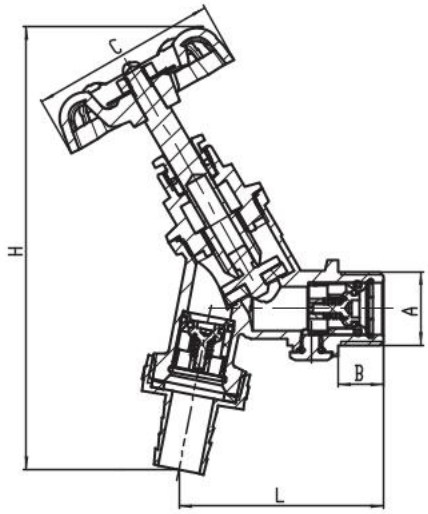
- ISO228-1 parallel thread
- Medium: Water

Material

NO.	Part	Material
1	Body	DZR Brass
2	Gasket	EPDM
3	Stem	Brass
4	Washer	PTFE
5	Bonnet	DZR Brass
6	Gland	PTFE
7	Adjustable Nuts	Brass
8	Handle	HT200
9	Nameplate	Aluminum
10	Nut	Brass
11	Anti-return	/
12	Circlip	304
13	Gasket	EPDM
14	Outlet	Brass
15	O-Ring	EPDM
16	Hexagon Screw	Brass

Dimensional Drawing

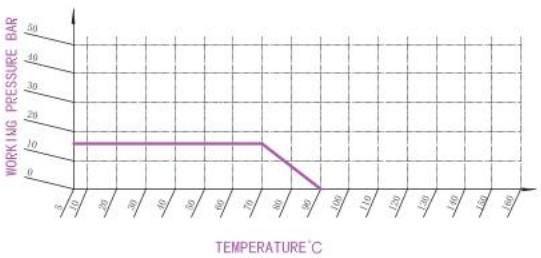




Dimensions

SIZE (inch)	A (mm)	B (mm)	C (mm)	H (mm)	L (mm)
1/2"	G1/2	13	53	125	58
3/4"	G3/4	15	53	135	88

Pressure & temperature ratings



HC-20252

DZR Bibcock without Check Valve **PN16**

Feature & Benefits

- WRAS certified
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- BS1010-2 standards
- Brass Hose Union Bib Tap - includes nut and tail. Suitable for cold water systems.



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

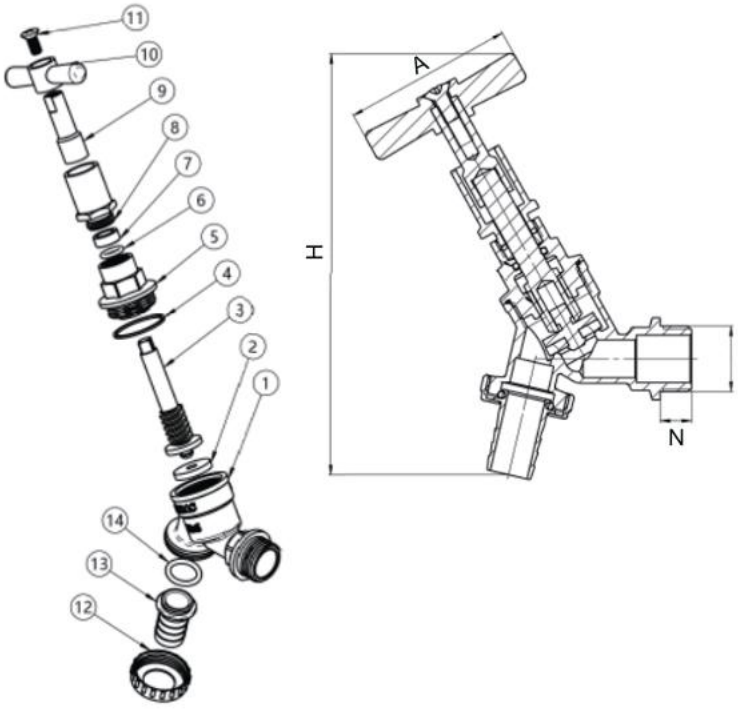
Connection Standard

- Medium: Water
- ISO228-1 parallel thread

Material

NO.	Part	Material
1	Body	DZR brass
2	Gasket	EPDM
3	Stem	/
4	Washer	PTFE
5	Bonnet	DZR brass
6	O-Ring	NBR
7	Gland	PTFE
8	Nut	Brass
9	Key	Brass
10	Handle	Brass
11	Cross screw	Brass
12	Flower Nut	Brass
13	Outlet	Brass
14	O-Ring	EPDM

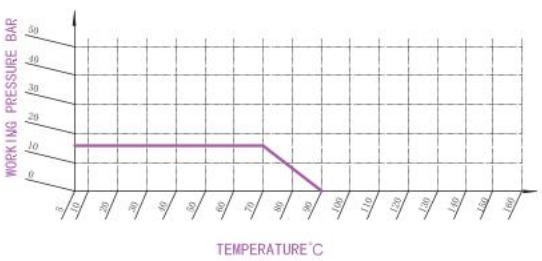
Dimensional Drawing



Dimensions

SIZE (inch)	H (mm)	N (mm)	A (mm)
1/2"	134	13	54

Pressure & temperature ratings



HC-21402

Brass Bibtap **PN16**



Feature & Benefits

- Europe Brass CW617N
- BS 1010

Test Pressure & Temperature

Temperature	Hydraulic
5°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

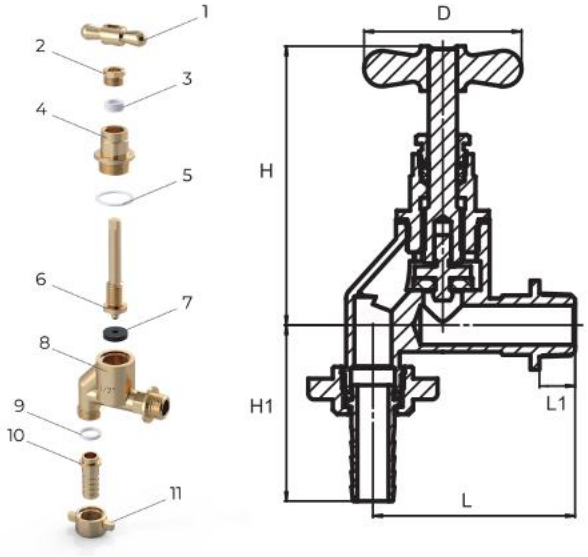
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Handle	Brass
2	Lock cap	Brass
3	Flat Washer	PTFE
4	Bonnet	Brass CW617N
5	Seats	PTFE
6	Stem	Brass
7	Washer	EPDM
8	Body	Brass CW617N
9	Washer	PTFE
10	Nozzle	Brass
11	Pressing Nut	Brass

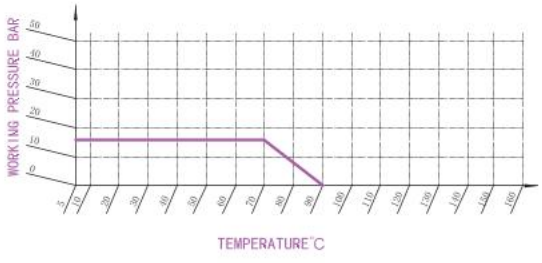
Dimensional Drawing



Installation Dimensions

SIZE (inch)	L1 (mm)	L (mm)	H (mm)	H1 (mm)	D (mm)
1/2"	12	68	93.8	59.2	44.5

Pressure & temperature ratings



float valve



HC-10182

Brass Float Valve

PN16

Feature & Benefits

- WRAS certified
- Europe Brass CW617N
- PN14 1” to 2”
- Temperature： -10°C to 85°C
- High pressure



Materials

NO.	PART	MATERIAL
1	Float Ball	PE
2	Connecting Rod	Brass
3	Connecting Rod	Brass
4	Spol	Brass
5	Rubber Mat	NBR
6	Body	Brass CW617N
7	Flange Nut	Brass
8	Pin	Brass

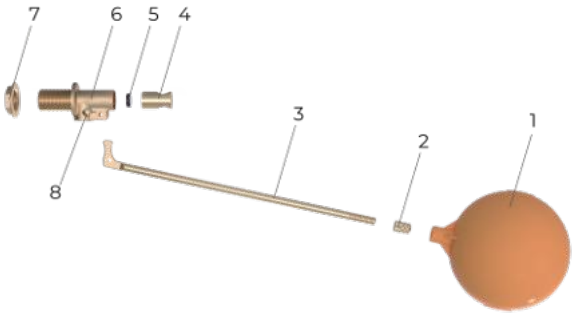
Connection Standard

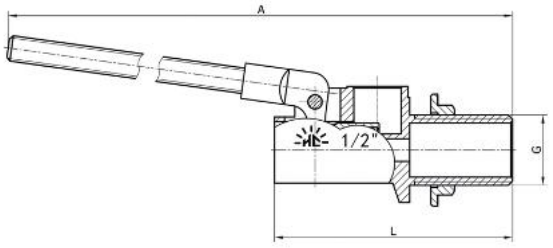
- ISO228-1 parallel thread
- Medium: Water

Dimensions

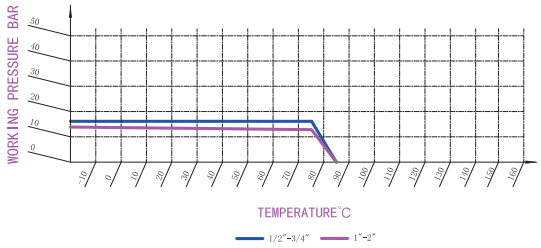
Size (mm)	Plastic Ball	G (mm)	A (mm)	L (mm)
15	4 1/2” x 5/16” W	1/2”	304	70.5
20	5” x 5/16” W	3/4”	302	74.5
25	6” x 7/16” W	1”	405	87.5
32	8” x 5/16” W	1 1/4"	435	165.5
40	10” x 9/16” W	1 1/2"	435	168.5
50	12” x 5/8” W	2”	435	168.5

Dimensional Drawing





Pressure & temperature ratings



HC-10172

Bronze Float Valve

P16

Feature & Benefits

- Europe Brass CW617N for 1/2" & 3/4" , Bronze for 1" to 6"
- PN14 1" to 2"
- Temperature: -10°C to 85°C
- High pressure



Materials

NO.	PART	Materials
1	Body	Brass 1/2" & 3/4, bronze 1" to 6"
2	Piston	Bronze
3	Seat	Bronze
4	Lever heel	Bronze
5	Piston Washer	EPDM EP70
6	Piston Guide	Bronze
7	Lever Arm	Brass
8	Sealing Washer	EPDM EP70
9	Retaining Washer	Stainless Steel
10	Retaining Bolt	Stainless Steel
11	Lever Nut	Brass
12	Fixed Flange Cknut	Bronze
13	Inlet Shank	Bronze
14	Loose Backnut	Bronze
15	Coupling Nut	Bronze
16	Body Cap	Bronze
17	Split Pin	Brass
18	O-Ring	EPDM

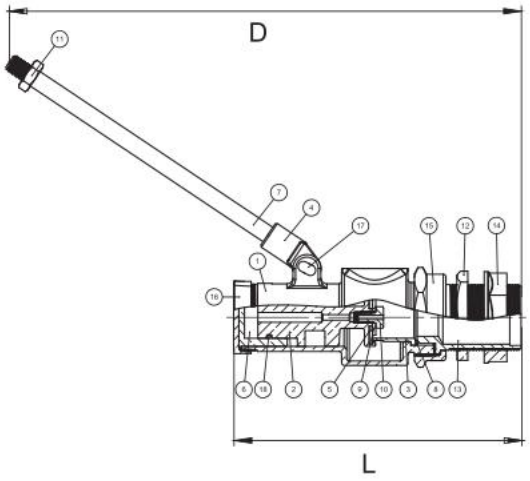
Installation Dimensions

SIZE (inch)	L (mm)	D (mm)	Plastic Ball	Copper Ball
1/2"	103.5	293.5	4 1/2" x 5/16" W	4 1/2" x 5/16" W
3/4"	134	450	5" x 5/16" W	5 1/2" x 3/8" W
1"	159.4	506.4	6" x 7/16" W	6" x 7/16" W
11/4"	209	299	8" x 9/16" W	8" x 9/16" W
11/2"	209	298	10" x 9/16" W	10" x 9/16" W
2"	262	374	12" x 5/8" W	12" x 5/8" W
21/2"	235	473	Not recomended	12" x 9/16" W
3"	277	523	Not recomended	14" x 3/4" W
4"	331	493	Not recomended	15" x 3/4" W
6"	432	541	Not recomended	16" x 7/8" W

