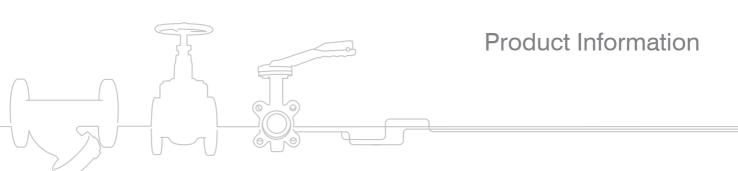


Hydronic Balance & Control Valves







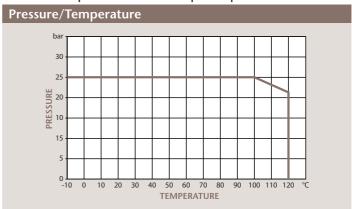


ART 20C (Compact)

PN25 Pressure **Independent Control Valve (PICV or PIBCV)**

Features

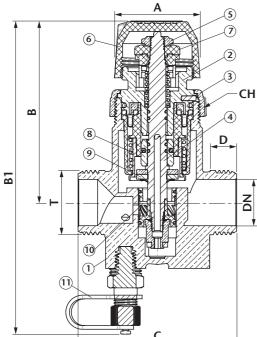
- DZR Brass body (CW602N-M)
- Easy Flow selection via preset dial
- Automatic flow balancing with fluctuating pressures
- Flow modulation along whole control actuator stroke (ART C21V, C22V, C23E)
- Reduction of commissioning, improved energy saving
- Phased installation & system future proofing
- Union tall pieces BSPM 2 required per valve

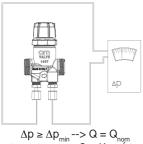


DN	10LF	10HF	15LF	15HF	20HF	25HF
A	35	35	35	35	35	35
В	75	75	75	75	85	83
B1	130	130	130	130	150	146
С	53	53	65	65	82	104
D	9	9	11	11	12	13
T	G. ½"	G. ½"	G. ¾″	G. ¾"	G. 1"	G. 1¼"
СН	39	39	39	39	39	39
Kgs	0.450	0.450	0.490	0.490	0.790	0.960
Flow (I/s)	0.012-0.042	0.024-0.097	0.024-0.097	0.027-0.134	0.042-0.25	0.076-0.447
Min ΔP(k	Pa) 15-16	13-16.5	13-16.5	12.5-19.5	18-26	18-37
Kvs	0.11-0.37	0.24-0.86	0.24-0.86	0.27-1.09	0.35-1.77	0.64-2.65

N.	Part Name	Materials
1	Body	DZR Brass
2	Bonnet	DZR Brass
3	Fixing Ring	DZR Brass
4	Stem	Stainless Steel
5	Locking Nut	Brass
6	Plastic Cap	Plastic
7	Dial	Plastic
8	DPC Controller	DZR Brass
9	Gasket	EPDM
10	Regulator	DZR Brass
11	Binder	DZR Brass







 $\Delta p < \Delta p_{min} --> Q = Kvs \sqrt[4]{\Delta} p$

Technical Data

Max Pressure 25 Bar -10°C to +120°C Working Temperature Differential Pressure Range 4 Bar (400 kPa)

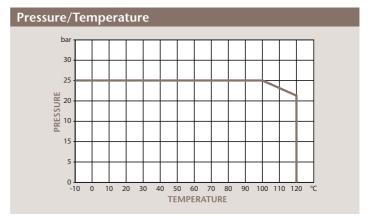
Dimensions in mm



PN25 Pressure Independent Control Valve (PICV or PIBCV)

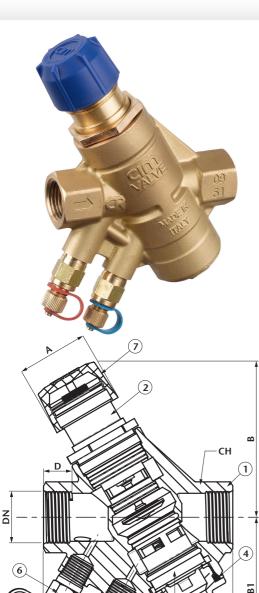
Features

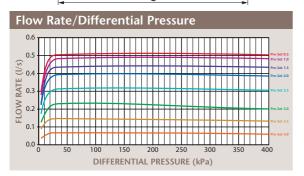
- DZR Brass body (CW602N-M)
- Easy Flow selection via preset dial
- Automatic flow balancing with fluctuating pressures
- Flow modulation along whole control actuator stroke (ART C21V, C22V, C23E)
- Reduction of commissioning, improved energy saving
- Phased installation & system future proofing
- Easy flush due to simple removal of control cartridge



DN	15LF	15HF	20LF	20HF	25LF	25HF	32	40	50	
A	35	35	35	35	35	35	35	35	35	
В	81	81	81	81	81	81	87	120	130	
B1	72	72	72	72	72	72	76	87	93	
С	96	96	97	97	103	103	128	144	155	
D	14	14	15	15	16	16	19	17	20	
CH	27	27	32	32	39	39	47	54	69	
Kgs	0.875	0.875	0.860	0.860	1.015	1.015	1.460	2.550	3.200	
Flow (I/s)	0.022-0.174	0.068-0.479	0.036-0.292	0.081-0.566	0.064-0.478	0.081-0.566	0.129-0.849	0.562-1.974	0.612-2.385	
Min ΔP(kPa)	14.5-16	14-18	14.5-16	14-22	14-16	14-22	14.5-18	16-26	19-32	
Kvs	0.21-1.57	0.65-4.06	0.34-2.63	0.78-4.34	0.62-4.30	0.78-4.34	1.22-7.20	5.06-13.94	5.05-15.18	

N.	Part Name	Materials
1	Body	DZR Brass
2	Bonnet	DZR Brass
3	Plug	DZR Brass
4	O-Ring	EPDM
5	Blue Binder Point	DZR Brass
6	Red Binder Point	DZR Brass
7	Plastic Cap	Plastic





(2)

Technical Data	
Max Pressure	25 Bar
Working Temperature	-10°C to +120°C
Differential Pressure Range	4 Bar (400 kPa)

