Flow Control Valves

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NEEDLE VALVE BI-DIRECTIONAL,
POSITIVE SHUT-OFF

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

NFCV-08-X-X-X

PORTS
0 = CARTRIDGE ONLY
028X = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

ADJUSTMENT
K = HANDKNOB
H = METAL HANDKNOB
O = NO KNOB

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

L/M (28.5 cSt)

G.P.M. (135 SUS)

PRESSURE DROP (ΔP)

TURNS

BAR

PSI

Reference: 520-P-020110-EN-00/09.2015
## NEEDLE VALVE BI-DIRECTIONAL, POSITIVE SHUT-OFF

### DESCRIPTION

This unit is a SCREW IN, cartridge type, non-compensated, adjustable, bi-directional needle flow control valve.

### OPERATIONS

This valve increases its orifice value from fully closed to fully open in 4 1/2 turns with counterclockwise rotation. Positive shut-off.

### FEATURES AND BENEFITS

Fine and low effort leakproof adjustment. Effective adjustment is linear to 4 1/2 turns. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

### SPECIFICATIONS

- **OPERATING PRESSURE**: 5,000 PSI [350 Bar]
- **PROOF PRESSURE**: 10,000 PSI [700 Bar]
- **FLOW**: 10.0 GPM [38 l/m] nominal. See performance chart.
- **INTERNAL LEAKAGE**: ZERO drops per minute maximum @ 5,000 PSI (350 Bar)
- **OPERATING TEMPERATURE**: -40° to +250° F. [-40° to +120° C.]
- **OPERATING MEDIA**: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
- **INSTALLATION**: No restrictions.
- **SEAL KIT**: SKN-0822 Buna "N". SKV-0822 Viton.
- **WEIGHT**: .22 lb [.10 kg] cartridge only.
- **VALVE CAVITY**: #C0820, See Page 0-011.0.
NEEDLE VALVE BI-DIRECTIONAL, POSITIVE SHUT-OFF.

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0–012.1

TORQUE:
Steel = 55/60 Ft-Lb. [74/81 Nm]
Aluminum = 35/40 Ft-Lb. [47/54 Nm]

NFCV-10-X-X-X

BASIC

SIZE
10 = 7/8"–14 UNF

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
K = HandKnob
H = Metal HandKnob
O = No Knob

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0–050.0

Reference: 520-P-020120-EN-00/09.2015
NEEDLE VALVE BI-DIRECTIONAL, POSITIVE SHUT-OFF.

DESCRIPTION

This unit is a SCREW IN, cartridge type, non-compensated, adjustable, bi-directional needle flow control valve.

OPERATIONS

This valve increases its orifice value from fully closed to fully open in 7 turns with counterclockwise rotation.

Positive shut-off.

FEATURES AND BENEFITS

Fine and low effort leakproof adjustment. Effective adjustment is linear to seven turns. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 18.0 GPM [68 l/m] nominal. See performance chart.
INTERNAL LEAKAGE: ZERO drops per minute maximum @ 5,000 PSI (350 Bar)
5000 PSI [350 Bar] = Steel - Unplated.
OPERATING TEMPERATURE: -40° to +250° F. [−40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN-1022 Buna "N".
SKV-1022 Viton.
WEIGHT: .31 lb [.14 kg] cartridge only.
VALVE CAVITY: #C1020, See Page 0-012.0.

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Reference: 520-P-020120-EN-00/09.2015
NEEDLE VALVE BI–DIRECTIONAL,
POSITIVE SHUT–OFF, FINE ADJUSTMENT

SEALS
10 = 7/8"–14 UNF
BASIC
PORTS
O = CARTRIDGE ONLY
02BX = G 1/4" BSPP
03BX = G 3/8" BSPP
06TX = SAE – #6
08TX = SAE – #8

K = HANDKNOB
H = METAL HANDKNOB
O = NO KNOB

ADJUSTMENT
N = BUNA “N”
V = VITON

Aluminum = 35/40 Ft–Lb. [47/54 Nm]
Steel = 55/60 Ft–Lb. [74/81 Nm]

TORQUE:

Reference: 520-P-020020-EN-00/09.2015

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0–012.1
NEEDLE VALVE BI-DIRECTIONAL
POSITIVE SHUT-OFF, FINE ADJUSTMENT

DESCRIPTION

This unit is a SCREW IN, cartridge type, non-compensated, adjustable, bi-directional fine adjustment needle flow control valve.

OPERATIONS

This valve increases its orifice value from fully closed to fully open in 4 1/2 turns with counterclockwise rotation.

Positive shut-off.

FEATURES AND BENEFITS

Fine and low effort leakproof adjustment.
Effective adjustment is precisely controlled to 4 1/2 turns.
All external carbon steel parts are plated for longer life against the elements.
All cartridge valves are 100% functionally tested.
Industry common cavity.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 8.0 GPM [30 l/m] nominal. See performance chart.
INTERNAL LEAKAGE: ZERO drops per minute maximum @ 5,000 PSI (350 Bar)
5000 PSI [350 Bar] = Steel – Unplated.
OPERATING TEMPERATURE: −40° to +250° F. [−40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN-1022 Buna ”N”.
SKV-1022 Viton.
WEIGHT: .31 lb [.14 kg] cartridge only.
VALVE CAVITY: #C1020, See Page 0–012.0.
FCVL-08

FLOW CONTROL VALVE WITH OR WITHOUT FREE REVERSE FLOW CHECK

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

FCVL-08-X-X-X-X

Type:
F = FREE FLOW CHECK
N = NEEDLE VALVE

Ports:
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

Leader:
"A" = ALUM. HOUSING
"S" = STEEL HOUSING

BASIC

SIZE
08 = 3/4"-16 UNF

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PRESSURE DROP (ΔP) vs. FLOW RATE (G.P.M.)

