

# FP-22-CP-S08 | FP-22-CP-S10 FP-22-CP-S12 | FP-22-CP-S16

Solenoid operated cartridge, pilot operated poppet type,  
2 way normally closed



## PRODUCT OVERVIEW

Solenoid operated valve, 2 way, normally closed, piloted poppet-type, screw-in hydraulic cartridge, act as a blocking or load-holding device for flow circuits.

Application includes agriculture and forestry, material handling, construction, industry and mining.

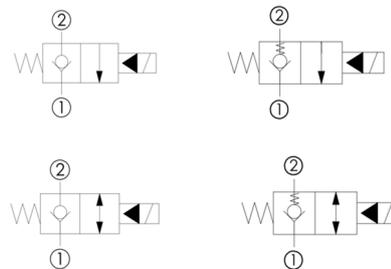
## FEATURES

- | Optional coil voltages and terminations
- | Hardened internal parts for long life and low leakage
- | Industry common cavity
- | Continuous-duty rated coil
- | Compact size

## OPTIONS

- | Standard
- | Manual Override screw
- | Manual override pull with return spring

## HYDRAULIC SCHEME



## TECHNICAL SPECIFICATIONS

| Max. operating pressure:  
350 bar (5000 psi)

| Recommended filtration :  
nominal max. 10µ,  
ISO 4406-19/17/14 (NAS8) or less

| Inlet voltage fluctuations must not  
exceed ±10% of nominal voltage

	FP-22-CP-S08	FP-22-CP-S10	FP-22-CP-S12	FP-22-CP-S16
Rated flow	50 l/min (13 gpm)	70 l/min (18 gpm)	140 l/min (37 gpm)	150 l/min (39 gpm)
Cavity	SAE 08	SAE 10	SAE 12	SAE 16
Weight	0,135 kg (0,29 lb)	0,170 kg (0,37 lb)	0,270 kg (0,60 lb)	0,380 kg (0,79 lb)
Oil temp.	-20°C +80°C (-4°F +170°C)	-20°C +80°C (-4°F +170°C)	-20°C +80°C (-4°F +170°C)	-20°C +80°C (-4°F +170°C)
Ambient temp. range	-30°C +60°C (-22°F +140°F)	-30°C +60°C (-22°F +140°F)	-30°C +60°C (-22°F +140°F)	-30°C +60°C (-22°F +140°F)

Fluid-Press S.r.L

Via A. Varisco 2/4/6  
42020 Albinea (RE) Italy

T. +39 0522 347034

info@fluidpress.it | www.fluidpress.it

# FP-22-PD-S10-12-B | FP-22PD-S12-12-B

Solenoid operated cartridge, pilot operated poppet type, 2 way normally open



## PRODUCT OVERVIEW

Solenoid operated valve, 2 way, normally open, piloted poppet-type, screw-in hydraulic cartridge, act as a blocking or load-holding device for flow circuits.

Application includes agriculture and forestry, material handling, construction, industry and mining.

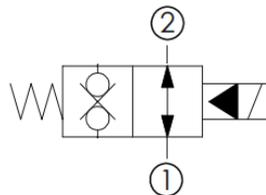
## FEATURES

- | Multiple coil voltages and terminations
- | Hardened internal parts for long life and low leakage
- | Industry common cavity
- | Continuous-duty rated coil
- | Compact size

## OPTIONS

- | Standard
- | Manual override screw
- | Manual override pull with return spring

## HYDRAULIC SCHEME



## TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Recommended filtration: nominal max. 10 $\mu$ , ISO 4406-19/17/14 (NAS8) or less
- | Inlet voltage fluctuations must not exceed  $\pm 10\%$  of nominal voltage

	FP-22-S10-12-B	FP-22-S12-12-B
Rated flow	70 l/min (18 gpm)	140 l/min (36 gpm)
Cavity	SAE 10	SAE 12
Weight	0,190 kg (0,41 lb)	0,270 kg (0,59 lb)
Oil temp.	-20°C +80°C (-4°F +170°C)	-20°C +80°C (-4°F +170°C)
Ambient temp. range	-30°C +60°C (-22°F +140°F)	-30°C +60°C (-22°F +140°F)

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42020 Albinea (RE) Italy

T. +39 0522 347034

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# FPO-60 CT | FPO-100 CT | FPO-140 CT

Overcenter, cartridge version,  
T11-A cavity | T17-A cavity



## PRODUCT OVERVIEW

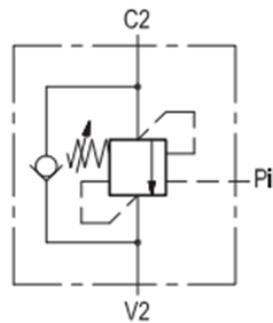
Overcenter valves are hydraulic components designed to control actuator movement, particularly under load. These valves allow for smooth and controlled lowering of loads, preventing sudden drops and enhancing safety.

This valve is peculiarly suitable for vehicle working in: agriculture&forestry, material handling, construction, industrial and mining.

## FEATURES

- | Controlled descent of the load which does not escape dragged by its own weight, as the valve does not allow any cavitation of the actuator
- | Free upstream flow through the check valve for load lifting
- | Locking of reverse downstream flow when the directional valve is not operated, or the pump is stopped
- | Pressure relief (with open center directional spools) for pressure surges in the actuator caused by the inertia of the load, by oil expansion due to heating, or by external forces
- | Hardened, precision ground parts for durability

## HYDRAULIC SCHEME



## TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Recommended filtration : nominal max. 10μ, ISO 4406-19/17/14 (NAS8) or less
- | Ambient temperature range: -30°C +60°C (-22°F +140°F)
- | Oil temperature: -20°C +80°C (-4°F +170°C)

	FPO-60 CT	FPO-100 CT	FPO-140 CT
Rated flow	60 l/min (16 gpm)	100 l/min (22 gpm)	140 l/min (36 gpm)
Cavity	T11A	T17A	T17A
Oil temp.	-20°C +80°C (-4°F +170°C)	-20°C +80°C (-4°F +170°C)	-20°C +80°C (-4°F +170°C)

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T. +39 0522 347034

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# FPOB 35N D | FPOB 90 D

## Dual overcenter valve, load sensing



### PRODUCT OVERVIEW

Provides static and dynamic control of load by regulating the flow in and out of the actuator, the check valve allows free flow from port V to port C while a direct-acting, pilot-assisted relief valve controls flow from port C to port V. Pilot assist lowers the effective setting of the relief valve at a rate determined by the pilot ratio.

Applications include: agriculture&forestry, material handling, construction, industrial and mining.

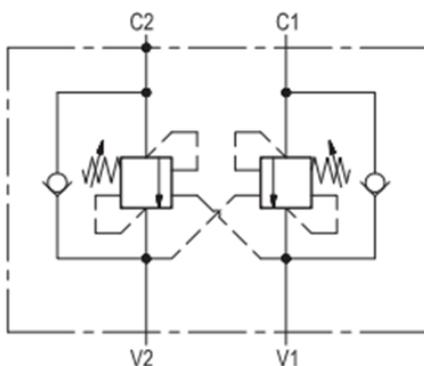
### FEATURES

- | Controlled descent of the load to prevent a run-away condition
- | Free flow check valve to the actuator for unrestricted load
- | Locking of reverse downstream flow when the directional valve is not operated, or the pump is stopped
- | Pressure relief for pressure spikes in the actuator caused by the inertia of the load, by oil expansion due to heating, or by external forces

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Pilot ratio: 1:4 (on request 1:8; 1:11)
- | Rated flow: 35 l/min (9 gpm) | 90 l/m (23 gpm)
- | Oil temperature range: -20°C +100°C (-4°F +212°F)
- | Recommended filtration: nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Manifold material: Zinc plated steel
- | Hardened, precision ground parts for durability internal parts

### HYDRAULIC SCHEME



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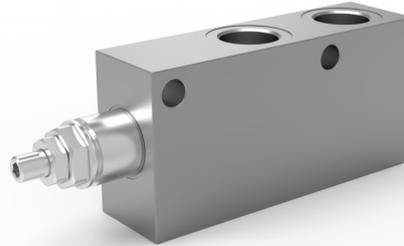
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42020 Albinea (RE) Italy

T. +39 0522 347034

info@fluidpress.it | www.fluidpress.it

# FPOB 35N S

## Single overcenter valve, load sensing



### PRODUCT OVERVIEW

Provides static and dynamic control of load by regulating the flow in and out of the actuator, the check valve allows free flow from port V to port C while a direct-acting, pilot-assisted relief valve controls flow from port C to port V. Pilot assist lowers the effective setting of the relief valve at a rate determined by the pilot ratio.

This valve is peculiarly suitable for vehicle working in: agriculture&forestry, material handling, construction, industrial and mining.

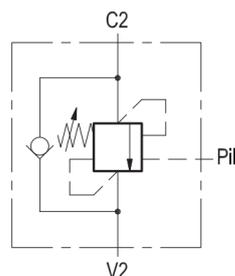
### FEATURES

- | Controlled descent of the load to prevent a run-away condition
- | Free flow check valve to the actuator for unrestricted load
- | Locking of reverse downstream flow when the directional valve is not operated, or the pump is stopped
- | Pressure relief for pressure spikes in the actuator caused by the inertia of the load, by oil expansion due to heating, or by external forces

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Pilot ratio: 1:4 (on request 1:8; 1:11)
- | Rated flow: 35 l/min (9 gpm)
- | Oil temperature range: -20°C +100°C (-4°F +212°F)
- | Recommended filtration: nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Manifold material: Zinc plated steel
- | Hardened, precision ground parts for durability internal parts

### HYDRAULIC SCHEME



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T. +39 0522 347034

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# FPRP D 30 C

## Pressure reducing and relieving, direct acting spool type



### PRODUCT OVERVIEW

Oil flows freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the valve acts to restrict input flow at 2. This increases the pressure drop through the valve and maintains consistent pressure at 1. The spring chamber is drained at 3 to prevent a build-up of backpressure against the spool.

Applications includes: agriculture&forestry, material handling, construction, industrial and mining.

