

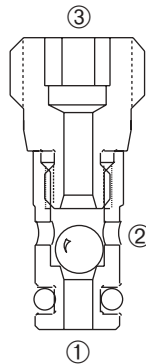
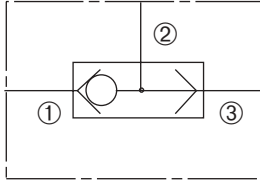
ZSH-43

Ball-Type
Shuttle Valve



ZERO PROFILE

USASI / ISO



DESCRIPTION

A cartridge valve designed to direct flow from either of the two inlet ports to a common outlet port.

OPERATION

The ZSH-43 allows the check ball to move away from inlet port ① or ③ with the greatest differential pressure and seat against the other inlet port having the least differential pressure. This provides a flow path to outlet port ②.

FEATURES and BENEFITS

- Excellent response to pressure changes.
- Chrome alloy ball for long life.
- Low leakage.
- Compact size.

SPECIFICATIONS

Operating Pressure: 4000 PSI (276 Bar)

Flow: See PRESSURE DROP VS. FLOW graph.

Internal Leakage: 2 drops/min. max. at 3000 PSI (207 Bar)

Temperature: -30°F to +250°F (-35°C to +120°C)

Recommended Filtration: Critical Application – ISO 16/12

Non-Critical Application – ISO 19/15

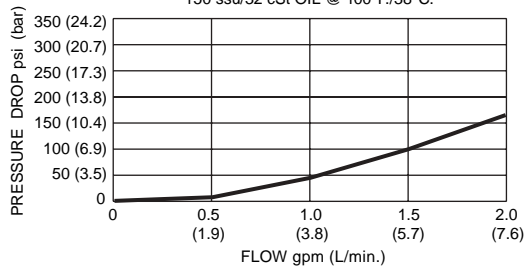
Fluids: Mineral-based fluids. For other fluid compatibility, consult factory.

Cavity/Cavity Tool: ZP43, see page 11.04.3

Body Material: Anodized 6061T6 aluminum alloy rated at 3000 PSI (207 Bar).

PRESSURE DROP VS. FLOW

③ TO ② & ① TO ② AVERAGE
150 ssu/32 cSt OIL @ 100°F/38°C.



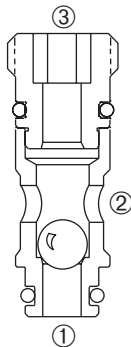
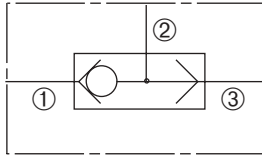
ZSHB-63

Ball-Type
Shuttle Valve



ZERO PROFILE

USASI / ISO



DESCRIPTION

A cartridge valve designed to direct flow from either of the two inlet ports to a common outlet port.

OPERATION

The ZSHB-63 allows the check ball to move away from inlet port ① or ③ with the greatest differential pressure and seat against the other inlet port having the least differential pressure. This provides a flow path to outlet port ②.

FEATURES and BENEFITS

- Excellent response to pressure changes.
- Chrome alloy ball for long life.
- Compact size.

SPECIFICATIONS

Operating Pressure: 3000 PSI (207 Bar)

Flow: See PRESSURE DROP VS. FLOW graph.

Internal Leakage: 5 drops/min. max. at 3000 PSI (207 Bar)

Temperature: -30°F to +250°F (-35°C to +120°C)

Recommended Filtration: Critical Application – ISO 16/12

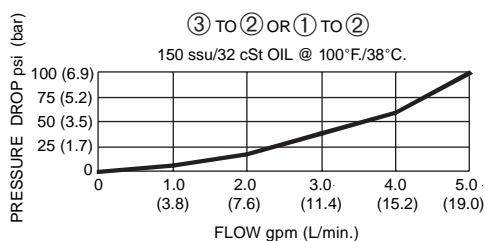
Non-Critical Application – ISO 19/15

Fluids: Mineral-based fluids. For other fluid compatibility, consult factory.