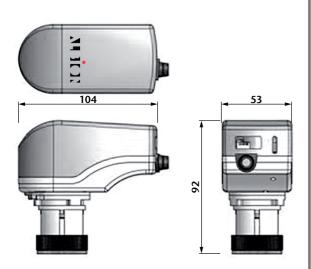
Dimensions in mm



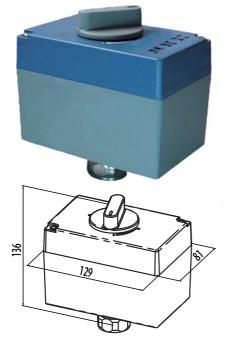
ART C21V/C22V/C23E

C21V / C22V / C23E





C21VL / C22VL / C23EL



Control Actuator to fit PICV ART 20C ALL SIZES / ART 20 DN15-32

Features

- C21V 24 VAC 3 point control
- C22V 230 VAC 3 point control
- C23E 24 VAC 0-10VDC modulation control
- Easy installation. No tools required
- Manual override
- Indicator Light
- Includes 1M cable (Longer cables can be ordered)
- Stall-proof, maintenance free
- Auto stroke on power-up
- Feedback (C23E only)
- Max. force 250N
- Max stroke 6.5mm
- Weight 0.400Kgs



Control Actuator to fit PICV ART 20 DN40-50

Features

- C21VL 24 VAC 3 point control
- C22VL 230 VAC 3 point control
- C23EL 24 VAC 0-10VDC modulation control
- Easy installation. No tools required
- Manual overide
- Indicator Light
- Stall-proof, maintenance free
- Feedback (C23EL only)
- Manual operation by adjusting handle
- Max. force 400N
- Max stroke 6.5mm
- Weight 0.450Kgs
- Input impedance >100 k Ohm (DC 0-10V)

Dimensions in mm



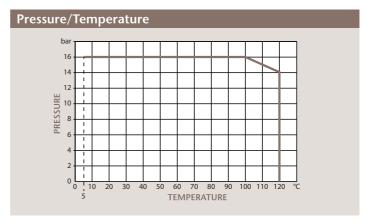


Technical Data	
Max Pressure	16 Bar
Working Temperature	5°C to +120°C
Differential Pressure Range	4 Bar (400 kPa)

PN16 Pressure Independent Control Valve (PICV or PIBCV)

Features

- Ductile Iron ASTM A536-65-45-12
- Control actuator mounted & supplied with PICV
- Easy Flow selection via electronic control actuator LED display
- Automatic flow balancing with fluctuating pressures
- Reduction of balancing costs
- Improved energy saving and high environmental comfort
- Reduced installation dimensions eliminating the requirement of straight pipelines to stabilise the flow



DN	50	65	80	100	125	150
A	178	178	178	178	178	178
В	301	296	324	334	361	396
B1	219	234	239	285	310	350
С	254	276	298	352	400	451
F	125	135	145	160	180	210
G	155	175	185	210	250	280
Н	18x4	18x4	18x8	18x8	18x8	18x8
Kgs	38	48	60	102	126	162
Flow (I/s)	0.833-5.556	1.389-8.333	2.778-11.111	4.167-15.278	4.167-22.222	4.167-41.667
Min ΔP(kPa)	30	30	30	30	30	50
Kvs	36.5	54.8	73	100.4	146.1	273.9

N.	Part Name	Materials	
1	Body	Ductile Iron	
2	Regulator	Bronze	
3	Diaphragm	EPDM	

Dimensions in mm



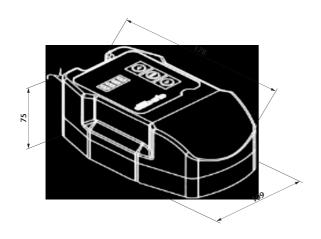
ART C200



Control Actuator to fit PICV ART 200 DN50-150

Features

- Single universal actuator
- Proportional, ON/OFF, 3 Positions, PWM Controls
- Swivel nut easy assembling
- Dual supply voltage: 24 V AC/DC
- Electronic adjustment and control system
- Self-calibration
- 4 digit FND display
- Position feedback: 4-20mA or 2-10 V
- Position detector with encoder
- Supplied with PICV pre-mounted





Technical Data	
Voltage	24 V AC or 24 V DC
Control Signal	PID Control
	ON/OFF
	3 Point
	PWM
Frequency	50 Hz
Closing & Opening Times	170 Sec
Degree/Class of Protection	IP 54
Actuating Torque	4 Nm
Weight	0.900 Kgs

Dimensions in mm



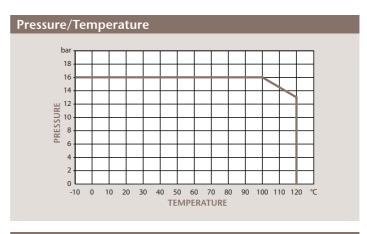
4

ART 24

PN16 Differential Pressure Control Valve (DPCV)

Features

- DZR Brass body (CW602N-M)
- Differential pressure can be set and adjusted in situ
- Tamper proof pre-setting device
- Removable differential pressure cartridge allows forward flushing as well as back-flushing
- Reduction of commissioning, improved energy saving
- Phased installation and system future proofing



N.	Part Name	Materials
1	Body	DZR Brass
2	Bonnet	DZR Brass
3	Stem	DZR Brass
4	Screwed End	DZR Brass
5	Differential Pressure Cartridge	DZR Brass
6	O-Ring	EPDM
7	O-Ring	EPDM
8	Blue Binder Point	DZR Brass
9	Red Binder Point	DZR Brass
10	Cap	Plastic

DN	15 Low ∆P	15High ∆P	20 Low ∆P	20 High ∆P	25 Low ∆P	25 High ∆P	32 High ∆P	40 High ∆P	50 High ∆P
A	40	40	40	40	50	50	50	65	65
В	70	70	72	72	91	91	91	98	105
B1	57	57	57	57	74	74	74	85	90
С	95.5	95.5	96.5	96.5	132	132	132	144.5	155
D	11	11	13	13	14.5	14.5	17	17	20
CH	27	27	32	32	39	39	47	54	67
Kgs	0.825	0.825	0.880	0.880	1.535	1.535	1.625	2.475	2.970
Flow (I/s)	0.014-0.167	0.028-0.333	0.028-0.278	0.042-0.556	0.167-0.694	0.194-1.167	0.278-1.389	0.833-2.222	1.389-4.167
ΔP vers (kPa	5-30	20-60	5-30	20-60	5-30	20-60	20-80	20-80	20-80
Kvs	3.6	3.6	4	4	9.5	9.5	11.4	16.4	17.9