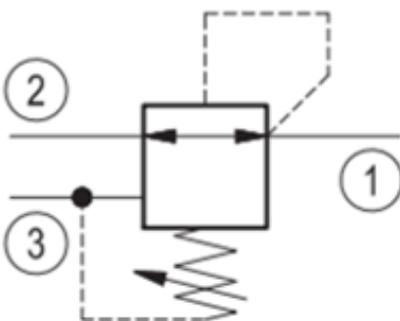
### FEATURES

- | Excellent stability throughout pressure range with rapid response to dynamic pressure changes
- | Control Hardened precision parts
- | Adjustable by allen key or hand screw

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Max setting pressure: 180 bar (2600 psi)
- | Rated flow: 30 l/min (8 gpm)
- | Oil temperature range: -20°C +100°C (-4°F +212°F)
- | Recommended filtration: nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less

### HYDRAULIC SCHEME



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Via A. Varisco 2/4/6  
42020 Albinea (RE) Italy

T. +39 0522 347034

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# FP-23G-0001

Solenoid operated valve direct acting, spool type,  
4 way / 2 position



## PRODUCT OVERVIEW

Solenoid operated valve, 2 position / 4 way , screw in hydraulic cartridge.

Applications include: agriculture&forestry, material handling, construction, industrial and mining.

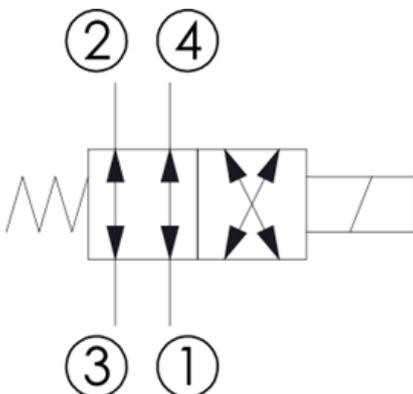
## FEATURES

- | Multiple coil voltages and connectors
- | Industry common cavity
- | Continuous-duty rated coil

## TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 210 bar (3000 psi)
- | Rated flow: 12 l/min (2,6 gpm)
- | Cavity: SAE 08
- | Oil temperature range: -20°C +100°C (-4°F +140°F)
- | Recommended filtration: nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Ambient temperature range -30°C +60°C (-22°F +140°F)
- | Inlet voltage fluctuation mustnot exceed ±10% of nominal voltage

## HYDRAULIC SCHEME



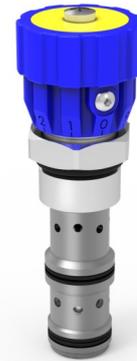
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42020 Albinea (RE) Italy  
T. +39 0522 347034

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# FPVP 90 C R

Flow regulator, 3 way pressure compensated,  
with exceeding flow in pressure



## PRODUCT OVERVIEW

Provide constant flow rate, regardless of system pressure from P to R while maintaining a minimum pressure differential between the two ports (ex: 10 bar/145 psi).

Applications include: agriculture&forestry, material handling, construction, industrial and mining.

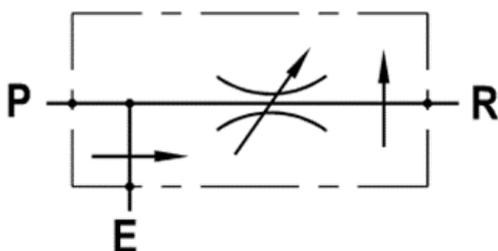
## FEATURES

- | The flow rate depends on the selected flow range and set pressure drop
- | Pressure compensated to maintain constant flow regardless of load pressure changes
- | Precisely manufactured parts and a hardened compensator spool
- | Fast and smooth response to load changes

## TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Rated flow: 70 l/min (18 gpm)
- | Oil temperature range: -20°C +100°C (-4°F +140°F)
- | Recommended filtration: nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less

## HYDRAULIC SCHEME



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Via A. Varisco 2/4/6  
42020 Albinea (RE) Italy  
T. +39 0522 347034

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# FP-23G-0009

Solenoid operated valve direct acting, spool type,  
4 way / 3 position



## PRODUCT OVERVIEW

Solenoid operated valve direct 3 positions / 4-way spool type, screw in hydraulic cartridge valve.

Application include: agriculture&forestry, material handling, construction, industrial and mining.

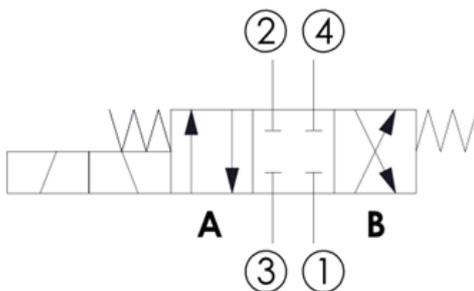
## FEATURES

- | Multiple coil voltages and connectors
- | Industry common cavity
- | Continuous-duty rated coil

## TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 250 bar (3600 psi)
- | Max. operating pressure on port 1: 210 bar (3000 psi)
- | Cavity: SAE 08
- | Rated flow: 10 l/min (2,6 gpm)
- | Weight: 0,190 kg (0,42 lb)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Ambient temperature range -30°C +60°C (-22°F +140°F)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Inlet voltage fluctuation mustnot exceed ±10% of nominal voltage

## HYDRAULIC SCHEME



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42020 Albinea (RE) Italy  
T. +39 0522 347034

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# FP-32-CD-S08

Solenoid direct operated cartridge, double blocking,  
3 way / 2 position



## PRODUCT OVERVIEW

Solenoid direct operated valve, 2 position / 3-way bi-directional blocking, screw in hydraulic cartridge valve.

Application include: agriculture&forestry, material handling, construction, industrial and mining.

