Circuit Setter® Plus
Calibrated Balance Valve
Performance Curves
Sizes 1/2” Through 12”
NPT, Sweat, Flanged and Grooved Connections
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

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Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117410 and 117410LF
Model No. RF-1/2 and RF-1/2LF

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

\[ \Delta P \text{ FEET OF WATER} \]

\[ \Delta P \text{ METERS OF WATER} \]

\[ \text{FLOW IN GPM} \]

\[ \text{CAPACITY: M}^3/\text{HR} \]
Circuit Setter Plus Calibrated Balance Valve Performance Characteristics

Part No. 117411 and 117411LF     Model No. RF-3/4 and RF-3/4LF

FOR SYSTEM BALANCING AND SYSTEM PRESSURE DROP
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117414 and 117414LF   Model No. CB-1/2 and CB-1/2LF

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

∂P FEET OF WATER

0.1 1 10

FLOW IN GPM

Cv

0.2

0.02

CAPACITY: M³/HR

∂P METERS OF WATER

0.30

0.30

30

20

10

0

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

30

20

10

0
Circuit Setter Plus Calibrated Balance Valve  
Performance Characteristics  
Part No. 117412 and 117412LF  
Model No. CB-1/2S and CB-1/2SLF  
FOR SYSTEM BALANCING  
AND SYSTEM PRESSURE DROP  

FOR SYSTEM BALANCING  
AND SYSTEM PRESSURE DROP
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117415 and 117415LF  Model No. CB-3/4 and CB-3/4LF

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

CAPACITY: M³/HR

∆P FEET OF WATER

Cv

100

10

1

0.1

FLOW IN GPM

∆P METERS OF WATER

Cv

30

3

0.2

CAPACITY: M³/HR

0.02

2.2

22
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117413 and 117413LF  
Model No. CB-3/4S and CB-3/4SLF

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

CAPACITY: M³/HR
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117416 and 117416LF  Model No. CB-1 and CB-1LF
Part No. 117401 and 117401LF  Model No. CB-1S and CB-1SLF

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

FLOW IN GPM

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

CAPACITY: M³/HR
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117103 and 117103LF
Part No. 117402 and 117402LF

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

\( \Delta P \text{ FEET OF WATER} \)

\( Cv \)

100
10
1

\( \Delta P \text{ METERS OF WATER} \)

\( Cv \)

30
3
.30

CAPACITY: M³/HR

\( \Delta P \text{ FEET OF WATER} \)

\( Cv \)

30
3
.30

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

\( \Delta P \text{ METERS OF WATER} \)

\( Cv \)

30
3
.30

CAPACITY: M³/HR
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117104 and 117104LF  Model No. CB-1½ and CB-1½LF
Part No. 117403 and 117403LF  Model No. CB-1½S and CB-1½SLF

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117105 and 117105LF  Model No. CB-2 and CB-2LF
Part No. 117404 and 117404LF  Model No. CB-2S and CB-2SLF

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

ΔP FEET OF WATER

Cv

1

10

100

1000

FLOW IN GPM

ΔP METERS OF WATER

Cv

.30

2.2

22

227

CAPACITY: M³/HR

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

ΔP METERS OF WATER

Cv

.30

2.2

22

227

CAPACITY: M³/HR
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117106 and 117106LF  Model No. CB-2½ and CB-2½LF
Part No. 117116  Model No. CB-2½F

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

\[ \Delta P \text{ FEET OF WATER} \]

\[ \Delta P \text{ METERS OF WATER} \]

\[ \text{CAPACITY: M}^3/\text{HR} \]

\[ \text{FLOW IN GPM} \]

\[ \text{FLOWS IN GPM} \]

\[ \text{CAPACITY: M}^3/\text{HR} \]
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117107 and 117107LF Model No. CB-3 and CB-3LF
Part No. 117117 Model No. CB-3F

FOR SYSTEM BALANCING AND SYSTEM PRESSURE DROP

\[ \Delta P \text{ FEET OF WATER} \]
\[ \text{FLOW IN GPM} \]
\[ \text{Cv} \]

\[ \Delta P \text{ METERS OF WATER} \]
\[ \text{CAPACITY: M^3/HR} \]

\[ \text{Cv} \]
\[ \Delta P \text{ FEET OF WATER} \]
\[ \text{CAPACITY: M^3/HR} \]
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117112 (Old Design)  Model No. CB-4F
Part No. 117118 (Old Design)  Model No. CB-4G
Part No. 117470 (New Design)  Model No. CB-4F
Part No. 117476 (New Design)  Model No. CB-4G

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

∆P FEET OF WATER

CAPACITY: M³/HR

∆P METERS OF WATER
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117113 (Old Design) Model No. CB-5F
Part No. 117119 (Old Design) Model No. CB-5G
Part No. 117471 (New Design) Model No. CB-5F
Part No. 117477 (New Design) Model No. CB-5G

FOR SYSTEM BALANCING AND SYSTEM PRESSURE DROP

FLOW IN GPM

CAPACITY: M³/HR

ΔP METERS OF WATER

ΔP FEET OF WATER

FOR SYSTEM BALANCING AND SYSTEM PRESSURE DROP

Part No. 117113 (Old Design) Model No. CB-5F
Part No. 117119 (Old Design) Model No. CB-5G
Part No. 117471 (New Design) Model No. CB-5F
Part No. 117477 (New Design) Model No. CB-5G
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117114 (Old Design) Model No. CB-6F
Part No. 117120 (Old Design) Model No. CB-6G
Part No. 117472 (New Design) Model No. CB-6F
Part No. 117478 (New Design) Model No. CB-6G

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

CAPACITY: M³/HR

PART NO. 117114 (OLD DESIGN) MODEL NO. CB-6F
PART NO. 117120 (OLD DESIGN) MODEL NO. CB-6G
PART NO. 117472 (NEW DESIGN) MODEL NO. CB-6F
PART NO. 117478 (NEW DESIGN) MODEL NO. CB-6G
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

| Part No. 117115 (Old Design) | Model No. CB-8F |
| Part No. 117121 (Old Design) | Model No. CB-8G |
| Part No. 117473 (New Design) | Model No. CB-8F |
| Part No. 117479 (New Design) | Model No. CB-8G |

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

CAPACITY: M³/HR
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117420 (Old Design)  Model No. CB-10F
Part No. 117422 (Old Design)  Model No. CB-10G
Part No. 117474 (New Design)  Model No. CB-10F
Part No. 117480 (New Design)  Model No. CB-10G

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

CAPACITY: M³/HR

∆P METERS OF WATER

Part No. 117420 (Old Design)  Model No. CB-10F
Part No. 117422 (Old Design)  Model No. CB-10G
Part No. 117474 (New Design)  Model No. CB-10F
Part No. 117480 (New Design)  Model No. CB-10G
Circuit Setter Plus Calibrated Balance Valve
Performance Characteristics

Part No. 117421 (Old Design) Model No. CB-12F
Part No. 117423 (Old Design) Model No. CB-12G
Part No. 117475 (New Design) Model No. CB-12F
Part No. 117481 (New Design) Model No. CB-12G

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

CAPACITY: M³/HR

∆P FEET OF WATER

∆P METERS OF WATER

Cv

Part No. 117421 (Old Design) Model No. CB-12F
Part No. 117423 (Old Design) Model No. CB-12G
Part No. 117475 (New Design) Model No. CB-12F
Part No. 117481 (New Design) Model No. CB-12G
1) The tissue in plants that brings water upward from the roots;  
2) a leading global water technology company.

We’re a global team unified in a common purpose: creating innovative solutions to meet our world’s water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

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