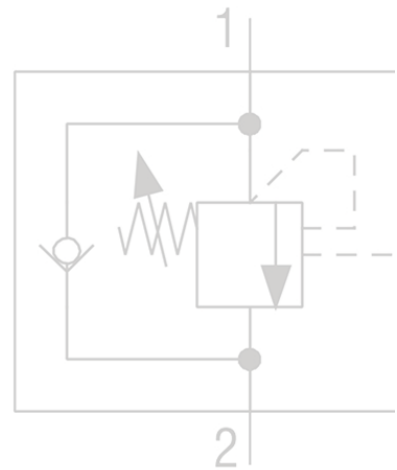


MOTION CONTROL

Overcentre (Counterbalance) Valves



Load Holding * Load Control * Load Safety

We produce fluid power **solutions**

Overcentre Valves are used mainly for the following purposes:

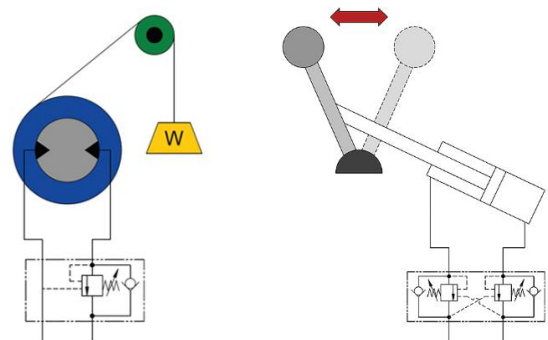
- Load Holding** prevents the movement of a load when the directional valve is in the neutral position
- Load Control** prevents the actuator running ahead of the pump due to the load-induced energy
- Load Safety** prevents uncontrolled movement of the load in case of failure

Application Example

Controlling of Negative Load

The overcenter valve prevents the actuator running ahead of the pump due to the load-induced energy.

Thereby eliminating cavitation in the actuator and loss of control.



Advantages and Benefits of our Valves

leak free load holding

**leak free adjustment,
pressure setting with load applied**

Extraordinary Lifetime
up to 10 Mio cycles for nominal pressure

smoothness operation reaction

Extraordinary Features
80 lpm (20 GPM) and 420 bar (6,000 psi)

**dual seals as standard sealing,
no need for back up ring**

**interchangeable with pilot operated
check valves in the same cavity**

standard and full balanced valve

**optional surface protection for 520 hours
salt spray according ISO 9227 (ASTM B117)**

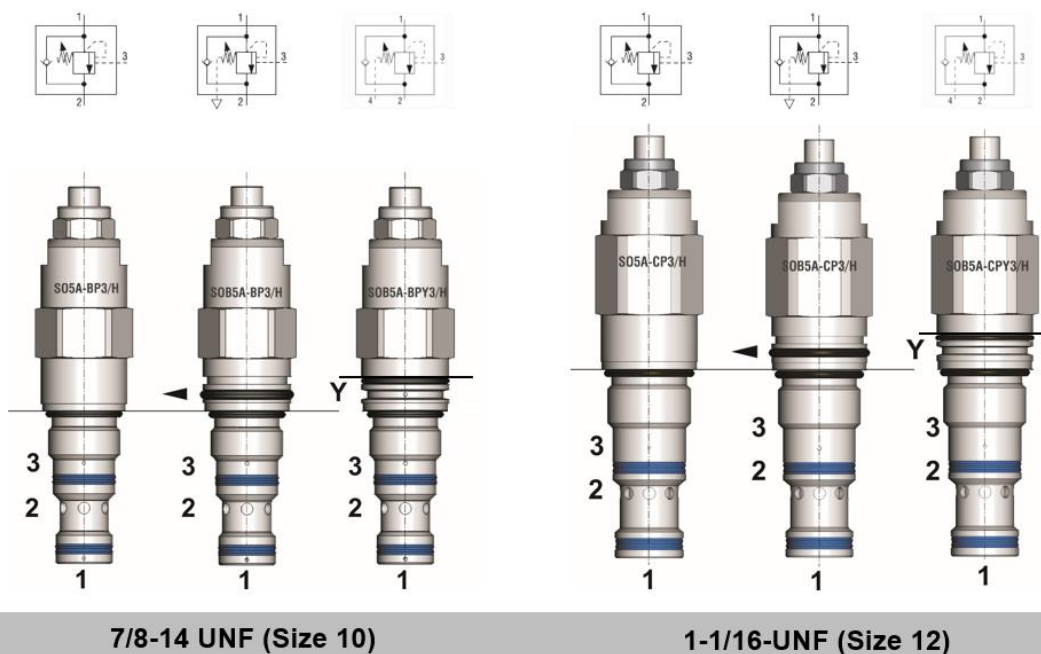
**robust valve design for
high dynamic applications**



Designed for Extraordinary Performance

Compared with other valves in the market the ARGO-HYTOS Overcentre Valve offers a lifetime of **10 Mio. cycles** at **420 (350) bar**.

Product Portfolio



7/8-14 UNF (Size 10)

1-1/16-UNF (Size 12)

SO(B)5A-BP3

40 l/min (11 GPM)
420 bar (6100 PSI)

SO(B)5A-CP3

80 l/min (21 GPM)
350 bar (5100 PSI)

Fully Balanced Valves

SOB5A & SOBD5A

used if a back pressure at the secondary port (backflow) is present
atmospheric ventilation or internal drain

- ✓ no influence on the pilot pressure
- ✓ independent pressure relief function
- ✓ can be used with closed centred valves

[Download the Data Sheets from our Website](#)

Please contact us for all your enquiries or a quotation:

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Next Newsletter in September ...

New Filter Element Generation
EXAPOR® MAX 3