Misc Valves

Issue 04

It's all at Albion

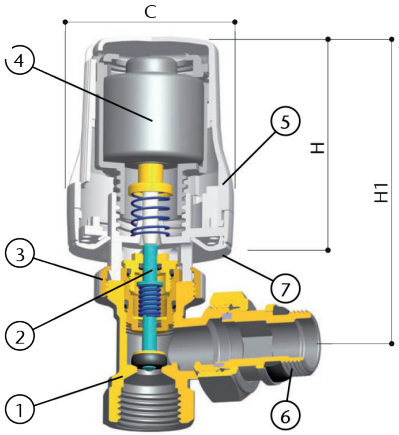
ART 1567
1/2” Angle Radiator Pack

Features

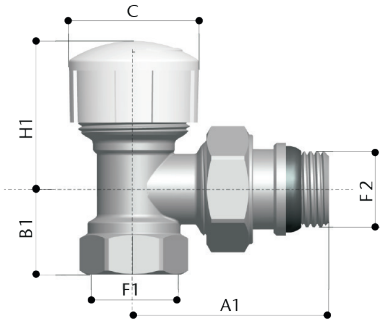
- ½” Angle Radiator TRV, Sensor Head & Lock shield pack
- Includes ART 1597, ART 1561, ART 1553 & 2x ART 1504. Refer to the relevant datasheets for full details about each component.
- Screwed BSP Parallel M/F threads (ISO 228/1) with Auto Seal Tail Piece
- Conforms to EN215 & suitable for use with all radiators
- Liquid Filled Sensor & TRV both have standard M30 x1.5 connection
- ART 1597 locking ring Temperature set-point lock & limit function

Technical data
Max pressure: 10 Bar
Max working temp: 100°C

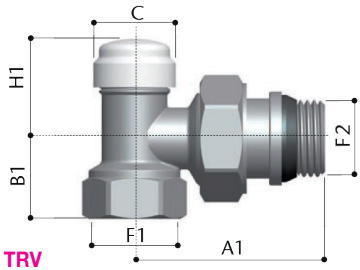
1597



1561



1537

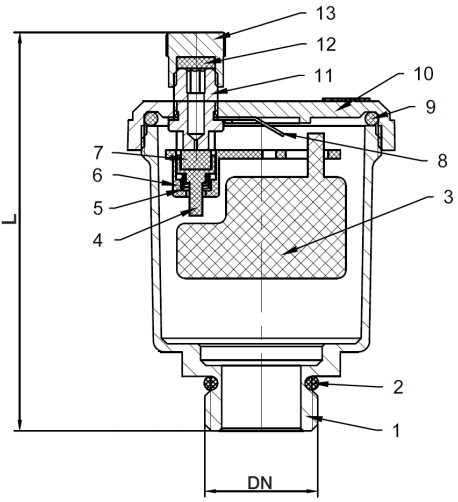


DN 1/2"	TRV	L/S	Sensor	Sensor / TRV Height
A	53.5	49.5		
B	27.5	23		
H	45	32	76.5	
A1	52	51		
B1	23	21.5		
H1	40	26		97
C	35	22	51	
F1	1/2	1/2		
F2	1/2	1/2		

V2. Dimensions in mm

ART 1310
Brass Air Release Valve

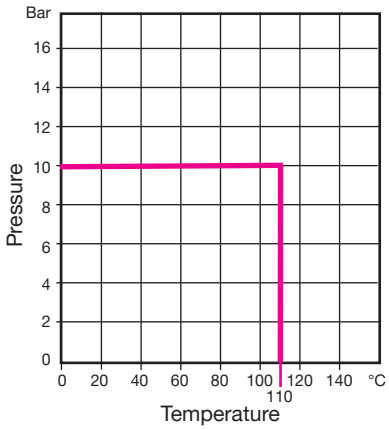
Features
- Screwed BSP Parallel (ISO 228/1)
- Fitted with O-Ring Seal



Technical data
Max pressure: 10 Bar
Working temp: 0°C to 110°C

DN	1/2"	3/4"	1"
L	75.1	75.1	79.0
Kgs	0.19	0.20	0.24

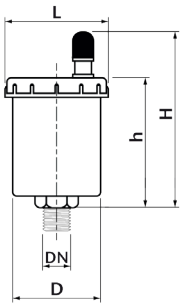
N.	Part Name	Materials
1	Body	Brass CW617N
2	O-Ring	EPDM
3	Float	Polypropylene
4	Spring Seat	POM
5	Spring	AISI 304
6	Lever	POM
7	Rubber Gasket	EPDM
8	Lever Frame	Steel Zinc Plated
9	O-Ring	EPDM
10	Bonnet	Brass CW617N
11	Stem	Brass CW617N
12	Rubber Gasket	EPDM
13	Nut	Brass CW617N



V1. Dimensions in mm

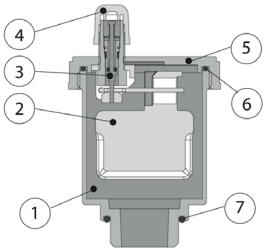
ART 1360
Automatic Air Vent

Features
- Screwed BSP Parallel Male End (ISO 228/1)
- Body Brass CW617N Nickel Plated



DN	3/8”	1/2”
D	38	38
H	66	66
h	50	50
L	46.5	46.5
Kgs	0.15	0.16

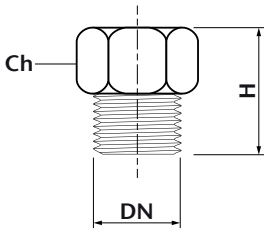
Technical data
Max pressure: 10 Bar
Working temp: 5°C to +110°C



N.	Part Name	Materials
1	Body	Nickle Plated Brass CW617N
2	Floating	Polythene
3	Shutter	
4	Plug	Polypropylene
5	Cover	Nickel Plated Brass CW617N
6	O-Ring	NBR
7	O-Ring	NBR

ART 1837
Check Valve for Automatic Air Vent

Features
- Screwed BSP Parallel M/F Ends
- Body Brass CW617N Nickel Plated



DN	3/8”	1/2”
H	25	25
Ch	19	23
Kgs	0.02	0.04

Technical data
Max pressure: 10 Bar
Working temp: 5°C to +110°C

V1. Dimensions in mm

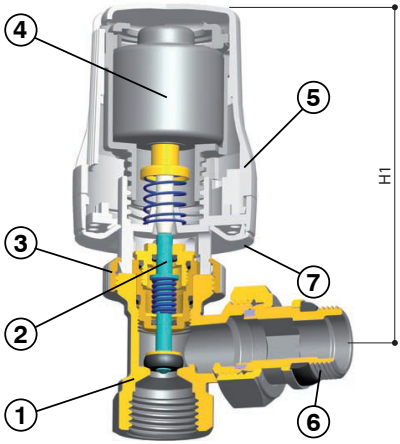
ART 1597
Thermostatic Head

Features

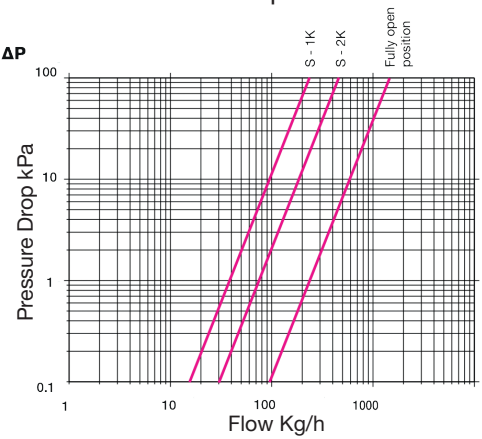
- Screwed BSP Parallel (ISO 228/1)
- Lockable head
- Liquid sensor
- Frost setting 6°C
- Conforms to EN215
- M30 x 1.5 standard connection

Technical data

Max pressure: 10 Bar
Max working temp: 100°C



Flow and Pressure Drop



Dimensions

C	51.0
H	76.5
H1	97.0

N.	Part Name	Materials
1	Body	Brass Nickel Plated
2	Bonnet	Brass
3	Locking Ring	Brass Nickel Plated
4	Thermostat	-
5	Handle	ABS
6	Tail Piece	Brass Nickel Plated
7	Ring	ABS

V1. Dimensions in mm

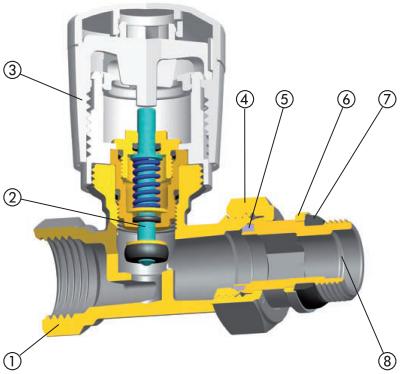
ART 1560
Straight Wheel Head Radiator Valve

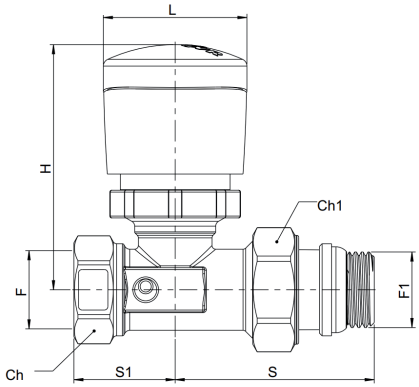
Features

- Screwed BSP Parallel M/F (ISO 228/1)
- Auto seal tail piece
- Suitable for use with all radiators
- BSP to copper adaptor available on request
- Available with pre-setting option

Technical data

Max pressure: 10 Bar
Max working temp: 100°C

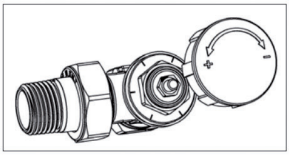


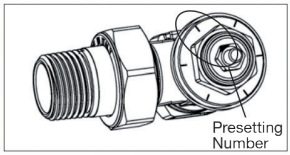


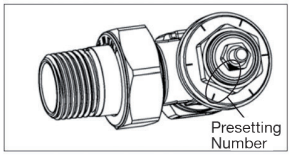
N.	Part Name	Materials
1	Body	Nickel Plated Brass (CW617N)
2	Bonnet	Nickel Plated Brass (CW617N)
3	Handle	ABS
4	Nut	Nickel Plated Brass (CW617N)
5	Gasket	PTFE
6	Washer	Nickel Plated Brass (CW614N)
7	Gasket Rubber	EPDM
8	Tail Piece	Nickel Plated Brass (CW617N)

DN	3/8”	1/2”	3/4”
S	49	54	63
S1	25	28	33
H	66	66	68
L	39	39	39
Ch	22	26	32
Ch1	25	30	37