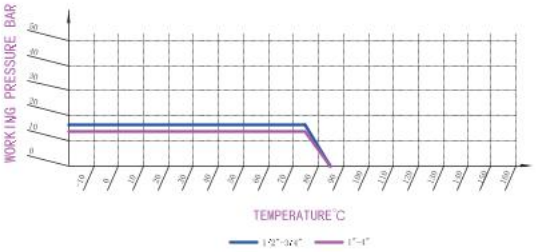
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Dimensional Drawing



Pressure & temperature ratings



HC-10172B&HC-10182B

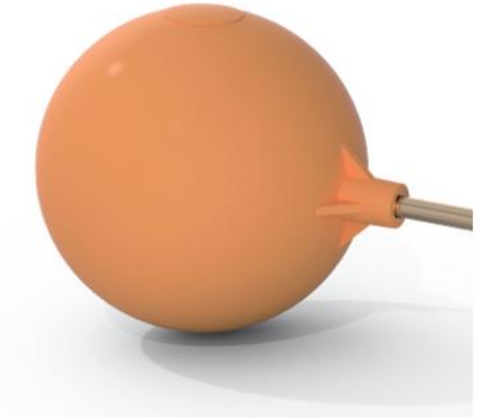
Floats (For Float Valve)

Feature & Benefits

- Plastic or copper ball
- Stud or claw attachment

Dimensions(Plastic ball)

Range	Connection to lever arm*	Code	Code
4 1/2"	5/16" W	HC-10172BP.G15	HC-10182BP.G15
5"	5/16" W	HC-10172BP.G20	HC-10182BP.G20
6" Brass	3/8"W	HC-10172BP.G25	HC-10182BP.G25
6" Bronze	7/16" W	HC-10172BP.G25	/
8"	9/16" W	HC-10172BP.G32	/
8 "	M12	/	HC-10182BP.G32
10"	9/16"W	HC-10172BP.G40	/
10"	M12	/	HC-10182BP.G40/G50
12"	5/8"W	HC-10172BP.G50	/



Dimensions(copper ball)

Range	Connection to lever arm*	Code	Code
4"	5/16" W	HC-10172BC.G15	HC-10182BC.G15
5"	5/16" W	HC-10172BC.G20	HC-10182BC.G20
6"	3/8"W	/	HC-10182BC.G25
6"	7/16"W	HC-10172BC.G25	/
8 "	9/16"W	HC-10172BC.G32	/
8 "	M12	/	HC-10182BC.G32
10"	9/16"W	HC-10172BC.G40	/
10"	M12	/	HC-10182BC.G40/G50
12"	5/8"W	HC-10172BC.G50	/
12"	9/16"W	HC-10172BC.G65	/
14"	3/4"W	HC-10172BC.G80/G100	/
17"	7/8"W	HC-10172BC.G150	/



Brass studs for copper floats. suitable for copper float 4" to 12" connection to lever arm

Range
5/16"W
3/8"W
7/16"W
1/2" W
9/16" W
5/8" W
M12



Claws for copper floats. suitable for copper float 12" to 16" connection to lever arm

Range
9/16"W
3/4"W
7/8"W



HC-92701

Remote Float Control Valve *PN16*

Feature & Benifits

- When water level reaches high water level, the float pilot will shut off and close the main valve.
- Whenever the water level drops, the float pilot starts to open and main valve opens.



Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 80°C	Seat: 24 bar
	Seat: 17.6 bar

Materials

NO.	Part	Materials
1	Body	Ductile Iron
2	Stem	AISI304 STAINLESS STEEL
3	Seat	AISI304 STAINLESS STEEL
4	O Ring	NBR
5	Sealing Gasket	NBR
6	Mounting Plate	DUCTILE IRON
7	Diaphragm	NBR
8	Bonnet	DUCTILE IRON
9	Bolt	AISI304 STAINLESS STEEL
10	Plain Washer	AISI304 STAINLESS STEEL
11	Spring	AISI304 STAINLESS STEEL
12	Check Nut	AISI304 STAINLESS STEEL
13	Top Board	DUCTILE IRON
14	O Ring	NBR
15	Lower Platen	DUCTILE IRON
16	Plug	AISI304 STAINLESS STEEL
17	Strainer	AISI304 STAINLESS STEEL
18	Needle Valve	AISI304 STAINLESS STEEL
19	Ball Valve	AISI304 STAINLESS STEEL
20	Float Ball Control Valve	AISI304 STAINLESS STEEL

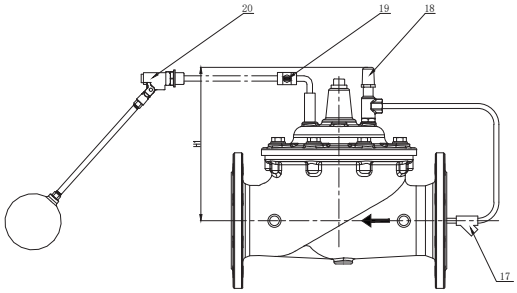
Dimensions

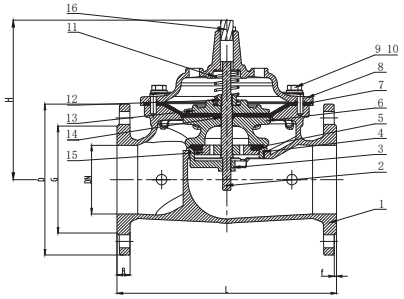
Size	L	END FLANGE EN1092-2 PN16 mm						H	H1	H2
DN		D	K	G	n-d	B	f			
50	230	165	125	99	4-Φ19	19	3	160	195	245
65	290	185	145	118	4-Φ19	19	3	180	215	270
80	310	200	160	132	8-Φ19	19	3	220	240	300
100	350	220	180	156	8-Φ19	19	3	230	250	310
125	400	250	210	184	8-Φ19	19	3	280	280	405
150	480	285	240	211	8-Φ23	19	3	335	340	455
200	600	340	295	266	8-Φ23	20	3	425	400	550
250	730	395	350	319	12-Φ23	22	3	535	450	675
300	850	445	400	370	12-Φ23	25	4	595	500	735
350	980	505	460	429	16-Φ23	25	4	715	565	925
400	1100	565	515	480	16-Φ28	25	4	750	590	950
450	1200	615	565	530	20-Φ28	26	4	805	625	1005
500	1250	670	620	582	20-Φ28	27	4	880	700	1085
600	1450	780	725	682	20-Φ31	30	5	1050	800	1275

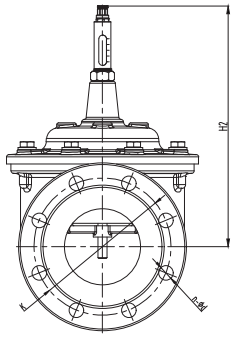
Connection Standard

- Face to face: DIN558-1
- End flange: EN1092-2
- Tests to EN 12266-1

Dimensional Drawing







HC-92711

Remote Float Control Valve *PN25*

Feature & Benifits

- When water level reaches high water level, the float pilot will shut off and close the main valve.
- Whenever the water level drops, the float pilot starts to open and main valve opens.



Test Pressure & Temperature

Tempreture	Hydraulic
0°C to 80°C	Seat: 37.5 bar
	Seat: 27.5 bar

Materials

NO.	Part	Materials
1	Body	Ductile Iron
2	Stem	AISI304 STAINLESS STEEL
3	Seat	AISI304 STAINLESS STEEL
4	O Ring	NBR
5	Sealing Gasket	NBR
6	Mounting Plate	DUCTILE IRON
7	Diaphragm	NBR
8	Bonnet	DUCTILE IRON
9	Bolt	AISI304 STAINLESS STEEL
10	Plain Washer	AISI304 STAINLESS STEEL
11	Spring	AISI304 STAINLESS STEEL
12	Check Nut	AISI304 STAINLESS STEEL
13	Top Board	DUCTILE IRON
14	O Ring	NBR
15	Lower Platen	DUCTILE IRON
16	Plug	AISI304 STAINLESS STEEL
17	Strainer	AISI304 STAINLESS STEEL
18	Needle Valve	AISI304 STAINLESS STEEL
19	Ball Valve	AISI304 STAINLESS STEEL
20	Float Ball Control Valve	AISI304 STAINLESS STEEL

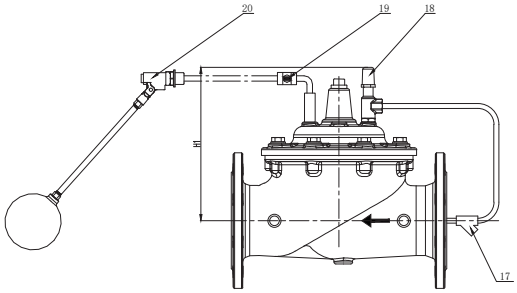
Dimensions

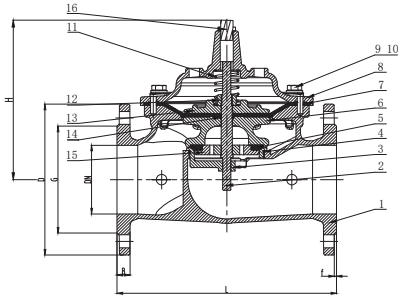
Size	L	END FLANGE EN1092-2 PN25 mm						H	H1	H2
DN		D	K	G	n-d	B	f			
50	230	165	125	99	4-Φ19	19	3	160	195	245
65	290	185	145	118	8-Φ19	19	3	180	215	270
80	310	200	160	132	8-Φ19	19	3	220	240	300
100	350	235	190	156	8-Φ23	19	3	230	250	310
125	400	270	220	184	8-Φ28	19	3	280	280	405
150	480	300	250	211	8-Φ28	20	3	335	340	455
200	600	360	310	274	12-Φ28	22	3	425	400	550
250	730	425	370	330	12-Φ31	24.5	3	535	450	675
300	850	485	430	389	16-Φ31	27.5	4	595	500	735
350	980	-	-	-	-	-	-	715	565	925
400	1100	-	-	-	-	-	-	750	590	950
450	1200	-	-	-	-	-	-	805	625	1005
500	1250	-	-	-	-	-	-	880	700	1085
600	1450	-	-	-	-	-	-	1050	800	1275

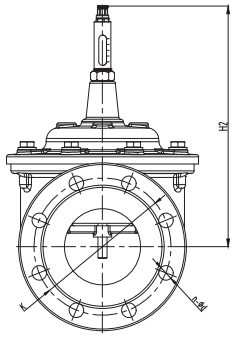
Connection Standard

- Face to face: DIN558-1
- End flange: EN1092-2
- Tests to EN 12266-1

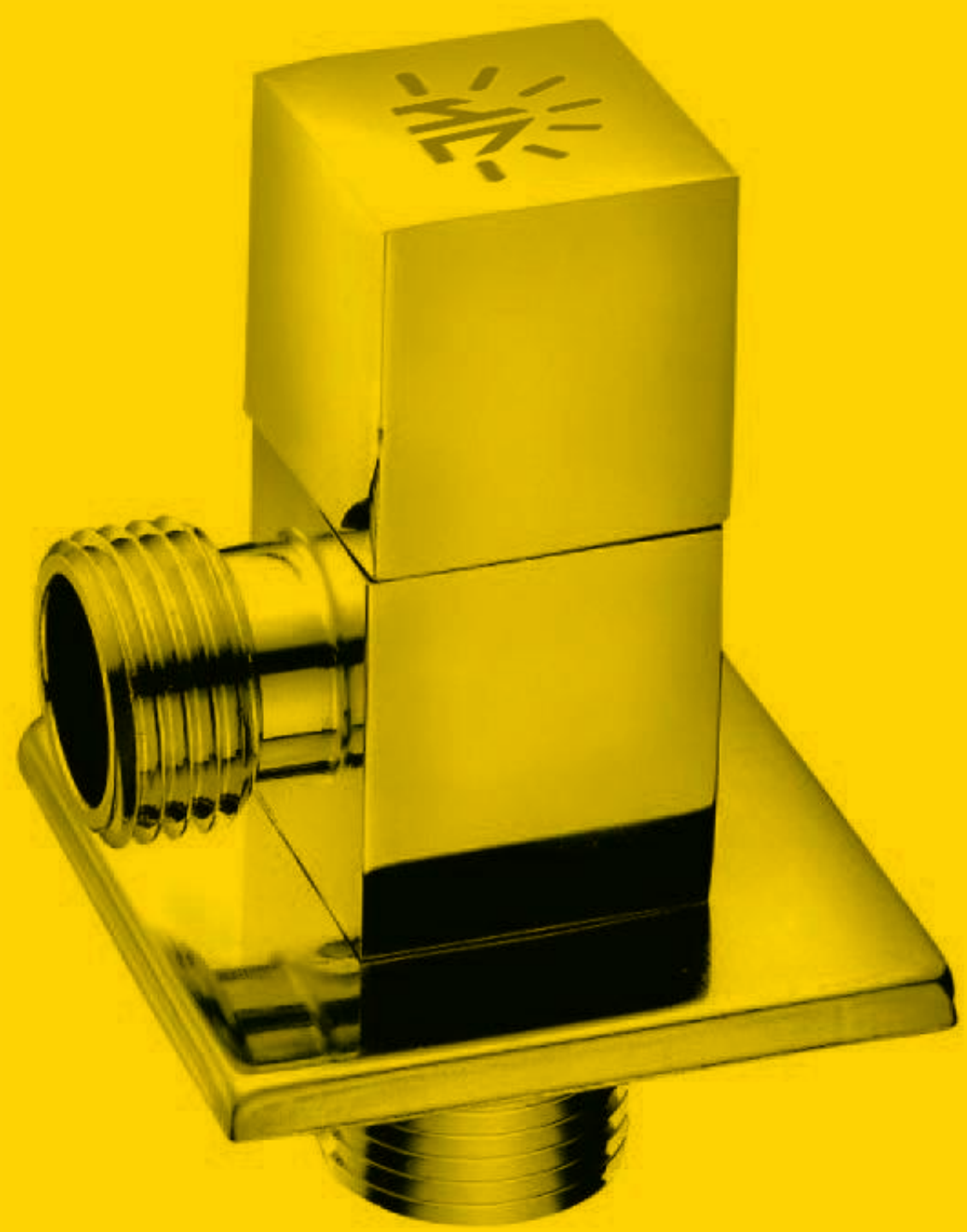
Dimensional Drawing







angle valve



HC-1177Y&HC-1177YB

Triangle Handle Brass Angle Valve ***PN16***

Feature & Benefits

- WRAS certified
- Europe Brass CW617N
- Hot or cold
- Include rosette
- Handle with indicator available