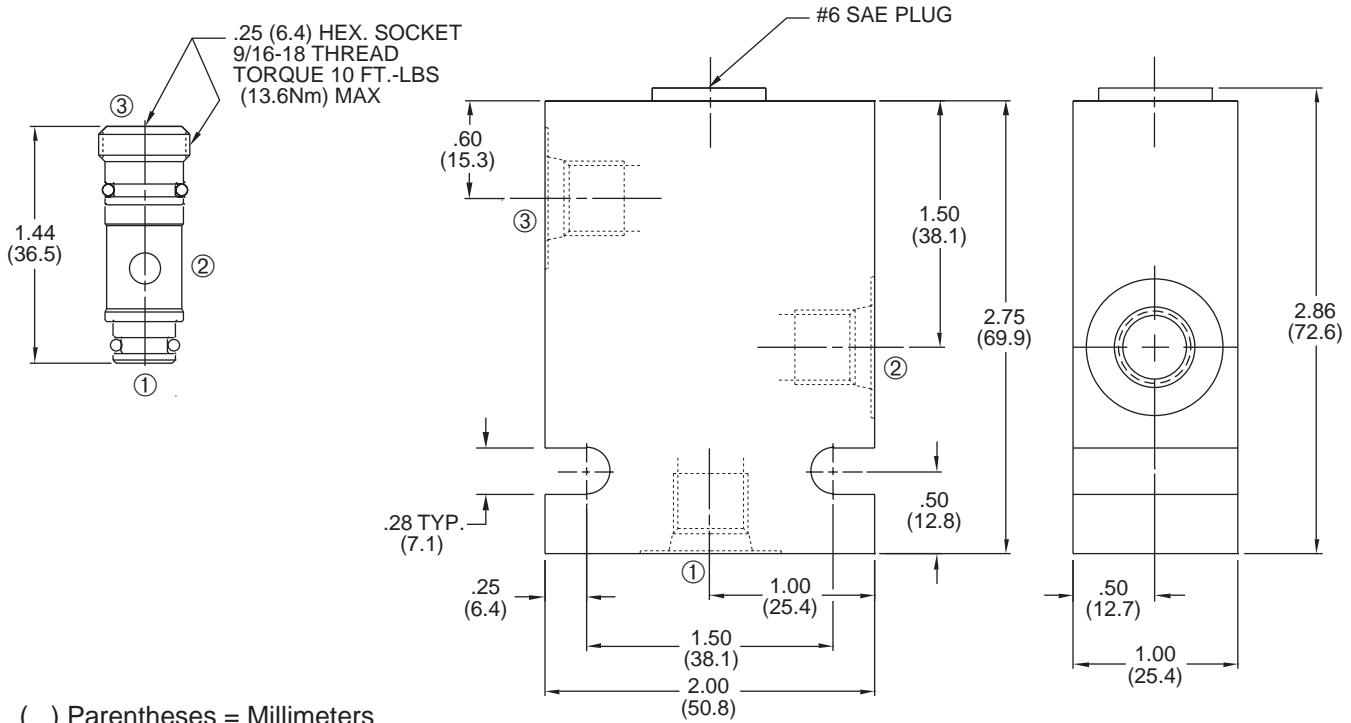
Cavity/Cavity Tool: ZP63, see page 11.06.3

Body Material: Anodized 6061T6 aluminum alloy rated at 3000 PSI (207 Bar).