Presetting





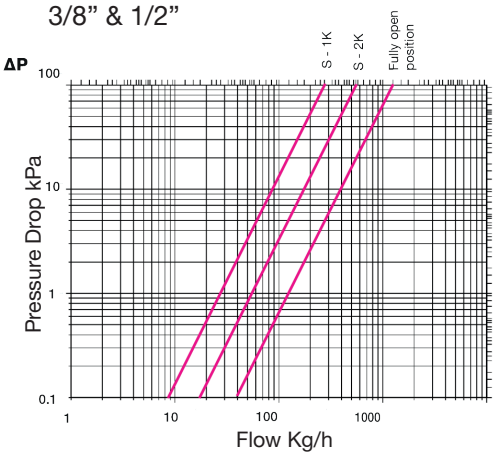


V1. Dimensions in mm

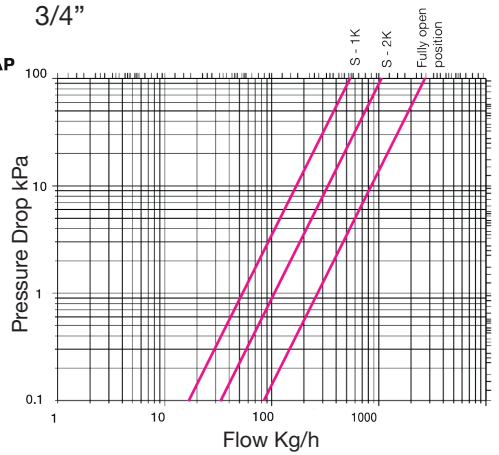
ART 1560

Flow and Pressure Drop without thermostatic head

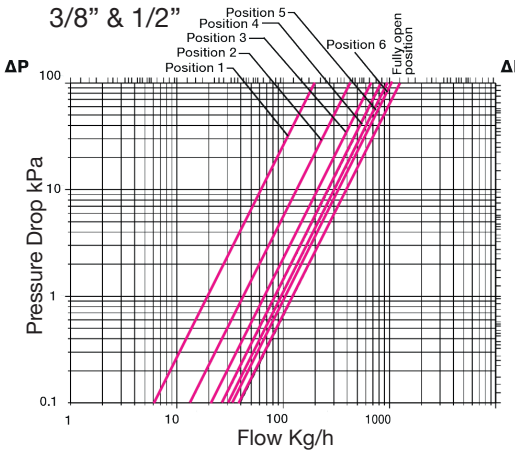
3/8" & 1/2"



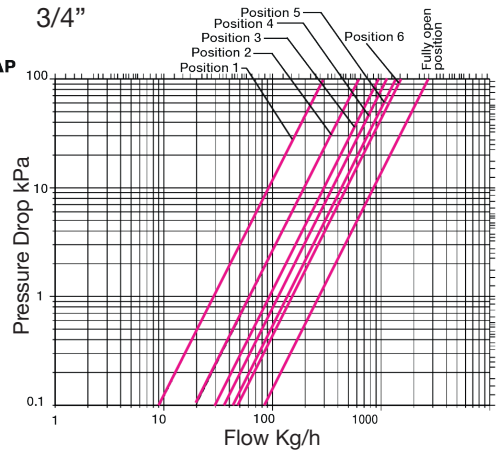
3/4"



3/8" & 1/2"



3/4"



1) Unscrew the cap (or manual handle), tighten the nut clockwise to the limit and identify notch's position.
2) Unscrew the nut to the chosen setting position according to the chart above.

Position	60°	120°	180°	240°	300°	360°
	1	2	3	4	5	6
	±60%	±50%	±40%	±30%	±20%	±20%
3/8" & 1/2"	62	135	210	270	308	330
3/4"	92	198	300	363	431	483

N.B. Pre-setting at the minimum (all closed) does not guarantee the complete closure of the valve, this operation is only guaranteed by handwheel or cap closure. Do not force the pre-setting once in the complete closure position and do not exceed 3 complete rotations from complete closure position.

V1. Dimensions in mm

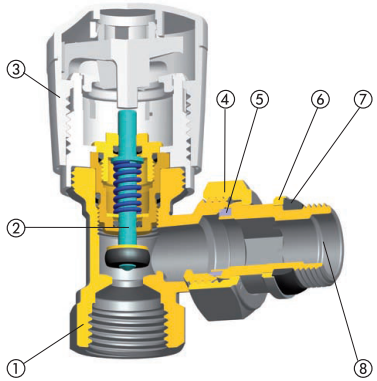
ART 1561
Angle Wheel Head Radiator Valve

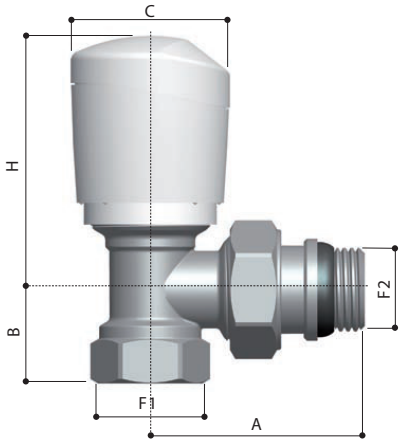
Features

- Screwed BSP Parallel M/F (ISO 228/1)
- Auto seal tail piece
- Suitable for use with all radiators
- BSP to copper adaptor available on request
- Available with pre-setting option

Technical data

Max pressure: 10 Bar
Max working temp: 100°C

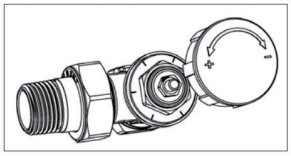


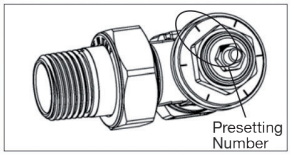


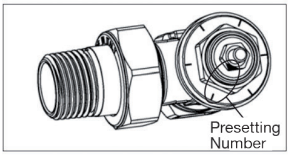
N.	Part Name	Materials
1	Body	Nickel Plated Brass (CW617N)
2	Bonnet	Nickel Plated Brass (CW617N)
3	Handle	ABS
4	Nut	Nickel Plated Brass (CW617N)
5	Gasket	PTFE
6	Washer	Nickel Plated Brass (CW614N)
7	Gasket Rubber	EPDM
8	Tail Piece	Nickel Plated Brass (CW617N)

DN	3/8”	1/2”	3/4”
A	47.0	52.0	59.0
B	20.0	23.0	26.0
C	39.0	39.0	39.0
F1	3/8"	1/2"	3/4"
F2	3/8"	1/2"	3/4"
H	62.0	62.0	62.0

Presetting





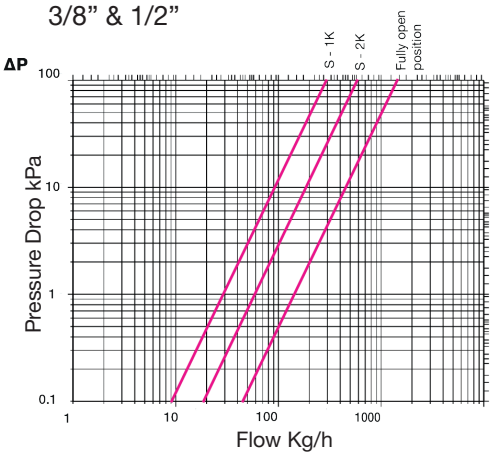


V1. Dimensions in mm

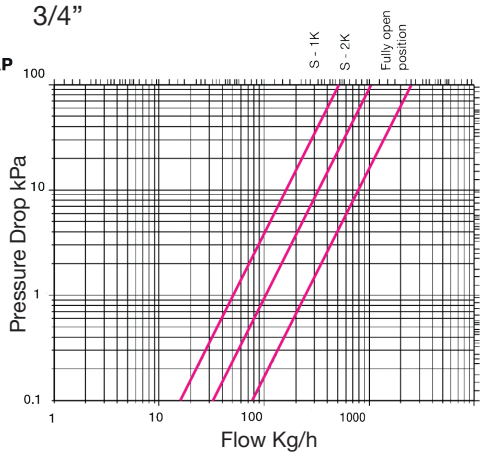
ART 1561

Flow and Pressure Drop without thermostatic head

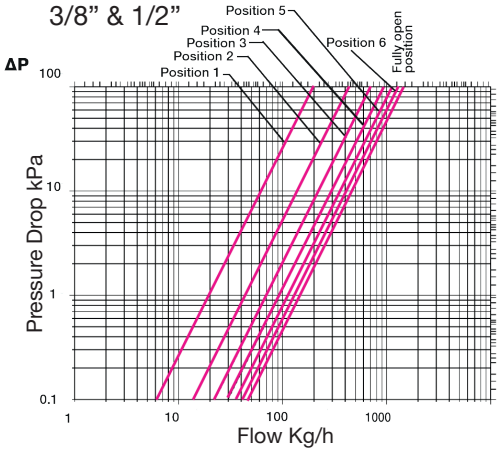
3/8" & 1/2"



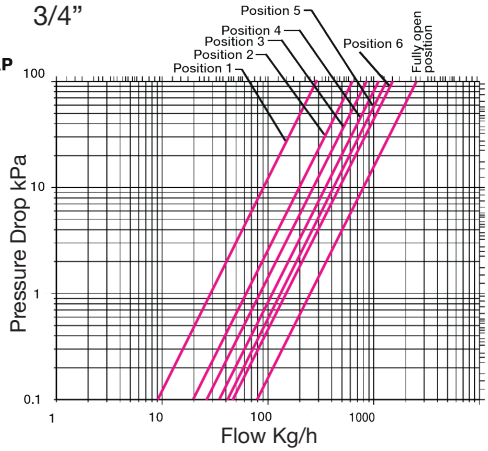
3/4"



3/8" & 1/2"



3/4"



1) Unscrew the cap (or manual handle), tighten the nut clockwise to the limit and identify notch's position.
2) Unscrew the nut to the chosen setting position according to the chart above.

Position	60°	120°	180°	240°	300°	360°
	1	2	3	4	5	6
	±60%	±50%	±40%	±30%	±20%	±20%
3/8" & 1/2"	62	140	222	296	363	410
3/4"	92	198	268	354	420	470

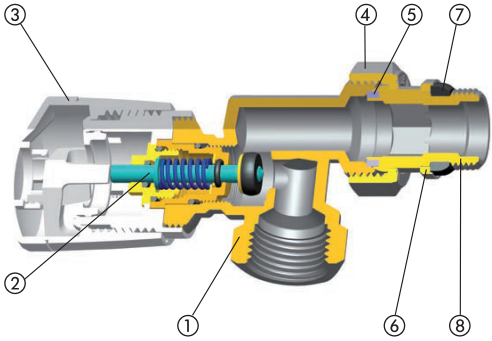
N.B. Pre-setting at the minimum (all closed) does not guarantee the complete closure of the valve, this operation is only guaranteed by handwheel or cap closure. Do not force the pre-setting once in the complete closure position and do not exceed 3 complete rotations from complete closure position.

