FLUID-APP
HYDRAULICS

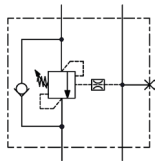
CPG CONSULTING (PTY)LTD
THE SOLUTION TO YOUR PROBLEM

BSPP
overview

JANUARY 2025

SINGLE COUNTERBALANCE VALVES.

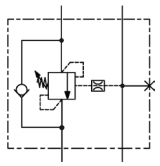
The single counterbalance valves allow to keep a load locked, the built-in relief valve protects the system from overpressure in the cylinder by sending the oil to drain.



BSA

Single counterbalance valves for open center, also with stainless steel body

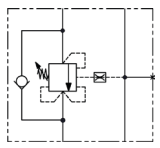
PDF



BSAY

Single counterbalance valves for open center

PDF



BSCY

Single counterbalance valves for closed center

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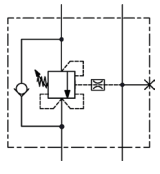

BSC

Single counterbalance valves for closed center

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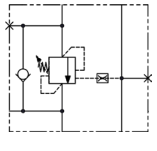

BSI

Single counterbalance valves for open center - flanged version

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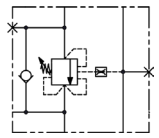

BSL

Single counterbalance valves for closed center - flanged version

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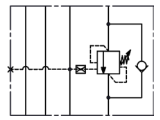
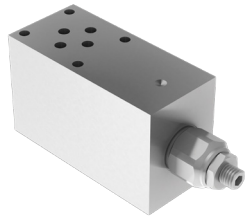
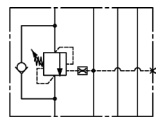


BCG

Single counterbalance valves - CETOP3 (A) for open center

PDF





BCE

Single counterbalance valves - CETOP3 (B) for open center

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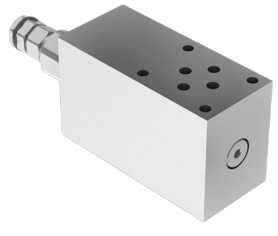
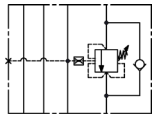
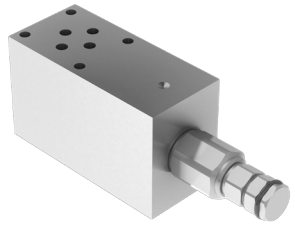


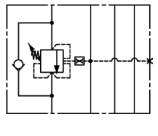


BCH

Single counterbalance valves - CETOP3 (A) for closed center

PDF





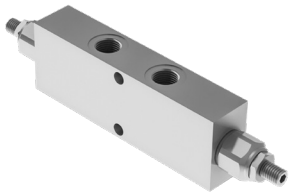
BCF

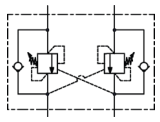
Single counterbalance valves - CETOP3 (B) for closed center

PDF

DOUBLE COUNTERBALANCE VALVES.

The double counterbalance valves allow to keep a load locked, the built-in relief valve protects the system from overpressure in the cylinder by draining the oil.

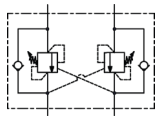




BDA

Double counterbalance valves for open center, also with stainless steel body

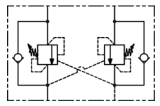
PDF



BDAY

Double counterbalance valves for open center

PDF



BDD

Double counterbalance valves for open center

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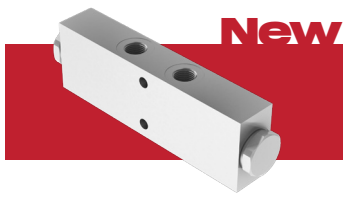
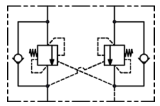
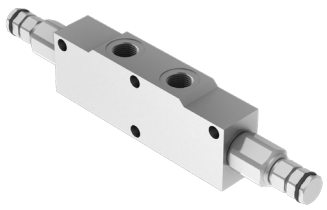