Dimensions in mm

Technical Data
Max Pressure

Working Temperature

16 Bar

-10°C to +120°C



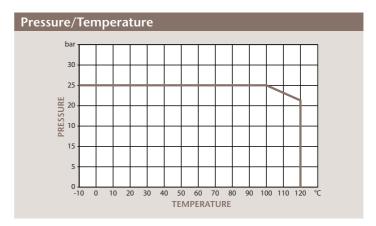
ART 28DP

PN25 - DPCV Partner Valve

Features

- DZR Brass body (CW602N-M)
- Variable orifice double regulating valve
- Impulse tube connection point for ART 24 DPCV
- Supplied as shown with fitting & measuring nipples
- Handwheel shut-off function & clear 360° reading
- Allen key locking mechanism enabling valve to be closed & re-opened to it's exact pre-set position.

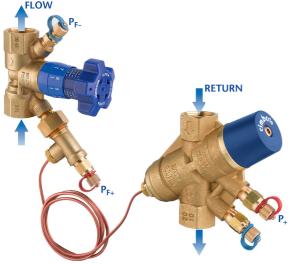
System ΔP is measured from PF- to P+ System flow may be adjusted on ART 28DP whilst measuring ΔP from PF+ to PF-

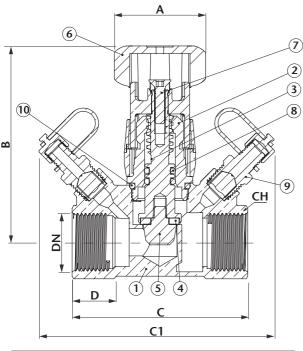


DN	15	20	25	32	40	50
Α	50	50	50	50	50	50
В	87.5	89.5	91.5	99	99	100
С	77	80	87	108	115	124
C1	106	107	107	123	129	132
D	17	18.5	21	22.5	23	26.5
CH	25	31	38	48	55	66
Kgs	0.380	0.440	0.535	0.960	1.120	1.350
Thread	½" Rp	3⁄4″ Rp	1" Rp	1 ¼" Rp	1 ½" Rp	2" Rp
Kvs	1.75	2.87	4.08	6.71	10.4	15.06

N.	Part Name	Materials	
1	Body	DZR Brass	
2	Bonnet	DZR Brass	
3	Stem	DZR Brass	
4	Gasket	EPDM	
5	Shutter	DZR Brass	
6	Handwheel	Nylon 6	
7	Screw	DZR Brass	
8	O-Ring	EPDM	
9	Binder Point	DZR Brass	
10	O-Ring	EPDM	







25 Bar

-10°C to +120°C

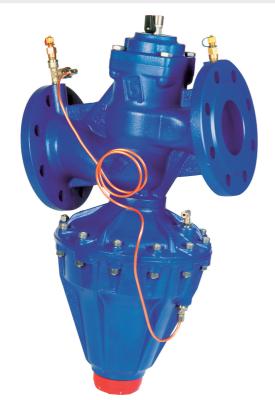
Dimensions in mm

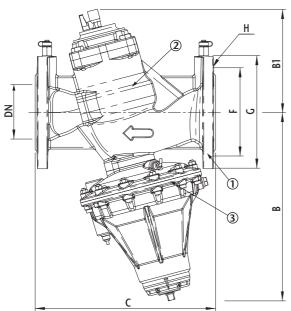
Technical Data

Working Temperature

Max Pressure



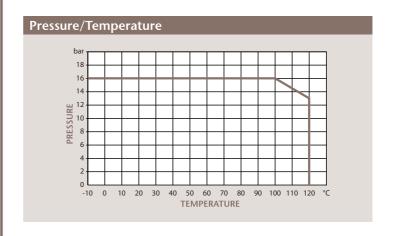




PN16 Differential Pressure Control Valve (DPCV)

Features

- Cast Iron EN GJL 250, Flanged EN 1092-1, F-F EN 558-1
- Flow or Return line mounted
- Differential pressure can be set & adjusted in situ
- Reduction of commissioning, improved energy saving
- Phased installation & system future proofing
- ART 250 partner valve option available when ART 24BV, ART24670B & impulse tube also supplied



N.	Part Name	Materials	
1	Body	EN GJL250	
2	Regulator	CuZn40Pb2	
3	Diaphragm	EPDM	

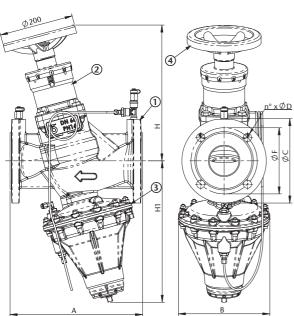
Technical Data	
Max Pressure	16 Bar
Working Temperature	-10°C to +120°C
Differential Pressure Range	16 Bar (1600 kPa)

DN	65 Low ∆P	65 High ∆P	80 Low ∆P	80 High ∆P	100 Low ∆P	100 High ∆P	125 Low ∆P	150 Low ∆P
В	310	310	400	400	414	414	436	460
B1	170	170	182	182	200	200	275	300
C	290	290	310	310	350	350	400	480
F	145	145	160	160	180	180	210	240
Н	18x4	18x4	18x8	18x8	18x8	18x8	18x8	22x8
G	185	185	200	200	220	220	250	285
Kgs	21.6	21.6	28.1	28.1	33.6	33.6	46.4	75.4
Flow (I/s)	0.278-20.833	0.556-20.833	0.334-23.611	0.834-27.777	0.416-33.333	0.834-41.667	0.834-47.222	1.111-63.889
ΔP vers (kPa)	20-80	80-160	20-80	80-160	20-80	80-160	20-80	20-80
Kvs	44.6	52	78.3	83.7	104.8	106.7	152.3	204