L/M (28.5 cSt)

0 2 4 6 8 10
0 50 100 150 200

PSI
G.P.M.(135 SUS)

BAR

Reference: 520-P-020210-EN-00/09.2015
FLOW CONTROL VALVE WITH OR WITHOUT FREE REVERSE FLOW CHECK

DESCRIPTION

This unit is a SCREW IN, cartridge type, adjustable, poppet type, hydraulic flow control valve with or without free reverse flow check.

OPERATIONS

This valve increases its orifice value from fully closed to fully open with counter-clockwise rotation.

FEATURES AND BENEFITS

Desired settings can be locked down. Valve adjustment is difficult while subjected to high pressure. Valve is available with a screw, tamperproof, capped or knob adjustment. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 10.0 GPM [38,0 l/m] nominal. See performance chart.
INTERNAL LEAKAGE: 5 drops per minute maximum @ 5,000 PSI (350 Bar)
5000 PSI [350 Bar] = Steel – Unplated.
OPERATING TEMPERATURE: –40° to +250° F. [–40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL–H–5606, SAE–#10, SAE–#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN–0822 Buna "N".
SKV–0822 Viton.
WEIGHT: .30 lb [.14 kg] cartridge only.
VALVE CAVITY: #C0820, See Page 0–011.0.

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Reference: 520-P-020210-EN-00/09.2015
FLOW CONTROL VALVE WITH OR WITHOUT FREE REVERSE FLOW CHECK

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0–012.1

FCVL-10

BASIC

SIZE
10 = 7/8”–14 UNF

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

TYPE
F = FREE FLOW CHECK
N = NEEDLE VALVE

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
03BX = G 3/8" BSPP
06TX = SAE – #6
08TX = SAE – #8

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

TORQUE:
Steel = 55/60 Ft-Lb. [74/81 Nm]
Aluminum = 35/40 Ft-Lb. [47/54 Nm]

PRESSURE DROP (ΔP)

L/M (28.5 cSt)

G.P.M. (135 SUS)

PSI

BAR

Reference: S20-P-020220-EN-00/09.2015
FLOW CONTROL VALVE
WITH OR WITHOUT FREE REVERSE FLOW CHECK

DESCRIPTION
This unit is a SCREW IN, cartridge type, adjustable, poppet type, hydraulic flow control valve with or without free reverse flow check.

OPERATIONS
This valve increases its orifice value from fully closed to fully open with counter-clockwise rotation.

FEATURES AND BENEFITS
Desired settings can be locked down.
Valve adjustment is difficult while subjected to high pressure.
Valve is available with a screw, tamperproof, capped or knob adjustment.
All external carbon steel parts are plated for longer life against the elements.
All cartridge valves are 100% functionally tested.
Industry common cavity.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 18.0 GPM [68 l/m] nominal. See performance chart.
INTERNAL LEAKAGE: 5 drops per minute maximum @ 5,000 PSI (350 Bar)
5000 PSI [350 Bar] = Steel – Unplated.
OPERATING TEMPERATURE: -40° to +250° F. [-40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN-1022 Buna “N”.
SKV-1022 Viton.
WEIGHT: .38 lb [.17 kg] cartridge only.
VALVE CAVITY: #C1020, See Page 0-012.0.
FCVL-12

FLOW CONTROL VALVE WITH OR WITHOUT FREE REVERSE FLOW CHECK

Options See Page 0-050.0

FOR ADJUSTMENT CONTROL
Options See Page 0-050.0

TORQUE:
Steel = 70/75 Ft-Lb. [95/102 Nm]
Aluminum = 55/60 Ft-Lb. [74/81 Nm]

Steel = 70/75 Ft-Lb. [95/102 Nm]
Aluminum = 55/60 Ft-Lb. [74/81 Nm]

FCVL-12-X-X-X-X

BASIC
SIZE 12 = 1.062-12 UNF
SEALS N = BUNA "N" V = VITON
ADJUSTMENT S = ADJUSTING SCREW C = CAPPED T = TAMPERPROOF K = HANDKNOB M = METAL HANDKNOB

TYPE F = FREE FLOW CHECK N = NEEDLE VALVE
PORTS 0 = CARTRIDGE ONLY 04BX = G 1/2" BSPP 06BX = G 3/4" BSPP 10TX = SAE - #10 12TX = SAE - #12 T"A" = ALUM. HOUSING "S" = STEEL HOUSING

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-013.1

Reference: 520-P-020230-EN-00/09.2015
## DESCRIPTION

This unit is a SCREW IN, cartridge type, adjustable, poppet type, hydraulic flow control valve with or without free reverse flow check.

## OPERATIONS

This valve increases its orifice value from fully closed to fully open with counter-clockwise rotation.

## FEATURES AND BENEFITS

Desired settings can be locked down. Valve adjustment is difficult while subjected to high pressure. Valve is available with a screw, tamperproof, capped or knob adjustment. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

## SPECIFICATIONS

| OPERATING PRESSURE: 5,000 PSI [350 Bar] |
| PROOF PRESSURE: 10,000 PSI [700 Bar] |
| FLOW: 36.0 GPM [136 l/m] nominal. See performance chart. |
| INTERNAL LEAKAGE: 5 drops per minute maximum @ 5,000 PSI (350 Bar) |
| OPERATING TEMPERATURE: -40° to +250° F. [-40° to +120° C.] |
| OPERATING MEDIA: All general purpose hydraulic fluids such as MIL–H–5606, SAE–#10, SAE–#20, etc. |
| INSTALLATION: No restrictions. |
| WEIGHT: .63 lb [.25 kg] cartridge only. |
| VALVE CAVITY: #C1220, See Page 0–013.0. |

Reference: 520-P-020230-EN-00/09.2015
FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL

OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PCFC-08

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PCFC-08

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PCFC-08

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PCFC-08

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PCFC-08

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PCFC-08

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PCFC-08

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PCFC-08

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

PCFC-08

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE

FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PCFC-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
06TX = SAE - #6

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-011.1

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]
FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE.

DESCRIPTION – FIXED
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, restrictive hydraulic flow control valve.
FLOW RANGE: 0.2 TO 4.0 GPM [0.8 TO 15.1 L]

DESCRIPTION – ADJUSTABLE
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, 30% flow adjustment, restrictive hydraulic flow control valve.
FLOW RANGE: 0.2 TO 6.0 GPM [0.8 TO 22.7 L]
Flow adjustment under pressure is difficult.

