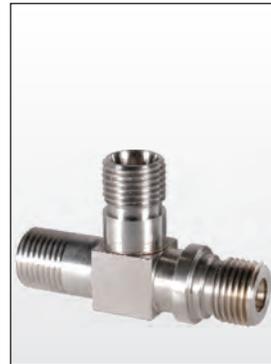




Insert



Manifold LRU



Line Mount

AUSCO Miniature Shuttle Valves offer a cost effective, compact, light weight solution for fluid control systems. Spring Biased and Detented Shuttle Valves offered in a range of sizes and multiple configuration options to meet both manifold installation and line mount requirements.

Construction:

- Compact Insert or Cartridge Designs Fit into Head of Actuators
- Non Interflow Designs - All three ports never open simultaneously
- Zero Leak, or Low Leakage Hard Seat Designs
- Self Locking Insert, Manifold LRU and Line Mount Designs
- Integral screens on smaller designs as standard (optional on others)

Spring Biased Shuttle Valve designs allow for pressure-dependent flow from normally nose port (E) to center port C, once shuttling pressure is reached

- Ideal for providing "make-up" flow from rod end to head end of an unbalanced actuator
- Priority Selection Operation of actuator(s), such as braking systems

Detented Shuttle Valve designs latch into one of two positions, allowing flow from either nose/emergency (E) port (B) to center/cylinder port (C), or normal supply (A) to center port (C) - see diagram

- Ideal for emergency gas operation of hydraulic system function. Zero leak designs prevent gas from bleeding into hydraulic system
- Braking systems

Other Related Products Available:

Selective Shuttle Valves (Loose Ball type)

INSERT MINIATURE SHUTTLE VALVES

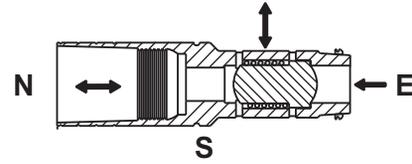
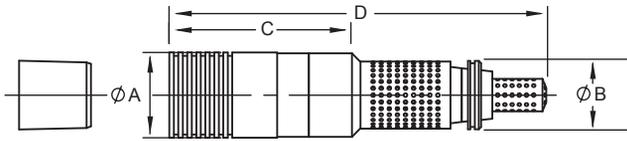
Below is detailed information pertaining to Shuttle Valves, both spring biased and ball detented design. Please contact the AUSCO Technical Center for other configuration information, or advanced performance designs. Consider our advanced combination valve designs for space and weight savings.

**LOCKING
PIN**

INSERT

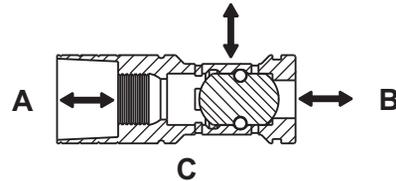
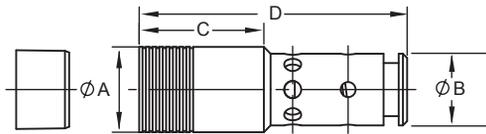
CONTACT AUSCO FOR INSTALLATION DRAWING

Spring Biased



281 / 500 DESIGNS

Ball Detented



281 / 500 DESIGNS

Spring Biased Shuttle Valve

DIMENSIONS (IN INCHES)				SHUTTLE PRESSURE (PSID)	NORMAL OPERATION (N to S; S to N)		SHUTTLED OPERATION (E to S)	
ØA	ØB (MAX)	C	D (MAX)		RATED FLOW (GPM)	ΔP MAX (PSID)	RATED FLOW (GPM)	ΔP MAX (PSID)
.187	0.150	0.41	0.84	15 - 40	0.22*	50	0.22*	50
.281	0.244	0.37	0.92	15 - 40	1.20 / 0.85*	50	1.20 / 0.85*	50
.500	0.421	0.74	1.59	15 - 40	4.40	50	4.40	50

Ball Detented Shuttle Valve

* Screened Designs

DIMENSIONS (IN INCHES)				SHUTTLE PRESSURE (PSID)	NORMAL OPERATION (N to S; S to N)		SHUTTLED OPERATION (E to S)	
ØA	ØB	C	D		RATED FLOW (GPM)	ΔP MAX (PSID)	RATED FLOW (GPM)	ΔP MAX (PSID)
.281	0.281	0.37	0.94	35	1.2	50	1.2	50
.500	0.050	0.74	1.36	35	5.1	50	5.1	50

NOTES:

1. FLUID: ALL TYPES OF FLUIDS
2. PERFORMANCE: BASED ON MIL-PRF-83282 @ 80° F (27°C)
3. PRESSURES: OPERATING SEE TABLE
4. TEMPERATURE: -65°F (-54°C) TO +275°F (+135°C)

High pressure and temperature designs available

PART NOMENCLATURE:

