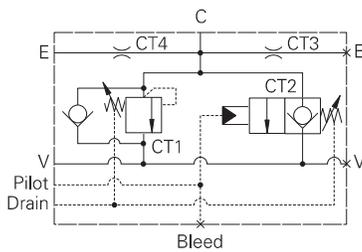


ICEBL256 - BoomLoc valve

Hose burst protection, flange mounted with independent pilot control (Ref. ISO 8643)
 250 L/min (66 USgpm) • 350 bar (5000 psi)



Operation

By connecting the hose rupture valve pilot in parallel with the directional spool valve pilot, and adjusting the opening characteristics of the hose rupture valve to suit that of the spool valve "BoomLoc" may be set so as not to interfere with the normal operation of the machine.

Features

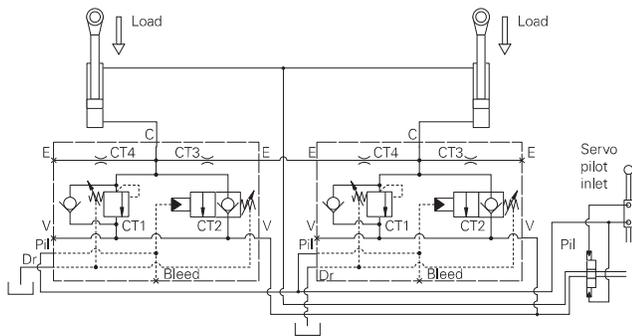
This is a compact design with good dirt tolerance. Hardened poppets and seats provide excellent load holding characteristics with all the advantages of the cartridge insert.

Fine adjustment of the pilot pressure permits the optimum setting to be made in differing operating systems.

Both the pilot and the relief sections are unaffected by back pressure, enabling the service line relief's to operate normally. In the event of hose failure, the control will be passed from the main spool to the "BoomLoc" valve, maintaining control of the cylinder.

Regardless of the load the pilot pressure requirement remains constant as the valve is unaffected by load induced pressure, the poppet being fully balanced with zero differential area.

Typical circuit



Description

These overcenter valves are suitable for use on the boom and dipper cylinders of an excavator to help the manufacturer or user comply with standard ISO8643.

They were designed to give relief, load holding and hose failure protection to systems where a pilot system controls the directional valves.

Performance data

Ratings and specifications

Figures based on: Oil Temp = 40°C Viscosity = 32 cSt (150 SUS)

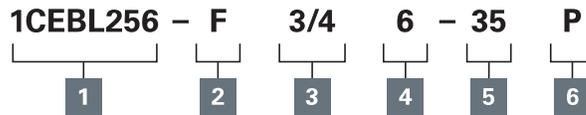
Rated flow	250 L/min (66 USgpm)
Max setting	350 bar (5000 psi)
Cartridge material	Working parts hardened and ground steel. External surfaces electroless nickel plated and passivated.
Standard housing materials	Bright drawn mild steel bar. Zinc plated and passivated.
Mounting position	Flange mounted
Weight	7.5 kg (16.5 lbs)
Seal kit	SK1162P (Polyurethane/Nitrile)
Filtration	BS5540/4 Class 18/13 (25 micron nominal)
Temperature range	-30° to +90°C (-22° to +194°F)
Internal leakage	0.6 ml/min (10 dpm)
Nominal viscosity range	5 to 500 cSt

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

ICEBL256 - BoomLoc valve

Hose burst protection, flange mounted with independent pilot control (Ref. ISO 8643)
250 L/min (66 USgpm) • 350 bar (5000 psi)

Model code



1 Basic code

1CEBL256 - Cartridges and body

2 Adjustment means

F - Screw adjustment

For fixed versions add setting in 10 bar increments to end of part number. Subject to a $\pm 10\%$ tolerance.

3 Port size

3/4 - 3/4" SAE flange cylinder port slotted for 3000 & 6000
3/4" SAE Flange valve port (thread G1/2)
1/8" BSP bleed port
1/4" BSP all other ports

4 SAE port type

6 - SAE 6000 (Valve port)

5 Pressure range @ 4.8 L/min

Note: Code based on pressure in bar.