OPERATIONS
Valve maintains constant flow from port 1 to 2 regardless of system pressure or load and non-compensated flow from port 2 to 1 and goes thru the control orifice.

FEATURES AND BENEFITS
Valve is available with a screw, tamperproof, capped or knob adjustment. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI (350 Bar)
PROOF PRESSURE: 10,000 PSI (700 Bar)
FLOW: 0.2 to 6.0 GPM [0.8 to 22.7 l/m] nominal. See performance chart.
FLOW ACCURACY:
- 0.2 to 1.5 GPM [0.9 to 6.0 L] – 10.0%
- 1.5 to 6.0 GPM [6.0 to 22.7 L] – 7.5%
5000 PSI [350 Bar] = Steel – Unplated.
OPERATING TEMPERATURE: –40° to +250° F. [–40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL–H–5606, SAE–#10, SAE–#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN–0822 Buna "N".
SKV–0822 Viton.
WEIGHT: .26 lb [.12 kg] cartridge only.
VALVE CAVITY: #C0820, See Page 0–011.0.

info.el@bucherhydraulics.com www.bucherhydraulics.com/commoncavity

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The information does not relieve users from the duty of conducting their own evaluations and tests. Because the products are subject to continual improvement, we reserve the right to amend the product specifications contained in this catalogue.

Reference: 520-P-020310-EN-00/09.2015
FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE.

PCFC-10-X-X-X-XX

<table>
<thead>
<tr>
<th>BASIC</th>
<th>10 = 7/8&quot;-14 UNF</th>
</tr>
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<tbody>
<tr>
<td>SIZE</td>
<td>10 = 7/8&quot;-14 UNF</td>
</tr>
<tr>
<td>SEALS</td>
<td>N = BUNA &quot;N&quot;</td>
</tr>
<tr>
<td></td>
<td>V = VITON</td>
</tr>
<tr>
<td>ADJUSTMENT</td>
<td>F = FIXED (FACTORY SET)</td>
</tr>
<tr>
<td></td>
<td>S = ADJUSTING SCREW</td>
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<td>C = CAPPED</td>
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<td>K = HANDKNOB</td>
</tr>
<tr>
<td></td>
<td>M = METAL HANDKNOB</td>
</tr>
</tbody>
</table>

REGULATED FLOW TO BE SPECIFIED EXAMPLE
1.5 = 1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
02BX = 0.1/4" BSPP
03BX = 0.3/8" BSPP
06TX = SAE - #6
08TX = SAE - #8

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0–050.0

TORQUE:
Steel = 55/60 Ft-Lb. [74/81 Nm]
Aluminum = 35/40 Ft-Lb. [47/54 Nm]

Reference: 520-P-020320-EN-00/09.2015
FLOW CONTROL VALVE PRESSURE COMPENSATED,
FIXED ORIFICE, RESTRICTIVE TYPE.

DESCRIPTION – FIXED
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, restrictive hydraulic flow control valve.
FLOW RANGE: 0.2 TO 8.0 GPM [0.8 TO 30.0 L]

DESCRIPTION – ADJUSTABLE
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, 30% flow adjustment, restrictive hydraulic flow control valve.
FLOW RANGE: 0.2 TO 12.0 GPM [0.8 TO 45.0 L]
Flow adjustment under pressure is difficult.

OPERATIONS
Valve maintains constant flow from port 1 to 2 regardless of system pressure or load and non-compensated flow from port 2 to 1 and goes thru the control orifice.

FEATURES AND BENEFITS
Valve is available with a screw, tamperproof, capped or knob adjustment. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI (350 Bar)
PROOF PRESSURE: 10,000 PSI (700 Bar)
FLOW: 0.2 to 12.0 GPM [0.8 to 45.0 l/m] nominal. See performance chart.
FLOW ACCURACY:
- 0.2 to 1.5 GPM [0.9 to 6.0 L] = 10.0%
- 1.5 to 4.0 GPM [6.0 to 15.0 L] = 7.5%
- 4.0 to 12.0 GPM [15.0 to 45.0 L] = 5.0%
5000 PSI [350 Bar] = Steel – Unplated.
OPERATING TEMPERATURE: -40° to +250° F. [-40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN-1021 Buna “N”.
SKV-1021 Viton.
WEIGHT: .38 lb [.17 kg] cartridge only.
VALVE CAVITY: #C1020, See Page 0–012.0.
**FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, RESTRICTIVE TYPE.**

**TORQUE:**
Steel = 70/75 Ft-Lb. [95/102 Nm]
Aluminum = 55/60 Ft-Lb. [74/81 Nm]

**PCFC-12-X-X-X-XX**

- **BASIC**
  - 12 = 1.062”-12UNF

- **SEALS**
  - N = BUNA “N”
  - V = VITON

- **ADJUSTMENT**
  - F = FIXED (FACTORY SET)
  - S = ADJUSTING SCREW
  - C = CAPPED
  - T = TAMPERPROOF

- **REGULATED FLOW TO BE SPECIFIED**
  - EXAMPLE:
  - 1.5 = 1.5 GPM (5.7l/m)

- **PORTS**
  - 0 = CARTRIDGE ONLY
  - 04BX = 0 1/2” BSPP
  - 06BX = 0 3/4” BSPP
  - 10TX = SAE – #10
  - 12TX = SAE – #12

- **“A” = ALUM. HOUSING**
- **“S” = STEEL HOUSING**

**FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0**

**PRESSURE DROP (ΔP)**

<table>
<thead>
<tr>
<th>G.P.M.(135 SUS)</th>
<th>30</th>
<th>20</th>
<th>10</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSI</td>
<td>350</td>
<td>276</td>
<td>207</td>
<td>138</td>
</tr>
<tr>
<td>BAR</td>
<td>69</td>
<td>69</td>
<td>69</td>
<td>69</td>
</tr>
</tbody>
</table>

**L/M (28,5 cSt)**

<table>
<thead>
<tr>
<th>G.P.M.(135 SUS)</th>
<th>30</th>
<th>20</th>
<th>10</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSI</td>
<td>38</td>
<td>76</td>
<td>114</td>
<td>114</td>
</tr>
<tr>
<td>BAR</td>
<td>276</td>
<td>276</td>
<td>276</td>
<td>276</td>
</tr>
</tbody>
</table>

**Steel = 70/75 Ft-Lb. [95/102 Nm]**

**Aluminum = 55/60 Ft-Lb. [74/81 Nm]**
### FEATURES AND BENEFITS

#### DESCRIPTION — FIXED
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, restrictive hydraulic flow control valve.