V1. Dimensions in mm

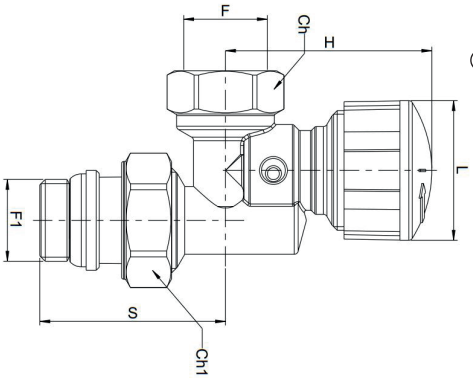
ART 1564
Reverse Angle Wheel Head Radiator Valve

Features

- Screwed BSP Parallel M/F (ISO 228/1)
- Auto seal tail piece
- Suitable for use with all radiators
- BSP to copper adaptor available on request

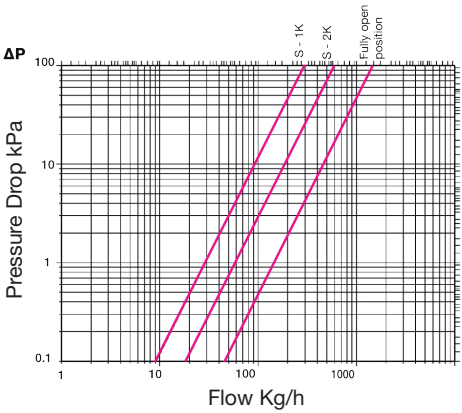


Technical data
Max pressure: 10 Bar
Max working temp: 100°C



DN	1/2”
S	47
H	73
L	35
Ch	26
Ch1	30

Flow and Pressure Drop without thermostatic head



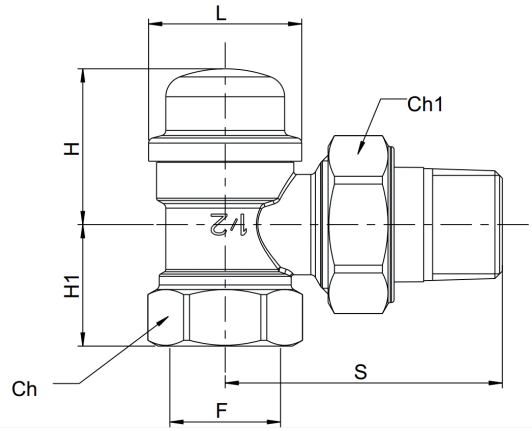
N.	Part Name	Materials
1	Body	Nickel Plated Brass (CW617N)
2	Bonnet	Nickel Plated Brass (CW617N)
3	Handle	ABS
4	Nut	Nickel Plated Brass (CW617N)
5	Gasket	PTFE
6	Washer	Nickel Plated Brass (CW614N)
7	Gasket Rubber	EPDM
8	Tail Piece	Nickel Plated Brass (CW617N)

V1. Dimensions in mm

ART 1553
Angle Lockshield Radiator Valve

Features

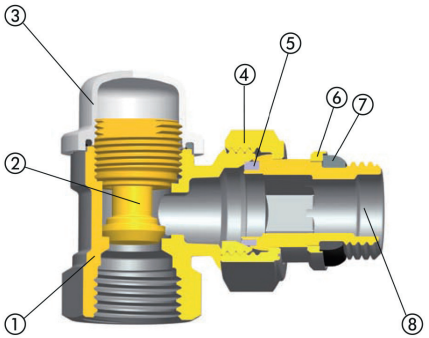
- Screwed BSP Parallel M/F (ISO 228/1)
- Auto seal tail piece
- Suitable for use with all radiators
- BSP to copper adaptor available on request



Technical data

Max pressure: 10 Bar
Max working temp: 100°C

DN	3/8"	1/2"	3/4"
S	50	53	60
H	26	29	39
H1	20	23	26
L	26	26	29
Ch	22	26	32
Ch1	25	30	37



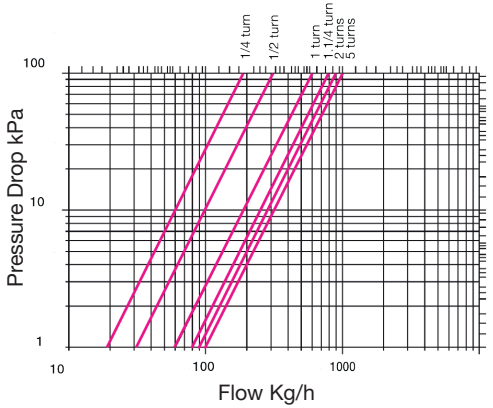
N.	Part Name	Materials
1	Body	Nickel Plated Brass (CW617N)
2	Bonnet	Nickel Plated Brass (CW617N)
3	Cap	ABS
4	Nut	Nickel Plated Brass (CW617N)
5	Gasket	PTFE
6	Washer	Nickel Plated Brass (CW617N)
7	Gasket Rubber	EPDM
8	Tail Piece	Nickel Plated Brass (CW617N)

V1. Dimensions in mm

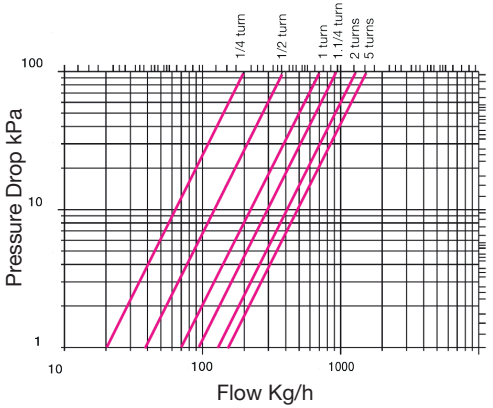
ART 1553

Flow and Pressure Drop

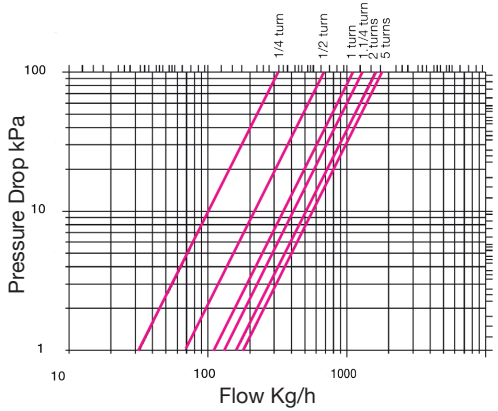
3/8”



1/2”



3/4”



V1. Dimensions in mm

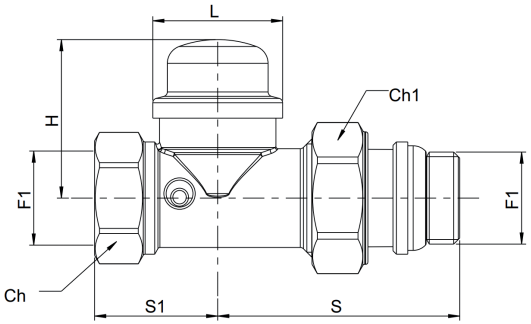
ART 1551
Straight Lockshield Radiator Valve

Features

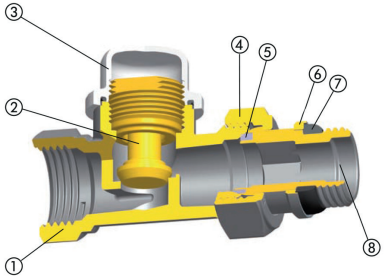
- Screwed BSP Parallel M/F (ISO 228/1)
- Auto seal tail piece
- Suitable for use with all radiators
- BSP to copper adaptor available on request

Technical data

Max pressure: 10 Bar
Max working temp: 100°C



DN	3/8”	1/2”	3/4”
S	49	54	63
S1	25	28	33
H	31	35	37
L	26	26	29
Ch	22	26	32
Ch1	25	30	37



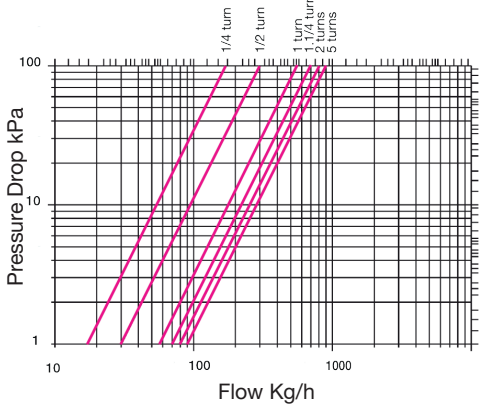
N.	Part Name	Materials
1	Body	Nickel Plated Brass (CW617N)
2	Bonnet	Nickel Plated Brass (CW617N)
3	Cap	ABS
4	Nut	Nickel Plated Brass (CW617N)
5	Gasket	PTFE
6	Washer	Nickel Plated Brass (CW617N)
7	Gasket Rubber	EPDM
8	Tail Piece	Nickel Plated Brass (CW617N)

V1. Dimensions in mm

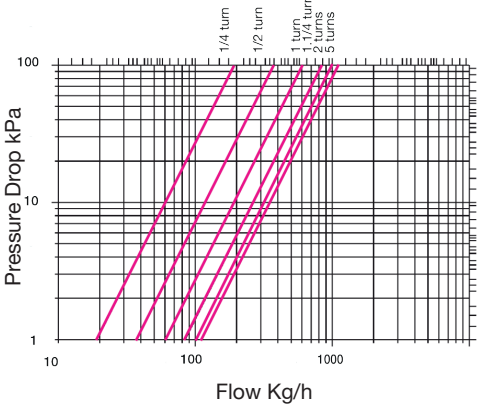
ART 1551

Flow and Pressure Drop

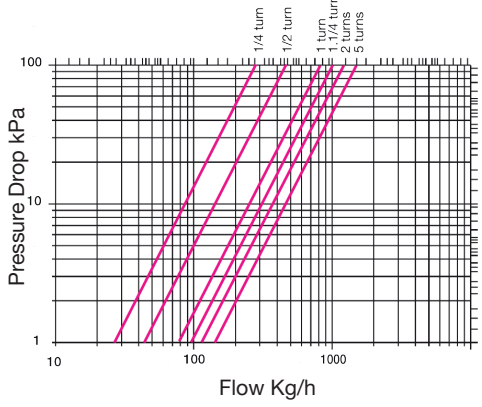
3/8”



1/2”



3/4”