35 - 70-350 bar.

Std setting 350 bar

Std setting made at 4.8 L/min

6 Seals

P - Contains polyurethane and standard seal.

Dimensions

mm (inch)

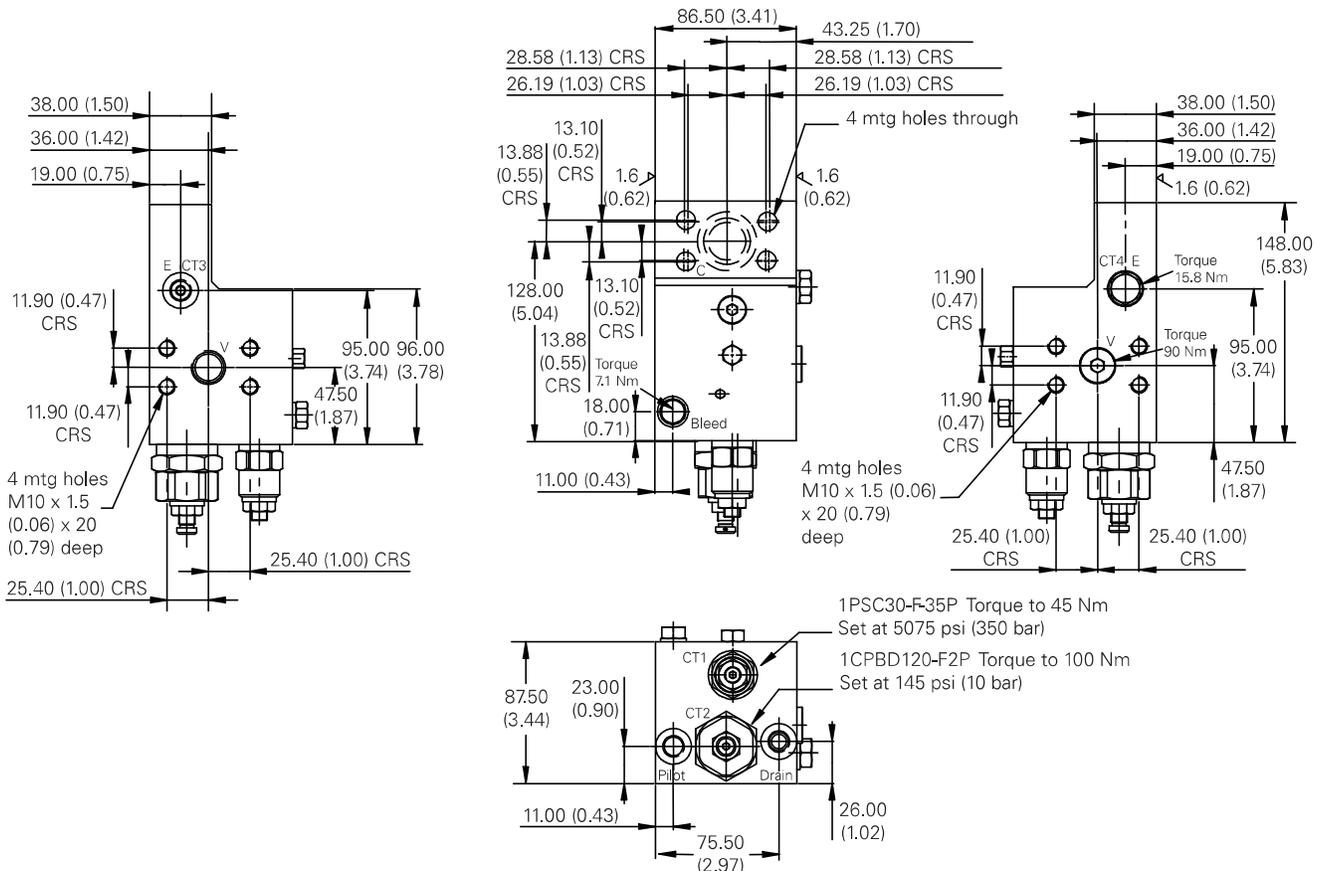
Flange mounted

Basic Code

1CEBL256

Note: Cylinder port bolt holes are slotted for fitment to both SAE 3000 & SAE 6000 mounting faces.