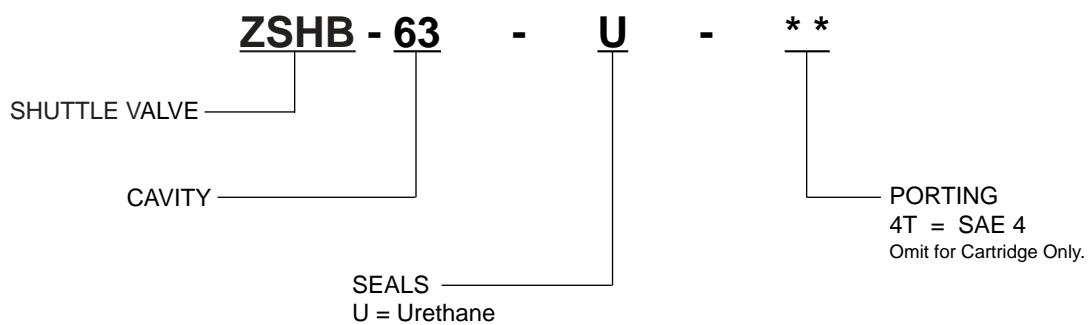
PRESSURE DROP VS. FLOW



INSTALLATION DIMENSIONS



HOW TO ORDER



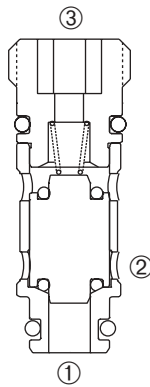
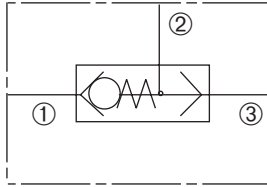
SOLENOID
 CHECK
 MOTION CONTROL
 FLOW CONTROL
 RELIEF
 PRESSURE CONTROL
 SEQUENCE
SHUTTLE
 DIRECTIONAL VALVES
 ACCESSORIES
 TECHNICAL DATA

ZSH2-63

Zero Leak, Spring-Bias
Shuttle Valve

ZERO PROFILE

USASI / ISO



DESCRIPTION

A cartridge valve designed to direct flow from either of the two inlet ports to a common outlet port.

OPERATION

The ZSH2-63 allows the spring-bias poppet to move away from inlet port ① (biased closed) or ③ with the greatest differential pressure and seat against the other inlet port having the least differential pressure. This provides a flow path to outlet port ②.

FEATURES and BENEFITS

- Excellent response to pressure changes.
- Zero leak.
- Compact size.

SPECIFICATIONS

Operating Pressure: 1500 PSI (103 Bar)

Flow: See PRESSURE DROP VS. FLOW graph.

Internal Leakage: 0 drops/min. max. at 1500 PSI (103 Bar)

Temperature: -30°F to +250°F (-35°C to +120°C)

Recommended Filtration: Critical Application – ISO 16/12

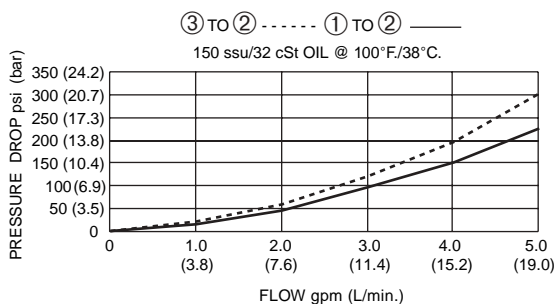
Non-Critical Application – ISO 19/15

Fluids: Mineral-based fluids. For other fluid compatibility, consult factory.