FLOW RANGE: 0.2 TO 16.0 GPM [0.8 TO 60.0 L]

#### DESCRIPTION — ADJUSTABLE
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, 30% flow adjustment, restrictive hydraulic flow control valve.

FLOW RANGE: 0.2 TO 24.0 GPM [0.8 TO 90.0 L]

Flow adjustment under pressure is difficult.

#### OPERATIONS
Valve maintains constant flow from port 1 to 2 regardless of system pressure or load and non-compensated flow from port 2 to 1 and goes thru the control orifice.

#### FEATURES AND BENEFITS
Valve is available with a screw, tamperproof, capped or knob adjustment.
All external carbon steel parts are plated for longer life against the elements.
All cartridge valves are 100% functionally tested.
Industry common cavity.

### SPECIFICATIONS

**OPERATING PRESSURE:** 5,000 PSI (350 Bar)
**PROOF PRESSURE:** 10,000 PSI (700 Bar)

FLOW: 0.2 to 24.0 GPM [0.8 to 90.0 L/m] nominal. See performance chart.

**FLOW ACCURACY:**
- 0.2 to 3.0 GPM [0.9 to 12.0 L/min] = 10.0%
- 3.0 to 8.0 GPM [12.0 to 30.0 L/min] = 7.5%
- 8.0 to 24.0 GPM [30.0 to 90.0 L/min] = 5.0%

**VALVE HOUSINGS:**
- 2500 PSI [175 Bar] = Aluminum — Anodized
- 5000 PSI [350 Bar] = Steel — Unplated

**OPERATING TEMPERATURE:** -40° to +250° F. [-40° to +120° C.]

**OPERATING MEDIA:** All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.

**INSTALLATION:** No restrictions.

**SEAL KIT:** SKN-1222 Buna "N".
- SKV-1222 Viton.

**WEIGHT:** .38 lb [.17 kg] cartridge only.

**VALVE CAVITY:** 
- #C1220, See Page 0-013.0.
FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, PRIORITY TYPE.

TORQUE:
- Steel = 35/40 Ft-Lb. [47/54 Nm]
- Aluminum = 25/30 Ft-Lb. [34/41 Nm]

BFCV-08-X-X-X-XX

REGULATED FLOW TO BE SPECIFIED
1.5 = 1.5 GPM (5.7 l/m)

PORTS
- 0 = CARTRIDGE ONLY
- 02BX = G 1/4" BSPP
- 06TX = SAE - #6
- "A" = ALUM. HOUSING
- "S" = STEEL HOUSING

PRESSURE DROP (ΔP) VS FLOW (GPM) GRAPHS

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

SEALS
- N = BUNA "N"
- V = VITON

ADJUSTMENT
- F = FIXED (FACTORY SET)
- S = ADJUSTING SCREW
- C = CAPPED
- T = TAMPERPROOF
- K = HANDKNOB
- M = METAL HANDKNOB

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-031.1

Reference: S20-P-020510-EN-00/09.2015
FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, PRIORITY TYPE.

DESCRIPTION — FIXED
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, priority type hydraulic flow control valve.
FLOW RANGE: 0.2 TO 4.0 GPM [0,8 TO 15,1 L

DESCRIPTION — ADJUSTABLE
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, 30% flow adjustment, priority type hydraulic flow control valve.
FLOW RANGE: 0.2 TO 6.0 GPM [0,8 TO 22,7 L
Flow adjustment under pressure is difficult.

OPERATIONS
Valve maintains constant flow from port 1 to 3 regardless of system pressure or load and excess flow is diverted to port 2. Flow from port 3 goes thru the control orifice to port 1 at non-compensated flow.

FEATURES AND BENEFITS
Valve is available with a screw, tamperproof, capped or knob adjustment. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI (350 Bar)
PROOF PRESSURE: 10,000 PSI (700 Bar)
FLOW: 0.2 to 6.0 GPM [0,8 to 22,7 l/m] nominal. See performance chart.
FLOW ACCURACY:
0.2 to 1.5 GPM [ 0,9 to 6,0 L]— 10.0%
1.5 to 6.0 GPM [ 6,0 to 22,7 L]— 7.5%

5000 PSI [350 Bar] = Steel – Unplated.
OPERATING TEMPERATURE: -40° to +250° F. [-40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.

INSTALLATION: No restrictions.
SEAL KIT: SKN-0832 Buna "N".
SKV-0832 Viton.
WEIGHT: .28 lb [.13 kg] cartridge only.
VALVE CAVITY: #C0830, See Page 0-031.0.
FLOW CONTROL VALVE PRESSURE COMPENSATED,
FIXED ORIFICE, PRIORITY TYPE.