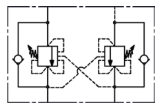


BDE

Double counterbalance valves fixed setting for open center

PDF

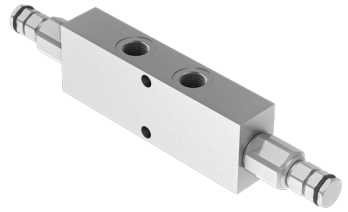


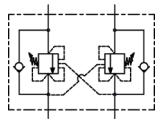


BDCY

Double counterbalance valves for closed center

PDF

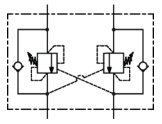




BDC

Double counterbalance valves for closed center

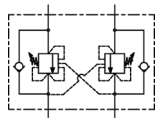
PDF



BFA

Double counterbalance valves for open center - flanged version

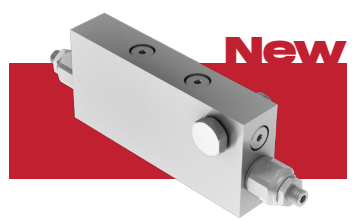
PDF

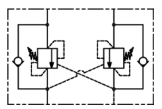


BFC

Double counterbalance valves for closed center - flanged version

PDF

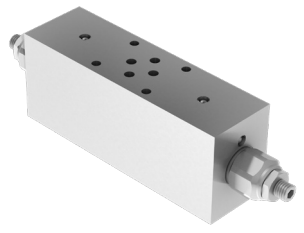


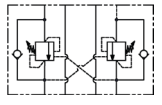


BDB

Double acting counterbalance valves for open center - bolt fitting

PDF





BCA

Double counterbalance valves - CETOP3 for open center

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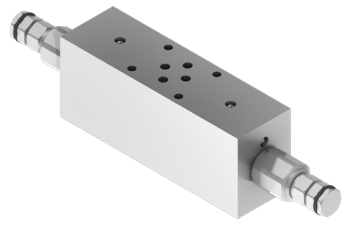
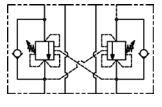




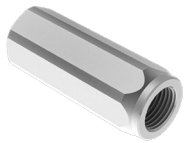
BCC

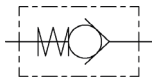
Double counterbalance valves - CETOP3 for closed center

PDF

CHECK VALVES.

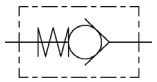
The check valves allow the full flow of oil in one direction and stop the flow in the opposite direction. The applications where these valves can be used are many, agricultural machinery or industrial installations.





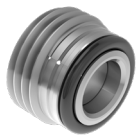
UFC
Check valves

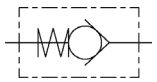
PDF



UMC
Check valves

PDF



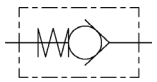


VUC
Poppet check valves

PDF

VUD
Poppet check valves

PDF

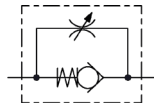


VUS
Ball check valves

PDF

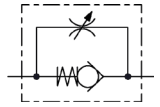
UNIDIRECTIONAL FLOW CONTROL VALVES.

The unidirectional flow control valves allow the free passage of the oil in one direction and regulate it in the opposite direction.



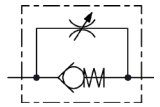
SUA
Unidirectional flow control valves

PDF



SUD
Unidirectional flow control valves

PDF

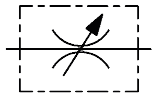


VCU
Unidirectional flow control valves

PDF

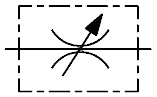
BIDIRECTIONAL
FLOW CONTROL
VALVES.

The bidirectional flow control valves regulate the speed of an actuator in both directions.