Dimensions in mm



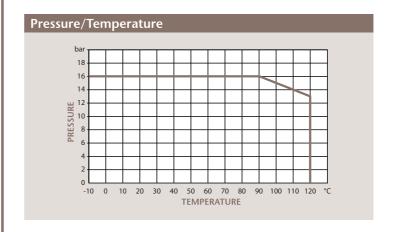




PN16 Differential Pressure Control Valve (DPCV)

Features

- Cast Iron EN GJL 250, Flanged EN 1092-1, F-F EN 558-1
- Flow measurement function. No need for separate commissioning station partner valve.
- Isolation valve function.
- Differential pressure can be set & adjusted in situ
- Reduction of commissioning, improved energy saving
- Phased installation & system future proofing



N.	Part Name	Materials
1	Body	EN GJL250
2	Regulator	cuZn40Pb2
3	Diaphragm	EPDM
4	Handwheel	Carbon Steel, Epoxy Coated

Technical Data	
Max Pressure	16 Bar
Working Temperature	-10°C to +120°C
Differential Pressure Range	16 Bar (1600 kPa)

DN	65 Low ∆P	65 High ∆P	80 Low ∆P	80 High ∆P	100 Low ∆P	100 High ∆P	125 Low ∆P	150 Low ΔP
H1	310	310	400	400	414	414	436	460
Н	305	305	316	316	326	326	367	381
A	290	290	310	310	350	350	400	480
F	145	145	160	160	180	180	210	240
n x D	4x18	4x18	8x18	8x18	8x18	8x18	8x18	8x22
C	185	185	200	200	220	220	250	285
Kgs	24.2	24.2	30.6	30.6	36.1	36.1	51	80
Flow (I/s)	0.278-20.833	0.556-20.833	0.334-23.611	0.834-27.777	0.471-33.333	0.834-41.667	0.834-47.222	1.111-63.889
ΔP vers (kPa)	20-80	80-160	20-80	80-160	20-80	80-160	20-80	20-80
Kvs	47.6	47.6	70.0	70.0	105.5	105.5	139	191

Dimensions in mm

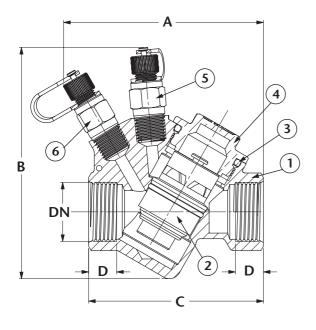




Threaded Automatic Flow Balancing Valves

Features

- DZR Brass body (CW602N-M)
- Wide cartridge selection available
- 0.007 I/S to 3.154 I/S
- Easy removable cartridges for inspection on cleaning
- System balancing is assured automatically even under fluctuating pressures
- Decrease in installation cost due to fewer valves required and no commissioning costs
- DZR Brass Body
- Threaded BSP Parallel
- Self cleaning cartridge design



DN	15	20	25	25L	32	40	50
Α	89	89	93	125	125	125	130
В	103	103	103	141	141	141	141
C	78	78	85	123	123	123	132
D	11.5	12.5	14.5	14.5	16.8	16.8	21.1
Kgs	0.51	0.53	0.62	1.51	1.53	1.59	1.71

Note: 25L is 25 Large

This is a 32mm body and cartridge but the valve has a 1" BSP connection for increased flow rates.

Technical Data	
Max Pressure	25 Bar
Working Temperature	-10°C to +120°C

1	Body	DZR Brass
2	Cartridge	DZR Brass
3	O-Ring	EPDM
4	Plug	DZR Brass
5	Blue Binder Point	DZR Brass
6	Red Binder Point	DZR Brass

Part Name Materials

Dimensions in mm





7 6 3 4 A B

Technical Data	
Max Pressure	16 Bar
Working Temperature	-20°C to +120°C

Wafer Automatic Flow Balancing Valve

Features

- Automatic system balance
- Self cleaning cartridge design
- Energy saving due to elimination of excessive flow
- Increased comfort due to accurate flow distribution
- Wafer mount between flanges
- Assures system balance even with fluctuating pressures
- Body ductile iron GGG 40
- Supplied with 100mm test points

DN	50	65	80	100	125	150	200	250
ØA	100	119	131	163	193	216	271	326
В	218	237	249	281	311	334	389	440
C	170	170	170	170	170	170	170	170
ØD	80	80	80	100	125	150	200	260
Max cartrs.	1	1	1	2	3	4	7	12
Flow Rate	3820	3820	3820	3820	3820	3820	3820	3820
range (l/h)	45000	45000	45000	90000	135000	180000	315000	540000
Kgs	3.41	4.91	4.79	6.90	9.00	11.73	18.75	23.44

DN	300	350	400	450	500	600	800
ØA	383	443	496	545	601	715	880
В	501	561	614	663	719	833	998
С	170	170	170	170	170	170	170
ØD	315	355	405	455	508	610	760
Max cartrs.	15	19	26	33	40	56	85
Flow Rate	3820	3820	3820	3820	3820	3820	3820
range (l/h)	675000	855000	1170000	1485000	1800000	2520000	3825000
Kgs	33.41	44.21	51.63	57.47	67.75	88.90	127.30

N.	Part Name	Materials
1	Body	Ductile iron
2	Cartridge	AISI 304
3	Screw	AISI 304
4	Washer	AISI 304
5	Socket	AISI 304
6	Red Binder Point	Brass
7	Blue Binder Point	Brass

Dimensions in mm



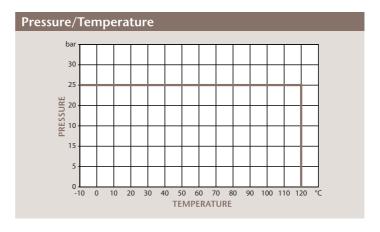


8 8 7 6 5 4 3 2 B

PN25 DZR Fixed Orifice Commissioning Valve

Features

- Screwed BSP parallel
- Fixed orifice with ± 5% flow measurement accuracy
- Position indicator
- Supplied with 2 fitted test points
- EPDM disk seating gives tight shut off
- Available with 'M' Press ends ART 25 PRS



