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

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP
Circuit Setter 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 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

FLOW IN GPM

∆P FEET OF WATER

Cv

FLOW IN GPM

∆P METERS OF WATER

Cv

CAPACITY: M³/HR
Circuit Setter 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

FLOW IN GPM

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

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

FLOW IN GPM

CAPACITY: M³/HR

\[ \text{Cv} \]

\[ \text{Cv} \]
Circuit Setter 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

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

CAPACITY: M³/HR
Circuit Setter 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

\( \Delta P \) FEET OF WATER

\( \Delta P \) METERS OF WATER

CAPACITY: M\(^3\)/HR

Cv
Circuit Setter 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

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

\[ \text{FLOW IN GPM} \]

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

\[ \text{FLOW IN GPM} \]

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

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

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

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

PERFORMANCE CHARACTERISTICS

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

Model No. CB-1¼ and CB-1¼LF  
Model No. CB-1¼S and CB-1¼SLF

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

Cv

ΔP FEET OF WATER

100

10

1

100

10

1

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

CAPACITY: M³/HR

Cv

ΔP METERS OF WATER

30

3

.30

.2

22

2.2
Circuit Setter 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

FLOW IN GPM

∆P FEET OF WATER

Cv

1

100

10

1

100

10

1

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

CAPACITY: M³/HR

∆P METERS OF WATER

Cv

0.3

0.2

0.3

2.2

22
Circuit Setter 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

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

\[ \text{Cv} \]

\[ 1 \quad 10 \quad 100 \quad 1000 \]

\[ 1 \quad 10 \quad 100 \quad 1000 \]

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

\[ \text{Cv} \]

\[ .30 \quad 3 \quad 30 \quad 300 \]

\[ .2 \quad 2.2 \quad 22 \quad 227 \]

CAPACITY: M^3/HR
Circuit Setter 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

\[ \Delta P \] FEET OF WATER

\[ \Delta P \] METERS OF WATER

FLOW IN GPM

\[ C_v \]

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

\[ \Delta P \] FEET OF WATER

\[ \Delta P \] METERS OF WATER

CAPACITY: M³/HR
Circuit Setter 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

FLOW IN GPM

FLOW IN GPM

CAPACITY: M³/HR

Cv

ΔP FEET OF WATER

ΔP METERS OF WATER

Cv

ΔP FEET OF WATER

ΔP METERS OF WATER

Cv

FLOW IN GPM

CAPACITY: M³/HR

Cv

ΔP FEET OF WATER

ΔP METERS OF WATER

Cv
Circuit Setter Calibrated Balance Valve
PERFORMANCE CHARACTERISTICS

Part No. 117035     Model No. CB-4

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

FLOOR IN GPM

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

CAPACITY: M³/HR
Circuit Setter 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

CAPACITY: M³/HR

∆P FEET OF WATER

Circuit Setter Calibrated Balance Valve

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

CAPACITY: M³/HR

∆P METERS OF WATER
Circuit Setter 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

Cv

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

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

CAPACITY: M³/HR

ΔP METERS OF WATER

ΔP FEET OF WATER

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
Circuit Setter 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

ΔP METERS OF WATER

ΔP FEET OF WATER

Cv
Circuit Setter 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

FOR SYSTEM BALANCING AND SYSTEM PRESSURE DROP
Circuit Setter Calibrated Balance Valve
PERFORMANCE CHARACTERISTICS

FOR SYSTEM BALANCING
AND SYSTEM PRESSURE DROP

FLOW IN GPM

Cv

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

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

CAPACITY: M³/HR

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 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

Cv

∆P FEET OF WATER

10% 20% 30% 40% 50% 60%

70% 80% 90% 100%

CAPACITY: M³/HR

∆P METERS OF WATER

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%