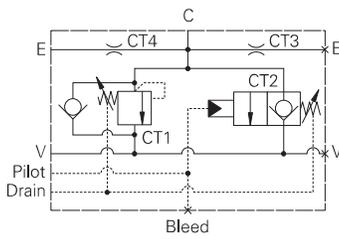
Note: Tightening torque of "F" adjuster locknut - 20 to 25 Nm.



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

ICEBL356 - BoomLoc valve

Hose burst protection, flange mounted with independent pilot control (Ref. ISO 8643)
 350 L/min (92 USgpm) • 350 bar (5000 psi)



Operation

By connecting the hose rupture valve pilot in parallel with the directional spool valve pilot, and adjusting the opening characteristics of the hose rupture valve to suit that of the spool valve "BoomLoc" may be set so as not to interfere with the normal operation of the machine.

Fine adjustment of the pilot pressure permits the optimum setting to be made in differing operating systems.

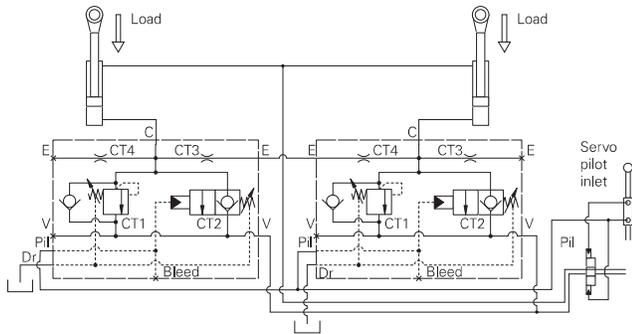
Both the pilot and the relief sections are unaffected by backpressure, enabling the service line relief's to operate normally. In the event of hose failure, the control will be passed from the main spool to the "BoomLoc" valve, maintaining control of the cylinder.

Regardless of the load the pilot pressure requirement remains constant as the valve is unaffected by load induced pressure, the poppet being fully balanced with zero differential area.

Features

This is a compact design with good dirt tolerance. Hardened poppets and seats provide excellent load holding characteristics with all the advantages of the cartridge insert.

Typical circuit



F

Description

These overcenter valves are suitable for use on the boom and dipper cylinders of an excavator to help the manufacturer or user comply with standard ISO8643.

They were designed to give relief, load holding and hose failure protection to systems where a pilot system controls the directional valves.

Performance data

Ratings and specifications

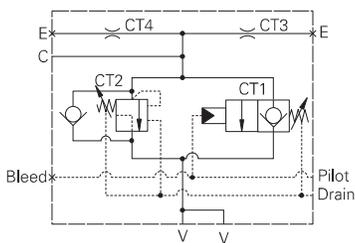
Figures based on: Oil Temp = 40°C Viscosity = 32 cSt (150 SUS)

Rated flow	350 L/min (92 USgpm)
Max setting	350 bar (5000 psi)
Cartridge material	Working parts hardened and ground steel. External surfaces electroless nickel plated and passivated.
Standard housing materials	Bright drawn M.S. bar zinc plated and passivated
Mounting position	Flange mounted
Weight	7.5 kg (16.5 lbs)
Seal kit	SK1161P (Polyurethane/Nitrile)
Filtration	BS5540/4 Class 18/13 (25 micron nominal)
Temperature range	-30° to 90°C (-22° to +194°F)
Internal leakage	0.6 ml/min (10 dpm)
Nominal viscosity range	5 to 500 cSt

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

ICEBL556 - BoomLoc valve

Hose burst protection, flange mounted with independent pilot control (Ref. ISO 8643)
 550 L/min (145 USgpm) • 400 bar (5800 psi)



Operation

By connecting the hose rupture valve pilot in parallel with the directional spool valve pilot, and adjusting the opening characteristics of the hose rupture valve to suit that of the spool valve "BoomLoc" may be set so as not to interfere with the normal operation of the machine. Fine adjustment of the pilot

pressure permits the optimum setting to be made in differing operating systems.