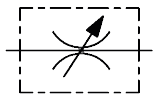
SBA
Bidirectional flow control valves

PDF



SBD
Bidirectional flow control valves

PDF

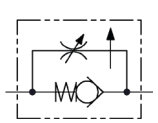


VCB
Bidirectional flow control valves

PDF

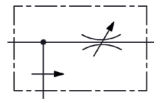
FLOW CONTROL
VALVES PRESSURE COMPENSATED.

Flow control valves pressure compensated allow the free passage of oil in one direction and regulates the flow in the opposite direction. The internal compensation system keeps the actuator speed constant, regardless of the load, and guarantees high adjustment sensitivity.



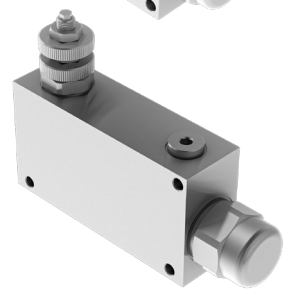
CFR
Fow control valves - pressure compensated

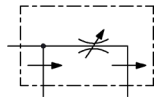
PDF



RCT
3 ways flow control valves - pressure compensated with exceeding flow to tank

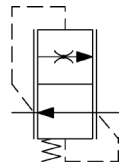
PDF





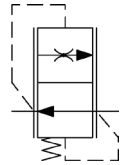
RCP
3 ways flow control valves - pressure compensated with exceeding flow to pressure

PDF



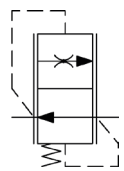
F1B
1/4 BSPP flow control valves - pressure compensated

PDF



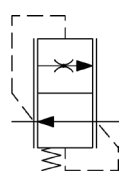
F1T
1/4 BSPP flow control valves - pressure compensated - double srew driver cut

PDF



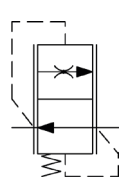
F1E
1/4 BSPP flow control valves - pressure compensated

PDF



F1C
D. 12.7 flow control valves - pressure compensated

PDF

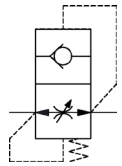


F2B
3/8 BSPP flow control valves - pressure compensated

PDF

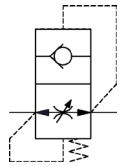
HOSE BURST.

The hose burst valves are mounted directly on the cylinder to avoid an uncontrolled descent of the load in the event of a hose break.



VBA
Hose burst valves

PDF

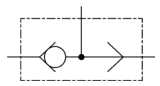


VBAT
Hose burst valves

PDF

SHUTTLE VALVES.

VSS shuttle valves are used when two pressure lines converge in the valve at the same time (the lower pressure line locks).

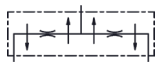


VSS
Shuttle valves

PDF

FLOW DIVIDERS.

Flow dividers/unifiers allow the inlet flow to be divided into two equal parts, while in the opposite direction they unify it.

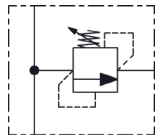


VDF
Flow dividers

PDF

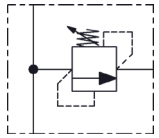
RELIEF VALVES WITH MANIFOLD.

The purpose of the pressure relief valves is to protect the hydraulic system from malfunctions or failures caused by excessively high pressures in the circuit.



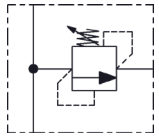
M20B
Relief valves 30 l/min

PDF



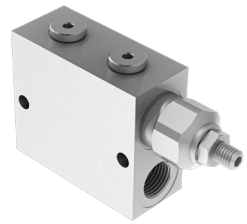
M40B
Relief valves 50 l/min

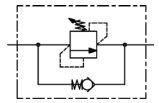
PDF



M80B
Relief valves 80 l/min

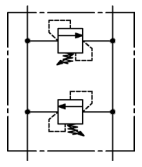
PDF





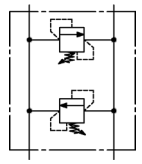
VSD
Sequence valves

PDF



VAA
Double cross relief valves 50 l

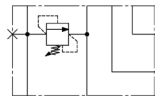
PDF



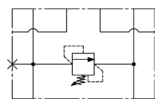
VAD
Double cross relief valves for engines OMR-OMP 50 l

CETOP VALVES.