HC-1177YB



HC-1177Y

Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

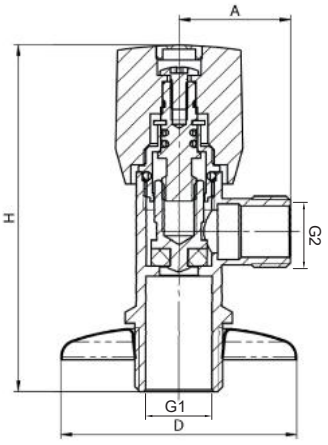
Connection Standard

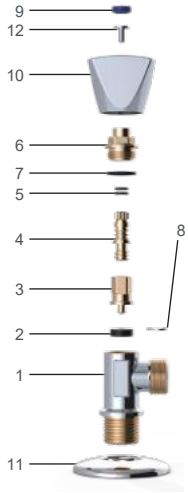
- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	Part	Materials
1	Body	Brass CW617N
2	Gasket	EPDM
3	Baffle Plate	Brass CW617N
4	Stem	Brass CW617N
5	O-Ring	EPDM
6	Bonnet	Brass CW617N
7	O-Ring	EPDM
8	Circlip	304
9	Pressing Bead	ABS
10	Handle	ZINC
11	Decorative Cover	201
12	Cross Screw	SS304

Dimensional Drawing

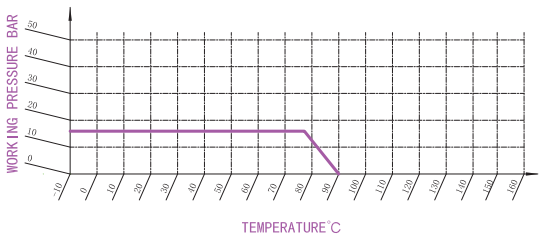




Dimensions

SIZE (inch)	H (mm)	D (mm)	A (mm)	G1	G2
1/2"x3/8"	81	55	26	1/2"	3/8"
1/2"x1/2"	81	55	26	1/2"	1/2"
1/2"x3/4"	81	55	26	1/2"	3/4"

Pressure & temperature ratings



HC-1175Y&HC-1175YB

Triangle Handle Brass Angle Valve ***PN16***

Feature & Benefits

- WRAS certified
- Europe Brass CW617N
- Hot or cold
- Include rosette
- Handle with indicator available



HC-1175YB HC-1175Y

Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

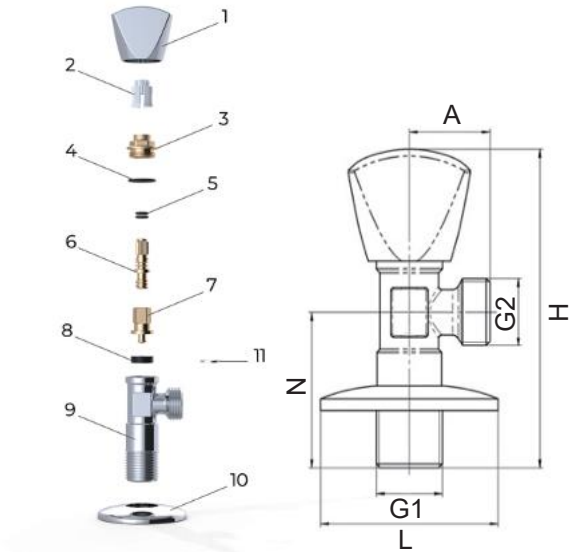
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Handle Wheel	ZINC
2	Plastic Fasteners	PA
3	Cap	Brass CW617N
4	O-ring	NBR
5	O-ring	NBR
6	Lead Screw	Brass CW617N
7	Water Stop Plate	Brass CW617N
8	Rubber Mat	EPDM
9	Valve Body	Brass CW617N
10	Decorative Cover	201
11	Circlip	304

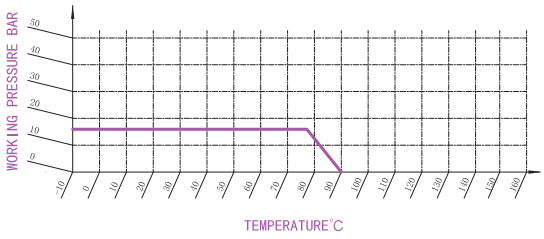
Dimensional Drawing



Dimensions

SIZE (inch)	A (mm)	H (mm)	N (mm)	L (mm)	G1	G2
1/2"x3/8"	25	96	45	55	1/2"	3/8"
1/2"x3/4"	25	96	45	55	1/2"	3/4"
1/2"	25	96	45	55	1/2"	1/2"

Pressure & temperature ratings



HC-90011

Square Handle Brass Angle Valve ***PN16***

Feature & Benefits

- WRAS certified
- Europe Brass CW617N
- Quarter turn angle valve with a polished chrome finish
- Matt black finish available



HC-90011B



HC-90011C

Choose Finish:



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

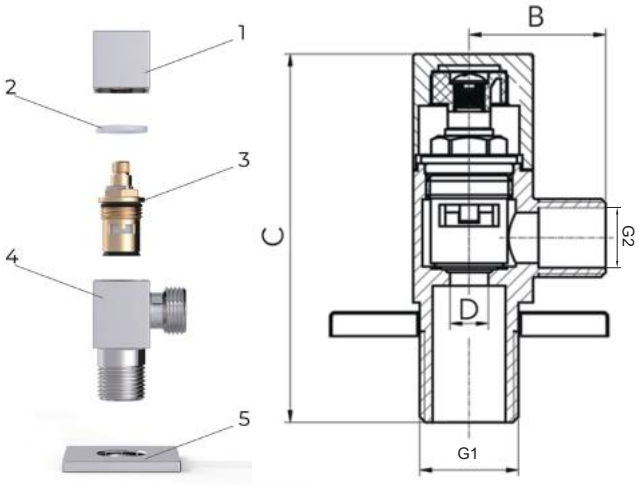
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Handle Wheel	ZINC
2	Washer	PE
3	Cartridge	Brass CW617N Ceramic
4	Body	Brass CW617N
5	Decorative Cover	304

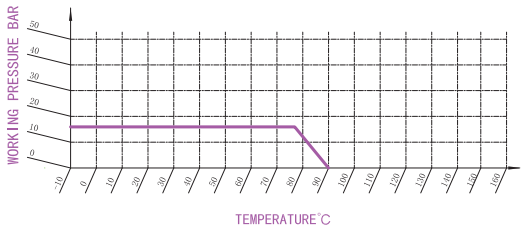
Dimensional Drawing



Dimensions

SIZE (inch)	B (mm)	C (mm)	D (mm)	G1	G2
1/2"x3/8"	29	76	10	1/2"	3/8"
1/2"x1/2"	29	76	10	1/2"	1/2"
1/2"x3/4"	29	76	10	1/2"	3/4"

Pressure & temperature ratings



HC-90071

Round Handle Brass Angle Valve ***PN16***

Feature & Benefits

- WRAS certified
- Europe Brass CW617N
- Quarter turn angle valve with a polished chrome finish
- Matt black finish available



HC-90071C HC-90071B

Choose Finish:



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

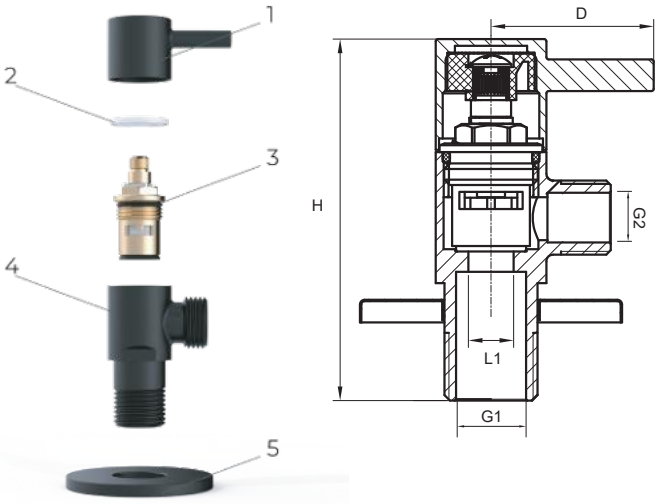
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Handle Wheel	ZINC
2	Washer	PTFE
3	Cartridge	Brass CW617N Ceramic
4	Body	Brass CW617N
5	Decorative Cover	Steel

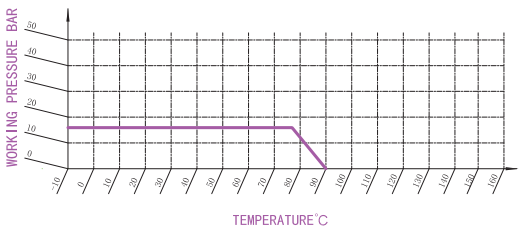
Dimensional Drawing



Dimensions

SIZE (inch)	L1 (mm)	H (mm)	D (mm)	G1	G2
1/2"x3/8"	36	80	10	1/2"	3/8"
1/2"x1/2"	36	80	10	1/2"	1/2"
1/2"x3/4"	36	80	10	1/2"	3/4"

Pressure & temperature ratings



HC-93001

Round Handle Brass Angle Valve ***PN10***

Feature & Benefits

- Europe Brass CW617N
- Quarter turn angle valve with a polished chrome finish



Choose Finish:



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

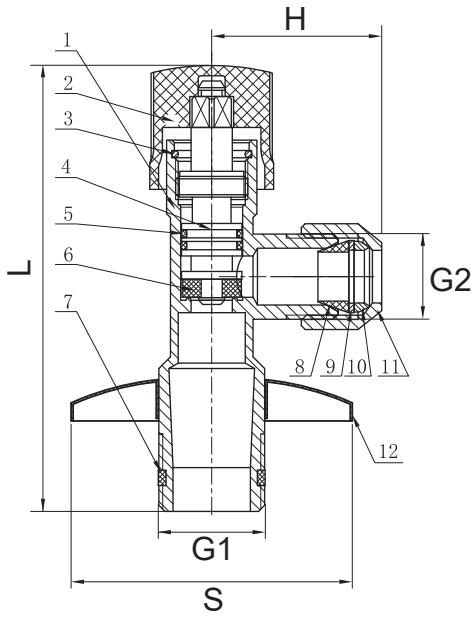
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	Brass CW617N
2	Handle	ABS
3	Screw	304
4	Stem	Brass CW617N
5	O ring	EPDM
6	Gasket	EPDM
7	Flat gasket	PTFE
8	Rubber ring	EPDM
9	Gasket	Brass
10	Circlip	Brass
11	Bonnet	Brass CW617N
12	Decorative cover	304

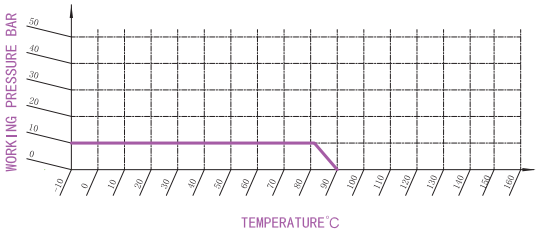
Dimensional Drawing



Dimensions

SIZE (inch)	L (mm)	S (mm)	H (mm)	G1	G2
1/2"x3/8"	86	55	32	1/2"	3/8"

Pressure & temperature ratings



HC-90041

Brass Angle Valve *PN 16*



Feature & Benifits

- WRAS certified
- Europe Brass CW617N
- Quarter turn angle valve with a polished chrome finish
- Matt black finish available