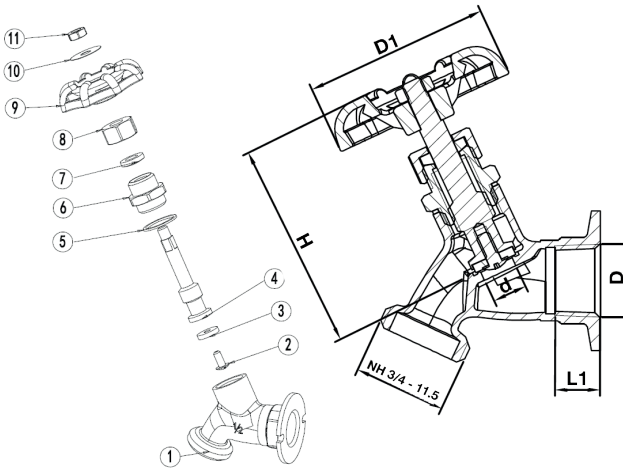


V1. Dimensions in mm

ART 1225
Lead Free Brass Hose Bib Taps

Features

- Female threads NPT (ANSI B1.20.1)
- Male threads 3/4" NHT

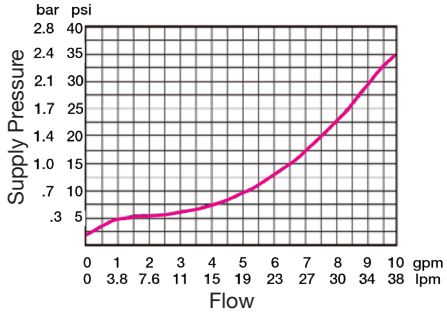


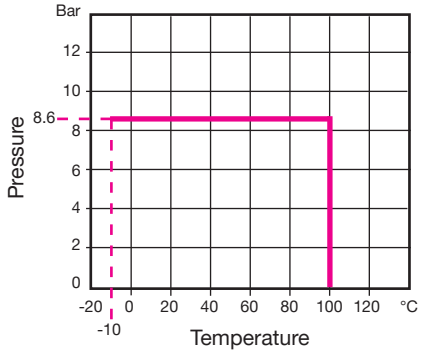
Technical data

Max pressure: 125psi (8.6 Bar)
Working temp: -10°C to +100°C

DN	1/2"	3/4"
D1	53	53
d	10	10
L1	13.5	13.5
H	60.2	60.2
Kgs	0.21	0.23

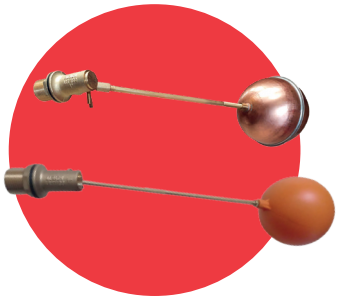
N.	Part Name	Materials
1	Body	Lead Free Brass C46500
2	Screw	Brass
3	Gasket	EPDM
4	Stem	Lead Free Brass C46500
5	Gasket	PTFE
6	Bonnet	Lead Free Brass C46500
7	Gasket	EPDM
8	Nut	Brass
9	Handwheel	Cast Iron
10	Gasket	Aluminium
11	Nut	Steel Q235





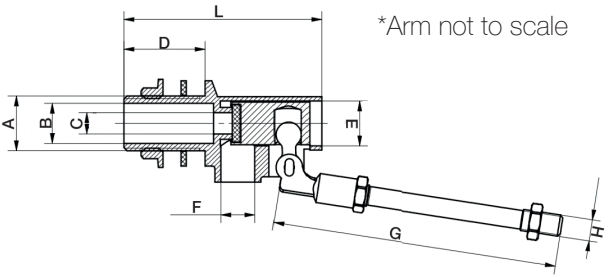
V1. Dimensions in mm

ART 1100
Equilibrium Float Valve



Features

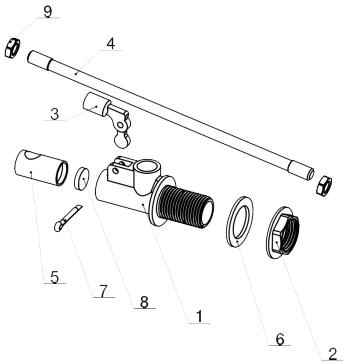
- Screwed BSP Parallel (ISO 228/1)
- Supplied with locknut
- Machined fixed flange on valve body
- No jam single lever action
- Replaceable seals
- Copper and plastic float option available
- DZR Brass option also available



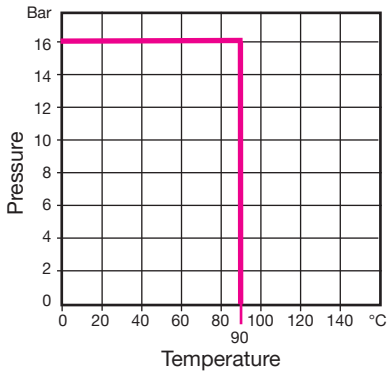
*Arm not to scale

Technical data
Max pressure: 16 Bar
Working temp: -20°C to +90°C

N.	Part Name	Materials
1	Body	Brass HPb57-3
2	Back Nut	Brass HPb57-3
3	Plunger	Brass HPb57-3
4	Arm	Brass HPb57-3
5	Piston	Brass HPb57-3
6	Washer	EPDM
7	Pin	Brass HPb57-3
8	Washer	EPDM
9	Locking Nut	Stainless Steel 304



A	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
B	15.0	21.0	26.5	34.5	40.0	49.5
C	8	10	10	15	17	17
D	30	30	36	50	50	50
E	16.7	20.7	20.5	21.5	21.5	21.5
F	12.5	15.0	15.0	24.0	27.0	27.0
G	220	240	270	330	380	430
H	M8	M8	M8	M10	M10	M12
L	73	75	84	126	131	131
Float Size	4.1/2"	4.1/2"	5"	8"	8"	10"
Kgs (Excl ball)	0.24	0.31	0.41	0.81	1.05	1.45



V2. Dimensions in mm

ART 1100
Equilibrium Float Valve

Size	Pressure	Flow	Pressure	Flow
1/2“	50psi	20 gpm	100psi	31 gpm
3/4“	50psi	40 gpm	100psi	60 gpm
1“	50psi	100 gpm	100psi	150 gpm
1.1/4“ - 2“	50psi	250 gpm	100psi	348 gpm

Plastic floats - Polyethylene

Left: Plastic ball for 1/2” to 2”

Diameter Size	4 1/2”	5”	8”	10”
Kgs	0.07	0.09	0.35	0.65

Copper floats

Left: Copper ball for 1/2” to 1”
Right: Copper ball for 1.1/4” to 2”

Diameter Size	4 1/2”	5”	8”	10”
Kgs	0.08	0.13	0.4	0.65

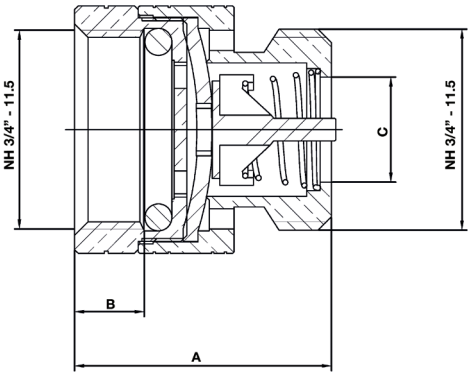
V2. Dimensions in mm

ART 1250

Lead Free Brass Vacuum Breaker

Features

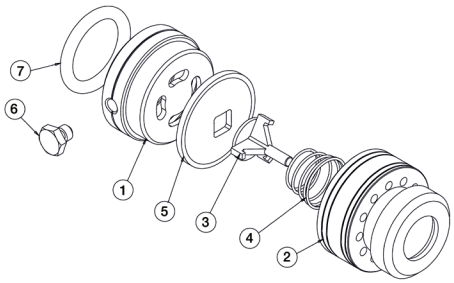
- Male / Female NHT threads
- Conforms to ANSI A1 12.1.13 ASSE standard 1011
- Anti tamper screw
- Manual drain feature



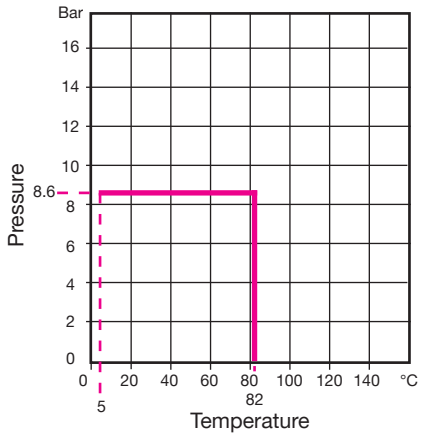
Technical data

Max pressure: 125psi (8.6 Bar)
Working temp: 5°C to +82°C

DN	3/4"
A	34.3
B	9.3
C	14.0
Kgs	0.11

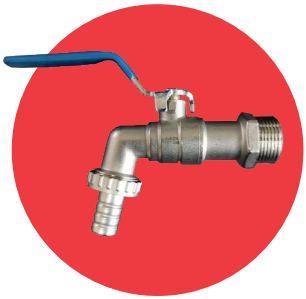


N.	Part Name	Materials
1	Body	Lead Free Brass C46500
2	Bonnet	Lead Free Brass C46500
3	Core	POM
4	Spring	Stainless Steel
5	Gasket	NBR
6	Screw	Brass
7	O-Ring	NBR



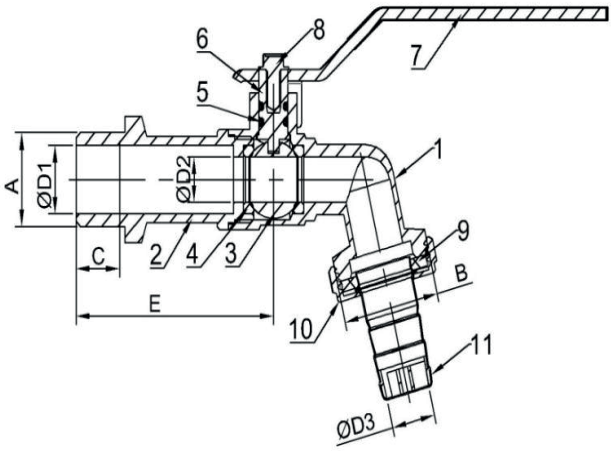
V1. Dimensions in mm

ART 1265
Bibcock Tap with Hose Union



Features

- Screwed BSP Taper (BS21) or NPT (ANSI B1.20.1)



Technical data
Max pressure: 16 Bar
Working temp: 0°C to 110°C

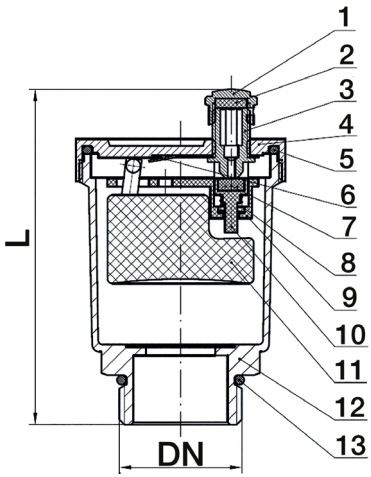
DN	1/2" x 3/4"	3/4" x 1"
A	G1/2"	G3/4"
B	G3/4"	G1"
C	12	12
ØD1	15	20
ØD2	10	12
ØD3	11.8	15.8
E	54.5	56.5
Kgs	0.19	0.25

N.	Part Name	Materials
1	Body	Brass CW617N Nickel Plated
2	Bonnet	Brass CW617N Nickel Plated
3	Ball	Brass CW617N Chrome Plated
4	Seat	PTFE
5	O-Ring	EPDM 70° SH
6	Stem	Brass Hpb59-3
7	Handle	Steel Q235
8	Screw	Steel Q235 Nickel Plated
9	Rubber Gasket	EPDM 70° SH
10	Cap	Brass CW617N Nickel Plated
11	Outlet	Stainless Steel 304 Nickel Plated

