

ARM*flo* Circuit Balancing Valves

CBV050VBCR-LF to CBV200VBCR – DN15 to 50 – Corrosion Resistant

SUBMITTAL

| JOB: | REPRESENTATIVE: | REPRESENTATIVE: | | |
|-------------|-----------------|-----------------|--|--|
| | ORDER NO: | DATE: | | |
| ENGINEER: | SUBMITTED BY: | DATE: | | |
| CONTRACTOR: | APPROVED BY: | DATE: | | |

| MODEL NUMBER | QTY REQ'D | IDENTIFICATION | MODEL NUMBER | QTY REQ'D | IDENTIFICATION |
|-----------------|--------------|----------------|-----------------|--------------|----------------|
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| TECHNICAL DATA | | | | |
|-----------------------------|--------------------------------|--|--|--|
| Connection | BSPP – (ISO-228) | | | |
| Maximum Working Pressure | PN20 / 20 Bar (300 psi) | | | |
| Operating Temperature Range | -20°C to 150°C (-4°F to 300°F) | | | |

| MATERIALS OF CONSTRUCTION | | | | | |
|---------------------------|--------------------------------------|--|--|--|--|
| Rody Roppot | Brass Alloy (forged) – CW602N | | | | |
| bouy, boilliet | Corrosion resistant (CR) to ISO-6509 | | | | |
| Stom and Dick | Brass Alloy (machined) – CW602N | | | | |
| | Corrosion resistant (CR) to ISO-6509 | | | | |
| Elastomers | EPDM | | | | |
| Handwheel | Reinforced Nylon, ABS | | | | |





| DIMENSIONS and WEIGHTS | | | | | | | |
|------------------------|--------------|------------|------------|-----------|-----------------|--|--|
| Model | Pipe Size | A | В | C | Shipping Weight | | |
| CBV050VB-LF | DN15 (1/2") | 76 (2.99) | 117 (4.60) | 70 (2.76) | 0.49 (1.07) | | |
| CBV075VB-LF | DN20 (3/4") | 83 (3.26) | 125 (4.90) | 70 (2.76) | 0.55 (1.21) | | |
| CBV050VB | DN15 (1/2") | 76 (2.99) | 117 (4.60) | 70 (2.76) | 0.49 (1.07) | | |
| CBV075VB | DN20 (3/4") | 83 (3.26) | 125 (4.90) | 70 (2.76) | 0.55 (1.21) | | |
| CBV100VB | DN25 (1") | 97 (3.80) | 135 (5.29) | 70 (2.76) | 0.84 (1.86) | | |
| CBV125VB | DN32 (11/4") | 110 (4.32) | 143 (5.60) | 70 (2.76) | 1.06 (2.34) | | |
| CBV150VB | DN40 (11/2") | 129 (5.07) | 150 (5.90) | 70 (2.76) | 1.59 (3.49) | | |
| CBV200VB | DN50 (2") | 153 (6.00) | 170 (6.68) | 70 (2.76) | 2.46 (5.97) | | |

Note: Notes: All dimensions are in mm (inches) and weights in kg (lbs.)

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CBV-VB 0.1 0.1 1 10 100 Flow Rate - USgpm 0.2 0.01 0.5 0.05 0.1 1.0 20 5.0 Flow Rate - L/s

These curves show the pressure drop across the ARMflo balancing valves and are for use in valve sizing. For "pressure drop / flow" curves required for system balancing, please refer to the Venturi C_v Performance Curves chart in the ARMflo Venturi CBV Installation and Operating Instructions manual.

| FLOW RATE RANGES | | | | | | |
|------------------|----------|---------|-------------------|------|------------------|------|
| Valve | Size | | Minimum Flow Rate | | Maximum Flowrate | |
| Model | Imperial | Metric | US GPM | L/s | US GPM | L/s |
| CBV050VBCR-LF | 1/2" LF | DN15 LF | 0.26 | 0.02 | 2.2 | 0.14 |
| CBV075VBCR-LF | 3/4″ LF | DN20 LF | 0.40 | 0.03 | 3.4 | 0.21 |
| CBV050VBCR | 1/2″ | DN15 | 1.4 | 0.09 | 10.4 | 0.66 |
| CBV075VBCR | 3/4″ | DN20 | 2.1 | 0.13 | 13.5 | 0.85 |
| CBV100VBCR | 1″ | DN25 | 5.2 | 0.33 | 20.2 | 1.28 |
| CBV125VBCR | 1-1/4″ | DN32 | 8.2 | 0.51 | 35.5 | 2.24 |
| CBV150VBCR | 1-1/2″ | DN40 | 8.1 | 0.51 | 48.9 | 3.09 |
| CBV200VBCR | 2″ | DN50 | 14.0 | 0.88 | 83.3 | 5.25 |

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