Automatic Shower limiting Valve
Installation and Service

Timing Instructions:
1) Loosen Allen set screw (NS-28) on side of knob (NS-3).
2) Pop-out plug-button (NS-29) with sharp pointed tool.
3) Insert thin blade screw driver in center hole of knob (NS-3) and into the slot of the push-rod (NS-4).
4) Turn knob (NS-3) clockwise while holding screw driver firmly. Turn until push-rod (NS-4) is 3/16” from top of knob (NS-3). This will give minimum time cycle. Replace plug-button (NS-29)
5) Tighten Allen set screw (NS-28). To increase time cycle, turn knob (NS-3) counter-clockwise in step 4.

Service:
- **NS-13R** - Washer & Gasket Repair Kit, includes piston unit, control rod sleeve, sleeve, retainer and all necessary washers and gaskets.
- **NS-1** - Complete Replacement Unit, includes the complete working unit of the valve assembled and tested

New installations, before turning on the water supply, remove cartridge, open stop and thoroughly flush supply line. Replace cartridge and turn on supply. If supply is not thoroughly flushed of dirt and foreign matter, the valve will not shut off.

Long idle periods - If the valve has a long idle period between installation and use, or is used seasonally, disassemble the cartridge unit and lightly lubricate all moving parts.

Parts Assembly  Showeroff Shower Limiting Valve, 4-420

NOTE: (1) 4-420 valve shown with 1/2" sweat connections
(2) Symmons Hydapipe® models with suffix 56 or 60 include the Symmons Showeroff valve shown above

Workflow:
- NS-32 STOP RETAINER
- NS-22 ESCUTCHEON SCREWS (2 REQ)
- NS-28 KNOB SET SCREW
- NS-29 KNOB PLUG BUTTON
- NS-3 KNOB
- 4-420-TRM ESCUTCHEON (4-420, 4-427, 4-428)
- NS-2 CAP
- NS-4 PUSH ROD WITH SNAP RING
- NS-5 GUIDE NUT
- NS-25 GUIDE NUT LARGE O-RING
- NS-27 CAP LARGE O-RING
- NS-24 GUIDE NUT SMALL O-RING
- NS-14 GUIDE NUT WASHER
- NS-26 CAP SMALL O-RING
- NS-12 RETAINER GASKET
- NS-7 RETAINER
- NS-9 WASHER SCREW
- NS-11 SHUT-OFF WASHER
- NS-15 PISTON O-RING
- NS-8 PISTON
- NS-13 PISTON SPRING
- NS-16 CONTROL ROD
- NS-6 CYLINDER
- NS-18 INTEGRAL STOP UNIT
- PS-4A ESCUTCHEON (4-427R & 4-428R)
- PS-4E THREADED ROD (4-427R & 4-428R)
- PS-4H HORSESHOE BRACKET (4-427R & 4-428R)