V1. Dimensions in mm

ART 1300
Bronze Air Release Valve

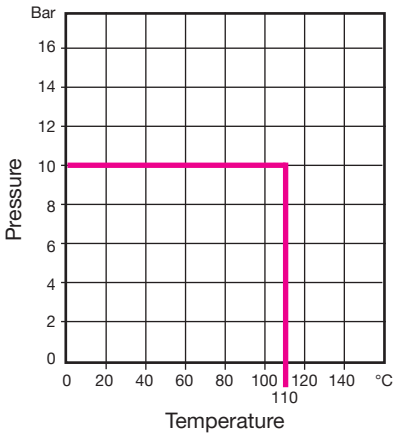
Features
- Screwed BSP Parallel (ISO 228/1)
- Fitted with O-Ring seal



Technical data
Max pressure: 10 Bar
Working temp: 0°C to +110°C

DN	1/2"	3/4"	1"
L	71.3	71.3	74.3
Kgs	0.17	0.18	0.20

N.	Part Name	Materials
1	Nut	Brass HPb59-1
2	Rubber Gasket	EPDM (65° SH (Shore Hardness))
3	Hexagon Screw	Brass HPb57-3
4	Valve Bonnet	Bronze C83600
5	O-Ring	EPDM (70°SH (Shore Hardness))
6	Iron Fittings	Stainless Steel
7	Rubber Gasket	EPDM (65°SH (Shore Hardness))
8	Spring	Stainless Steel
9	Connect Plastic	POM
10	Plastic Cartridge	POM
11	Plastic Parts	Polypropylene PP
12	Valve Body	Bronze C83600
13	O-Ring	EPDM (70°SH (Shore Hardness))

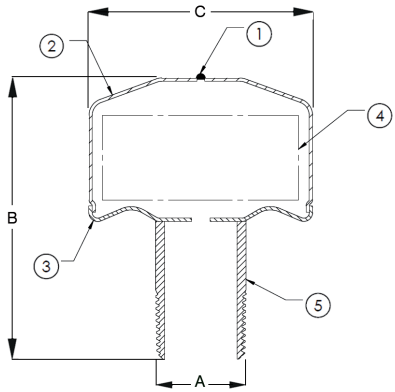


V1. Dimensions in mm

ART 1325
Stainless Steel Water Hammer Arrestor

Features

- Available with BSP or NPT threads.
- SS pre-charged stainless steel WHA, with SS bellows
- Prolonged service life of piping, valves, fittings and other devices
- Reduction in noise in water systems
- Tested and certified to PDI WH-201



Technical data

Working pressure: 150 psi
Static pressure: 250 psi
Max. pressure: 400psi
Working temp: -73°C to +149°C

Pipe Sizing

Suffix	Description
AA	Conn Size 1/2" (15)
A	Conn Size 3/4" (19)
B	Conn Size 1" (25)
C	Conn Size 1" (25)
D	Conn Size 1" (25)
E	Conn Size 1" (25)
F	Conn Size 1" (25)

N.	Part Name	Materials
1	SS Ball, Ø.125	Stainless Steel 304
2	Body	Stainless Steel 304
3	Bottom Cap	Stainless Steel 304
4	Bellows	Stainless Steel 304
5	Pipe fitting	Stainless Steel 304

Technical data

	AA	A	B	C	D	E	F
Fixture Unit	1-11	1-11	12-32	33-60	61-113	114-154	155-330
A	1/2" (15)	3/4" (19)	1" (25)	1" (25)	1" (25)	1" (25)	1" (25)
B	3-1/4" (83)	3-1/4" (83)	4-1/16" (103)	4-3/8" (114)	5-1/4" (133)	7-1/32" (179)	7-1/32" (179)
C	3-1/4" (83)	3-1/4" (83)	3-1/4" (83)	3-1/4" (83)	3-1/4" (83)	3-1/4" (83)	3-1/4" (83)

DN	1/2"	1/2"	3/4"	3/4"	1"	1"
Length of pipe (Ft.)	25	100	50	200	100	50
Flow pressure P.S.I.C	30	60	60	30	60	30
Velocity in feet per sec	10	10	5	10	5	10
Required air chamber						
Volume in cubic inches	8	60	13	108	19	40
Physical size in inches	3/4"x 15"	1"x 69.5"	1"x 15"	1.1/4"x 72.5"	1.1/4"x 12.7"	1.1/4"x 27"

V1. Dimensions in mm

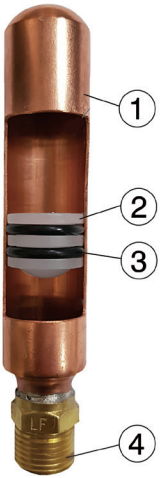
ART 1335
Water Hammer Arrestor

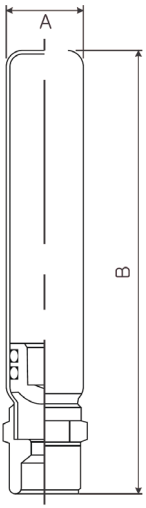
Features

- Available with BSP or NPT threads.
- Lead free
- Precharged, permanent sealed air chamber to absorb the shock
- Approved for installation with no access panel required
- May be installed in new or existing plumbing systems with a standard pipe tee
- Air pre-load is 60psi (4.2 Bar)
- Factory air charged and permanently sealed
- Design standard PDI WH-201

Technical data

Working pressure: 150 psi (10.6 Bar)
Max. pressure: 350psig
Working temp: 0.5°C to +82°C





Pipe Sizing

Suffix	Description
A	Conn, Size 1/2" (15), Height 5.945" (151)
B	Conn Size 3/4" (20), Height 7.264" (184.5)
C	Conn Size 1" (25), Height 8.799" (233.5)
D	Conn Size 1" (25), Height 9.941" (252.5)
E	Conn Size 1" (25), Height 12.697" (322.5)
F	Conn Size 1" (25), Height 11.161" (283.5)

Technical data & dimensions

	A	B	C	D	E	F
Fixture Unit	1-11	12-32	33-60	61-113	114-154	155-330
A	1.125" (28.58)	1.125" (28.58)	1.625" (41.28)	2.125" (53.98)	2.125" (53.98)	2.625" (66.68)
B	5.945" (151)	7.264" (184.5)	8.799" (223.5)	9.941" (252.5)	12.697" (322.5)	11.161" (283.5)
Kgs	0.17	0.22	0.46	0.75	0.92	1.12

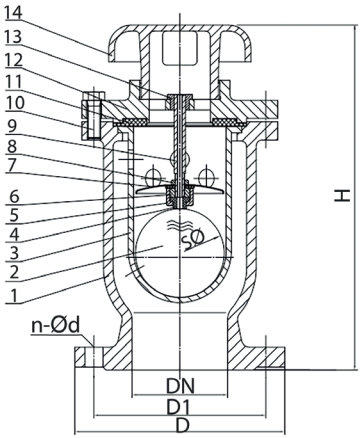
N.	Part Name	Materials
1	Body	Copper
2	Piston	Polypropylene
3	O-Rings	EPDM
4	Adaptor	Lead Free Brass

V1. Dimensions in mm

ART 1440 ANSI
Ductile Iron Flanged Air Release Valve

Features

- Flanged mounting ANSI 150 (B16.42)
- Conforms to ASME B16.10
- WRAS approved coating
- Internally and externally fusion bonded epoxy coated



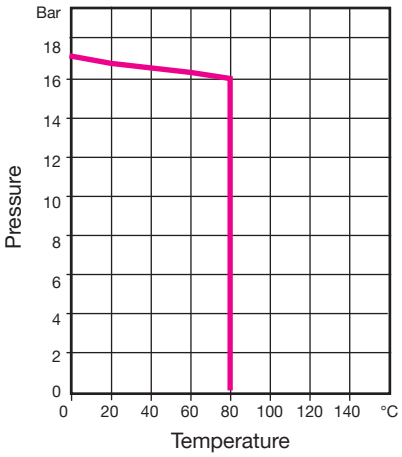
Technical data

Max. pressure: 17.2 Bar

Working temp: 0°C to +80°C

DN	50	65	80	100	150	200	250	300
D	152	178	191	229	279	343	406	483
D1	120.5	139.5	152.5	190.5	241.5	298.5	362.0	432.0
n-d	4-Ø19	4-Ø19	4-Ø19	8-Ø19	8-Ø22.4	8-Ø22.4	12-Ø25.4	12-Ø25.4
H	330	365	365	387	465	495	525	587
SØ	94	94	94	94	135	160	200	250
Kgs	16.0	20.0	22.5	50.0	55.0	68.0	75.0	96.0

N.	Part Name	Materials
1	Body	Ductile Iron ASTM A536
2	Ball	Stainless Steel A351 Grade CF8
3	Sleeve	Ductile Iron ASTM A536
4	Seat	NBR ASTM D1349
5	Bearing	Brass ASTM B124M
6	Plug	Brass ASTM B124M
7	Guide	Stainless Steel ASTM A276 CF8
8	Nut	Brass ASTM B124M
9	Stem	Brass ASTM B124M
10	Bolt	Stainless Steel ASTM A276 CF8
11	Washer	NBR ASTM D1349
12	Bonnet	Ductile Iron ASTM A536
13	Bush	Brass ASTM B124M
14	Cover	Ductile Iron ASTM A536

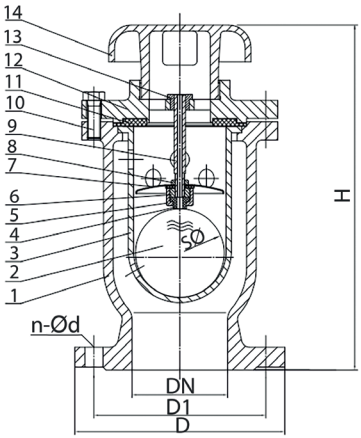


V1. Dimensions in mm

ART 1450 PN16
Ductile Iron Flanged Air Release Valve

Features

- Flange mounting PN16 only
- Flange conforms to BS EN1092 PN16
- WRAS approved coating
- Internally and externally fusion bonded epoxy coated



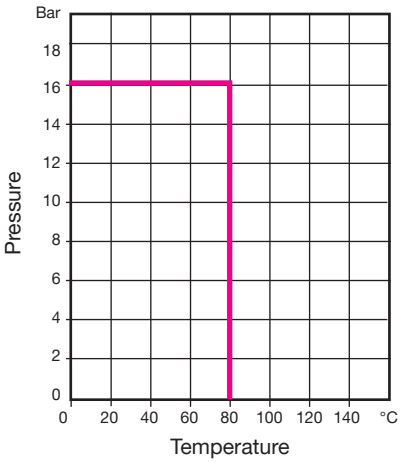
Technical data

Max. pressure: 16 Bar

Working temp: 0°C to +80°C

DN	50	65	80	100	150	200	250	300
D	165	185	200	220	285	340	405	460
D1	125	145	160	180	240	295	355	410
n-d	4-Ø19	4-Ø19	8-Ø19	8-Ø19	8-Ø23	12-Ø23	12-Ø28	12-Ø28
H	330	365	365	387	465	495	525	587
SØ	94	94	94	94	135	160	200	250
Kgs	16.0	20.0	22.5	50.0	55.0	68.0	75.0	96.0