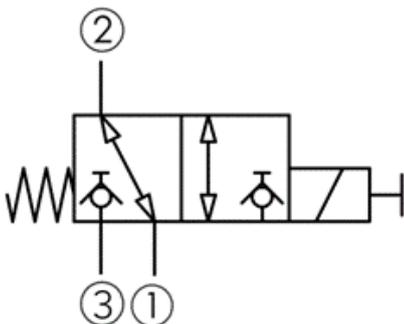
## FEATURES

- | Optional coil voltages and connectors
- | Hardened internal parts for long life and low leakage
- | Industry standard cavity
- | Continuous duty rated coil
- | Compact size

## TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 250 bar (3600 psi)
- | Cavity: SAE 16
- | Rated flow: 20 l/min (5 gpm)
- | Weight: 0,198 kg (0,43 lb)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Ambient temperature range -30°C +60°C (-22°F +140°F)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Inlet voltage fluctuation mustnot exceed ±10% of nominal voltage

## HYDRAULIC SCHEME



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# FP-23G-0011

Solenoid operated valve direct acting, spool type,  
4 way / 3 position



## PRODUCT OVERVIEW

Solenoid operated valve, 3 position / 4 way , screw in hydraulic cartridge valve.

Applications include: agriculture&forestry, material handling, construction, industrial and mining.

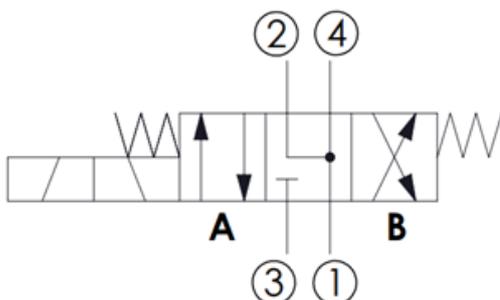
## FEATURES

- | Optional coil voltages and connectors
- | Industry common cavity
- | Continuous duty rated coil

## TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 250 bar (3600 psi)
- | Max. operating pressure on port 1: 210 bar (3000 psi)
- | Cavity: SAE 08
- | Rated flow: 10 l/min (2,6 gpm)
- | Weight: 0,190 kg (0,42 lb)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Ambient temperature range -30°C +60°C (-22°F +140°F)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Inlet voltage fluctuation mustnot exceed ±10% of nominal voltage

## HYDRAULIC SCHEME

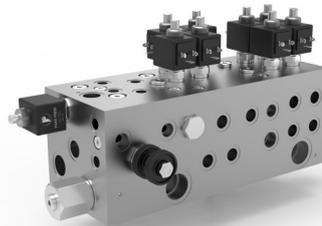
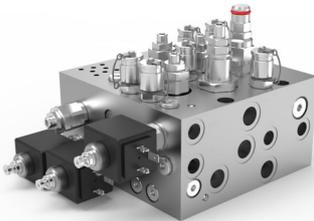


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42020 Albinea (RE) Italy  
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# FPX HIC—Hydraulic Integrated Circuit



## PRODUCT OVERVIEW

Fluid-Press custom manifolds incorporate two or more functions into a single block, which allow more compact solution by reducing the number of external connections thus simplifying the installation. Fluid-press customer manifolds are designed with the customers' needs in mind and in their specifications. .

Application include: agriculture&forestry, material handling, construction, industrial and mining.

## FEATURES

- | Optional coil voltages and connectors
- | Industry common cavity
- | Continuous duty rated coil

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# FPEXC 35 S 3 3/8 L DX 05

## Check and metering valve



### PRODUCT OVERVIEW

Check and metering valves controls the flow of fluid particularly in earth moving machines. Allow control of load lowering and ensure safety in the event of a hose rupture under all conditions of machine operation. They include mechanism for remote control and pressure relief to manage overload conditions.

Application include: agriculture&forestry, material handling, construction, industrial and mining.

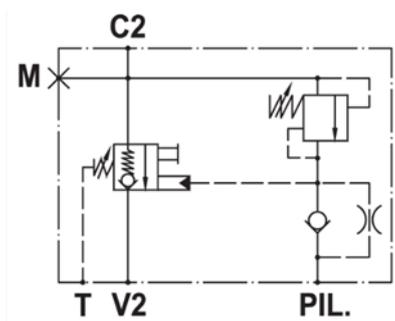
### FEATURES

- | Controlled descent of the load to prevent a run-away condition
- | Free flow check valve to the actuator for unrestricted load
- | Locking of reverse downstream flow when the directional valve is not operated, or the pump is stopped
- | Pressure relief for pressure spikes in the actuator caused by the inertia of the load, by oil expansion due to heating, or by external forces
- | Hardened, precision ground parts for durability

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Rated flow: 35 l/min (9 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Manifold material: Zinc plated steel
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less