Test Pressure & Temperature

Tempreture	Hydraulic
-10°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

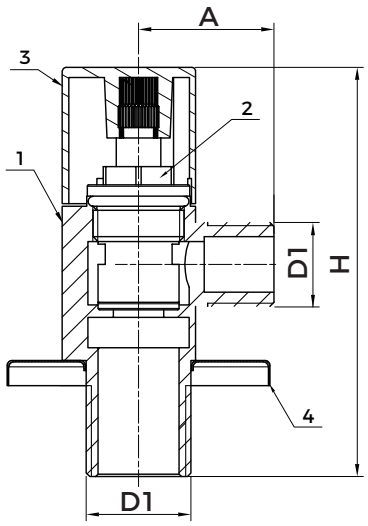
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	Part	Materials
1	Body	Brass CW617N
2	Stem	/
3	Handle	ZN
4	Decorative Cap	SS304

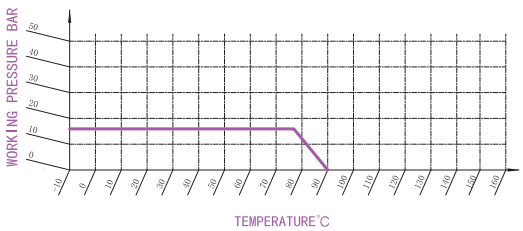
Dimensional Drawing



Dimensions

SIZE	A (mm)	H (mm)	D1	D2
1/2" x 3/8"	26.5	77	1/2	3/8
1/2" x 1/2"	28.5	77	1/2	1/2

Pressure & temperature ratings



HC-90481

Brass Angle Valve *PN 16*



Feature & Benifits

- WRAS certified
- Europe Brass CW617N
- Quarter turn angle valve with a polished chrome finish
- Matt black finish available

Test Pressure & Temperature

Tempreture	Hydraulic
-10°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

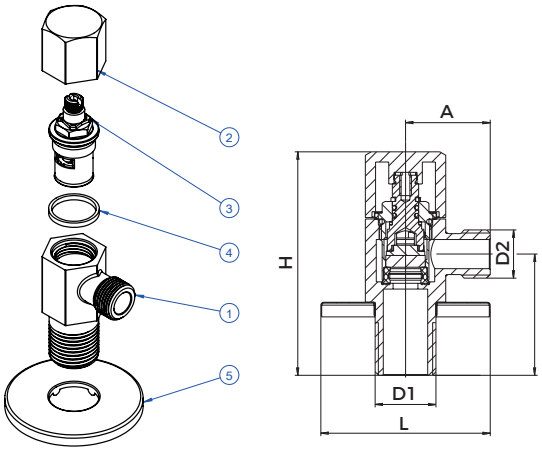
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	Part	Materials
1	Body	Brass CW617N
2	Handle	ZINC
3	Assembly	/
4	Gasket	PTFE
5	Decorative Cap	304

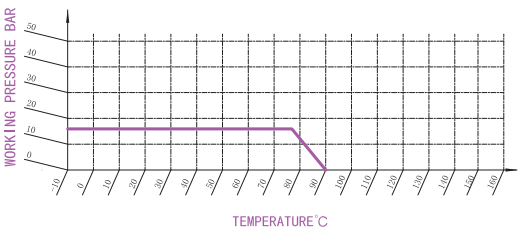
Dimensional Drawing



Dimensions

SIZE	A (mm)	H (mm)	L (mm)	D1	D2
1/2" x 3/8"	29	76.5	58	1/2	3/8
1/2" x 1/2"	29	76.5	58	1/2	1/2

Pressure & temperature ratings



stop valve



HC-12412

Brass Stop Valve ***PN16***

Feature & Benefits

- Europe Brass CW617N
- Hot or Cold
- Female iron x female iron
- Include rosette



Test Pressure & Temperature

Temperature	Hydraulic
3°C to 80°C	Shell: 24 bar
	Seat: 17.6 bar

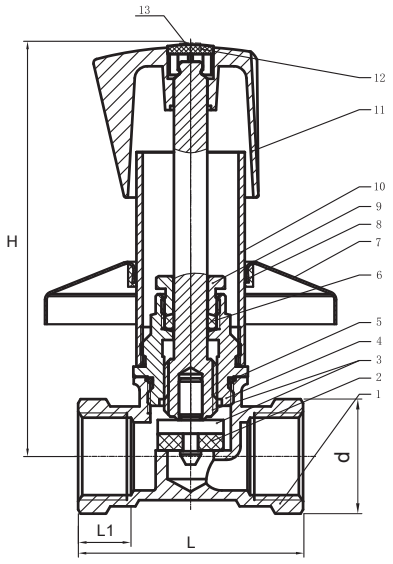
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	Brass CW617N
2	Rubber Matt	EPDM
3	Screw with Stop Plate	Brass CW617N
4	Bonnet	Brass CW617N
5	O-Ring	EPDM
6	Filler	PTFE
7	Decorative Cover	H62
8	Rubber Pad	EPDM
9	Cap	Brass CW617N
10	Nozzes	ZN
11	Hand Wheels	ZN
12	Plastic Buckle-Red	PP
13	Plastic Buckle-Blue	PP

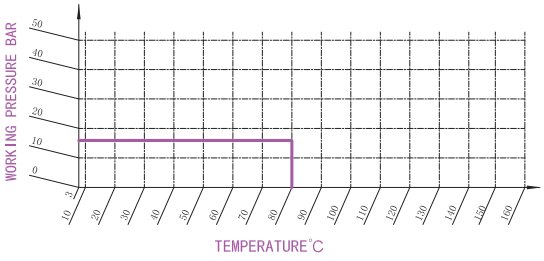
Dimensional Drawing



Installation Dimensions

SIZE (inch)	L (mm)	L1 (mm)	H (mm)	d (mm)
1/2"	54	12.7	100	25.4
3/4"	58.7	14	100	32.5

Pressure & temperature ratings



HC-20102

Bronze Stop Gate Valve ***PN16***

Feature & Benefits

- WRAS certified
- Robust and high quality bronze body
- Crutch top
- Compression x compression
- BS 1010



Test Pressure & Temperature

Tempreture	Hydraulic
-20°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

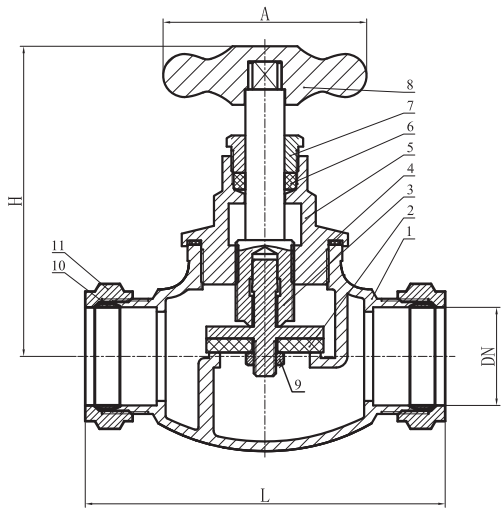
Connection Standard

- Compression version supplied with ends complying with BS EN 1254-2 for use with BS EN 1057 R250 (half hard)copper tube

Material

NO.	Part	Material
1	Body	Bronze
2	Gasket	EPDM
3	Stem	/
4	Gasket	PTFE
5	Bonnet	Bronze
6	Gland	PTFE
7	Adjustable Nut	Brass
8	Handle	Brass
9	Nut	Steel
10	Ferrule	H65
11	Hexagon Nut	Brass

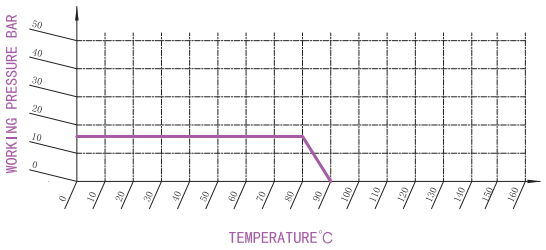
Dimensional Drawing



Dimensions

SIZE (inch)	H (mm)	A (mm)	DN (mm)	L (mm)
35mm	110	73	35	129
42mm	134	80	42	140
54mm	149	93	54	168

Pressure & temperature ratings



HC-S20105

Brass DZR Stop Valve ***PN16***

Feature & Benefits

- WRAS certified
- Europe Brass DZR
- Crutch top
- Compression x compression
- BS 1010



Test Pressure & Temperature

Temperature	Hydraulic
0°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

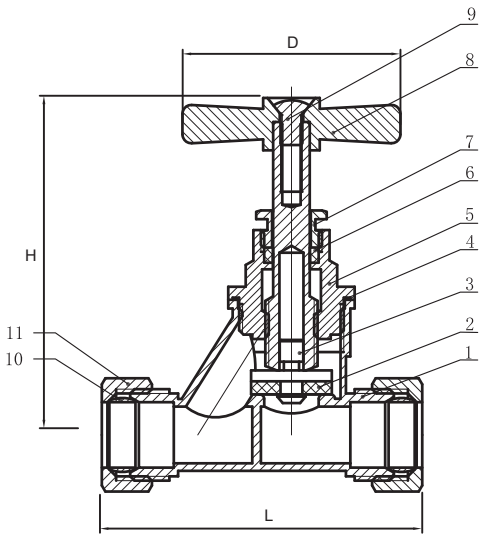
Connection Standard

- Compression version supplied with ends complying with BS EN 1254-2 for use with BS EN 1057 R250 (half hard) copper tube

Materials

NO.	PART	Materials
1	Body	DZR Brass
2	Rubber Mat	EPDM
3	Screw	DZR Brass
4	Flat Washer	PTFE
5	Valve Cover	DZR Brass
6	Filler	PTFE
7	Press Cap	DZR Brass
8	Handle	DZR Brass
9	Head Screw	DZR Brass
10	Card Sleeve	T2
11	Hexagonal Hat	DZR Brass

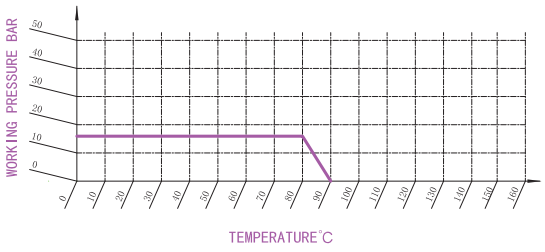
Dimensional Drawing



Installation Dimensions

SIZE (inch)	L (mm)	H (mm)	d (mm)	D (mm)
15mm	73.5	77.3	15	50
22mm	90.5	86.5	22	54
28mm	106	94.5	28	62

Pressure & temperature ratings



HC-S20105LS

DZR Stop Valve ***PN16***

Feature & Benefits

- WRAS certified
- Europe DZR Brass 12164 CW602N Dezincification Resistant Brass
- Crutch top
- Compression x compression
- BS 1010



Test Pressure & Temperature

Temperature	Hydraulic
0°C to 90°C	Shell: 24 bar
	Seat: 17.6 bar

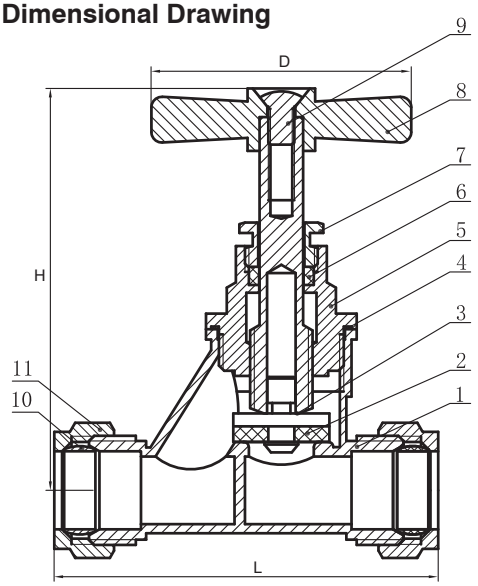
Connection Standard

- Compression version supplied with ends complying with BS EN 1254-2 for use with BS EN 1057 R250 (half hard) copper tube

Materials

NO.	PART	Materials
1	Body	DZR Brass CW602N
2	Rubber Mat	NBR
3	Screw	Brass
4	Flat Washer	PTFE
5	Bonnet	DZR Brass CW602N
6	Filler	Graphite
7	Press Cap	Brass
8	Handle	Brass
9	Head Screw	Brass
10	Ring	Brass
11	Nut	DZR Brass CW602N