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0–032.1

BFCV-10

BASIC
SIZE
10 = 7/8"–14 UNF
SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0–050.0

L/M (28.5 cSt) 19 38 57
5500 4000 3000 PORT #2 PRESSURIZED 276
3500 2600 1900 PORT #3 PRESSURIZED 207
3000 2300 1400 138
2500 1800 900 69
2000 1300 60 15
1500 1000 50 15 BAR
1000 750 50 15
500 750 50 15

PSI

G.P.M.(135 SUS) 0 15 30
3000 2000 1000
2000 1300 600
1300 800 400
800 400 200
400 200 100
200 100 50
100 50 25
50 25 12
25 12 6
6 6 3
3 3 1.5
1.5 1.5 1
1 1 0.5
0.5 0.5 0.25
0.25 0.25 0.125

REGULATED FLOW TO BE SPECIFIED
EXAMPLE
1.5 = 1.5 GPM (5.7 l/m)

PORTS
0 = CARTRIDGE ONLY
028X = G 1/4" BSPP
038X = G 3/8" BSPP
06TX = SAE – #6
08TX = SAE – #8

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

TO BE SPECIFIED

TORQUE:
Steel = 55/60 Ft.-Lb. [74/81 Nm]
Aluminum = 35/40 Ft.-Lb. [47/54 Nm]
FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, PRIORITY TYPE.

DESCRIPTION — FIXED
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, priority type hydraulic flow control valve.
FLOW RANGE: 0.2 TO 8.0 GPM [0.8 TO 30.0 L

DESCRIPTION — ADJUSTABLE
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, 30% flow adjustment, priority type hydraulic flow control valve.
FLOW RANGE: 0.2 TO 12.0 GPM [0.8 TO 45.0 L
Flow adjustment under pressure is difficult.

OPERATIONS
Valve maintains constant flow from port 1 to 3 regardless of system pressure or load and excess flow is diverted to port 2. Flow from port 3 goes thru the control orifice to port 1 at non-compensated flow.

FEATURES AND BENEFITS
Valve is available with a screw, tamperproof, capped or knob adjustment. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI (350 Bar)
PROOF PRESSURE: 10,000 PSI (700 Bar)
FLOW: 0.2 to 12.0 GPM [0.8 to 45.0 l/m] nominal. See performance chart.
FLOW ACCURACY:
  0.2 to 1.5 GPM [ 0.9 to 6.0 L??- 10.0%
  1.5 to 4.0 GPM [ 6.0 to 15.0 L??-  7.5%
  4.0 to 12.0 GPM [15.0 to 45.0 L??-  5.0%

  5000 PSI [350 Bar] = Steel — Unplated.
OPERATING TEMPERATURE: −40° to +250° F. [−40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.

INSTALLATION: No restrictions.
SEAL KIT: SKN-1032 Buna "N".
  SKV-1032 Viton.
WEIGHT: .42 lb [.19 kg] cartridge only.
VALVE CAVITY: #C1030, See Page 0–032.0.
FLOW CONTROL VALVE PRESSURE COMPRIMED, FIXED ORIFICE, PRIORITY TYPE.

TORQUE:
Steel = 70/75 Ft-Lb. [95/102 Nm]
Aluminum = 55/60 Ft-Lb. [74/81 Nm]

SEALS
N = BUNA "N"
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, PRIORITY TYPE.

BFCV-12-X-X-X-XX

BASIC
SIZE
SEALS
PORTS
ADJUSTMENT

L/M (28.5 cSt)

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

Reference: 520-P-020530-EN-00/09.2015
FLOW CONTROL VALVE PRESSURE COMPENSATED, FIXED ORIFICE, PRIORITY TYPE.

DESCRIPTION — FIXED
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, priority type hydraulic flow control valve.
FLOW RANGE: 0.5 TO 16.0 GPM [1.8 TO 60.0 L]

DESCRIPTION — ADJUSTABLE
This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, 30% flow adjustment, priority type hydraulic flow control valve.
FLOW RANGE: 0.5 TO 20.0 GPM [1.8 TO 76.0 L]
Flow adjustment under pressure is difficult.

OPERATIONS
Valve maintains constant flow from port 1 to 3 regardless of system pressure or load and excess flow is diverted to port 2. Flow from port 3 goes thru the control orifice to port 1 at non-compensated flow.

FEATURES AND BENEFITS
Valve is available with a screw, tamperproof or capped adjustment.
All external carbon steel parts are plated for longer life against the elements.
All cartridge valves are 100% functionally tested.
Industry common cavity.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI (350 Bar)
PROOF PRESSURE: 10,000 PSI (700 Bar)
FLOW: 0.5 to 20.0 GPM [1.8 to 76.0 l/m] nominal. See performance chart.
FLOW ACCURACY:
  0.5 to 4.0 GPM [1,8 to 15,0 L]— 10.0%
  4.0 to 12.0 GPM [15,0 to 46,0 L]— 7.5%
  12.0 to 20.0 GPM [46,0 to 76,0 L]— 5.0%
  5000 PSI [350 Bar] = Steel - Unplated.
OPERATING TEMPERATURE: −40° to +250° F. [−40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN-1232 Buna "N".
  SKV-1232 Viton.
WEIGHT: .72 lb [,.34 kg] cartridge only.
VALVE CAVITY: #C1230, See Page 0-033.0.
FLOW CONTROL VALVE PRESSURE
COMPENSATED, FIXED ORIFICE, PRIORITY TYPE

TORQUE:
Steel = 95/100 Ft–Lb. [129/136 Nm]
Aluminum = 70/75 Ft–Lb. [95/102 Nm]

BFCV-16–X–F–X–XX

BASIC
SIZE
16 = 1.312"–12 UNF

SEALS
N = BUNA “N”
V = VITON

ADJUSTMENT
F = FIXED (FACTORY SET)

REGULATED FLOW
TO BE SPECIFIED
EXAMPLE
1.5=1.5 GPM (5,7l/m)

PORTS
0 = CARTRIDGE ONLY
06BX = 0 3/4" BSPP
08BX = 0 1" BSPP
12TX = SAE – #12
16TX = SAE – #16

“A” = ALUM. HOUSING
“S” = STEEL HOUSING

L/M (28,5 cSt)

PRESSURE DROP (∆P)

G.P.M.(135 SUS)

PSI

BAR

Reference: 520-P-020540-EN-00/09.2015
## DESCRIPTION — FIXED

This unit is a SCREW IN, cartridge type, pressure compensated, fixed orifice, priority type hydraulic flow control valve.