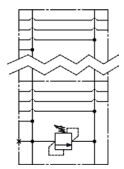
The Cetop valves allow the assembly of a single CETOP solenoid valve, they are supplied with a relief valve.



MC3
CETOP3



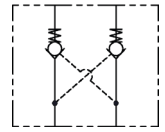
MC5
CETOP5



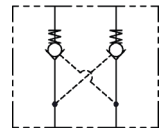
MM WITH RELIEF VALVE
CETOP3

DOUBLE PILOT CHECK VALVES.

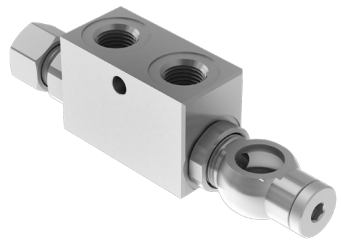
The double pilot check valves are used to lock a double acting actuator in place in both directions, ensuring the load is locked.

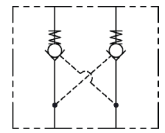


VBD
Double acting pilot check valves

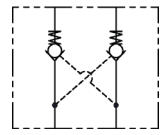


VBDT
DIN2353 Double acting pilot check valves

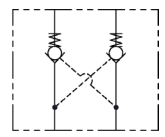




VBDG
DIN2353 Double acting pilot check valves - with adjustable banjo



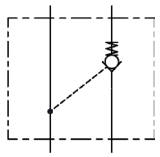
VPD
Double acting pilot check valves



VPF
Double acting pilot check valves - flanged version

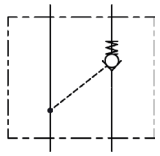
SINGLE PILOT CHECK VALVES.

The single pilot check valves are used to lock a single acting cilinder, ensuring the load is locked.



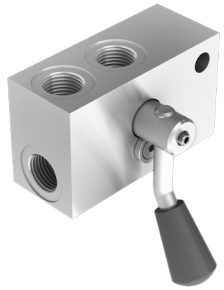
VBS

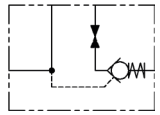
Single acting pilot check valves



VBST

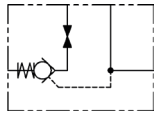
DIN2353 Single acting pilot check valves





VSP RIGHT

Single acting pilot check valves with manual shut-off

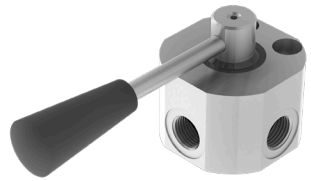


VSP LEFT

Single acting pilot check valves with manual shut-off

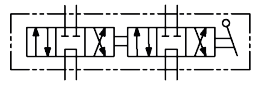
HIGH PRESSURE FLOW DIVERTERS.

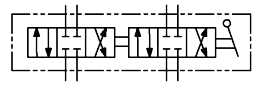
The high pressure flow diverters are used when the oil flow must be reversed.



D3H

High pressure 3-way flow diverters



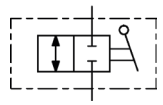


D6H

High pressure 6-way flow diverters

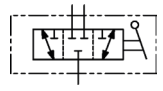
BALL VALVES.

The high pressure ball valves are used when you have to open or close an oil flow.



GE2

2 ways high pressure ball valves

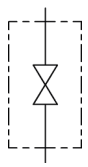


GE3

3 ways high pressure ball valves

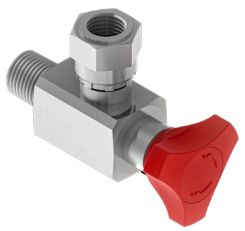
SHUT–OFF VALVES.

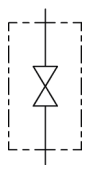
Shut-off in line valves are normally used to protect the pressure gauge.