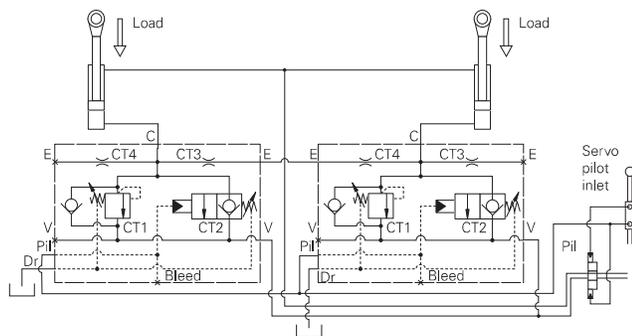
Both the pilot and the relief sections are unaffected by backpressure, enabling the service line relief's to operate normally. In the event of hose failure, the control will be passed from the main spool to the "BoomLoc" valve, maintaining control of the cylinder.

Regardless of the load the pilot pressure requirement remains constant as the valve is unaffected by load induced pressure, the poppet being fully balanced with zero differential area.

Features

This is a compact design with good dirt tolerance. Hardened poppets and seats provide excellent load holding characteristics with all the advantages of the cartridge insert.

Typical circuit



F

Description

These overcenter valves are suitable for use on the boom and dipper cylinders of an excavator to help the manufacturer or user comply with standard ISO8643.

They were designed to give relief, load holding and hose failure protection to systems where a pilot system controls the directional valves.

Performance data

Ratings and specifications

Figures based on: Oil Temp = 40°C Viscosity = 32 cSt (150 SUS)

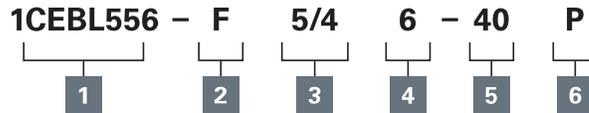
Rated flow	550 L/min (145 USgpm)
Max setting	400 bar (5800 psi)
Cartridge material	Working parts hardened and ground steel. External surfaces electroless nickel plated and passivated.
Standard housing materials	Bright drawn M.S. bar zinc plated and passivated
Mounting position	Flange mounted
Weight	21 kg (46.2 lbs)
Seal kit	SK1163P (Polyurethane/Nitrile)
Filtration	BS5540/4 Class 18/13 (25 micron nominal)
Temperature range	-30° to +90°C (-22° to +194°F)
Internal leakage	4.3 ml/min (70 dpm)
Nominal viscosity range	5 to 500 cSt

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

ICEBL556 - BoomLoc valve

Hose burst protection, flange mounted with independent pilot control (Ref. ISO 8643)
550 L/min (145 USgpm) • 400 bar (5800 psi)

Model code



1 Basic code

ICEBL556 - Cartridges and body

2 Adjustment means

F - Screw adjustment

For fixed versions add setting in 10 bar increments to end of part number. Subject to a +/-10% tolerance.

3 Port size

5/4 - 1 1/4" SAE Flange cylinder port
1 1/4" SAE Flange valve port
1/4" BSP all other ports

4 SAE port type

6 - SAE 6000

5 Pressure range @ 4.8 L/min

Note: Code based on pressure in bar.

40 - 70-400 bar.
Std setting 350 bar

Std setting made at 4.8 L/min

6 Seals

P - Contains polyurethane and standard seal.