**FLOW RANGE:** 0.5 TO 30.0 GPM [1,8 TO 114,0 L]

## OPERATIONS

Valve maintains constant flow from port 1 to 3 regardless of system pressure or load and excess flow is diverted to port 2. Flow from port 3 goes thru the control orifice to port 1 at non—compensated flow.

## FEATURES AND BENEFITS

Valve is available with a fixed flow setting only.

All external carbon steel parts are plated for longer life against the elements.

All cartridge valves are 100% functionally tested.

Externally removable flow orifice disc.

Industry common cavity.

## SPECIFICATIONS

**OPERATING PRESSURE:** 5,000 PSI (350 Bar)

**PROOF PRESSURE:** 10,000 PSI (700 Bar)

**FLOW:** 0.5 to 30.0 GPM [1,8 to 114,0 l/m] nominal. See performance chart.

**FLOW ACCURACY:**

<table>
<thead>
<tr>
<th>Flow Rate (GPM)</th>
<th>Flow Rate (l/min)</th>
<th>Accuracy</th>
</tr>
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<tbody>
<tr>
<td>0.5</td>
<td>1.8</td>
<td>10.0%</td>
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<tr>
<td>4.0</td>
<td>15,0</td>
<td>7.5%</td>
</tr>
<tr>
<td>16.0</td>
<td>60,0</td>
<td>5.0%</td>
</tr>
</tbody>
</table>

**VALVE HOUSINGS:**

- 5000 PSI [350 Bar] = Steel — Unplated.

**OPERATING TEMPERATURE:**

-40° to +250° F. [−40° to +120° C.]

**OPERATING MEDIA:** All general purpose hydraulic fluids such as MIL-H—5606, SAE—#10, SAE—#20, etc.

**INSTALLATION:** No restrictions.

**SEAL KIT:**

- SKN—1632 Buna ”N”.
- SKV—1632 Viton.

**WEIGHT:** 1.40 lb [.64 kg] cartridge only.

**VALVE CAVITY:** #C1630, See Page 0—034.0.

---

**Reference:** 520-P—020540—EN—00/09.2015

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FLOW DIVIDER/COMBINER VALVE, SPOOL TYPE

TORQUE to 35/40 Ft-Lb. [47/54 N·m].

PORT #3 (INLET) IS ONE SIZE LARGER THAN PORTS #2 & #4 (OUTLET).
FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-041.2

FLOW DIVISION

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<th>FDCV-08-X-X-XX</th>
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<th>PORT#4 MAX FLOW</th>
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<td></td>
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</tr>
<tr>
<td></td>
<td>22</td>
<td>50% 2.0 GPM</td>
</tr>
<tr>
<td></td>
<td>33</td>
<td>50% 3.0 GPM</td>
</tr>
<tr>
<td></td>
<td>44</td>
<td>50% 4.0 GPM</td>
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<td>66</td>
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</tr>
<tr>
<td></td>
<td>88</td>
<td>50% 8.0 GPM</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>33.3% 1.5 GPM</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>25% 2.0 GPM</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>33.3% 3.0 GPM</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>25% 4.0 GPM</td>
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<td>36</td>
<td>33.3% 4.5 GPM</td>
</tr>
<tr>
<td></td>
<td>48</td>
<td>33.3% 6.0 GPM</td>
</tr>
<tr>
<td></td>
<td>51</td>
<td>66.6% 1.5 GPM</td>
</tr>
<tr>
<td></td>
<td>62</td>
<td>75% 2.0 GPM</td>
</tr>
<tr>
<td></td>
<td>63</td>
<td>66.6% 3.0 GPM</td>
</tr>
<tr>
<td></td>
<td>84</td>
<td>66.6% 6.0 GPM</td>
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PRESSURE DROP (ΔP)

<table>
<thead>
<tr>
<th>PSI</th>
<th>0</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
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<tbody>
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<td>G.P.M.(135 SUS)</td>
<td>2</td>
<td>4</td>
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L/M (28.5 cSt)

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<tr>
<th>BAR</th>
<th>0</th>
<th>3.5</th>
<th>7.0</th>
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<tbody>
<tr>
<td>PSI</td>
<td>0</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>8</td>
</tr>
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</table>

Reference: S20-P-021010-EN-00/09.2015
FLOW DIVIDER/COMBINER VALVE, SPOOL TYPE

DESCRIPTION
This unit is a spool type, screw in cartridge style, flow divider/combiner valve.

OPERATIONS
This valve divides flow from port 3 to ports 2 and 4 and combines flow from ports 2 and 4 to port 3 at the specified flow division regardless of load or system pressure. Should the circuit operation result in blockage of either port 2 or 4, the opposite port will continue to flow but at a reduced flow rate to synchronize a cylinder.

FEATURES AND BENEFITS
Flow accuracy dividing or combining:
+/-5.0% of flows under 40% of the rated flow.
+/-2.5% of flows over 40% of the rated flow.
Quiet and stable operation over wide varying flow, pressure and temperature range.
All external carbon steel parts are plated for longer life against the elements.
All cartridge valves are 100% functionally tested.
Industry common cavity.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 8.0 GPM [30 l/m] nominal. See performance chart.
5000 PSI [350 Bar] = Steel - Unplated.
OPERATING TEMPERATURE: -40° to +250° F. [-40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN-0842 Buna "N".
SKV-0842 Viton.
WEIGHT: .24 lb [.11 kg] cartridge only.
VALVE CAVITY: #C0840, See Page 0-041.0.

Reference: 520-P-021010-EN-00/09.2015
FLOW DIVIDER/COMBINER VALVE
SPOOL TYPE.