RL
In line shut-off valves

PDF



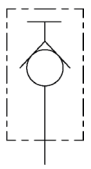


RT
In line shut-off valves

PDF

TEST COUPLINGS.

Test couplings are used to manually check the pressure inside a system.



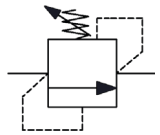
MPP
Test couplings for pressure checking

PDF

notes

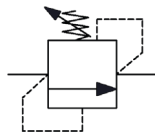
RELIEF VALVES.

The purpose of pressure relief valves is to protect the hydraulic system from malfunctions or failures caused by excessively high pressures in the circuit.



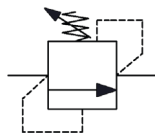
M20

SAE8/2 Direct acting relief valves - non guided version



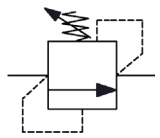
M22

SAE8/2 Direct acting relief valves - guided version



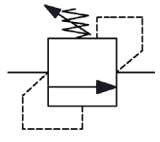
M30

M20x1,5 Direct acting relief valves - guided version



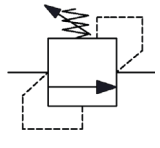
M40

M20x1,5 Direct acting relief valves - guided version



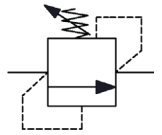
M42

SAE10/2 Direct acting relief valves - guided version



M80

M24x1,5 Direct acting relief valves - guided version



M161

M32x1,5 Direct acting relief valves

CARTRIDGE VALVES.

UC2

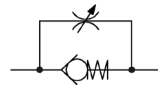
SAE8/2 Check valves poppet type.

The UC2 cartridge check valve allows free oil flow in one direction and blocks it in the opposite direction.

UC3

SAE10/2 Check valves poppet type.

The UC3 cartridge check valve allows free oil flow in one direction and blocks it in the opposite direction.



CU2

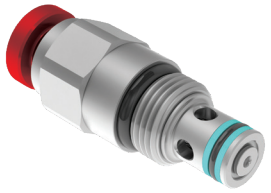
SAE8/2 Unidirectional flow control valves.

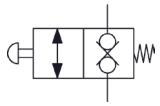
The one-way flow control valves allow regulation in one direction and free passage in the opposite direction.

CB2

SAE8/2 Bidirectional flow control valves.

Bidirectional flow control valves, allow flow regulation in both directions.





VM2

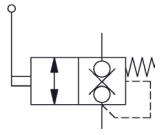
SAE8/2 Emergency valves.

The bidirectional valves, with direct action VM2 normally closed 2 ways 2 positions, allow manual intervention, the opening is obtained by manually pushing the rear button, removing the hand automatically the valve closes.

PM2

SAE8/2 Hand pumps.

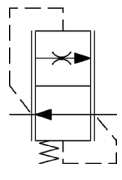
PM2 hand pumps are made in SAE8/2 cavities, often mounted as emergency on mini power packs or mounted on integrated blocks.



VC2

SAE8/2 Double seal direct acting manually operated valves.

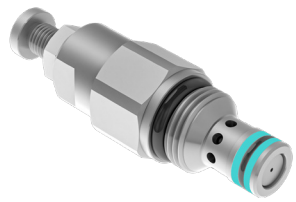
The VC2 manually operated valves are made in SAE8/2 cavities and operated manually by means of a lever.

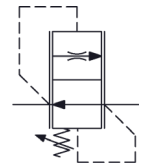


DC2

SAE8/2 Fixed flow control valves - pressure compensated.

Compensated flow control valve, allows the free passage of oil in one direction and regulates the flow in the opposite direction. The internal compensation system keeps the actuator speed constant, regardless of the load.

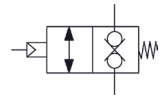




DR2

SAE8/2 Adjustable flow control valves - pressure compensated.