DN	1/2″	3/4"	1″	11⁄4″	11/2"	2"
В	85	97	113	144	163	193
C	161	185	186	207	260	281
D	125	146	159	169	212	230
Kgs	0.68	0.93	1.13	1.66	2.47	3.73

N.	Part Name	Materials
1	Cone	DZR Brass
2	Cone Seat	EPDM Rubber
3	Pressure Test Point	DZR Brass
4	Body	DZR Brass
5	Bonnet	DZR Brass
6	'O' Rings	Nitrile Rubber
7	Stem	DZR Brass
8	Handwheel	Nylon 6

Technical Data Max Pressure 25 Bar Working Temperature -10°C to +120°C

Dimensions in mm





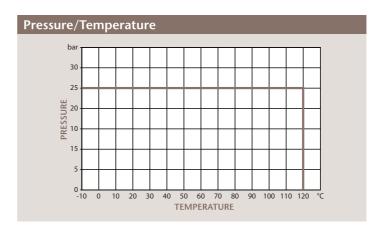
7 6 3 2 ND B

Technical Data Max Pressure 25 Bar Working Temperature -10°C to +120°C

PN25 DZR Double Regulating Valve

Features

- Screwed BSP parallel
- Position indicator
- Double regulating valve
- Non rising stem
- EPDM disk seating gives tight shut off
- 1/2" available in Std. and Low flow versions
- Available with 'M' Press ends ART 26 PRS



DN	1/2″	3/4′′	1″	11/4"	11/2"	2"
В	68	77	91	108	116	143
C	138	157	160	171	212	231
D	120	140	155	171	212	230
Kgs	0.48	0.65	0.86	1.28	1.89	2.80

N.	Part Name	Materials	
1	Cone	DZR Brass	
2	Cone Seat	EPDM Rubber	
3	Body	DZR Brass	
4	Bonnet	DZR Brass	
5	'O' Rings	Nitrile Rubber	
6	Stem	DZR Brass	
7	Handwheel	Nylon 6	

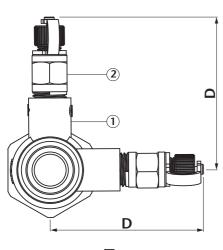


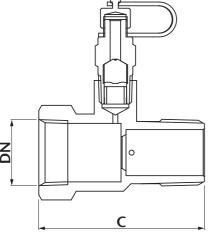


PN25 DZR Metering Station

Features

- Screwed BSP Taper
- Fixing orifice with ± 5% flow measurement accuracy
- Can be close coupled to a double regulating valve
- Supplied with 2 fitted test points
- ½" available in Std., Med., Low, Ultra Low and Ultra Ultra Low flow versions





Technical Data	
Max Pressure	25 Bar
Working Temperature	-10°C to +120°C

Pressure/Temperature															
bar -				_							_	_	_		
30 -															
25 -	_	Ц													
¥ 20 -															
PRESSURE															
15 -	4													H	
5 -															
0															
-10 0 10 20 30 40 50 60 70 80 90 100 110 120 °C TEMPERATURE															

DN	1/2"	3/4′′	1″	11/4"	11/2"	2"
С	67	67	64	71	71	80
D	59	62	65	70	73	79
Kgs	0.22	0.27	0.31	0.46	0.52	0.77

N.	Part Name	Materials
1	Body	DZR Brass
2	Binder Test Point	DZR Brass

Dimensions in mm

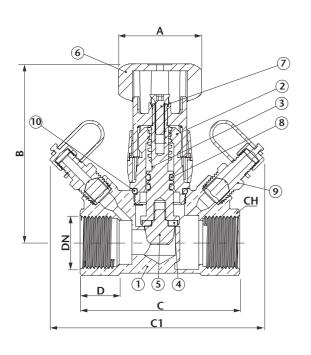




PN25 DZR Variable Orifice Commissioning Valve

Features

- Brass Body (CW602N-M)
- Screwed BSP parallel
- Position indicator
- Double regulating device
- Supplied with 2 fitted test points
- EPDM cone seating gives tight shut off



Pressure/Temperature														
bar T			_			<u> </u>	<u> </u>		ı					
30 -			4											
25 •														
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PRESSURE														
HE 10			1											
15 -	\dashv	+	+										H	
5 -			4										H	
0														
-10 0 10 20 30 40 50 60 70 80 90 100 110 120 °C TEMPERATURE														

DN	15	20	25	32	40	50
Α	50	50	50	50	50	50
В	87.5	89.5	91.5	99	99	100
С	77	80	87	108	115	124
C1	106	107	107	123	129	132
D	17	18.5	21	22.5	23	26.5
CH	25	31	38	48	55	66
Kgs	0.380	0.440	0.535	0.960	1.120	1.350
Thread	½" Rp	3⁄4″ Rp	1" Rp	1 ¼" Rp	1 ½" Rp	2" Rp
Kvs	1.75	2.87	4.08	6.71	10.4	15.06

N.	Part Name	Materials
1	Body	DZR Brass
2	Bonnet	DZR Brass
3	Stem	DZR Brass
4	Gasket	EPDM
5	Shutter	DZR Brass
6	Handwheel	Nylon 6
7	Screw	DZR Brass
8	O-Ring	EPDM
9	Binder Point	DZR Brass
10	O-Ring	EPDM

Technical Data

Max Pressure 25 Bar

Working Temperature -10°C to +120°C

Dimensions in mm





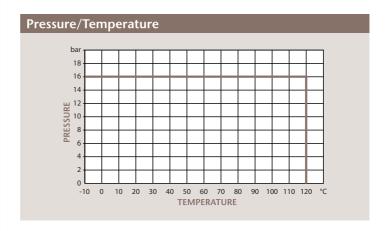
8 6 5 NQ 1 2

Technical Data	
Max Pressure	16 Bar
Working Temperature	-10°C to +120°C

PN16 D Iron Variable Orifice DR Valve

Features

- Flanged PN16
- Position indicator
- Double regulating device
- Supplied with 2 fitted test points and extensions
- EPDM cone seating gives tight shut off
- Body ductile iron



DN	50	65	80	100	125	150	200	250	300
В	230	290	310	350	400	480	600	730	850
C	285	335	350	370	405	485	605	730	850
D	269	318	320	340	375	403	537	596	695
Kqs	12.6	17.4	23	30	43	56	129	197	237