N.	Part Name	Materials
1	Body	Ductile Iron BS EN1563
2	Ball	Stainless Steel EN10213 GX5CrNi19-10
3	Sleeve	Ductile Iron BS EN1563
4	Seat	NBR EN681
5	Bearing	Brass EN12166
6	Plug	Brass EN12166
7	Guide	Stainless Steel EN10213 GX5CrNi19-10
8	Nut	Brass EN12166
9	Stem	Brass EN12166
10	Bolt	Stainless Steel BS970 304S15
11	Washer	NBR EN681
12	Bonnet	Ductile Iron BS EN1563
13	Bush	Brass EN12166
14	Cover	Ductile Iron BS EN1563

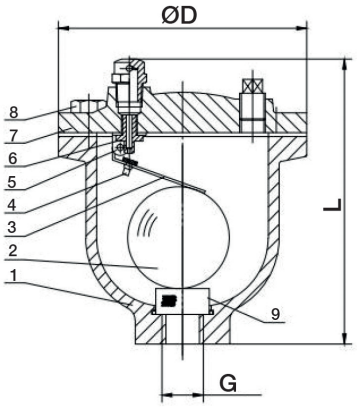


V1. Dimensions in mm

ART 1460
Ductile Iron Single Air Release Valve

Features

- Available in screwed BSP Taper (ISO 7/1) or NPT (ANSI B1.20.1)
- WRAS approved coating
- Internally and externally fusion bonded epoxy coated

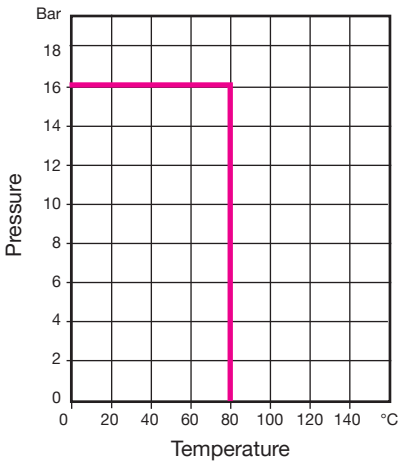


Technical data

Max. pressure: 16 Bar
Working temp: 0°C to +80°C

DN	15	20	25	32	40	50
G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
D	118	118	118	145	145	145
L	145	145	145	225	225	225
Outlet	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Air Vent Hole	Ø1.6	Ø1.6	Ø1.6	Ø1.6	Ø1.6	Ø1.6
Kgs	2.50	2.40	2.30	5.80	5.50	5.30

N.	Part Name	Materials
1	Body	Ductile Iron QT450-10
2	Float Ball	Stainless Steel 304
3	Lever	Stainless Steel 304
4	Plug	NBR
5	Lever Seat	Stainless Steel 304
6	Seat	Stainless Steel 304
7	Cover	Ductile Iron QT450-10
8	Screw	Stainless Steel A2-70
9	Screen	Stainless Steel 304

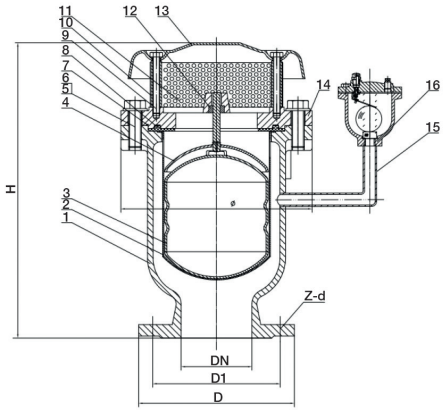


V1. Dimensions in mm

ART 1470 PN16
Flanged Double Orifice Air Release Valve

Features

- Flange mounting PN16 only
- Flange conforms to BS EN1092 PN16
- WRAS approved coating
- Internally and externally fusion bonded epoxy coated



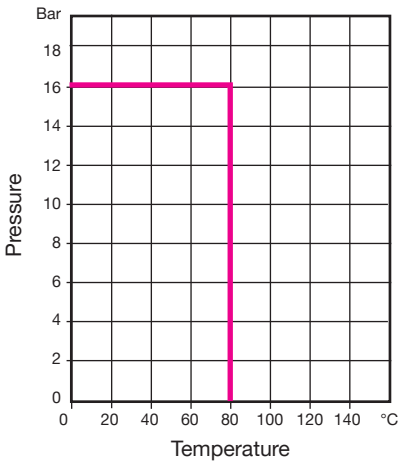
Technical data

Max. pressure: 16 Bar

Working temp: 0°C to +80°C

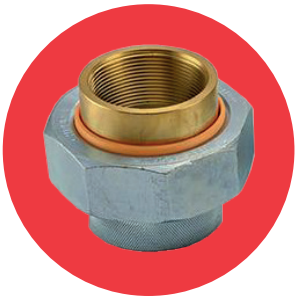
DN	50	65	80	100	150	200
H	300	330	330	350	420	470
D	165	185	200	220	285	340
D1	125	145	160	180	240	295
Z-d	4-19	4-19	8-19	8-19	8-23	8-23 / 12-23
Ø	305	330	330	345	385	440
Kgs	20.0	24.0	27.0	54.0	61.0	75.0

N.	Part Name	Materials
1	Body	Ductile Iron
2	Sleeve	Stainless Steel 304
3	Ball	Stainless Steel 304
4	Disc	Stainless Steel 304
5	Bolt	Stainless Steel 304
6	Washer	Stainless Steel 304
7	O-Ring	NBR
8	Gasket	NBR
9	Bolt	Stainless Steel 304
10	Disc	Stainless Steel 304
11	Screen	Stainless Steel 304
12	Disc Guide	HPb59-1
13	Cover	Ductile Iron
14	Adaptor	Ductile Iron
15	Fitting	Stainless Steel 304
16	Air Release Valve	Ductile Iron + Stainless Steel 304



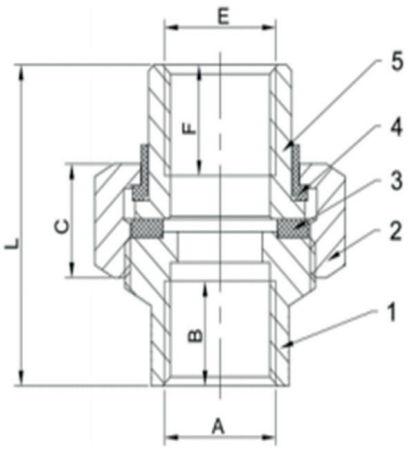
V1. Dimensions in mm

DEUFF
Dielectric Union



Features

- Female iron pipe thread to female brass thread
- Available with BSP Parallel threads (ISO 228/1) or NPT threads (ANSI B1.20.1)
- Complies with ASSE 1079



Technical data

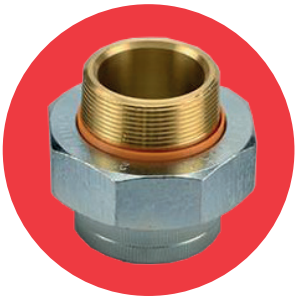
Max. pressure: 17.2 Bar (250psi)
Max. temp: 82°C (180°F)

DN	1/2”	3/4”	1”	1 1/4”	1 1/2”	2”
A	G1/2"	G3/4"	G1"	G1.1/4"	G1.1/2"	G2"
B	17	18	20	21	22	24
C	20	22	22	25	28	33
E	G1/2"	G3/4"	G1"	G1.1/4"	G1.1/2"	G2"
F	18	19	23	25	25	27
L	52	56	63	68	74	81
Kgs	0.25	0.26	0.29	0.43	0.65	1.10

N.	Part Name	Materials
1	IPS Connection	Steel / Zinc Plated
2	Nut	Steel / Zinc Plated
3	Gasket	NBR (EPDM option)
4	Insert	Nylon
5	Connection	Brass

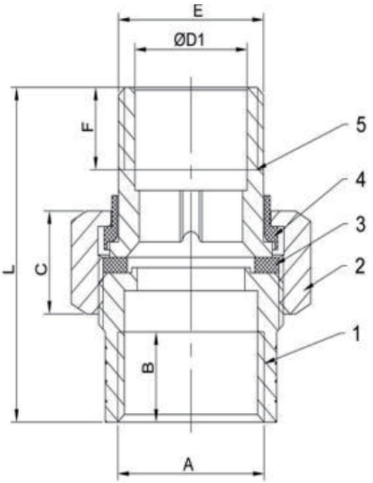
V2. Dimensions in mm

DEUMF
Dielectric Union



Features

- Female iron pipe thread to male brass pipe threaded connections
- Available with BSP Parallel threads (ISO 228/1) or NPT threads (ANSI B1.20.1)
- Complies with ASSE 1079



Technical data

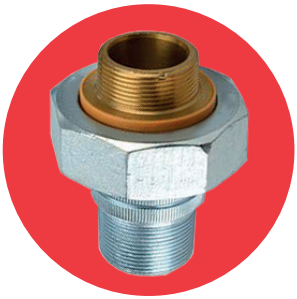
Max. pressure: 17.2 Bar (250psi)
Max. temp: 82°C (180°F)

DN	1/2”	3/4”	1”	1 1/4”	1 1/2”	2”
A	G1/2"	G3/4"	G1"	G1.1/4"	G1.1/2"	G2"
B	16.5	17.0	18.0	20.0	20.0	22.0
C	19	20	22	25	28	28
E	G1/2"	G3/4"	G1"	G1.1/4"	G1.1/2"	G2"
F	15.0	17.0	16.0	18.0	20.0	20.5
L	57.0	59.5	67.0	73.0	75.0	79.0
Kgs	0.18	0.25	0.33	0.70	1.41	1.25

N.	Part Name	Materials
1	IPS Connection	Steel / Zinc Plated
2	Nut	Steel / Zinc Plated
3	Gasket	NBR (EPDM option)
4	Insert	Nylon
5	Connection	Brass

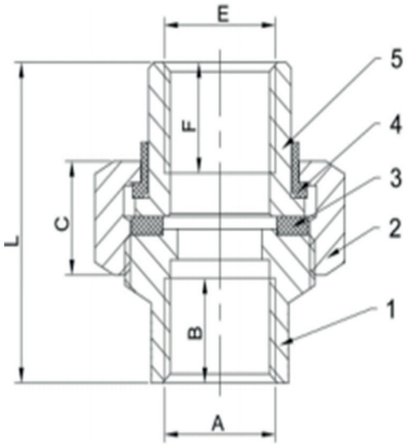
V2. Dimensions in mm

DEUMM
Dielectric Union



Features

- Male iron pipe thread to male brass pipe threaded connections
- Available with BSP Parallel threads (ISO 228/1) or NPT threads (ANSI B1.20.1)
- Complies with ASSE 1079



Technical data

Max. pressure: 17.2 Bar (250psi)
Max. temp: 82°C (180°F)

DN	1/2”	3/4”	1”	1 1/4”	1 1/2”	2”
A	G1/2"	G3/4"	G1"	G1.1/4"	G1.1/2"	G2"
B	40	42	50	51	52	54
C	19	20	22	25	28	28
E	G1/2"	G3/4"	G1"	G1.1/4"	G1.1/2"	G2"
F	16.0	18.0	20.0	22.0	22.0	20.5
L	77	82	94	100	106	112
Kgs	0.24	0.32	0.51	0.96	1.78	1.68