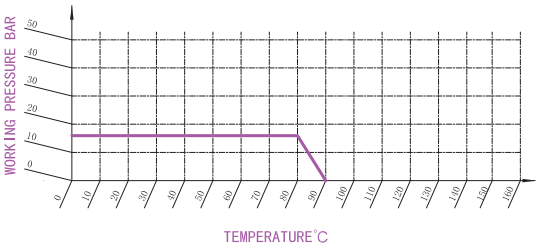
Dimensional Drawing



Installation Dimensions

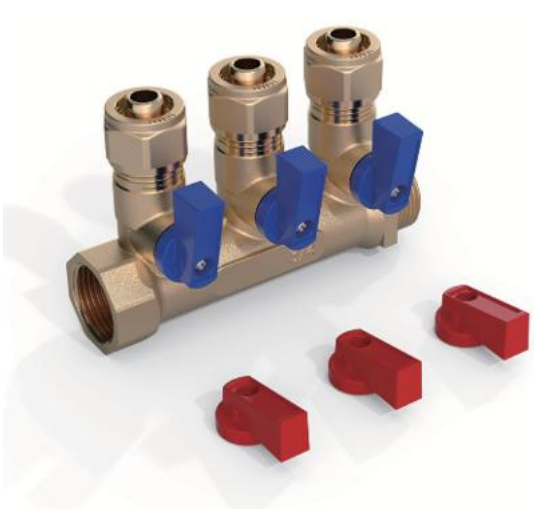
SIZE (inch)	L (mm)	H (mm)	D (mm)
15mm	73.5	77.3	50
22mm	92.1	86.5	54
28mm	105.3	94.5	62

Pressure & temperature ratings



HC-62002

Brass Manifolds with shutoff valves ***PN16***



Feature & Benefits

- Europe Brass CW617N
- Copper X swivel union
- Screw driver operated

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

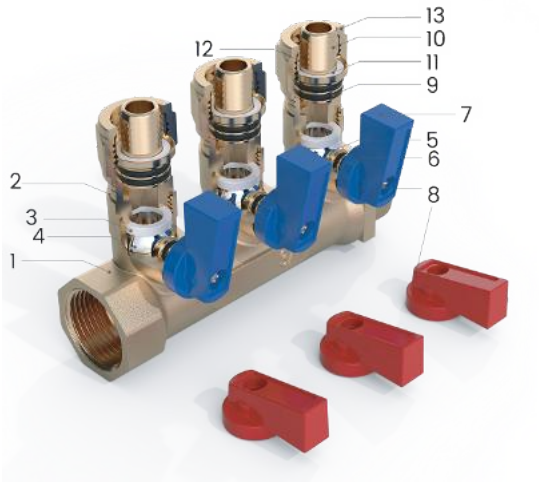
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

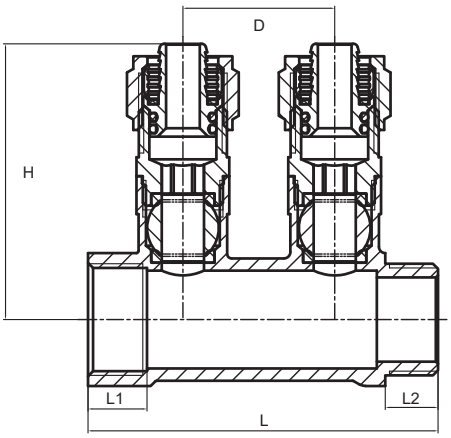
NO.	PART	Materials
1	Body	Brass CW617N
2	Bonnet	Brass CW617N
3	Sealing Seat	PTFE
4	Valve Ball	Brass CW617N
5	Valve Stem	Brass CW617N
6	O-Ring	EPDM
7	Handle	AL
8	Head Screw	Q235
9	O-Ring	EPDM
10	Water Outlet	Brass CW617N
11	Shim	ABS
12	Card Holder	H65
13	Hexagon Hat	Brass CW617N

Dimensional Drawing



Installation Dimensions

SIZE (inch)	L (mm)	L1 (mm)	L2 (mm)	H (mm)	D (mm)
1/2"x3/4"-2 Way(16mmx2. 2)	83	14	12.5	65.2	36
1/2"x3/4"-3 Way(16mmx2. 2)	119	14	12.5	65.2	36
1/2"x3/4"-4 Way(16mmx2. 2)	155	14	12.5	65.2	36



HC-61002

Brass Manifolds

PN16

Feature & Benefits

- Europe Brass CW617N
- Copper X swivel union
- Screw driver operated



Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

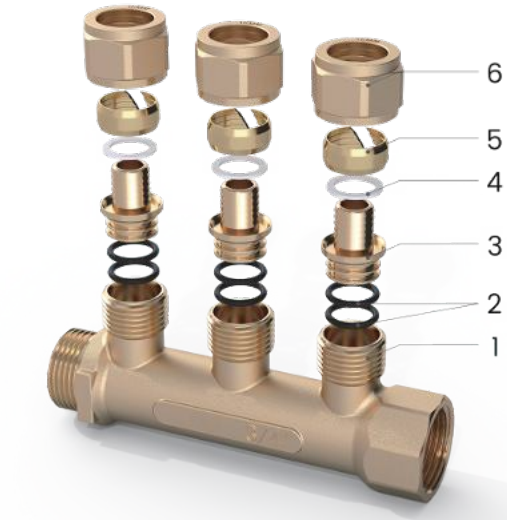
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

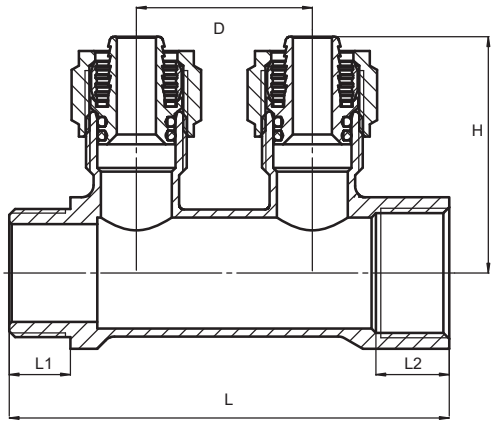
NO.	PART	Materials
1	Body	Brass CW617N
2	O-Ring	EPDM
3	Water Outlet	Brass CW617N
4	Gasket	ABS
5	Card Holder	H65
6	Hexagonal Hat	Brass CW617N

Dimensional Drawing



Installation Dimensions

SIZE (inch)	L (mm)	L1 (mm)	L2 (mm)	H (mm)	D (mm)
16mmx1/2"x2.2mm(2 ways)	90	12.5	15	48.3	36
16mmx1/2"x2.2mm(3 ways)	126	12.5	15	48.3	36
16mmx1/2"x2.2mm(4 ways)	162	12.5	15	48.3	36



HC-43112

DZR Brass Female Adapter *10 bar*



Feature & Benifits

- Material: DZR Brass CW602N
- Working Pressure: Up to 10 bar
- Temperature Range: 20°C to +90°C
- Surface Finish: Natural brass finish

Test Pressure & Temperature

Tempreture	Hydraulic
20°C to 90°C	Seat: 10 bar

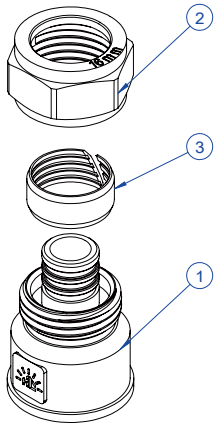
Connection Standard

- Connection Type: Female Thread x PEX
- Thread Standard: BSPP (British Standard Pipe Parallel)
- Compression version supplied with ends complying with BS EN1254-2
- Medium: Water

Materials

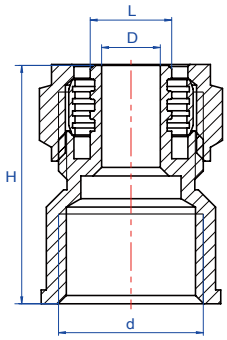
NO.	Part	Materials
1	Body	DZR Brass CW602N
2	Compression Ring	H65
3	Hexagon Cap	DZR Brass CW602N

Dimensional Drawing



Dimensions

SIZE	L (mm)	H (mm)	D (mm)	d
1/2"	11.8	34.5	8.5	G1/2"



HC-43102

DZR Brass Male Socket *10 bar*



Feature & Benifits

- Material: DZR Brass CW602N
- Working Pressure: Up to 10 bar
- Temperature Range: 20°C to +90°C
- Surface Finish: Natural brass finish

Test Pressure & Temperature

Tempreture	Hydraulic
20°C to 90°C	Seat: 10 bar

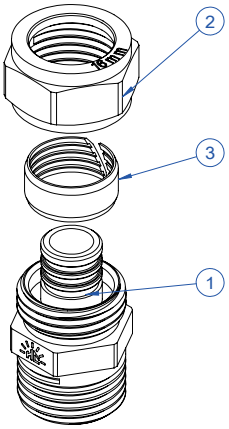
Connection Standard

- Connection Type: Male Thread x PEX
- Thread Standard: BSPP (British Standard Pipe Parallel)
- Compression version supplied with ends complying with BS EN1254-2
- Medium: Water

Materials

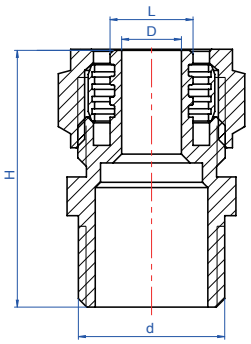
NO.	Part	Materials
1	Body	DZR Brass CW602N
2	Compression Ring	H65
3	Hexagonal Nut	DZR Brass CW602N

Dimensional Drawing



Dimensions

SIZE	L (mm)	H (mm)	D (mm)	d
1/2"	11.8	36.5	8.5	G1/2"



HC-88262B

Pex elbow with Blue/Red box

10 Bar



Feature & Benifits

- Material: DZR Brass CW602N
- Working Pressure: Up to 10 bar
- Temperature Range: 20°C to +90°C
- Surface Finish: Natural brass finish

Test Pressure & Temperature

Tempreture	Hydraulic
20°C to 90°C	Seat: 10 bar

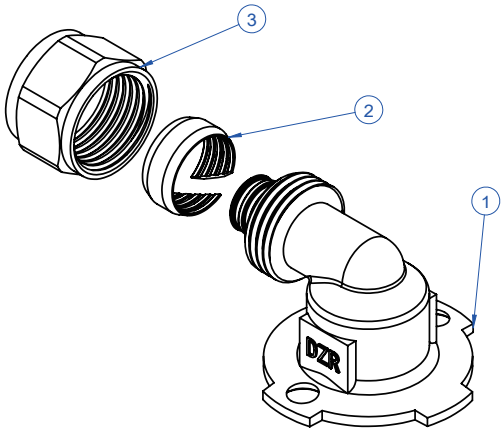
Connection Standard

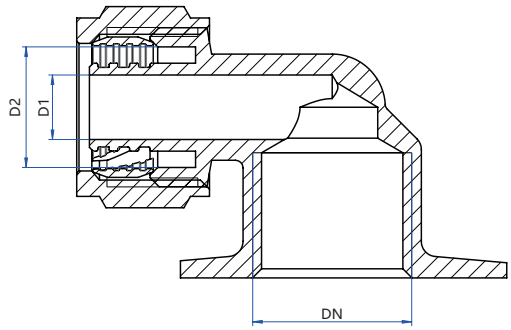
- Connection Type: Male Thread x PEX
- Thread Standard: BSPP (British Standard Pipe Parallel)
- Compression version supplied with ends complying with BS EN1254-2
- Medium: Water

Materials

NO.	Part	Materials
1	Body	DZR Brass CW602N
2	Compression Ring	H65
3	Hexagon Cap	DZR Brass CW602N

Dimensional Drawing





Dimensions

SIZE	DN	D1 (mm)	D2 (mm)
1/2"	15	8.5	15.9

thermostatic mixing valve



HC-10014

Thermostatic Mixing Valve

Application

- Thermostatic mixing valves of this type are used for central regulation of the water temperature in solar-powered, bivalent water heaters.