### HYDRAULIC SCHEME



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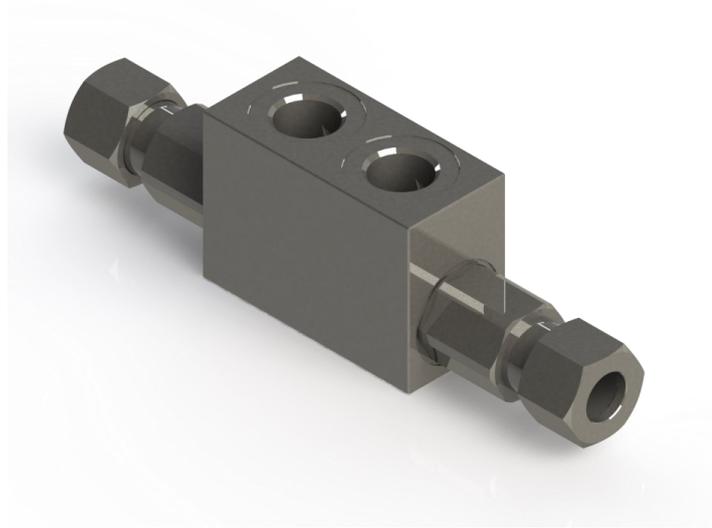
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T. +39 0522 347034

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# FPD 3/8 20L 2RO

## Double check, pilot operated flanged valve



### PRODUCT OVERVIEW

They are non-modulating valves that allow free flow through the check valve into the actuator (V to C) and then block reverse flow until they sense a pilot pressure directly proportional to the load in the pilot line, so that the pilot piston can push the poppet from its seat.

Application include: agriculture&forestry, material handling, construction, industrial and mining.

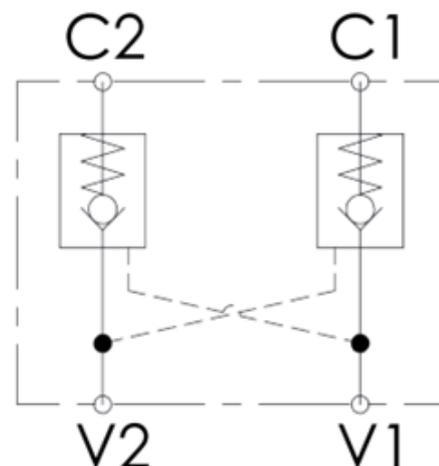
### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Rated flow: 20 l/min (5 gpm)
- | Weight: 1,750 kg (3,85 lb)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Ambient temperature range -30°C +60°C (-22°F +140°F)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less

### FEATURES

- | Steel body, zinc plated
- | Internal parts are in hardened and ground steel

### HYDRAULIC SCHEME



# FPFD S10 C A

## Flow divider and combiner, cartridge type



### PRODUCT OVERVIEW

Input flow at 3 will be divided and output equally to 2 and 4 independent of system pressures. Flow input at 2 and 4 will be combined and output at 3.

Application include: agriculture&forestry, material handling, construction, industrial and mining.

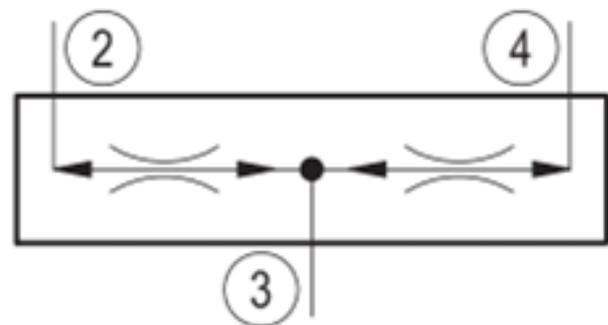
### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 250 bar (3600 psi)
- | Rated flow: 150 l/min (40 gpm)
- | Division percentage: 50/50 — 40/60 — 30/70
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Ambient temperature range -30°C +60°C (-22°F +140°F)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less

### FEATURES

- | Industry common cavity

### HYDRAULIC SCHEME



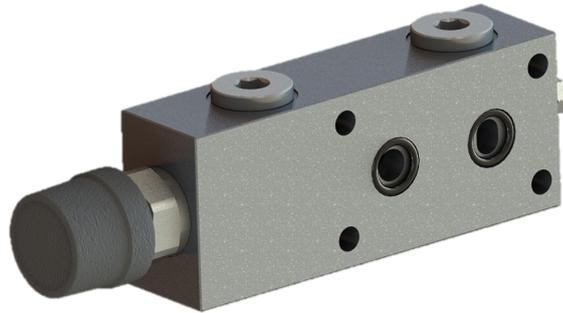
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42020 Albinea (RE) Italy  
T. +39 0522 347034

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# FPOFB 150 S

## Single overcenter valve, compensated



### PRODUCT OVERVIEW

Provides static and dynamic control of load by regulating the flow in and out of the actuator, the check valve allows free flow from port V to port C while a direct-acting, pilot-assisted relief valve controls flow from port C to port V. Pilot assist lowers the effective setting of the relief valve at a rate determined by the pilot ratio.

Application include: agriculture&forestry, material handling, construction, industrial and mining.