Adjustable compensated flow control valve, used to keep the speed constant, regardless of the working pressure.



VP2

SAE8/2 Peumatic operated valves.

2-way/2-position pneumatic control valve, made in SAE8/2 cavity with pilot pressure 4/15 bar.

VBC

M22x1,5 Single acting pilot check valves.

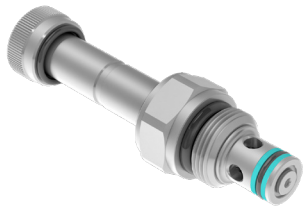
The single action pilot check valves are used to lock a single acting actuator in position, ensuring the blocking of the load.

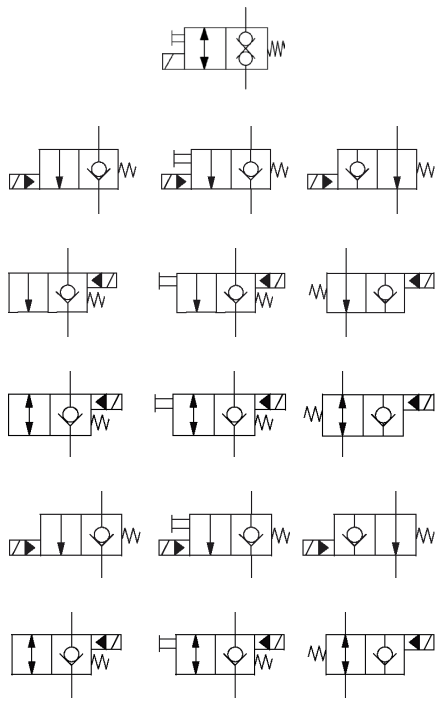
VDF3

SAE10/4 Flow dividers.

The flow divider/combiner valves guarantee the division of the flow into two equal parts or the reunification in the opposite direction.

SAE8/2
SOLENOID
VALVES.
Solenoid valves 2 ways 2 positions.





E2F28

E2S20

E2L20

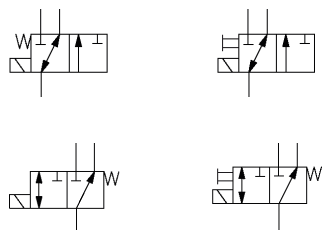
E2S22

E2S24

E2S26

E2S28

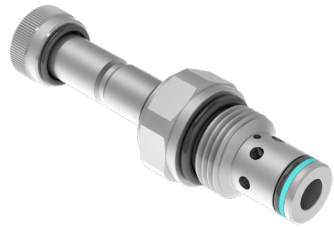
SAE8/3
SOLENOID
VALVES.
Solenoid valves 3 ways 2 positions.

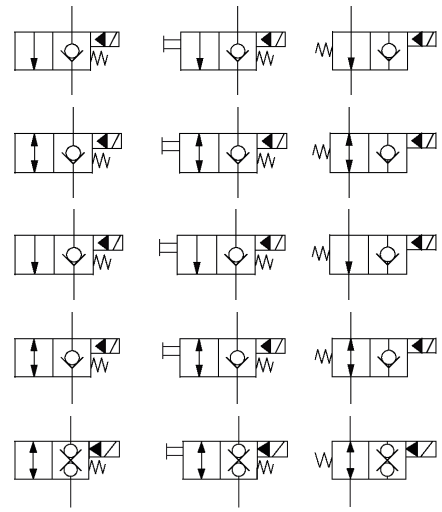


E6S30

E6S31

SAE10/2
SOLENOID
VALVES.
Solenoid valves 2 ways 2 positions.





E3S20

E3S22

E3S24

E3S26

E3S28

C22
Coils

CNS
Connectors

Manifold SAE8/2

Manifold SAE10/2

Fluid-app is a player in the hydraulic valves and components market.

A Company with long experience in the field.
Its founders have been working for almost twenty years in the production of hydraulic components **made in Italy** to always offer the best in terms of **quality, reliability and on-time delivery**.