Feature & Benefits

- Thermostat controls both hot and cold water
- Prevents scalding by accurately controlling the water temperature
- Approved at high and low pressure designations for single outlet



TYPE A TYPE B

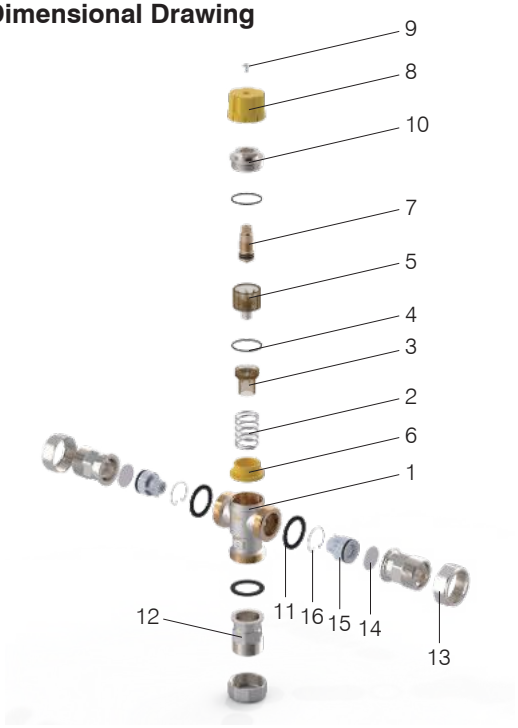
Technical Data

Media	HC-10014			
Medium:	Water			
Connections/Sizes				
Connection size	1/2"	3/4"	1"	11/4"
Pressure values				
Max. operating pressure:	max. 14 bar			
Maximum pressure	2.5 bar			
Operatingtemperatures				
Max. hot water inlet	110°C			
Setting range	30-65°C			
Preset temperature during	41°C			
Control accuracy:	<±4K			
Specifications				
Specifications	76L/min			
Installation position	Arbitrary			
Material	DZR CW602N			

Connection Standard

- UK END CONNECTION:Taper threaded to BS
- EN10226-2(ISO7-1)formerly BS 21
- ISO228-1 parallel thread
- US END CONNECTION: ANSI B1.20.1
- Available in pex, quick-connect, cpvc end, w/press

Dimensional Drawing



Materials

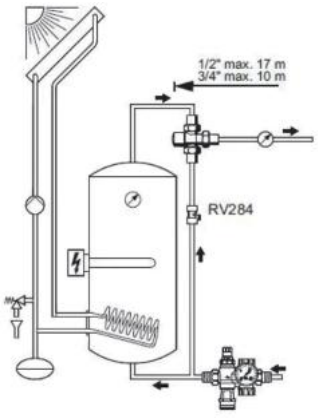
NO.	PART	Materials	NO.	PART	Materials
1	Body	CW602N	9	Screw	Steel
2	Bonnet	CW602N	10	Packing	Brass
3	Spring	Stainless Steel	11	Gasket	EPDM
4	Bushing	PSU	12	Union	CW602N
5	Temperature Sensor	PSU/T2	13	Nut	CW602N
6	O-ring	EPDM	14	Screen	Stainless Steel
7	Stem part	CW602N/SS/EPDM	15	Core	/
8	Handwheel	ABS	16	Circlip	Stainless Steel

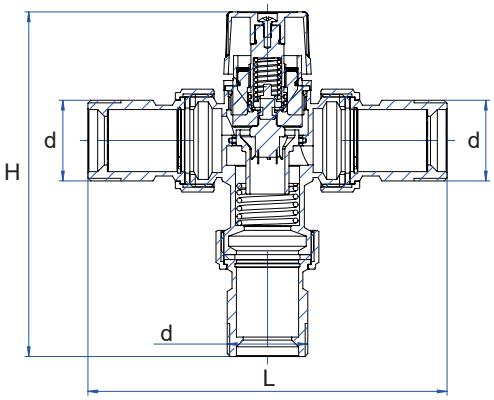
Temperature rang

ITEM	MIN	1	2	3	4	5	6	7	MAX
HC-10014	30	34	38	43	47	51	56	60	65

Installation Dimensions

SIZE (inch)	L (mm)	H (mm)	d
1/2"	148	160	1/2"
3/4"	148	160	3/4"
1"	158	165	1"
11/4"	185	178	11/4"





HC-10012

Thermostatic Mixing Valve

Application

- Thermostatic mixing valves of this type are used for central regulation of the water temperature in solar-powered, bivalent water heaters.

Feature & Benefits

- Thermostat controls both hot and cold water
- Prevents scalding by accurately controlling the water temperature
- Approved at high and low pressure designations for single outlet



TYPE A



TYPE B

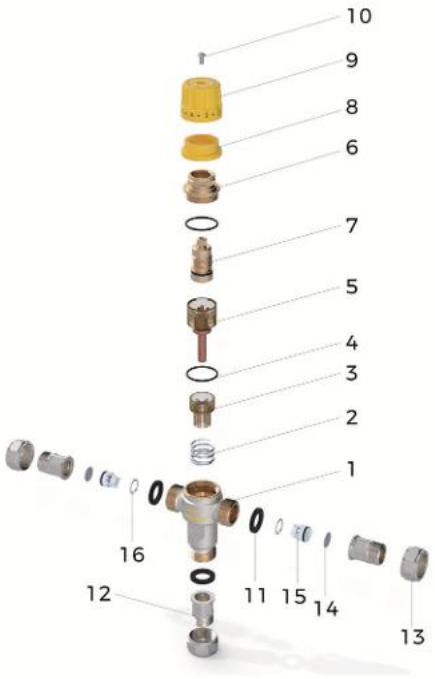
Technical Data

Media	HC-10012		
Medium:	Water		
Connections/Sizes			
Connection size	1/2"	3/4"	1"
Pressure values			
Max. operating pressure:	max. 10 bar		
Maximum pressure	2.5 bar		
Operatingtemperatures			
Max. hot water inlet	110°C		
Setting range	35-55°C		
Preset temperature during	41°C		
Control accuracy:	<±4K		
Specifications			
Specifications	37L/min		
Installation position	Arbitrary		
Material	DZR CW602N		

Connection Standard

- UK END CONNECTION:Taper threaded to BS
- EN10226-2(ISO7-1)formerly BS 21
- ISO228-1 parallel thread
- US END CONNECTION: ANSI B1.20.1
- Available in pex, quick-connect, cpvc end, w/press

Dimensional Drawing



Materials

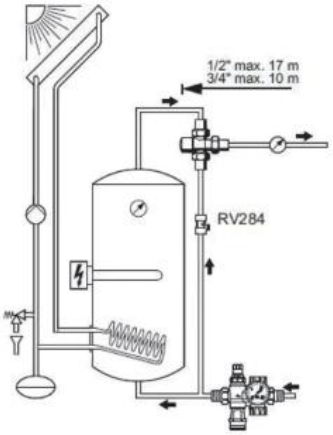
NO.	PART	Materials	NO.	PART	Materials
1	Body	CW602N	9	Handwheel	ABS
2	Spring	Stainless Steel	10	Screw	Steel
3	Temperature Sensor	PSU	11	Gasket	EPDM
4	O-ring	EPDM	12	Union	CW602N
5	Flow-tube	PSU/T2	13	Nut	CW602N
6	Packing	CW602N	14	Screen	Stainless Steel
7	Stem	CW602/SS/EPDM	15	Core	/
8	Handwheel	ABS	16	Circlip	Stainless Steel

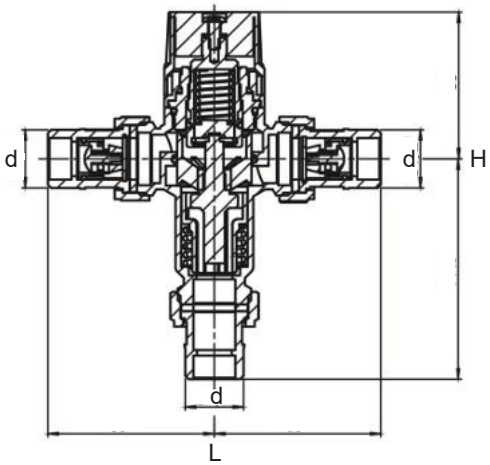
Temperature rang

ITEM	MIN	1	2	3	4	5	6	7	MAX
HC-10012	35	38	40	43	45	47	50	52	55

Installation Dimensions

TYPE	SIZE	L (mm)	H (mm)	d
A	1/2"	132	144	1/2"
A	3/4"	150	152	3/4"
B	3/4"	68	111	3/4"
B	1"	68	111	1"





other valves



HC-D10312&HC-D10512

Draw Off Cock ***PN16***

Feature & Benefits

- Europe Brass DZR
- Eenable systems to be drained without removing pipework.
- It prevent the build up of sediment that flows through the pipework thus
- extending its life *expectancy to BS 2879



HC-D10312



HC-D10512

Test Pressure & Temperature

Temperature	Hydraulic
-20°C to 120°C	Shell: 24 bar
	Seat: 17.6 bar

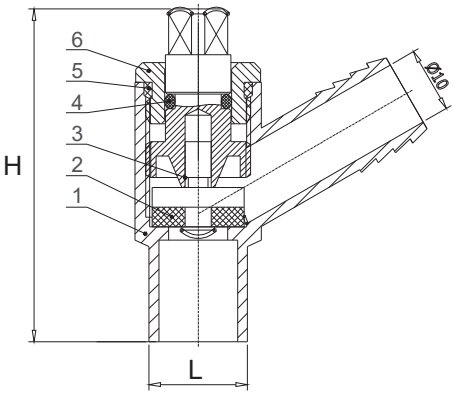
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

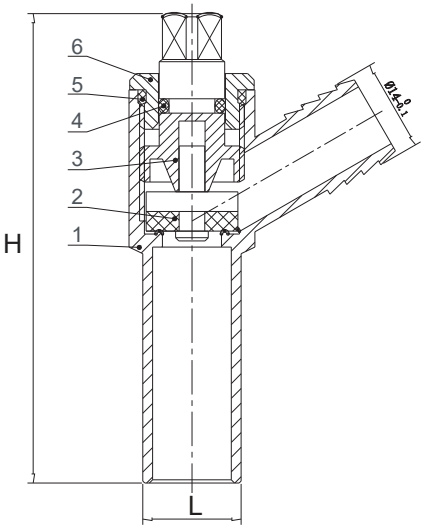
Materials

NO.	PART	Materials
1	Body	Brass CW602N
2	Gasket	EPDM
3	Stem	Brass
4	O-Ring	EPDM
5	O-Ring	EPDM
6	Nut	Brass

Dimensional Drawing



HC-D10312



HC-D10512

Installation Dimensions

SIZE (inch)	H (mm)	L (mm)
HC-D10312-1/2"	51	15
HC-D10512-1/2"	72	15

HC-10132

Brass DZR Draincock ***PN16***

Feature & Benefits

- WRAS certified
- Europe Brass DZR
- Eenable systems to be drained without removing pipework.
- It prevent the build up of sediment that flows through the pipework thus
- extending its life expectancy to BS 2879



Test Pressure & Temperature

Temperature	Hydraulic
5°C to 85°C	Shell: 24 bar
	Seat: 17.6 bar

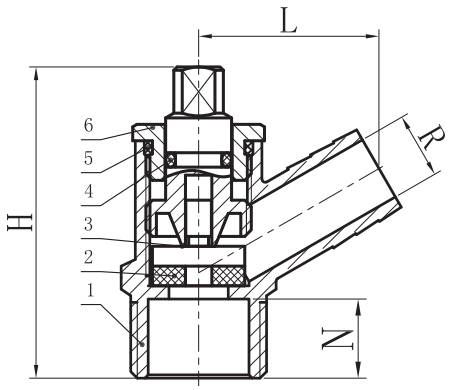
Connection Standard

- ISO228-1 parallel thread
- Medium: Water

Materials

NO.	PART	Materials
1	Body	Brass CW602N
2	Gasket	EPDM
3	Stem	Brass
4	O-Ring	EPDM
5	O-Ring	EPDM
6	Nut	Brass

Dimensional Drawing



Installation Dimensions

SIZE (inch)	H (mm)	N (mm)	L (mm)	R (mm)
1/2"	47	12	27	10
3/4"	64	16	41	14
1"	76	16	51	19

HC-A60205

Brass Service Valve ***PN16***

Feature & Benefits

- WRAS certified
- Europe Brass CW617N
- Copper X swivel union
- Screw driver operated



Test Pressure & Temperature

Temperature	Hydraulic
-10°C to 85°C	Shell: 24 bar
	Seat: 17.6 bar

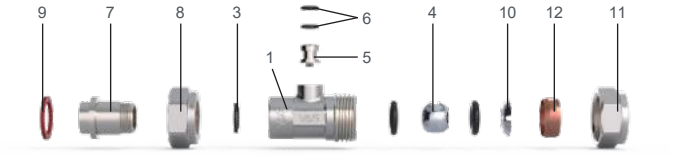
Connection Standard

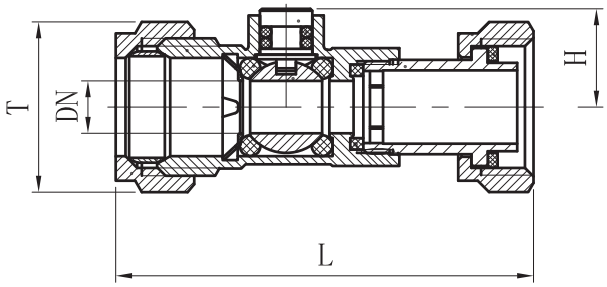
- ISO228-1 parallel thread
- Medium: Water

Materials

NO .	PART	Materials
1	Body	Brass
2	Circlip	304
3	O-Ring	EPDM
4	Ball	Brass
5	Stem	Brass
6	O-Ring	EPDM
7	Tube	Brass
8	Nut	Brass
9	Gasket	/
10	Ferrule	T2
11	Nut	Brass
12	Gasket	EPDM

Dimensional Drawing





Installation Dimensions

SIZE (inch)	L (mm)	DN (mm)	H (mm)	T
15mm	63	8	15	30
22mm	75	22	17.5	35

HC-1322Y

Water Hammer Arrestors ***250PSI***



Feature & Benefits

- Fine Quality T2 Copper Tube Type L, and Lead Free Brass
- Forged Brass Fittings
- NSF Approved POM Piston
- Polished and Varnished Surface, Color Permanently Shiny and Never Rusty
- NSF Approved O Rings with FDA Approved Silicon Lubricant
- Lead free Solder

Applacation

- Water hammer arrestors are installed in water distribtion piping system to prevent detrimental surge pressures, thereby prolonging the service life of valves, piping, trim, equipment, appliances, appurtenances, and other devices which are parts of the distribution system and eliminate noise.
- Type AA is used for "Point Of Use" Residential Appliance Applications. System pressure up to 60 PSI needs to install a pressure reduce valve.

