

# SKOFLO INDUSTRIES, INC.

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## SkoFlo CONTROL VALVE TROUBLESHOOTING GUIDE

<b>SYMPTOM</b>	<b>POSSIBLE CAUSE</b>	<b>Recommended Solution</b>
1.) SkoFlo valve output too high.	Adjustment stem setting is 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 Back-up ring on Seat Holder.
	Damaged Seat.	Install new Seat Holder.
	Damaged Pin.	Install new Pin.
	Fluid leaking past piston cup seal	Install new Piston Cup Seal.
2.) SkoFlo valve output too low.	Adjustment stem setting below control range.	Adjust handle stem to achieve desired output.
	Improper sizing of Piston / Orifice.	Install proper size 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.

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3.) Fluctuations in SkoFlo valve output flow rate.	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 Pin.
4.) No fluid output from SkoFlo valve.	Air migrating into chemical supply line.	Ensure that air can not enter chemical supply line.
	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.  Ensure pump check valves are working properly
	Pump discharge filter plugged.	Clean or replace filter.
	Inlet isolation valve to SkoFlo in closed position.	Slowly open inlet isolation valve.
	Injection point isolation valve in closed position.	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.
	No system pressure in fluid supply header.	Ensure Back Pressure Regulator is working properly.  Ensure Back Pressure Regulator is adjusted to proper setting.