


SSB




Engineering
GREAT Solutions

Trip Mode Device

SSB

The trip mode device SSB ensures that even if the central power supply fails, the related valve can fully open or close.

It is also used as a quick stroking device to achieve fast stroking speeds of the valve.

It can be directly mounted on the hydraulic actuator ASM-E or on the open rack Multi-Station Manifold (MSM).



Adjustable throttle for actuator speed adjustment

Key features

- > One 3/2-way solenoid valve with two releasable check valves
- > Can be mounted on ASM-E or open rack Multi-Station Manifold (MSM)
- > Adjustable throttle for actuator speed adjustment
- > Energise to activate or de-energise to activate options
- > Two sizes available
- > Designed for mineral oil and/or fire resistant hydraulic fluids
- > Hydraulic station accumulator or local accumulator for fail open or fail close function is possible
- > A local wall mounted accumulator will be exclusively be used for fail function

Benefits

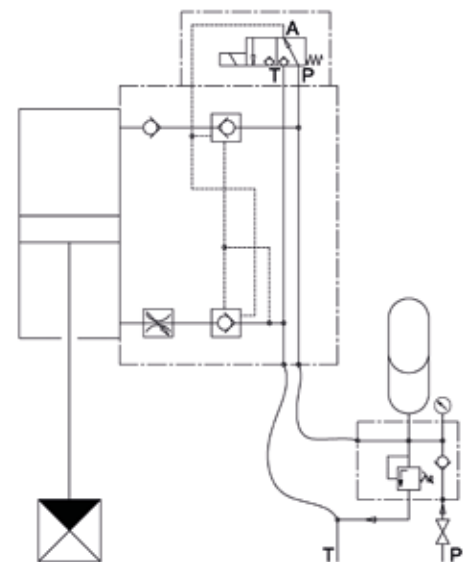
- > Designed for rugged operation
- > Compact design
- > 1 to 3 pieces directly mounted on the hydraulic actuator or MSM (Open Rack)
- > Fail safe function (open and/or close) available

Design

The SSB unit consists essentially of a 3/2-way solenoid valve and two releasable check valves, which, under normal operation, keeps the pressure line from the accumulator to the actuator and the return line to the tank closed. An essential part of SSB is also the adjustable throttle, which gives the possibility to adjust the stroke speed of the actuator freely. The SSB units can be supplied as “energize to activate” or “de-energize to activate”.

The compact design allows up to three (for redundancy) SBE either to be mounted on an actuator or sandwich mounted on an open rack Multi-Station Manifold (MSM) (only SBE 116), where more functions and valves can be combined.

Thanks to have only two connection sizes (“Small” and “Large”) the management of the stock & spare parts becomes clear, easy and more transparent.



Function

The trip mode device SSB provides a completely independent path to open or close the main valve even if no hydraulic power from the hydraulic power unit is available. The energy required for this operation is drawn from an optional additional hydraulic accumulator. An

optional local accumulator is kept continuously charged and will not be used during normal operation. IMI CCI recommends to locate the accumulator close to the actuator to have short connection pipes and therefore to allow fast stroking speeds..

Available sizes

There are two sizes available which can be used on all actuators of the ASM-E series. These elements are also compatible with the ASM actuator. In such cases, an adapter plate might be used (Contact IMI CCI Switzerland)

Type	Connection size	Max. flow
SSB 8	Small	80 l/min
SSB 16	Large	200 l/min

Product specification

Available system pressure

From 50 up to 160 bar

Applicable hydraulic fluids

Mineral oil DIN51524 (DIN ISO 6074)
Fire resistant HFD-R fluids (e.g. Fyrquel® EHC)
Fire resistant HFD-U fluids (e.g. Quintolubric® 888)

Max. fluid contamination

ISO 4406 17/16/13
NAS 1638 level 6
SAE class 3

Manifold material

Aluminium anodized

Sealing material

FKM (Viton)

MTTFd - Value

75 years

Ambient temperature

-10 to 80 °C

Fluid temperature range

15 to 70 °C

Protection class

IP 65

Electrical connector

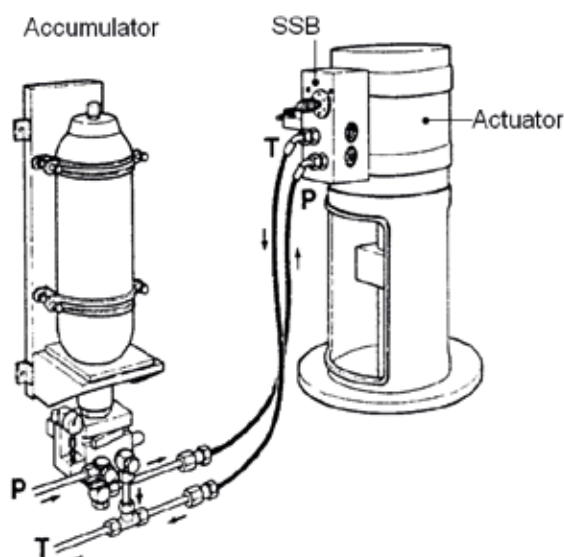
DIN EN 175301-803 Form A

3/2 way seat valve

Voltage rating 24 V DC
Voltage tolerance ±20%
Solenoid power 26 W
Duty ratio 100%
Life cycle 10⁷

Optional accumulator

Conformity CE
ASME U-Stamp
SELO (China)
Bladder material Nitril for mineral oil and HFD-U Fluids
Butyl for HFD-R fluids
Working temperature -15°C up to 80°C
Max. oil flow 900 l/min



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