PORT #3 (INLET) IS ONE SIZE LARGER THAN PORTS #2 & #4 (OUTLET).
FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-042.2

FDCV-10

FLOW DIVISION

<table>
<thead>
<tr>
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<td>22</td>
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<tr>
<td></td>
<td>24</td>
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<td></td>
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TORQUE:
Steel = 55/60 Ft-Lb. [74/81 Nm]
Aluminum = 35/40 Ft-Lb. [47/54 Nm]

L/M (28,5 cSt)

<table>
<thead>
<tr>
<th>PSI</th>
<th>0</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
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<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>14</td>
<td>16</td>
</tr>
</tbody>
</table>

Steel = 55/60 Ft-Lb. [74/81 Nm]
Aluminum = 35/40 Ft-Lb. [47/54 Nm]

Reference: 520-P-021020-EN-00/09.2015
### FEATURES AND BENEFITS

Flow accuracy dividing or combining:

- +/-5.0% of flows under 40% of the rated flow.
- +/-2.5% of flows over 40% of the rated flow.

Quiet and stable operation over wide varying flow, pressure and temperature range.

All external carbon steel parts are plated for longer life against the elements.

All cartridge valves are 100% functionally tested.

Industry common cavity.

### SPECIFICATIONS

| OPERATING PRESSURE: 5,000 PSI [350 Bar] |
| PROOF PRESSURE: 10,000 PSI [700 Bar] |
| FLOW: 16.0 GPM [60 l/m] nominal. See performance chart. |
| OPERATING TEMPERATURE: -40° to +250° F. [-40° to +120° C.] |
| OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc. |
| INSTALLATION: No restrictions. |
| SEAL KIT: SKN-1040 Buna "N". SKV-1040 Viton. |
| WEIGHT: .31 lb [.14 kg] cartridge only. |
| VALVE CAVITY: #C1040, See Page 0-042.0. |

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Reference: S20-P-021020-EN-00/09.2015
FLOW DIVIDER/COMBINDER VALVE
SPOOL TYPE

PORT #3 (INLET) IS ONE SIZE LARGER THAN PORTS #2 & #4 (OUTLETS).
FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS, SEE PAGE 0-043.2

PORT #3 (INLET) IS ONE SIZE LARGER THAN PORTS #2 & #4 (OUTLETS).
FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS, SEE PAGE 0-043.2

FLOW DIVISION

<table>
<thead>
<tr>
<th>CODE</th>
<th>PORT#2</th>
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<th>FLOW</th>
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<tbody>
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<td>11</td>
<td>50%</td>
<td>50%</td>
<td>4.0 GPM</td>
</tr>
<tr>
<td>22</td>
<td>50%</td>
<td>50%</td>
<td>8.0 GPM</td>
</tr>
<tr>
<td>33</td>
<td>50%</td>
<td>50%</td>
<td>12.0 GPM</td>
</tr>
<tr>
<td>44</td>
<td>50%</td>
<td>50%</td>
<td>16.0 GPM</td>
</tr>
<tr>
<td>66</td>
<td>50%</td>
<td>50%</td>
<td>24.0 GPM</td>
</tr>
<tr>
<td>88</td>
<td>50%</td>
<td>50%</td>
<td>32.0 GPM</td>
</tr>
<tr>
<td>12</td>
<td>33.3%</td>
<td>66.6%</td>
<td>6.0 GPM</td>
</tr>
<tr>
<td>13</td>
<td>25%</td>
<td>75%</td>
<td>8.0 GPM</td>
</tr>
<tr>
<td>24</td>
<td>33.3%</td>
<td>66.6%</td>
<td>12.0 GPM</td>
</tr>
<tr>
<td>26</td>
<td>25%</td>
<td>75%</td>
<td>16.0 GPM</td>
</tr>
<tr>
<td>28</td>
<td>25%</td>
<td>75%</td>
<td>20.0 GPM</td>
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<tr>
<td>36</td>
<td>33.3%</td>
<td>66.6%</td>
<td>18.0 GPM</td>
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<td>48</td>
<td>33.3%</td>
<td>66.6%</td>
<td>24.0 GPM</td>
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<td>62</td>
<td>75%</td>
<td>25%</td>
<td>16.0 GPM</td>
</tr>
<tr>
<td>63</td>
<td>66.6%</td>
<td>33.3%</td>
<td>18.0 GPM</td>
</tr>
<tr>
<td>84</td>
<td>66.6%</td>
<td>33.3%</td>
<td>24.0 GPM</td>
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</tbody>
</table>

PRESSURE DROP (ΔP)

L/M (28.5 cSt)

Reference: 520-P-021030-EN-00/09.2015
**FLOW DIVIDER/COMBINER VALVE**  
**SPOOL TYPE**

### DESCRIPTION
This unit is a spool type, screw in cartridge style, flow divider/combiner valve.

### OPERATIONS
This valve divides flow from port 3 to ports 2 and 4 and combines flow from ports 2 and 4 to port 3 at the specified flow division regardless of load or system pressure. Should the circuit operation result in blockage of either port 2 or 4, the opposite port will continue to flow but at a reduced flow rate to synchronize a cylinder.

### FEATURES AND BENEFITS
Flow accuracy dividing or combining:  
+/-5.0% of flows under 40% of the rated flow.  
+/-2.5% of flows over 40% of the rated flow.  
Quiet and stable operation over wide varying flow, pressure and temperature range.  
All external carbon steel parts are plated for longer life against the elements.  
All cartridge valves are 100% functionally tested.  
Ports 2 & 4 (outlets) are stepped down one size from port #3 (inlet).

### SPECIFICATIONS

| OPERATING PRESSURE: 5,000 PSI [350 Bar] |
| PROOF PRESSURE: 10,000 PSI [700 Bar] |
| FLOW: 32.0 GPM [121 l/m] nominal. See performance chart. |
| OPERATING TEMPERATURE: -40° to +250° F. [-40° to +120° C.] |
| OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc. |
| INSTALLATION: No restrictions. |
| SEAL KIT: SKN-1242 Buna "N".  SKV-1242 Viton. |
| WEIGHT: .62 lb [.28 kg] cartridge only. |
| VALVE CAVITY: #C1240, See Page 0-043.0. |

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Information provided for the purpose of product description only, and must not be construed as warranted characteristics in the legal sense. The information does not relieve users from the duty of conducting their own evaluations and tests. Because the products are subject to continual improvement, we reserve the right to amend the product specifications contained in this catalogue.
PORT #3 (INLET) IS ONE SIZE LARGER THAN PORTS #2 & #4 (OUTLET).
FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-041.2