N.	Part Name	Materials
1	IPS Connection	Steel / Zinc Plated
2	Nut	Steel / Zinc Plated
3	Gasket	NBR (EPDM option)
4	Insert	Nylon
5	Connection	Brass

V2. Dimensions in mm

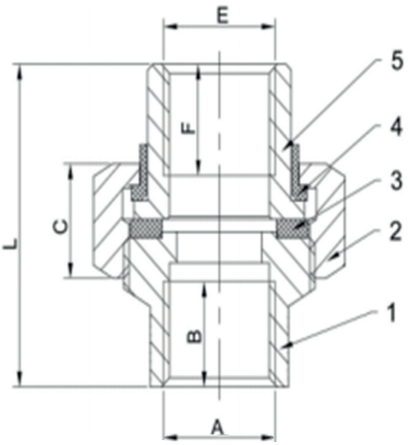
DEUSF
Dielectric Union

Features

- Female iron pipe thread to brass solder end
- Available with BSP Parallel threads (ISO 228/1) or NPT threads (ANSI B1.20.1)
- Complies with ASSE 1079

Technical data

Max. pressure: 17.2 Bar (250psi)
Max. temp: 82°C (180°F)



DN	1/2”	3/4”	1”	1 1/4”	1 1/2”	2”
A	G1/2"	G3/4"	G1"	G1.1/4"	G1.1/2"	G2"
B	16	17	18	21	20	22
C	19	20	22	23	25	28
E	G1/2"	G3/4"	G1"	G1.1/4"	G1.1/2"	G2"
F	15.0	16.0	18.0	23.0	20.0	20.5
L	46	52	58	65	71	75
Kgs	0.23	0.31	0.49	0.68	1.38	1.76

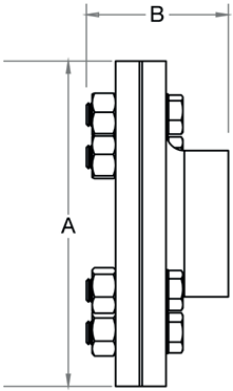
N.	Part Name	Materials
1	IPS Connection	Steel / Zinc Plated
2	Nut	Steel / Zinc Plated
3	Gasket	NBR (EPDM option)
4	Insert	Nylon
5	Solder Connection	Brass

V2. Dimensions in mm

DEFWS
Dielectric Flange

Features

- Steel side weld end x brass side solder end
- Flanged PN16 or ANSI 150
- Brass side solder end
- Steel side welded end



Technical data

Max. pressure: 17.2 Bar (250psi)
Max. temp: 120°C (248°F)

Model	Steel Side Connection		Copper Side Connection		A		B		Kgs
					in	mm	in	mm	
DEF-WS-1	2 1/2"	Weld	35mm (1 3/8")	Solder	7 1/4	184	3 1/8	80	5.8
DEF-WS-2	2 1/2"	Weld	42mm (1 5/8")	Solder	7 1/4	184	3 1/8	80	6
DEF-WS-3	2 1/2"	Weld	54mm (2 1/8")	Solder	7 1/4	184	3 1/4	83	6.2
DEF-WS-4	2 1/2"	Weld	67mm (2 5/8")	Solder	7 1/4	197	3 3/8	86	6.4
DEF-WS-5	3"	Weld	54mm (2 1/8")	Solder	7 3/4	197	3 1/2	89	8.2
DEF-WS-6	3"	Weld	67mm (2 5/8")	Solder	7 3/4	197	3 5/8	92	8.2
DEF-WS-7	3"	Weld	80mm (3 1/8")	Solder	7 3/4	222	3 3/4	95	8.2
DEF-WS-8	4"	Weld	54mm (2 1/8")	Solder	8 3/4	222	4	102	13.6
DEF-WS-9	4"	Weld	67mm (2 5/8")	Solder	8 3/4	222	4 1/8	105	13.9
DEF-WS-10	4"	Weld	80mm (3 1/8")	Solder	8 3/4	222	4 1/4	108	14.2
DEF-WS-11	4"	Weld	105mm (4 1/8")	Solder	8 3/4	222	4 3/8	111	14.5
DEF-WS-12	5"	Weld	80mm (3 1/8")	Solder	9 3/4	248	4 7/8	124	17.3
DEF-WS-13	5"	Weld	105mm (4 1/8")	Solder	9 3/4	248	5	127	17.7
DEF-WS-14	5"	Weld	130mm (5 1/8")	Solder	9 3/4	248	5 1/4	133	18.1
DEF-WS-15	6"	Weld	105mm (4 1/8")	Solder	11 1/4	285	5 5/8	144	21.5
DEF-WS-16	6"	Weld	130mm (5 1/8")	Solder	11 1/4	285	5 3/4	147	21.8
DEF-WS-17	6"	Weld	155mm (6 1/8")	Solder	11 1/4	285	6	153	22.2
DEF-WS-18	8"	Weld	130mm (5 1/8")	Solder	13 3/8	340	7 1/4	183	29.4
DEF-WS-19	8"	Weld	155mm (6 1/8")	Solder	13 3/8	340	7 1/2	190	29.9
DEF-WS-20	8"	Weld	206mm (8 1/8")	Solder	13 3/8	340	7 3/4	196	30.4

Part Name	Materials
Steel Flange	Steel with Epoxy Coating
Bolts	Steel / Zinc Plated
Washer	Steel / Zinc Plated
Nuts	Steel / Zinc Plated

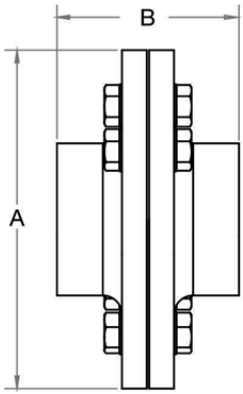
Part Name	Materials
Bolt Insulators	Nylon
Gasket	NBR (EPDM option)
Tail Piece	Lead Free Brass (LF)
Tail Piece Insulator	Nylon

V2. Dimensions in mm

DEFFF
Dielectric Flange

Features

- Steel side female threading x brass side female threading
- Steel side threading BSPT / NPT
- Brass side threading BSPT / NPT



Technical data

Max. pressure: 17.2 Bar (250psi)
Max. temp: 120°C (248°F)

Model	Steel Side Connection		Copper Side Connection		A		B		Kgs
					in	mm	in	mm	
DEF-FF-1	2 1/2"	FPT	1 1/4"	FPT	7 1/4	184	4 1/4	104	6.8
DEF-FF-2	2 1/2"	FPT	1 1/2"	FPT	7 1/4	184	4 1/4	104	6.9
DEF-FF-3	2 1/2"	FPT	2"	FPT	7 1/4	184	4 1/4	106	7.1
DEF-FF-4	2 1/2"	FPT	2 1/2"	FPT	7 1/4	184	4 1/4	108	7.3
DEF-FF-5	3"	FPT	1 1/2"	FPT	7 3/4	197	4 1/2	110	8.2
DEF-FF-6	3"	FPT	2"	FPT	7 3/4	197	4 1/2	112	8.4
DEF-FF-7	3"	FPT	2 1/2"	FPT	7 3/4	197	4 1/2	114	8.6
DEF-FF-8	3"	FPT	3"	FPT	7 3/4	197	4 1/2	114	8.8
DEF-FF-9	4"	FPT	2 1/2"	FPT	8 3/4	222	4 3/4	121	15.3
DEF-FF-10	4"	FPT	3"	FPT	8 3/4	222	4 3/4	121	15.6
DEF-FF-11	4"	FPT	4"	FPT	8 3/4	222	4 3/4	121	15.9
DEF-FF-12	5"	FPT	3"	FPT	9 3/4	248	5 1/4	133	19.1
DEF-FF-13	5"	FPT	4"	FPT	9 3/4	248	5 1/4	133	19.4
DEF-FF-14	5"	FPT	5"	FPT	9 3/4	248	5 1/4	133	19.7
DEF-FF-15	6"	FPT	4"	FPT	11 1/4	285	6	153	23
DEF-FF-16	6"	FPT	5"	FPT	11 1/4	285	6	153	23.4
DEF-FF-17	6"	FPT	6"	FPT	11 1/4	285	6	153	23.8
DEF-FF-18	8"	FPT	5"	FPT	13 3/8	340	7 1/4	185	32.5
DEF-FF-19	8"	FPT	6"	FPT	13 3/8	340	7 1/4	185	33
DEF-FF-20	8"	FPT	8"	FPT	13 3/8	340	7 1/4	185	33.5

Part Name	Materials
Steel Flange	Steel with Epoxy Coating
Bolts	Steel / Zinc Plated
Washer	Steel / Zinc Plated
Nuts	Steel / Zinc Plated

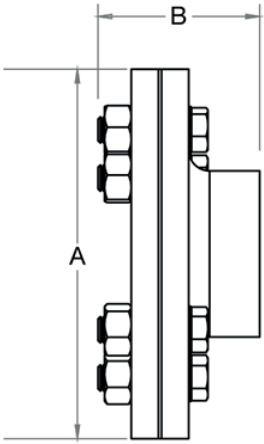
Part Name	Materials
Bolt Insulators	Nylon
Gasket	NBR (EPDM option)
Tail Piece	Lead Free Brass (LF)
Tail Piece Insulator	Nylon

V2. Dimensions in mm

DEFWB
Dielectric Flange

Features

- Steel side weld end x bronze side solder end
- Flanged to PN16 or ANSI 150
- Bronze side solder end
- Steel side welded end



Technical data

Max. pressure: 17.2 Bar (250psi)
Max. temp: 82°C (180°F)

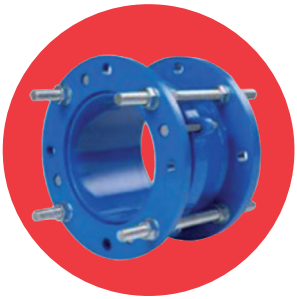
Model	Steel Side Connection		Copper Side Connection		A		B		Kgs
					in	mm	in	mm	
DEF-WB-1	2 1/2"	Weld	67mm (2 5/8")	Solder	7 1/4	184	3 1/2	89	5.4
DEF-WB-2	3"	Weld	80mm (3 1/8")	Solder	7 3/4	197	3 3/4	95	6.4
DEF-WB-3	4"	Weld	105mm (4 1/8")	Solder	8 3/4	222	4 3/8	111	13.6
DEF-WB-4	5"	Weld	130mm (5 1/8")	Solder	9 3/4	248	5 1/4	133	16.8
DEF-WB-5	6"	Weld	155mm (6 1/8")	Solder	11 1/4	285	6	153	19.2
DEF-WB-6	8"	Weld	206mm (8 1/8")	Solder	13 3/8	340	7 3/4	196	27.3

Part Name	Materials
Steel Flange	Steel with Epoxy coating
Bolts	Steel / Zinc Plated
Washer	Steel / Zinc Plated
Nuts	Steel / Zinc Plated