N.	Part Name	Materials
1	Cone	Cast Iron
2	Cone Seat	EPDM Rubber
3	Pressure Test Point	Brass
4	Body	Ductile Iron
5	Bonnet	Cast Iron
6	'O' Rings	EPDM Rubber
7	Stem	304 Stainless Steel
8	Handwheel	Aluminium Alloy

Dimensions in mm

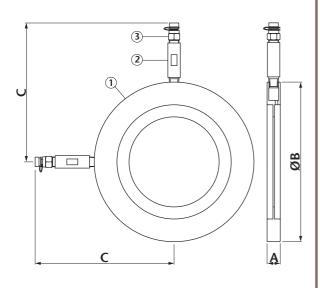




PN16 Stainless Steel Metering Station

Features

- Wafer pattern
- Fits between BS EN1092 flanges PN16
- Flow characteristic confirmed to BS 7350
- Fixed orifice with ± 5% flow measurement accuracy
- Can be close coupled to a double regulating valve
- Supplied with 2 extensions and test points



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bar -												
18 -	_											
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-10	0 0	10 2	20 3	iO 4		0 6 MPE	0 8 URE	0 9	0 10	00 1	10 1	20 °C

DN	50	65	80	100	125	150	200	250	300
Α	20	20	20	20	20	20	20	20	20
В	108	125	144	164	194	220	275	333	385
C	136	145	154	164	179	192	219	248	304
Kgs	1.400	1.900	2.200	2.400	3.100	3.400	4.700	6.000	8.000

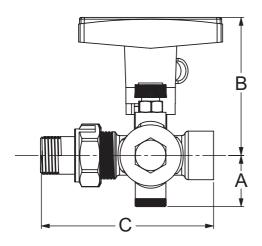
Technical Data	
Max Pressure	16 Bar
Working Temperature	-10°C to +120°C

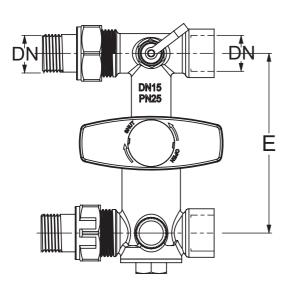
N.	Part Name	Materials
1	Body	304 Stainless Steel
2	Extension	304 Stainless Steel
3	Pressure Test Point	Brass



Monolink





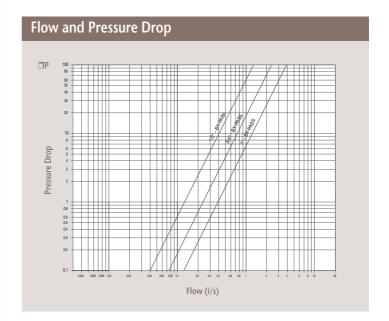


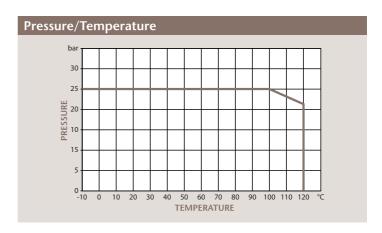
Technical Data	
Max Pressure	25 Bar
Working Temperature	-10°C to +120°C

H Block Screwed

Features

- Screwed BSP F X Union Male
- Body Brass CW 602 N-M
- 5 year guarantee
- Tested to EN12266-1:2003
- Complete with test point & Air vent





DN	1/2"	3/4"	1″	11/4"	11/2"
Ø	15	20	25	32	46
Α	29	33	35	37.5	37.5
В	77	81	85	85	85
C	96	119	143	157	165
E	100	100	150	175	175
Kgs	0.79	1.17	1.58	2.86	3.50

Dimensions in mm

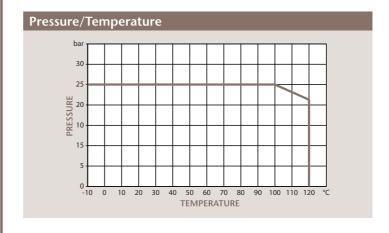


Monolink 25

'H' Block Complete with Art 25

Features

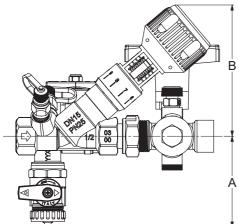
- Available in BSP & M Press
- Material Brass
- Tested in accordance with EN 12266-1:2003
- 5 year guarantee

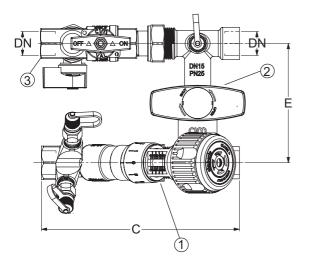


DN	1/2"	3/4″	1″	
Ø	15	20	25	
Α	77	81	91	
В	110	129	138	
С	170	205	245	
E	100	100	150	
Kgs	2.06	2.82	4.19	

N.	Part Name	Material
1	Art 25	FODRV
2	Art 731	'H' Block
3	Art 630	Ball Valve, Strainer & Drain Cock







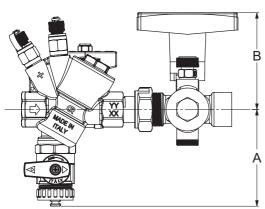
Technical Data	
Max Pressure	25 Bar
Working Temperature	-10°C to +120°C

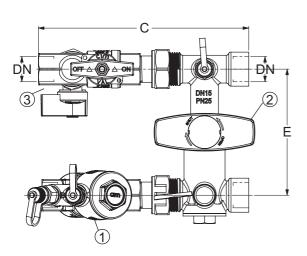
Dimensions in mm



Monolink 29





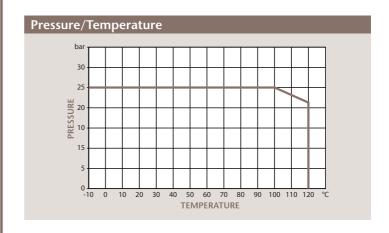


Technical Data	
Max Pressure	25 Bar
Working Temperature	-10°C to +120°C

'H' Block complete with Art 29 Automatic flow Balancing Valve

Features

- Available in BSP & M Press
- Material Brass
- Tested in accordance with EN 12266-1:2003
- 5 year guarantee