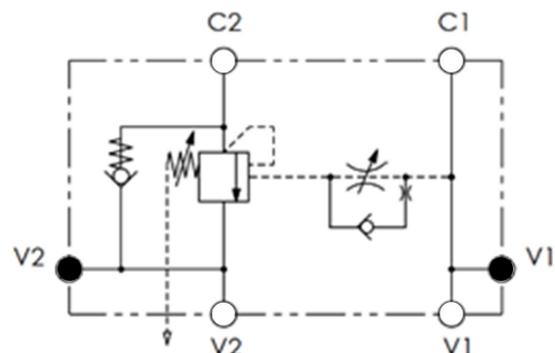
### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Pilot Ratio: 1:4
- | Rated flow: 150 l/min (39 gpm)
- | Manifold material: zinc plated steel
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Hardened, precision ground parts for durability internal
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less

### FEATURES

- | Controlled descent of the load which does not escape dragged by its own weight, as the valve does not allow any cavitation of the actuator
- | Free upstream flow through the check valve for load lifting
- | Locking of reverse downstream flow when the directional valve is not operated, or the pump is stopped
- | Pressure relief (with open center directional spools) for pressure surges in the actuator caused by the inertia of the load, by oil expansion due to heating, or by external forces

### HYDRAULIC SCHEME



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42020 Albinea (RE) Italy  
T. +39 0522 347034

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# FPRF 3/8 S G

## Flow regulator, 3 way, pressure compensated



### PRODUCT OVERVIEW

The valve ensures a constant flow from P to R regardless of system pressure, with a pressure drop of about 5 bar (70 psi) between the two ports. Flow in excess of the set flow rate is discharged at T. The outflow can be adjusted from totally closed to the maximum rated flow rate.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

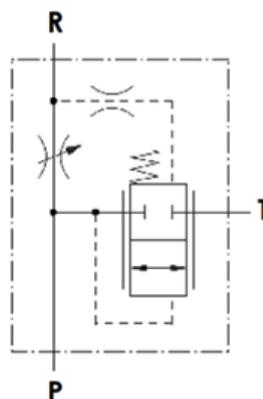
### FEATURES

- | Excellent stability throughout flow range with rapid response to dynamic pressure changes
- | Hardened, precision ground parts for durability

### TECHNICAL SPECIFICATIONS

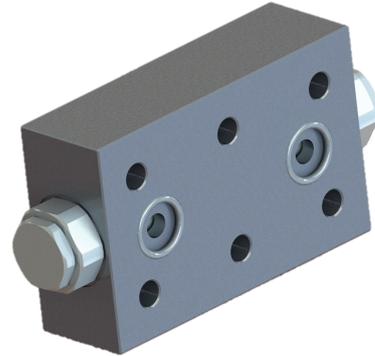
- | Max. operating pressure: 250 bar (3600 psi) aluminium body / 350 bar (5000 psi) - steel body
- | Rated flow: 50 l/min. (13 gpm) with 30 l/min (8 gpm) in R
- | Oil temperature: -20°C +100°C (-4°F +212°F)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less

### HYDRAULIC SCHEME



# FPD F 1/2

## Double check, pilot operated flanged valve



### PRODUCT OVERVIEW

Non-modulating valves that allow free flow through the check valve into the actuator (V to C) and then block reverse flow until they sense a pilot pressure directly proportional to the load in the pilot line, so that the pilot piston can push the poppet from its seat.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

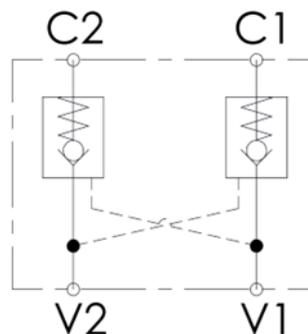
### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi) aluminium body
- | Rated flow: up to 20 l/min (5 gpm)
- | Oil temperature: -20°C +100°C (-4°F +212°F)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Weight: 1,750 kg (3,85 lb)
- | Ambient température range -30°C +60°C (-22°F +140°F)

### FEATURES

- | Steel body, zinc plated
- | Hardened and ground steel internal parts

### HYDRAULIC SCHEME



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Via A. Varisco 2/4/6  
42020 Albinea (RE) Italy

T. +39 0522 347034

info@fluidpress.it | www.fluidpress.it

# FPUN 3/8

## In line single acting flow control valve



### PRODUCT OVERVIEW

In-line mounted restrictor throttles and restricts flow from A1 to A. It has a built-in adjustable restriction that can be adjusted by turning the outer sleeve from fully closed to fully open. Free flow from A to A1 is allowed through the built-in check valve.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

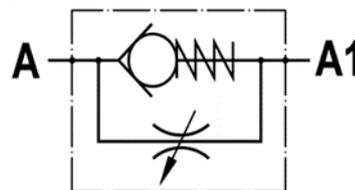
### FEATURES

- | Steel body, zinc plated
- | Hardened and ground steel internal parts

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 400 bar (5800 psi)
- | Rated flow: up to 90 l/min (23 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Ambient temperature range -30°C +60°C (-22°F +140°F)

### HYDRAULIC SCHEME



# FPIAM 60 1/2

## Automatic reversing valve, pressure increase control



### PRODUCT OVERVIEW

Directional valve that generates the continuous reciprocating motion of a double-acting actuator, without the need for external controls. The pump feeds port A (or B) by unloading port B (or A), until the pressure in A (or B) increases and the corresponding relief valve opens; the unloaded oil shifts the position of spool 3/2 and consequently the pressure of line P shifts the main spool 4/2 to the opposite position. Translation occurs each time the load increases at the selected pressure setting, and the cycle repeats automatically.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

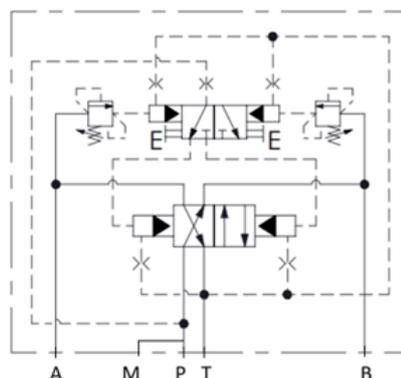
### FEATURES

- | Cast iron, zinc plated body
- | Hardened and ground steel internal parts
- | Different shifting pressure for A and B lines

