

Installation, Operation and Maintenance Manual

AOP Series 41, 42, 43 & 44 Needle Valves

Installation

Install needle valves in piping system using proper size taper thread (NPT) connections with fluid and pressure compatible thread sealant. Wrench tighten for proper make-up to prevent leakage from joints.

Caution: Applies to Metal Seat Valves Only

Preferably, male x female valves should be installed with male end upstream. Female x female valves should be installed with the off-center orifice end upstream (valves have directional arrow on side of body). This orientation prevents line pressure from acting on stem seal when the valve is in closed position.

Operation

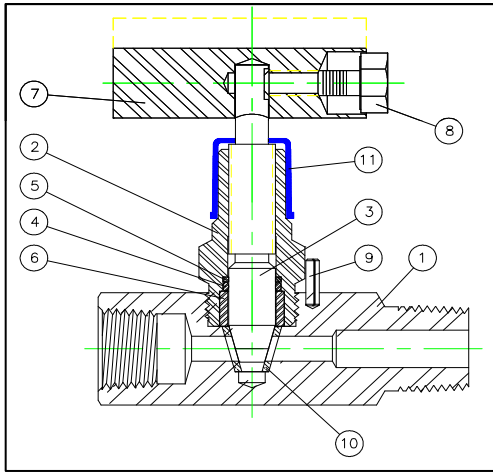
Rotate the T-bar handle to full clockwise position to close valve. Rotate handle counter-clockwise to open valve (approximately 3 turns for soft seat valve (blue boot) or 3-1/2 turns for metal seat valve (red boot)). AOP needle, angle and gauge valves may be used for throttling or on-off service.

Maintenance

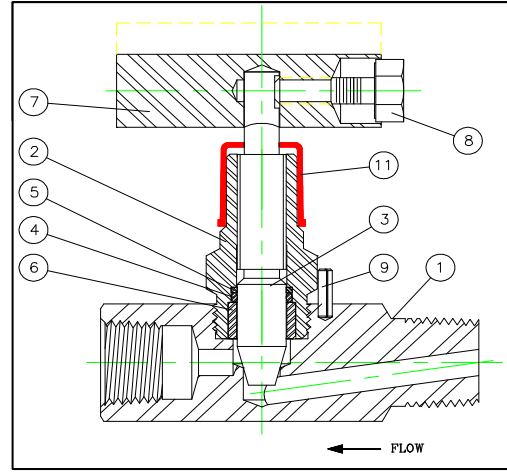
AOP Series 41, 42, 43 & 44 Valves are permanently lubricated during assembly and require no routine maintenance.



Description	Working Pressure	
	1/4 & 1/2	6000#



SOFT SEAT



METAL SEAT

Components

No.	Description	No.	Description	No.	Description
1	Body	5	Back-up ring	9	Locking Pin
2	Bonnet	6	Sleeve	10	Seat (Soft Seat Only)
3	Stem	7	Handle	11	Boot
4	Stem Seal	8	Cap Screw		

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