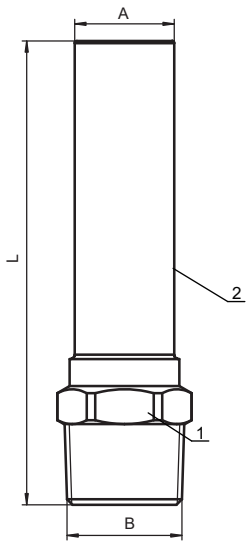
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
- US END CONNECTION: ANSI B1.20.1
- NPT/BSPT/BSP Male Thread
- Working Medium: Water

Test Pressure & Temperature

Temperature	Hydraulic
0.5°C to 82°C	Operation Pressure: 60PSI
	Max Pressure: 250PSI

Dimensional Drawing



Materials

NO.	PART	Materials
1	HA Body	Brass
2	Water Hammer Arrestor	Copper

Dimensions

SIZE (inch)	A (mm)	B	L (mm)
1/2"	22	1/2"	98
3/4"	22	3/4"	104

HC-1324Y

Water Hammer Arrestors ***400PSI***



Feature & Benefits

- Fine Quality T2 Copper Tube Type L, and Lead Free Brass
- Forged Brass Fittings
- NSF Approved POM Piston
- Polished and Varnished Surface, Color Permanently Shiny and Never Rusty
- NSF Approved O Rings with FDA Approved Silicon Lubricant
- Lead free Solder

Applacation

- Water hammer arrestors are installed in water distribtion piping system to prevent detrimental surge pressures, thereby prolonging the service life of valves, piping, trim, equipment, appliances, appurtenances, and other devices which are parts of the distribution system and eliminate noise.
- Size:Type A,B,C,D,E,F is used for commercial field. System pressure up to 60 PSI needs to install a pressure reduce valve.

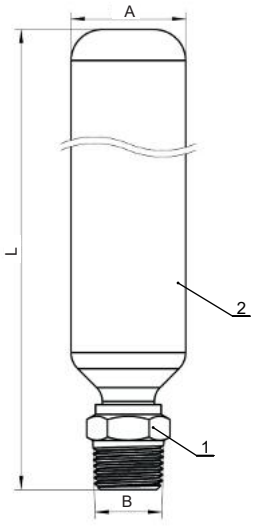
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
- US END CONNECTION: ANSI B1.20.1
- NPT/BSPT/BSP Male Thread
- Working Medium: Water

Test Pressure & Temperature

Temperature	Hydraulic
0.5°C to 82°C	Operation Pressure: 60PSI
	Max Pressure: 400PSI

Dimensional Drawing



Materials

NO.	PART	Materials
1	HA Body	Brass
2	Water Hammer Arrestor	Copper

Dimensions

SIZE (inch)	A (mm)	B	L (mm)	Fixture Unit Capacity
A	29	1/2"	150	1 to 11
B	29	3/4"	182	12 to 32
C	35	1"	220	33 to 60
D	41	1"	258	61 to 113
E	54	1"	283	114 to 154
F	67	1"	328	155 to 330

For Flow Pressures Up To 60 P.S.I.G.

Length of Pipe	Nominal Pipe Diameter					
	1/2"	3/4"	1"	11/4"	11/2"	2"
25'	A	A	B	C	D	E
50'	A	B	C	D	E	F
75'	B	C	D	AE	F	EF
100'	C	D	E	F	CF	FF
125'	C	D	F	AF	EF	EFF
150	D	E	F	DF	FF	FFF

HC-1325Y

Water Hammer Arrestors

400 PSI



Feature & Benefits

- Fine Quality T2 Copper Tube Type L, and Lead Free Brass
- Forged Brass Fittings
- NSF Approved POM Piston
- Polished and Varnished Surface, Color Permanently Shiny and Never Rusty
- NSF Approved O Rings with FDA Approved Silicon Lubricant
- Lead free Solder

Applacation

- Water hammer arrestors are installed in water distribtion piping system to prevent detrimental surge pressures, thereby prolonging the service life of valves, piping, trim, equipment, appliances, appurtenances, and other devices which are parts of the distribution system and eliminate noise.
- Size:Type A,B,C,D,E,F is used for commercial field. System pressure up to 60 PSI needs to install a pressure reduce valve.

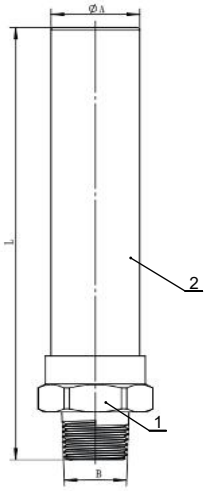
Connection Standard

- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21
- US END CONNECTION: ANSI B1.20.1
- NPT/BSPT/BSP Male Thread
- Working Medium: Water

Test Pressure & Temperature

Temperature	Hydraulic
0.5°C to 82°C	Operation Pressure: 60PSI
	Max Pressure: 400PSI

Dimensional Drawing



Materials

NO.	PART	Materials
1	HA Body	Brass
2	Water Hammer Arrestor	Copper

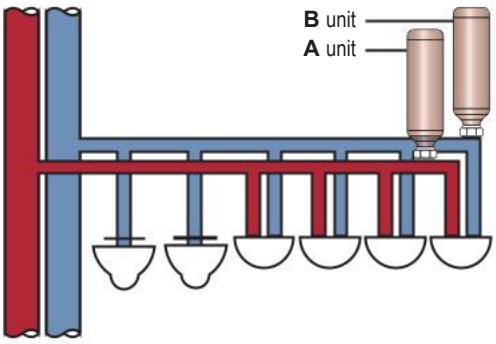
Dimensions

SIZE (inch)	A (mm)	B	L (mm)	Fixture Unit Capacity
A	29	1/2"	154	1 to 11
B	35	3/4"	206	12 to 32
C	41	1"	221	33 to 60
D	54	11/4"	256	61 to 113
E	67	11/2"	284	114 to 154
F	67	2"	365	155 to 330

For Flow Pressures Up To 60 P.S.I.G.

Length of Pipe	Nominal Pipe Diameter					
	1/2"	3/4"	1"	11/4"	11/2"	2"
25'	A	A	B	C	D	E
50'	A	B	C	D	E	F
75'	B	C	D	AE	F	EF
100'	C	D	E	F	CF	FF
125'	C	D	F	AF	EF	EFF
150	D	E	F	DF	FF	FFF

1. Flush line prior to installation.
2.Fasten in place using CPVC cement.
3.Wrench is not required.
4. For best results match arrestor to pipe size at point of installation.
5.Either a vertical or horizontal installation is acceptable(see note to the right).
6. See product catalog for recommended pressure rating.
7. Failure to follow these instructions will make the product warranty null and void.



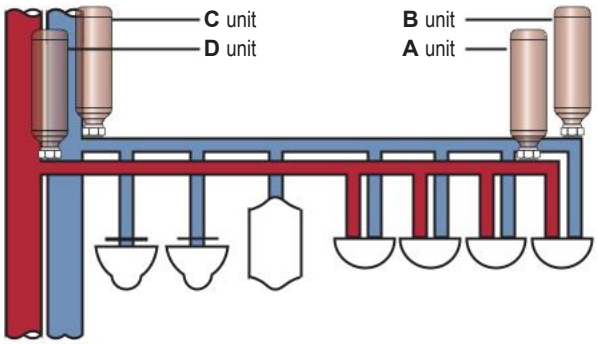


TABLE 1

Fixture	Type of Supply Control	Weight in Fixture - Units					
		Publlc			Private		
		Total	C.W.	H.W.	Total	C.W.	H.W.
Water Closet 1.66 PF	Flush Valve	8	8	-	5	5	-
Water Closet 1.66 PF	Flush Tank	5	5	-	2.5	2.5	-
Pedestal Urinal 1.06 PF	Flush Valve	4	4	-	-	-	-
Stall or Wall Urinal	Flush Valve 1.06 PF	4	4	-	-	-	-
Stall or Wall Urinal	Flush Valve 1.06 PF	2	2	-	-	-	-
Lavatory	Faucet	2	1-1/2	1-1/2	1	1	1
Bathtub	Faucet	4	2	3	2	1-1/2	1-1/2
Shower Head	Mixing Valve	4	2	3	2	1	2
Bathroom Groop	Flush Valve Closet	-	-	-	8	8	3
Bathroom Groop	Flush Valve Closet	-	-	-	6	6	3
Separate Shower	Mixing Valve	-	-	-	2	1	2
Service Sink	Faucet	3	3	3	-	-	-
Laundry Tubs(1-3)	Faucet	-	-	-	3	3	3
Combination Fixture	Faucet	-	-	-	3	3	3

RECOMMENDED ROUGH-IN OF PPP WATER HAMMER ARRESTORS.

Arrestors should always be installed so that there is an unobstructed shock path to the arrestor. Doing otherwise could result in shake and rattle of the pipes when the valve is closed.

Arrestors should always be placed as near to the source of shock as possible - one each on the hot and cold water lines.

TABLE 2

P.D.I. Units	AA	A	B	C	D	E	F
PIXTURE-UNITS	1-3	1-11	12-32	33-60	61-113	114-154	155-330

Table 2 will permit engineers and contractors to select the proper water hammer arrester for each application.

HC-1005Y

Pressure Independent Control Valves KIT *PN 25*



Feature & Benifits

- Available in DN15, DN20 and DN25
- Combinations with strainer, drain
- P/T plug on the flow for measuring the DP across the terminal unit
- Available with 70mm supply/return centers
- All components made of dezincification-resistant brass DZR
- Easy installation and removal
- Reduces thermal heat loss
- Robust material allows reuse
- Enables processes such as regulation, flushing and isolation
- Including bypass for flushing according to BSRIA BG29/2011

Applacation

- Home Creator PICV KIT is used in heating and cooling systems in applications with Chilled water Fan Coil Units, Chilled Beams or other terminal unit applications.
- Provides modulating control with full authority regardless of any fluctuations in the differential pressure of the system.externally adjustable automatic balancing valve, a differential pressure control valve and a full authority modulating control valve. which makes it simple to achieve 100% control of the water flow in the building, while creating high comfort and energy savings at the same time.

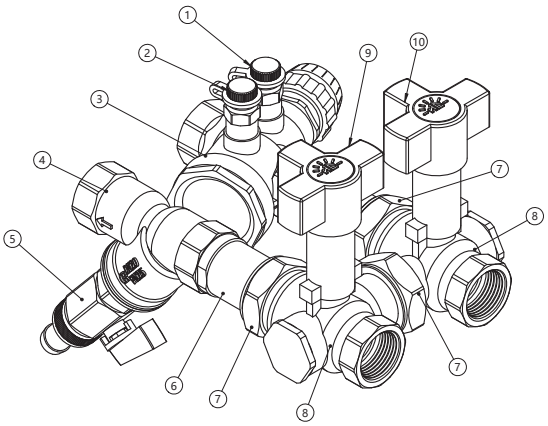
Connection Standard

- ISO228-1 parallel thread
- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21

Test Pressure & Temperature

Item	Specification		
Connection Size	DN15	DN20	DN25
Max. operating pressure	25 bar		
Max. operating DP	4 bar		
Min. operating temperature	0 ℃		
Max. operating temperature	120 ℃		
Stroke	0-2.5	0-2.5	0-5

Dimensional Drawing

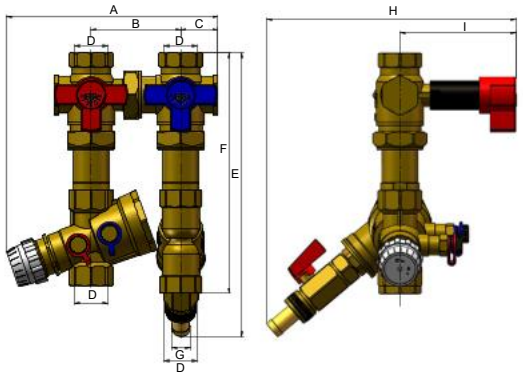


Materials

NO.	Part	Materials
1	Red pressure test plug	DZR Brass CW602N
2	Blue pressure test plug	Blue pressure test plug
3	Dynamic balancing valve	DZR Brass CW602N
4	Y Pattern Strainer	DZR Brass CW602N
5	Drain valve	DZR Brass CW602N
6	Pipe connector	DZR Brass CW602N
7	Hex cap	DZR Brass CW602N
8	Three-way ball valve	DZR Brass CW602N
9	Blue handle	AL
10	Red handle	AL