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 250 bar (3600 psi)
- | Rated flow: up to 60 l/min (15 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Recommended filtration: nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Ambient temperature range -30°C +60°C (-22°F +140°F)

### HYDRAULIC SCHEME



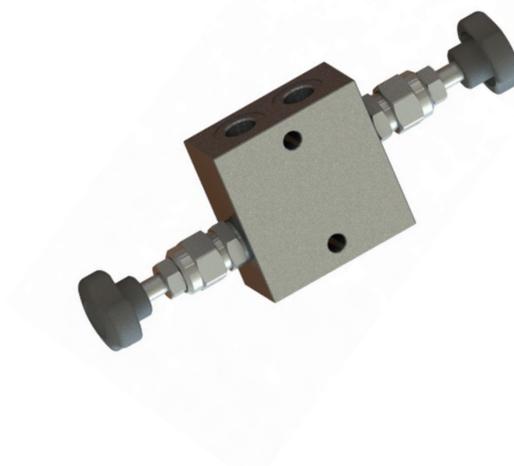
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Via A. Varisco 2/4/6  
42020 Albinea (RE) Italy  
T. +39 0522 347034

info@fluidpress.it | www.fluidpress.it

# FPM D 40

## Dual cross over relief valve, direct acting



### PRODUCT OVERVIEW

Designed to limit the pressure in the two inlet lines, protecting the actuator from shocks or pressure surges induced by changes in direction or sudden stops. Cross-over type that transfers the oil discharged from one line into the other line (from V1 to V2 and vice versa) to ensure actuator filling and avoid cavitation.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

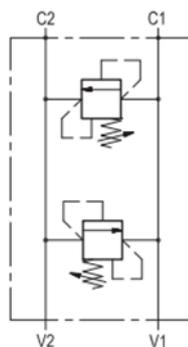
### FEATURES

- | Zinc plated steel body
- | Hardened and ground steel internal parts

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Rated flow: up to 40 l/min (10 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Ambient temperature range -30°C +60°C (-22°F +140°F)

### HYDRAULIC SCHEME



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T. +39 0522 347034

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# FPM D 25

## Direct acting, guided poppet style relief valve



### PRODUCT OVERVIEW

The direct acting guided poppet type relief valve is designed to control fluid flow and pressure in hydraulic systems.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

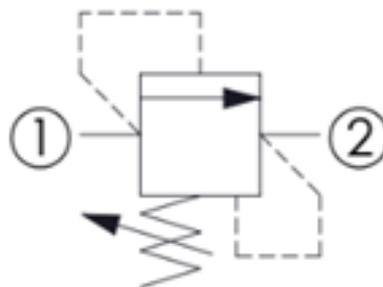
### FEATURES

- | Zinc plated steel body
- | Hardened and ground steel internal parts

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Rated flow: up to 40 l/min (10 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Ambient temperature range -30°C +60°C (-22°F +140°F)
- | Cavity: 23081

### HYDRAULIC SCHEME



# FPOFB 25 CM

## Overcenter cartridge, relief compensated



### PRODUCT OVERVIEW

Overcenter cartridge relief compensated valves are hydraulic components designed to control actuator movement, particularly under load. These valves allow for smooth and controlled lowering of loads, preventing sudden drops and enhancing safety.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

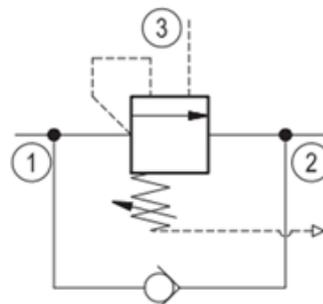
### FEATURES

- | Load holding
- | Controlled lowering
- | Pressure regulation
- | Pilot operated
- | Safety mechanism
- | Zinc plated steel body
- | Internal hardened and ground steel parts

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Rated flow: up to 25 l/min (6,6 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Ambient temperature range -30°C +60°C (-22°F +140°F)
- | Cavity: 32205—metric cavity

### HYDRAULIC SCHEME



# FPOFB 60 C

## Overcenter cartridge, vented



### PRODUCT OVERVIEW

Vented overcenter valves are hydraulic components designed to control actuator movement, particularly under load. These valves allow for smooth and controlled lowering of loads, preventing sudden drops and enhancing safety.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

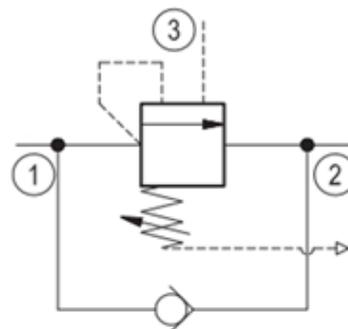
### FEATURES

- | Load holding
- | Controlled lowering
- | Pressure regulation
- | Pilot operated
- | Safety mechanism
- | Zinc plated steel body
- | Internal hardened and ground steel parts

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Rated flow: up to 60 l/min (15 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Ambient temperature range -30°C +60°C (-22°F +140°F)
- | Cavity: SAE – 10