DN	1/2"	3/4"	1″	
Ø	15	20	25	
Α	77	81	91	
В	77	82	86	
С	165	200	245	
E	100	100	150	
Kgs	1.87	2.37	3.67	

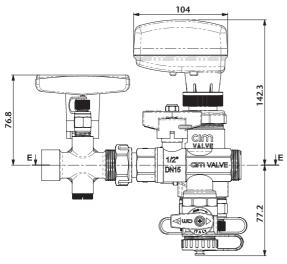
N.	Part Name	Material
1	Art 29	Automatic flow balancing valve
2	Art 731	'H' Block
3	Art 630	Ball Valve, Strainer & Drain Cock

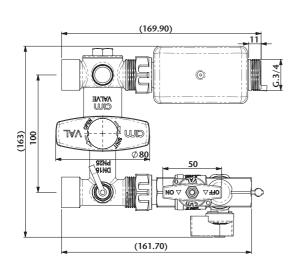
Dimensions in mm



Monolink 20C/20





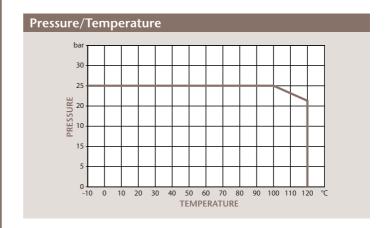


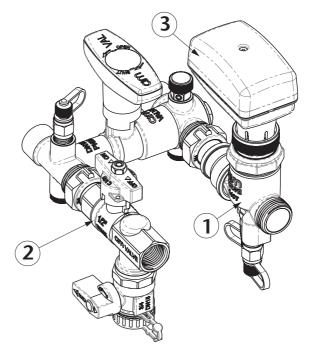
Technical Data	
Max Pressure	25 Bar
Working Temperature	-10°C to +120°C

'H' Block complete with Art 20 or Art 20C Presure Independent Control Valve (PICV)

Features

- Available in BSP & M Press
- Material Brass
- Tested in accordance with EN 12266-1:2003
- 5 year guarantee
- Available in sizes ½", ¾", 1", 1 ¼" & 1 ½"





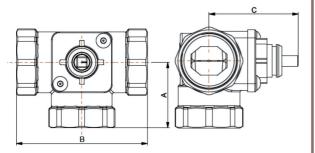
N.	Part Name	Material
1	Art 20C/20	PICV
2	Art 731	'H' Block
3	Art C21V/C22V/C23E	Control Actuator

Dimensions in mm

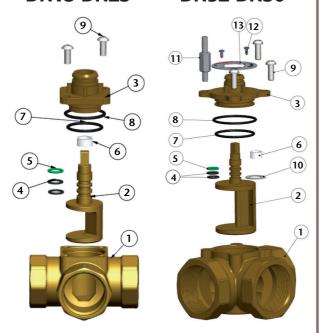


CRM





DN15-DN25 DN32-DN50



Technical Data	
Max Pressure	10 Bar
Working Temperature	-10°C to +110°C
Differential Pressure Range	Mixing 100 kPa (1 Bar)
	Diverting 200 kPa (2 Bar)

3 Port Rotary Control Brass Valve

Features

- 3-way valve suitable for mixing or diverting
- Designed to suit CLIP System actuators CRV(E)
- Max working pressure 6 bar
- Suitable for Heating or Cooling applications
- Spindle groove identifies rotor position
- Max spindle operating torque <2Nm

DN	15	20	25	32	40	50
Туре	½" CRM15 FFF	34" CRM15 FFF	1" CRM15 FFF	1¼" CRM32 FFF	11/2" CRM40 FFF	2" CRM50 FFF
Α	36	36	41	47	53	60
В	72	72	82	94	106	120
С	45	45	45	48	65	66
Connectio	n Rp ½"	Rp 3/4"	Rp 1"	Rp 1¼"	Rp 1½"	Rp 2"
Kvs	3	7	11	15	25	40
Kgs	0.49	0.55	0.59	0.92	1.62	2.20

N.	Part Name	Qty	Materials
1	Body	1	Brass CW617N
2	Rotor	1	Brass CW617N
3	Cover	1	Brass CW617N
4	'O' Ring 8.73x1.78	2	EPDM
5	'O' Ring 8.73x1.78	1	FKM
6	Washer	1	PTFE
7	'O' Ring 23.3x2.4	1	EPDM
8	'O' Ring 27x2.5	1	EPDM
9 (DN15-25)	Screw M5x10	2	Steel / Zinc Plated
9 (DN32-50)	Screw M6x16	3	Steel / Zinc Plated
10	Washer	1	PTFE
11	Spacer	1	Steel / Zinc Plated
12	Screw 2.9x6.5	2	DIN7981 A2k
13	Index Plate	1	Al

Dimensions in mm



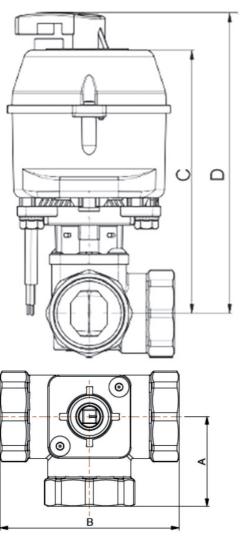
CRV/CRE



Actuator to Fit Rotary CRM Valves

Features

- Quick connection/release CLIP system utilised
- Synchronous motor with defined rotation direction
- CRV24 (24VAC) & CRV230 (230VAC) offers 3pt control
- CRE (24VAC) offers 0-10V, 4-20mA modulating control
- Auto/Man button with Handle for Manual operation
- Auxillary switches as standard on CRV
- 0-10VDC Feedback signal as standard on CRE

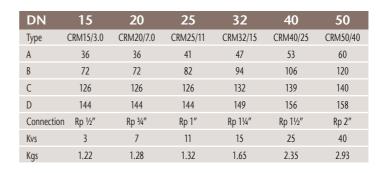


Technical Data

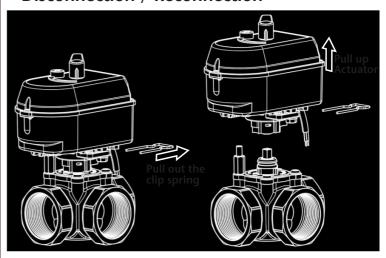
15 Nm Max Torque IP44 **Ingress Protection Running Time** 73 Sec / 90°

Dimensions	in	mm

Dimensions in mm	
This data sheet is designed as a guide and should not be regarded as wholly accura	te in every detail. We reserve the right to amend the specification of any product without notice.