<table>
<thead>
<tr>
<th>BASIC</th>
<th>SIZE</th>
<th>CODE</th>
<th>FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>08 = 3/4&quot;-16 UNF</td>
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<tr>
<td>SEALS</td>
<td>N = BUNA &quot;N&quot;</td>
<td>11</td>
<td>1.0 GPM</td>
</tr>
<tr>
<td></td>
<td>V = VITON</td>
<td>22</td>
<td>2.0 GPM</td>
</tr>
<tr>
<td>PORT#3</td>
<td></td>
<td>33</td>
<td>3.0 GPM</td>
</tr>
<tr>
<td></td>
<td>0 = CARTRIDGE ONLY</td>
<td>44</td>
<td>4.0 GPM</td>
</tr>
<tr>
<td></td>
<td>O3BX = 0 3/8&quot; BSPP</td>
<td>66</td>
<td>6.0 GPM</td>
</tr>
<tr>
<td></td>
<td>O8TX = SAE - #8</td>
<td>88</td>
<td>8.0 GPM</td>
</tr>
</tbody>
</table>

FLOW DIVIDER/COMBINER TRACTION VALVE

TORQUE:
Steel = 35/40 Ft-Lb. [47/54 Nm]
Aluminum = 25/30 Ft-Lb. [34/41 Nm]

FDCT-08-X-X-XX

INLET FLOW

CODE  FLOW
11  1.0 GPM
22  2.0 GPM
33  3.0 GPM
44  4.0 GPM
66  6.0 GPM
88  8.0 GPM

PRESURE DROP (ΔP)

G.P.M.(135 SUS)  L/M (28,5 cSt)

Reference: 520-P-021110-EN-00/09.2015
### DESCRIPTION

This unit is a spool type, screw in cartridge style, flow divider/combiner traction valve. This valve is used when hydraulic motors are used as drive motors on each side of a machine.

### OPERATIONS

This valve divides flow from port 3 to ports 2 and 4 and combines flow from ports 2 and 4 to port 3 at the specified flow division regardless of load or system pressure. When the machine turns a corner the valve shifts part of the flow from the inside motor to the outside motor. This allows the wheels to adjust their speed relative to the turn radius to prevent the wheels from skidding.

### FEATURES AND BENEFITS

Equal flow sent to each motor when the machine is driving in a straight line. During a turn, the flow is adjusted between the motors to keep both wheels driving, while adjusting the speed to match the turn. Quiet and stable operation over wide varying flow, pressure and temperature range. All external carbon steel parts are plated for longer life against the elements. All cartridge valves are 100% functionally tested. Industry common cavity.

### SPECIFICATIONS

- **OPERATING PRESSURE:** 5,000 PSI [350 Bar]
- **PROOF PRESSURE:** 10,000 PSI [700 Bar]
- **FLOW:** 8.0 GPM [30 l/m] nominal. See performance chart.
- **VALVE HOUSINGS:**
  - 2500 PSI [175 Bar] = Aluminum - Anodized.
  - 5000 PSI [350 Bar] = Steel - Unplated.
- **OPERATING TEMPERATURE:** −40° to +250° F. [−40° to +120° C.]
- **OPERATING MEDIA:** All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.
- **INSTALLATION:** No restrictions.
- **SEAL KIT:** SKN-0842 Buna "N".
  - SKV-0842 Viton.
- **WEIGHT:** .24 lb [.11 kg] cartridge only.
- **VALVE CAVITY:** #C0840, See Page 0–041.2.
MANUAL ROTARY FLOW CONTROL VALVE

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-012.1

TORQUE:
Steel = 55/60 Ft-Lb. [74/81 Nm]
Aluminum = 35/40 Ft-Lb. [47/54 Nm]

"D" & "L" ADJUSTMENTS
"K" ADJUSTMENT

1.50" [2,25]
1.56" [39,6]
1.28" [32,5]

1.06" [27,0] HEX

MRFC-10-X-X-X

BASIC
SIZE
10 = 7/8"-14UNF

SEALS
N = BUNA "N" = VITON

ADJUSTMENT
K = HANDKNOB
H = METAL HANDKNOB
O = NO KNOB
G = GRADUATED METAL KNOB
D = LEVER WITH DETENTS
L = LEVER WITH FRICTION LOCK

PORTS
0 = CARTRIDGE ONLY
02BX = G 1/4" BSPP
03BX = G 3/8" BSPP
06TX = SAE - #6
08TX = SAE - #8

"A" = ALUM. HOUSING
"S" = STEEL HOUSING

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.1

Reference: S20-P-022020-EN-00/09.2015
MANUAL ROTARY FLOW CONTROL VALVE

DESCRIPTION
This unit is a SCREW IN, cartridge type, non-compensated, adjustable, bi-directional rotary flow control valve.

OPERATIONS
This valve increases its orifice value from fully closed to fully open in 1/2 turn with counterclockwise rotation.

FEATURES AND BENEFITS
Fine and low effort leakproof adjustment; knob is optional.
All external carbon steel parts are plated for longer life against the elements.
All cartridge valves are 100% functionally tested.
Industry common cavity.

SPECIFICATIONS
OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 18.0 GPM [68 l/m] nominal. See performance chart.
SHAFT ROTATION IS 160° FROM FULL OPEN TO CLOSED
INTERNAL LEAKAGE: 5 cu.in./min.[82 cc/m] @ 5,000 PSI (350 Bar)
5000 PSI [350 Bar] = Steel – Unplated.
OPERATING TEMPERATURE: −40° to +250° F. [−40° to +120° C.]
OPERATING MEDIA: All general purpose hydraulic fluids such as MIL–H–5606, SAE–#10, SAE–#20, etc.
INSTALLATION: No restrictions.
SEAL KIT: SKN–1022 Buna “N”.
SKV–1022 Viton.
WEIGHT: .31 lb [.14 kg] cartridge only.
VALVE CAVITY: #C1020, See Page 0–012.0.