### HYDRAULIC SCHEME



# FPRPU D 30 CB P 3/8 20

## Pressure reducing and relieving, direct acting spool type



### PRODUCT OVERVIEW

A pressure reducing valve with free reverse flow allows fluid to flow freely in both directions while maintaining a set lower pressure in one direction. This design is useful in hydraulic systems where pressure needs to be controlled without blocking return flow.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

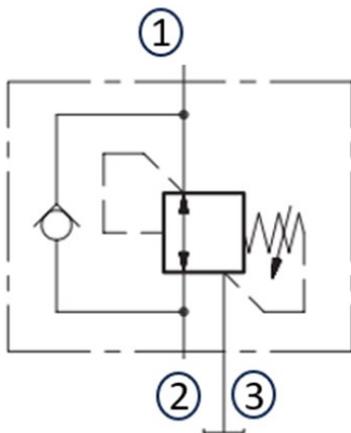
### FEATURES

- | Excellent stability throughout pressure range with rapid response to dynamic pressure changes
- | Control Hardened precision parts
- | Adjustable by allen key or hand screw

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 250 bar (3600 psi)
- | Max. setting pressure: 150 bar (2100 psi)
- | Rated flow: up to 30 l/min (8 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less

### HYDRAULIC SCHEME



Fluid-Press S.r.l.

Via A. Varisco 2/4/6  
42020 Albinea (RE) Italy

T. +39 0522 347034

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# FPO 50 D 1/2 L 35

## Dual Overcenter valve, load sensitive



### PRODUCT OVERVIEW

Overcenter valves are intended for load control. The check valve allows free flow from V to C, while a piloted direct-acting relief valve controls flow from port C to port V.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

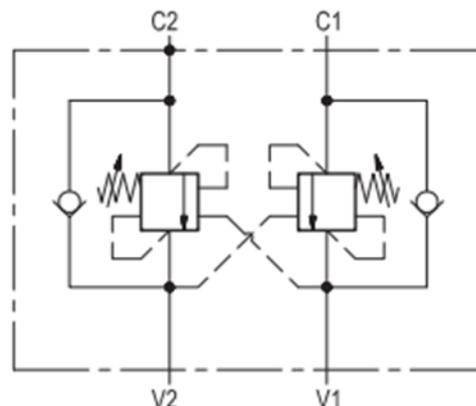
### FEATURES

- | Controlled descent of the load which does not escape dragged by its own weight, as the valve does not allow any cavitation of the actuator
- | Free upstream flow through the check valve for load lifting
- | Locking of reverse downstream flow when the directional valve is not operated, or the pump is stopped
- | Pressure relief (with open center directional spools) for pressure surges in the actuator caused by the inertia of the load, by oil expansion due to heating, or by external forces
- | Hardened, precision ground parts for durability

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Pilot ratio: 1:4 (upon request 1:8, 1:11)
- | Rated flow: up to 35 l/min (9 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Manifold material: zinc plated steel

### HYDRAULIC SCHEME



# FPEXC 250 S 3/4 1F

## Check and Metering valve



### PRODUCT OVERVIEW

Check and metering valves controls the flow of fluid particularly in earth moving machines. Allow control of load lowering and ensure safety in the event of a hose rupture under all conditions of machine operation. They include mechanism for remote control and pressure relief to manage overload conditions.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

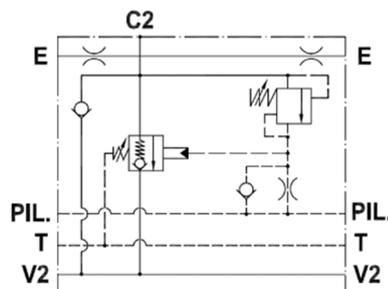
### FEATURES

- | Controlled descent of the load which does not escape dragged by its own weight, as the valve does not allow any cavitation of the actuator
- | Free upstream flow through the check valve for load lifting
- | Locking of reverse downstream flow when the directional valve is not operated, or the pump is stopped
- | Pressure relief (with open center directional spools) for pressure surges in the actuator caused by the inertia of the load, by oil expansion due to heating, or by external forces
- | Hardened, precision ground parts for durability

### TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 420 bar (6000 psi)
- | Rated flow: up to 250 l/min (66 gpm)
- | Oil temperature: -20°C +100°C (-4°F +212°F)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Manifold material: zinc plated steel

### HYDRAULIC SCHEME



# FPSQB D 30 C NA 08

Directional spool type, direct acting,  
external pilot and vent



## PRODUCT OVERVIEW

These valves operate without reliance on additional mechanism, providing quick response times when actuated by pilot pressure. External venting helps to relieve pressure and prevent fluid trapping, enhancing system efficiency.

Applications include: agriculture&forestry, construction, material handling, industrial and mining.

## FEATURES

- | Industry common cavity
- | Bi-directional flow
- | Precise control
- | Energy efficient - reduced use of energy to activate the valve decrease heat generation, which can contribute to materials fatigue

## TECHNICAL SPECIFICATIONS

- | Max. operating pressure: 350 bar (5000 psi)
- | Rated flow: up to 30 l/min (8 gpm)
- | Oil temperature: -20°C +80°C (-4°F +170°C)
- | Recommended filtration : nominal max. 10µ, ISO 4406-19/17/14 (NAS8) or less
- | Ambient temperature range -30°C +60°C (-22°F +140°F)

## HYDRAULIC SCHEME