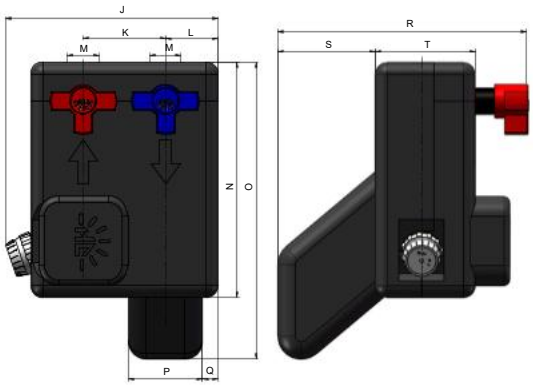
Installation Dimensions

SIZE	A	B	C	D	E	F	G	H	I
DN15	163	70	27	G1/2”	222	188	Ø14.5	189	86
DN20	165	70	29	G3/4“	222	188	Ø14.5	194	91
DN25	182	80	35.5	G1”	244	211	Ø14.5	203	94



Installation Dimensions

J	K	L	M	N	O	P	Q	R	S	T
180	70	45	G1/2”	200	246	63	13	205	80	85
181	70	45	G3/4”	200	246	63	13	209	80	85
199	80	52.5	G1”	231	270	54	25	217.5	83	82



Isolation box (fire resistance)

Description	Values
Tempreture	-25℃ to 80℃
Density	35 kg/ m³
Thermal Conductivity	0.037 W(m-k) (ISO 8301-8302)
Tensile Strength	700 kPa (ISO 1798)
Compression Stress	422 kPa@ 50% (ISO 844)
Flexural Strength	1423 kPa (ASTM C203)
Flame Propogation	Class D/HF-1 (EN 13501-1/UL94)
Smoke Developed	S2 (EN 13501-1)
Droppings While Burning	D1 (EN 13501-1)
Resistance to Fungi	Good

Dimension

SIZE	Flow rate area (L/h)	Bypass operation kvs(m³/h)
DN15	216-1080(L/h)	2.0(m³/h)
DN20	246-1110(L/h)	3.7(m³/h)
DN25	498-1980(L/h)	7.6(m³/h)

*Drives, screw connections and compression adapters must be ordered separately.

HC-1006Y&HC-1007Y

Thermic Actuators & Motoric Actuators

Feature & Benifits

HC-1006Y Motoric Actuators:

- Fast response time, completing full stroke within seconds
- High positioning accuracy, suitable for modulating (proportional) control
- Energy-efficient – consumes power only during movement; holds position with self-locking mechanism
- Supports long stroke ranges for large valves or dampers
- Easy integration with electronic position feedback and diagnostic signals
- Available in two control types: AC/DC 24V modulating (proportional) type and AC 24V on/off (switching) type



HC-1007Y Thermic Actuators :

- Low cost due to simple design and few components
- Simple and robust construction with low failure rate
- Completely silent operation – no motor noise
- Maintenance-free with long service life (no mechanical wear parts)
- Easy wiring and direct compatibility with thermostatic on/off controllers
- Available in two voltage variants: AC 24V on/off (switching)type and AC 230Von/off (switching) type

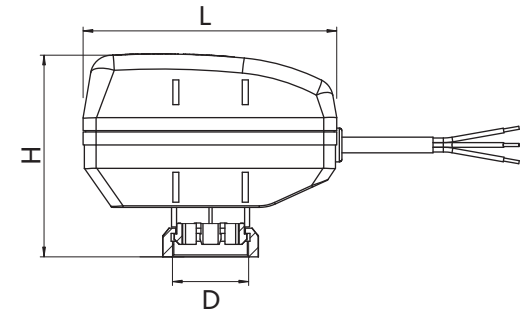


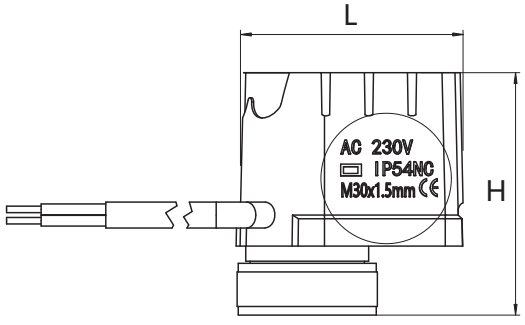
Installation Dimension

Item No. (Supply Voltage)	Valve dimension (Valve stroke)	Control signal	The screw thread
HC-1006Y-AC/DC 24V	DN15-DN25(2.5MM/5.0MM)	0-10V	M30x1.5
HC-1006Y-AC 24V	DN15-DN25(2.5MM/5.0MM)	On/Off	M30x1.5
HC-1007Y-AC 24V	DN15-DN25(2.5MM/5.0MM)	On/Off	M30x1.5
HC-1007Y-AC 230V	DN15-DN25(2.5MM/5.0MM)	On/Off	M30x1.5

Installation Dimensions

Size	L	H	D
HC-1006Y	98	78	M30x1.5
HC-1007Y	53	56	M30X1.5





HC-10052

Dynamic balancing valve *PN 25*

Feature & Benifits

- How It Works: An internal spring-loaded cup senses pressure changes and automatically adjusts the valve opening to maintain constant flow — regardless of system pressure fluctuations.

Key Advantages

- Energy Efficient: Eliminates over-flow, saving 6%–35% in energy.
- Quick Setup: Automatic balancing removes the need for manual calculations and complex on-site tuning.
- Flexible Installation: No straight-pipe requirements; no re-balancing needed after system expansion.
- Quiet Operation: Smooth flow control significantly reduces pipe noise compared to static balancing valves.



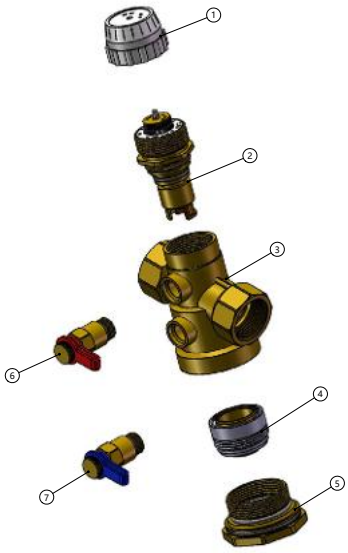
Connection Standard

- ISO228-1 parallel thread
- UK END CONNECTION:Taper threaded to BS EN10226-2(ISO7-1)formerly BS 21

Materials

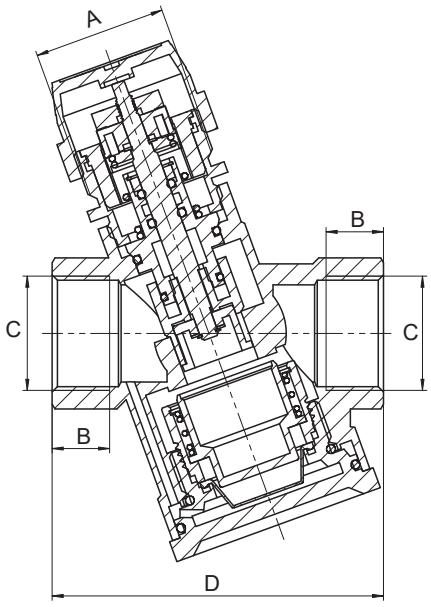
Item	Part	Material
1	Protective cap	PE
2	Control valve insert	DZR Brass CW602N
3	Valve body	DZR Brass CW602N
4	Spring assembly	DZR Brass CW602N
5	Sealing tail cover	DZR Brass CW602N
6	Red pressure test plug	DZR Brass CW602N
7	Blue pressure test plug	DZR Brass CW602N

Dimensional Drawing

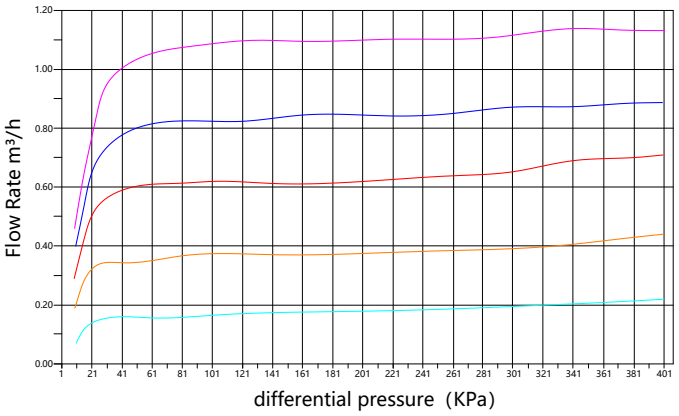


Installation Dimensions

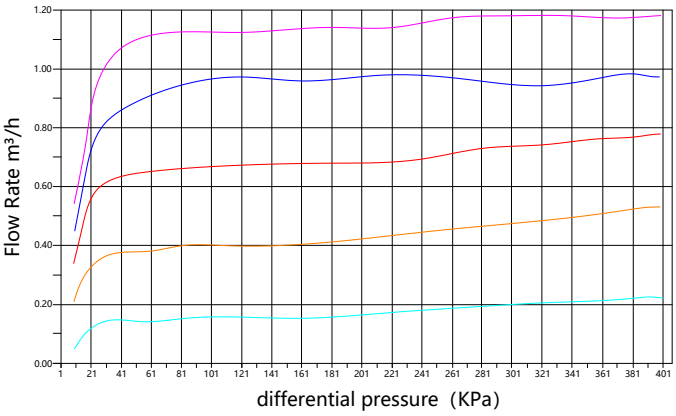
Size	A	B	C	D
DN15	M30x1.5	13	G1/2"	75
DN20	M30x1.5	13	G3/4"	75
DN25	M30x1.5	13	G1"	85



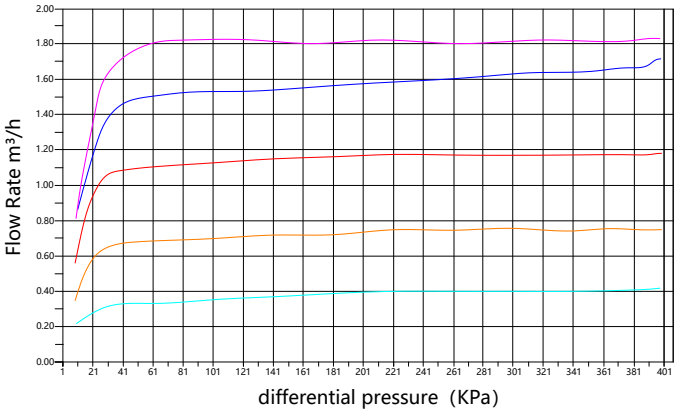
Flow Test Report



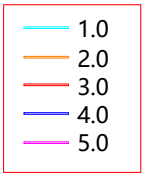
DN15



DN20



DN25

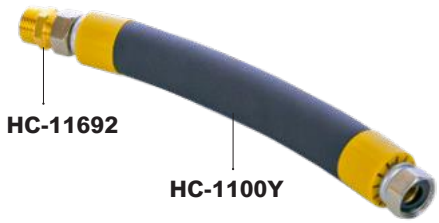


HC-1100Y&HC-11692

Flexible Hoses & Brass Coupling *PN 25*

Feature & Benifits

- To enhance system reliability and installation flexibility,
- PICV Kits can be ordered with flexible hoses.
- These effectively isolate terminal unit vibrations from the rest of the piping system, while also simplifying alignment
- where pipework does not directly line up with equipment
- connections. Choose between corrugated or braided variants
- based on your performance needs.



Materials

NO.	Part	Materials
1	Body	SUS304+thermal insulation cotton
2	Hexagonal Nut	DZR Brass CW602N
3	Washer	EPDM
4	Coupling	DZR Brass CW602N

Connection Standard

- ISO228-1 parallel thread
- EN10226-2(ISO7-1)formerly BS 21

Installation Dimensions

Flexible Hoses	SIZE	A (mm)	B (mm)
HC-1100Y	DN15	200	G1/2”
HC-1100Y	DN15	300	G1/2”
HC-1100Y	DN15	500	G1/2”
HC-1100Y	DN20	200	G3/4”
HC-1100Y	DN20	300	G3/4”
HC-1100Y	DN20	500	G3/4”
HC-1100Y	DN25	200	G1”
HC-1100Y	DN25	300	G1”
HC-1100Y	DN25	500	G1”

Brass Coupling	SIZE	C (mm)	D (mm)
HC-11692	DN15	31.5	G1/2”
HC-11692	DN20	34	G3/4”
HC-11692	DN25	35.5	G1”

Dimensional Drawing