Disconnection / Reconnection

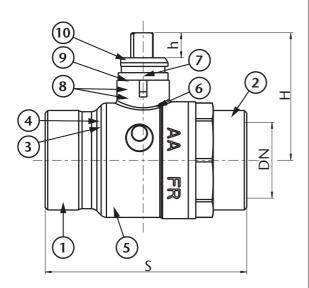


For reconnection, insert clip spring into clip adapter on actuator and push actuator onto valve to hear 'click'.



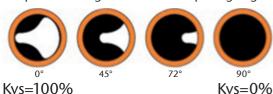
XIIII







Equal Percentage Control valve opening angle

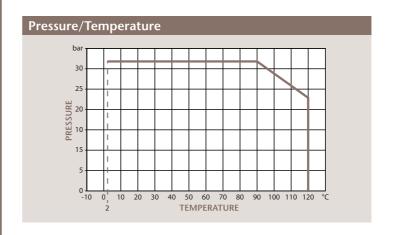


Technical Data	
Max Pressure PN Class	32 Bar
Working Temperature	2°C to +120°C
Max ΔP Valve	6 Bar

2 Port Brass Zone/ **Control Valve**

Features

- Quick connection/release CLIP system utilised
- Zone and Isolation with ON-OFF (2 point control)
- WRAS approval DN15-32
- Optional Equal percentage control characteristic insert
- Anti-Legionella design ball
- Frost Proof ball and valve shape
- Raise/Lower (3 Point Control) or Modulating (0-10V) available



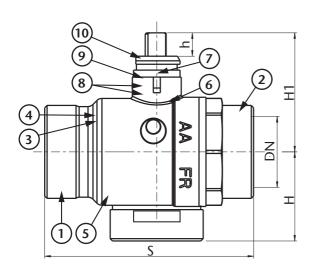
DN	1/2"	3/4"	1″	11/4"	11/2"	2"
Ø	17	20	25	32	40	50
S	62	68	81	86	102	122
Н	41	47	51	56	51	59
h	8	10	10	10	11	11
Connecti	ion Clip	Clip	Clip	Clip	Iso	Iso
Kvs (m³/	h) 20	45	60	100	170	265
Kg	0.23	0.35	0.54	0.70	1.08	1.70

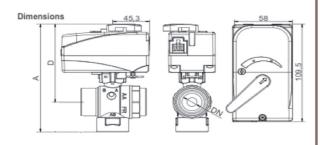
N.	Part Name	Materials
1	Body	Brass CW617N
2	Body End	Brass CW617N
3	Seat	PTFE
4	O-Ring	EPDM
5	Ball	Brass
6	Washer	PTFE
7	Stem	Brass CW617N
8	O-Ring	EPDM
9	O-Ring	FPM
10	Washer	PTFE









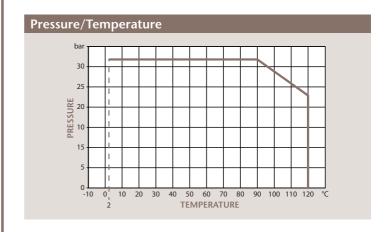


Technical Data	
Max Pressure PN Class	32 Bar
Working Temperature	2°C to +120°C
Max ΔP Valve	6 Bar

3 Port Brass Zone/ Control Valve

Features

- Offers ON-Off Zone, Isolation and control
- Priority Control of Hot Water (diverting function)
- Priority Control of renewable energy and boiler installations



DN	3/4′′	1"	11/4"
Ø	20	25	32
S	68	81	86
h	10	10	10
Н	40	43	52
H1	47	51	56
Α	144	150	165.5
D	104	107	113.5
Kvs (m³/h)	9.6	11.3	25
Kgs	0.42	0.62	0.91

N.	Part Name	Materials
1	Body	Brass CW617N
2	Body End	Brass CW617N
3	Seat	PTFE
4	O-Ring	EPDM
5	Ball	Brass
6	Washer	PTFE
7	Stem	Brass CW617N
8	O-Ring	EPDM
9	O-Ring	FPM
10	Washer	PTFE

Dimensions in mm



CRI2/CRI2L/CRI3

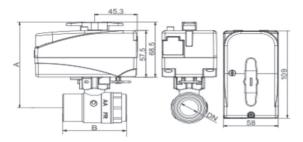


Actuator to Fit CRZ2 / CRZ3 Valves

Features

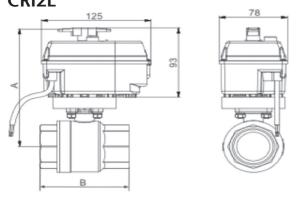
- Quick connection/release CLIP system utilised
- ON-OFF Control via Most Room Thermostats
- Controlled via SPST or SPDT switch
- Auxiliary switch for start/stop of pump etc
- Manual Control/override
- 24V/230V options

CRI2



DN	1/2"	3/4"	1″	11⁄4″
Ø	15	20	25	32
Α	104	107	112	117
В	62	68	81	86

CRI2L

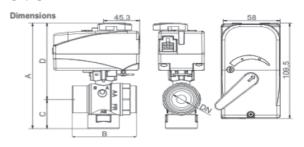


DN	11/2"	2"
Ø	40	50
Α	158	178
В	102	122

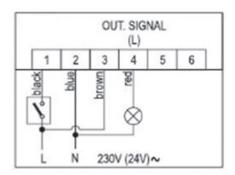
Technical Data

Max Torque 8/15 Nm
Ingress Protection IP44
Running Time 30 Sec / 90°

CRI3



DN	3/4″	1″	11/4"	
Ø	20	25	32	
Α	144	150	165.5	
В	68	81	86	
С	40	43	52	
D	104	107	113.5	



Dimensions in mm





Certificate No. 1437B



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