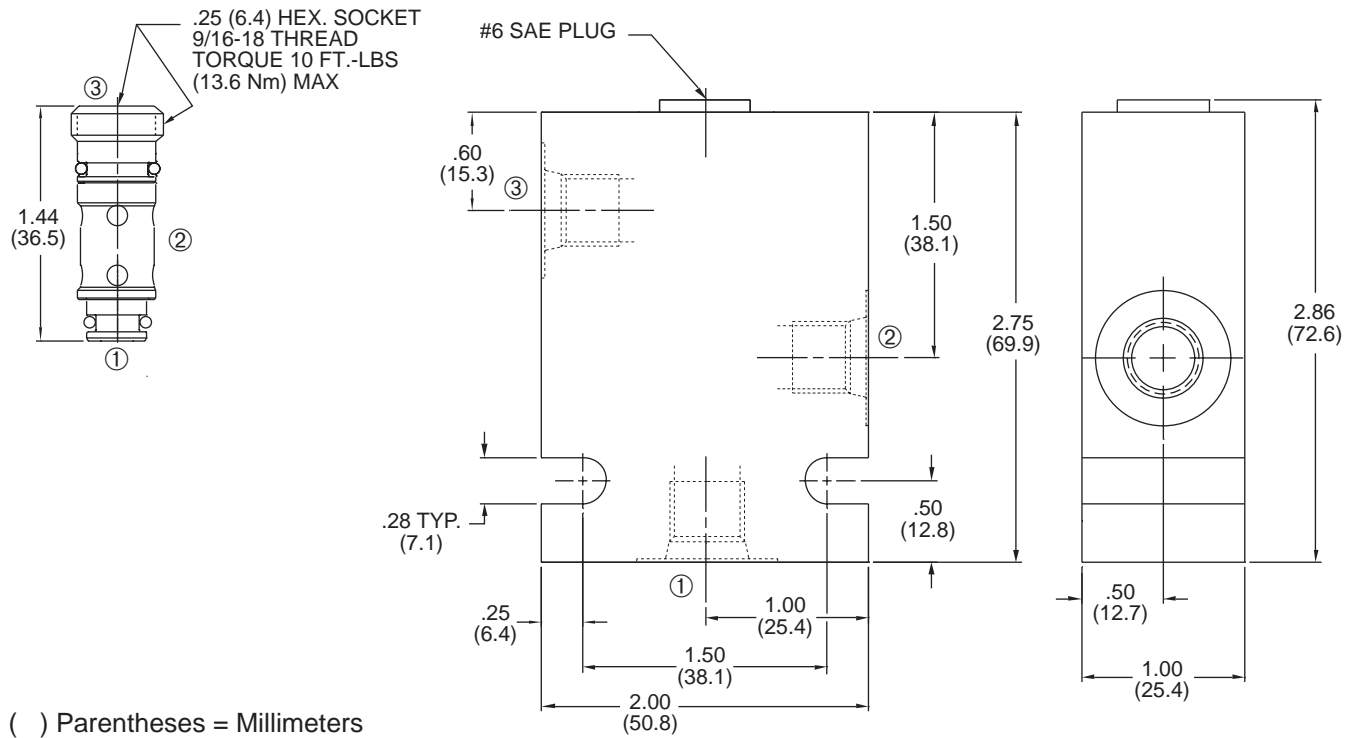
Cavity/Cavity Tool: ZP63, see page 11.06.3

Body Material: Anodized 6061T6 aluminum alloy rated at 3000 PSI (207 Bar).

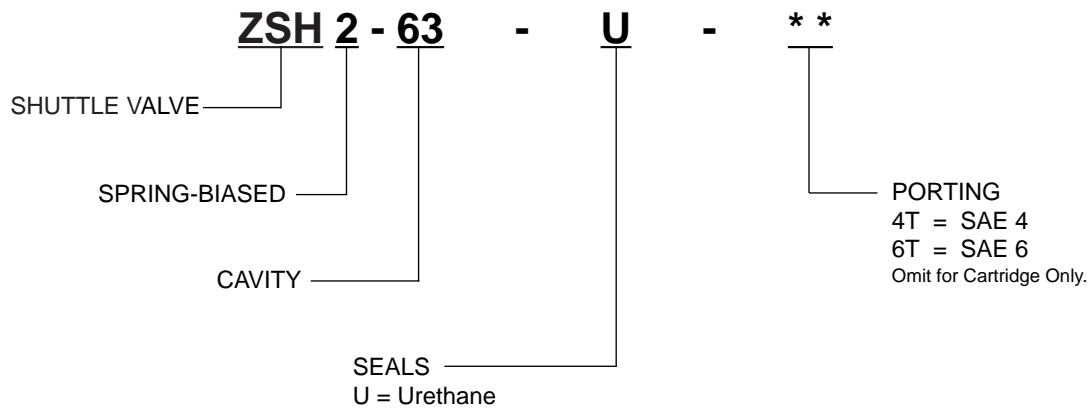
PRESSURE DROP VS. FLOW



INSTALLATION DIMENSIONS



HOW TO ORDER



SOLENOID

CHECK

MOTION CONTROL

FLOW CONTROL

RELIEF

PRESSURE CONTROL

SEQUENCE

SHUTTLE

DIRECTIONAL VALVES

ACCESSORIES

TECHNICAL DATA