Dimensions

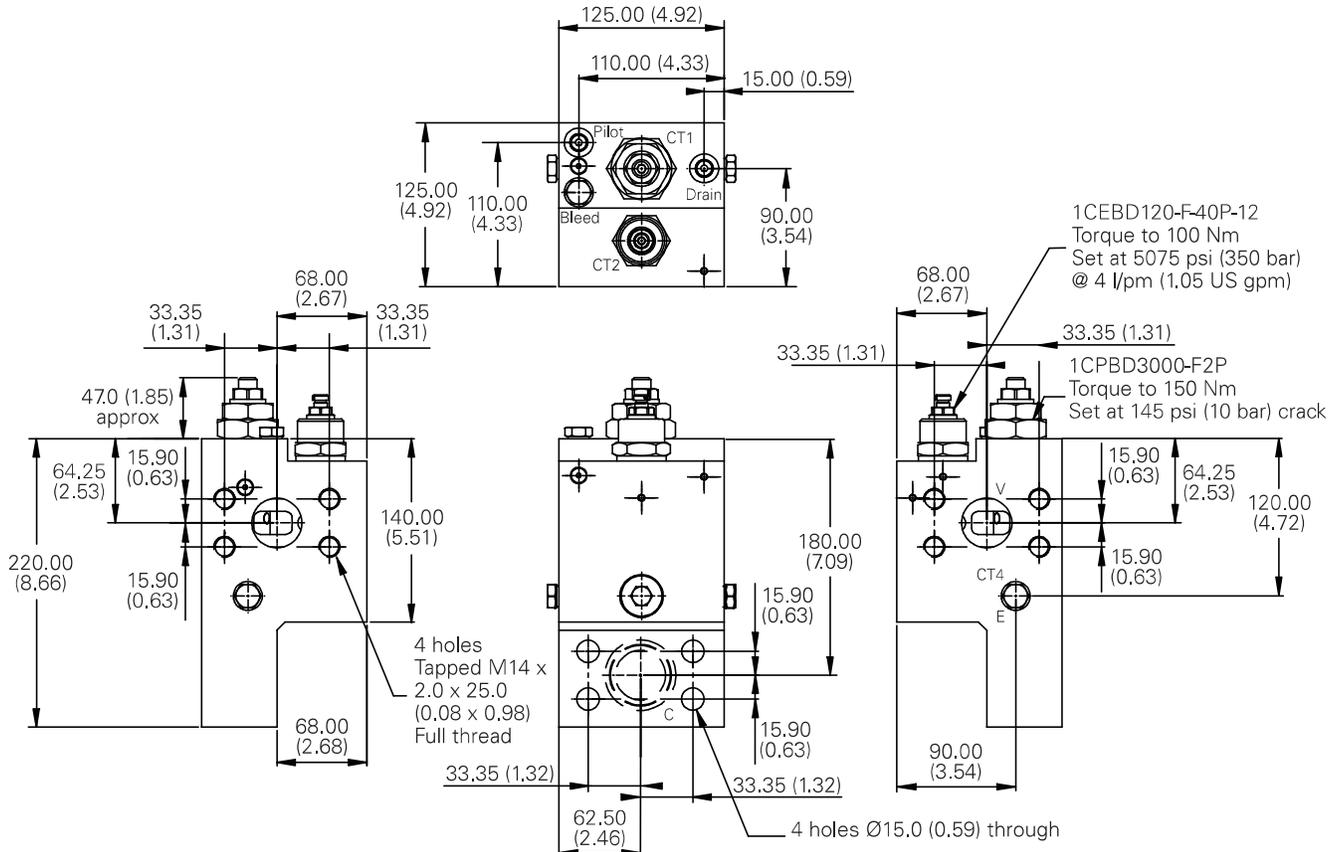
mm (inch)

Complete valve

Flange Mounted
Basic Code
1CEBL356

Note: Cylinder port bolt holes are slotted for fitment to both SAE 3000 & SAE 6000 mounting faces.

Note: Tightening torque of "F" adjuster locknut - 20 to 25 Nm.



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.