IMPROPER VALVE PERFORMANCE

Symptoms

SKOFLO VALVE OUTPUT TOO HIGH

Causes

Causes	Solution
Adjustment stem setting above control range:	Adjust handle stem to achieve desired output.
Improper sizing of piston/orifice:	Install proper size piston orifice.
Damaged O-ring on seat holder:	Replace O-ring and backup ring on seat holder. Ensure there are no defects such as scratches, gouges or galling in seal area of the seat holder and body.
Damaged seat:	Install new seat holder.
Damaged Pin:	Install new pin.
Damaged cup-seal on piston:	Install new cup seal. Ensure sealing surfaces are free from defects such as scratches, gouges, or galling.

SKOFLO VALVE OUTPUT TOO LOW

Causes

Causes	Solution
Adjustment stem setting below control range:	Adjust handle stem to achieve desired output.
Improper sizing of piston orifice:	Install proper sized piston orifice.
Piston springs are not installed properly:	Ensure proper number, proper alignment, and correct thickness of springs.
Insufficient fluid supply to SkoFlo valve:	Ensure there is sufficient fluid supply from pump to satisfy all injection points.
Insufficient pressure on supply header:	Ensure supply header pressure is sufficient to satisfy all injection points.
Blockage in pump discharge filter	Ensure filter is clean and without blockage.
Blockage in SkoFlo valve:	Ensure there is no blockage in SkoFlo valve flow path.
Blockage in piston orifice:	Perform back-flush of piston orifice until fluid flows freely. Install new piston orifice.
Isolation valve between SkoFlo valve and injection point in closed position:	Slowly open injection point isolation valve.

FLUCTUATIONS IN SKOFLO VALVE OUTPUT FLOW RATE

Causes

Causes	Solution
Insufficient pressure on supply header:	Ensure supply header pressure is sufficient to satisfy all injection points.
Insufficient fluid supply to SkoFlo valve:	Ensure there is sufficient fluid supply from pump to satisfy all injection points.
Piston springs are not installed properly:	Ensure proper number, proper alignment, and correct thickness of springs.
Seat worn or damaged:	Install new seat holder.
Pin worn or damaged:	Install new seat pin.

NO FLUID OUTPUT FROM SKOFLO VALVE

Causes

Causes	Solution
No fluid output from pump:	Ensure pump filter or “Y” strainer is not plugged. Ensure pump suction isolation valve is not closed. Ensure pump discharge line is not blocked.
Pump discharge filter plugged:	Clean or replace filter.
Inlet isolation valve to SkoFlo valve in closed position:	Slowly open inlet isolation valve.
Injection point isolation valve in closed positon:	Slowly open injection point isolation valve.
Blockage in SkoFlo valve:	Ensure there is no blockage in SkoFlo valve flow path.
Blockage in piston orifice:	Perform back-flush of piston orifice until fluid flows freely. Install new piston orifice.
Piston springs are not installed properly:	Ensure proper number, proper alignment, and correct thickness of springs.
Insufficient fluid supply to SkoFlo valve:	Ensure there is sufficient fluid supply from pump to satisfy all injection points.
Insufficient pressure on supply header:	Ensure supply header pressure is sufficient to satisfy all injection points.
No system pressure in fluid supply header:	Ensure back pressure regulator is working properly. Ensure back pressure regulator is adjusted to proper setting.

FLUID LEAKS AROUND HANDLE STEM

Causes

Causes	Solution
Damage to ATM seal:	Replace ATM O-ring. Ensure there are no defects such as scratches, gouges, or galling the seal area of body. Ensure seat holder is free from defects in seal surface areas.