Years and years of consolidated technical and production experience at the service of the customer, also to study and customise products in synergy.

In its plant in Reggio Emilia, in the heart of the Italian hydraulics territory, Fluid-app designs and manufactures a wide range of hydraulic valves and components for many applications: from the agricultural to the earth-moving sector, from building to ecology, from transport to industrial vehicles.

Fluid-App. the value of experience!

Aderente a Unindustria Reggio Emilia

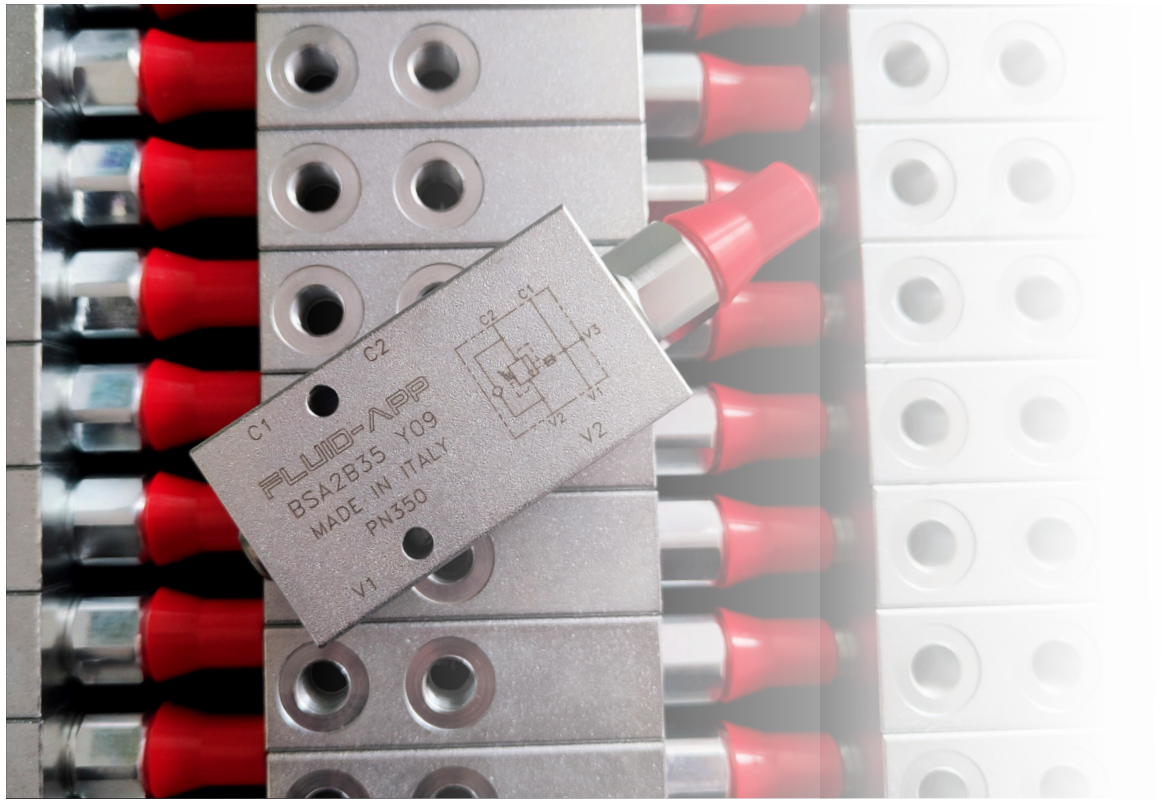
UNINDUSTRIA Reggio Emilia is the territorial association of the Confindustria system.

assofluid

ASSOFLUID Italian Association of Manufacturers and Operators in the Hydraulics and Pneumatics Sector.

FEDERTEC

FEDERTEC is the federation that represents the entire chain of the Italian industry of Components and Mechatronic Technologies for Fluid Power, Power Transmission, Control and Intelligent Automation of Products and Industrial Processes.



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