Part Name	Materials
Bolt Insulators	Nylon
Gasket	NBR (EPDM option)
Tail Piece	Bronze
Tail Piece Insulator	Nylon

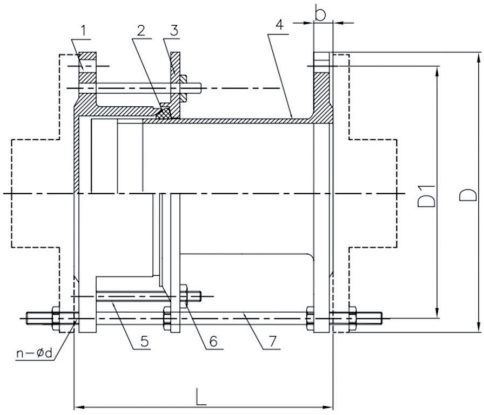
V2. Dimensions in mm

DMJ
Dismantling Joint



Features

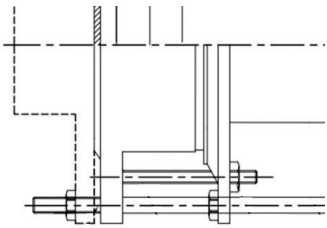
- Connection Standard EN1092-2
- Minimum longitudinal adjustment - +/-25mm
- Suitable media - water
- Fusion Bond Epoxy Coating



Technical data

Max pressure: 10 / 16 Bar
Working temp: 0°C to +80°C

Longitudinal Adjustment Stud Bolt Details

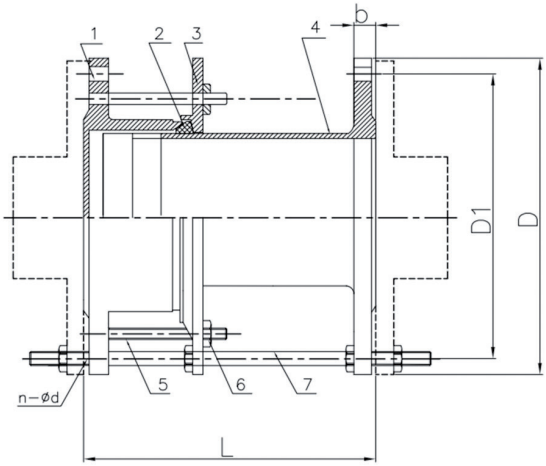


N.	Part Name	Materials
1	Body	Ductile Iron GGG35
2	Sealing Ring	EPDM
3	Retainer	Ductile Iron GGG35
4	Limited Joint	Carbon Steel Q235
5	Stud	Stainless Steel 304
6	Nut	Stainless Steel 304
7	Bolt	Stainless Steel 304

DN	n-Ød (Stud)	C (Stud Length)
50	2-12	330
65	2-12	330
80	4-12	330
100	4-12	330
150	4-12	340
200	4-12	340
250	6-12	340
300	6-12	370
350	8-14	370
400	8-14	380
450	10-14	380
500	10-14	380
600	10-14	420
700	12-16	420
800	12-16	560
900	14-16	560
1000	14-16	560
1200	16-16	600

V1. Dimensions in mm

DMJ
Dismantling Joint



Flange Bolt Details

PN10

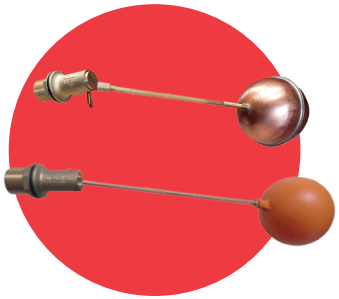
DN	L	n-ØD	D	D1	n-d	Kgs
50	200	4-16	165	125	4-19	8.8
65	200	4-16	185	145	4-19	10.6
80	200	8-16	200	160	8-19	12.0
100	200	8-16	220	180	8-19	15.5
150	200	8-20	285	240	8-23	24.6
200	200	8-20	340	295	8-23	34.1
250	200	12-20	395	350	12-23	45.5
300	220	12-20	445	400	12-23	56.0
350	220	16-20	505	460	16-23	72.0
400	220	16-24	565	515	16-28	97.0
450	220	20-24	615	565	20-28	108.0
500	220	20-24	670	620	20-28	124.0
600	240	20-27	780	725	20-31	155.0
700	240	24-27	895	840	24-31	228.0
800	350	24-30	1015	950	24-34	303.0
900	350	28-30	1115	1050	28-34	355.0
1000	350	28-33	1230	1160	28-37	405.0
1200	370	32-36	1455	1380	32-40	600.0

PN16

DN	L	n-ØD	D	D1	n-d	Kgs
50	200	4-16	165	125	4-19	9.6
65	200	4-16	185	145	4-19	11.5
80	200	8-16	200	160	8-19	14.0
100	200	8-16	220	180	8-19	17.0
150	200	8-20	285	240	8-23	26.0
200	200	12-20	340	295	12-23	37.0
250	200	12-24	405	355	12-28	48.0
300	220	12-24	460	410	12-28	59.0
350	220	16-24	520	470	16-28	78.0
400	220	16-27	580	525	16-31	104.0
450	220	20-27	640	585	20-31	112.0
500	220	20-30	715	650	20-34	129.0
600	240	20-33	840	770	20-37	164.0
700	240	24-33	910	840	24-37	235.0
800	350	24-36	1025	950	24-40	312.0
900	350	28-36	1125	1050	28-40	362.0
1000	350	28-40	1255	1170	28-43	418.0
1200	370	32-45	1485	1390	32-49	618.0

V1. Dimensions in mm

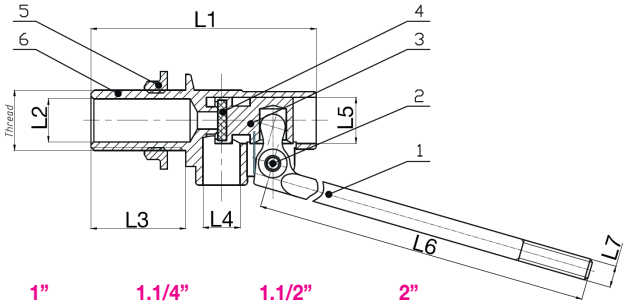
ART 1100W
Equilibrium Float Valve



Features

- Screwed BSP Parallel (ISO 228/1)
- Supplied with locknut
- Machined fixed flange on valve body
- No jam single lever action
- Replaceable seals
- Copper and plastic float option available

*Arm not to scale

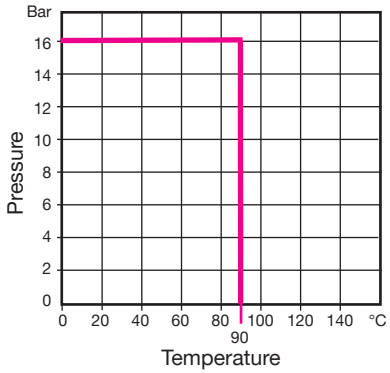


Technical data

Max pressure: 16 Bar
Max WRAS Applications: 14 Bar
Working temp: -20°C to +90°C

DN	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
L1	78.5	78.5	92.5	167.0	167.0	167.0
L2	15.0	20.0	25.5	34.5	39.5	50.5
L3	33.0	33.0	36.5	52.0	52.0	52.0
L4	13.0	13.0	18.0	32.5	32.5	32.5
L5	16.0	16.0	26.0	22.5	22.5	22.5
L6	230.0	275.5	325.0	445.0	445.0	445.0
L7	M8	M8	M10	M10	M10	M12
Kgs (Excl ball)	0.23	0.32	0.59	1.41	1.47	1.54

N.	Part Name	Materials
1	Arm	Brass HPb57-3
2	Plunger	Brass HPb57-3
3	Piston	Brass HPb57-3
4	Washer	EPDM
5	Back Nut	Brass HPb57-3
6	Body	Brass HPb57-3



V1. Dimensions in mm

ART 1100W
Equilibrium Float Valve

Size	Pressure	Flow	Pressure	Flow
1/2"	50psi	20 gpm	100psi	31 gpm
3/4"	50psi	40 gpm	100psi	60 gpm
1"	50psi	100 gpm	100psi	150 gpm
1.1/4" - 2"	50psi	250 gpm	100psi	348 gpm

Float Ball Sizes - Polyethylene and Copper

Size	1/2”	3/4”	1”	1.1/4”	1.1/2”	2”
	4.1/2"	5"	6"	8"	8"	10"

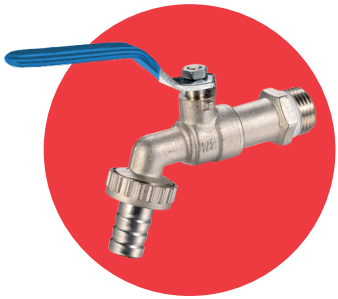
Plastic Floats - Polyethylene

Diameter Size	4 1/2”	5”	6”	8”	10”
Kgs	0.08	0.11	0.15	0.35	0.65

Copper Floats

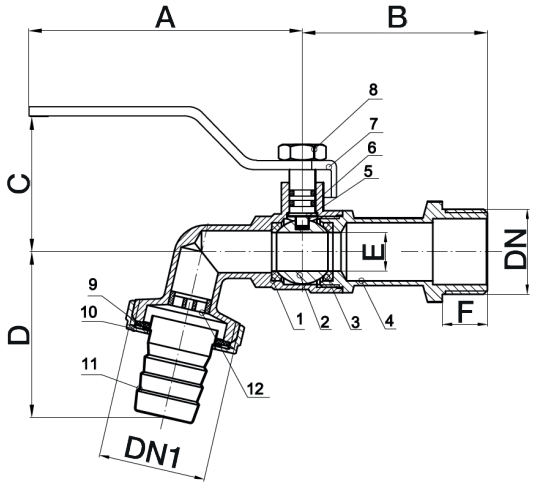
Diameter Size	4 1/2”	5”	6”	8”	10”
Kgs	0.10	0.13	0.26	0.52	0.95

ART 1270
Bibcock Tap with Hose Union



Features

- Screwed BSP Parallel (ISO 228/1)



Technical data
Max pressure: 16 Bar
Working temp: 0°C to 110°C

Size	1/2" x 3/4"	3/4" x 1"	1" x 1.1/4"
DN	1/2"	3/4"	1"
DN1	3/4"	1"	1.1/4"
A	85.0	85.0	106.5
B	52	58	59
C	37	52	55
D	46.5	49.0	54.5
E	10.0	12.0	13.5
F	12	14	14
Kgs	0.18	0.25	0.38

N.	Part Name	Materials
1	Body	DZR Brass CW602N
2	Ball	Leaded Brass CW624N
3	Seat Brass	PTFE
4	Bonnet	DZR Brass CW602N
5	Stem	Leaded Brass CW624N
6	O-Ring	NBR

N.	Part Name	Materials
7	Handle	Carbon Steel Q235A
8	Screw	Stainless Steel 304
9	Washer Ring	NBR
10	Union Nut	Brass CW624N
11	Hose Tail	Stainless Steel 304
12	Insert	PP (White)

V1. Dimensions in mm