

Product Overview | 1447 Valve

The 1447 Pneumatic Cycle Valve isolates oil, water, or gas in industrial applications including air dryers, ovens, furnaces, autoclaves, food, and sterilization processes. They are high duty cycle on/off angled globe valves that are primarily used on StepFire™ and TwinBed II™ systems. Compressed air opens the valve and a spring returns the valve to the original closed position.

The "Y" pattern valve is operated by a linear piston actuator. When the valve is in the normally closed position, the pressure is against the valve seat, not the packing. The shaft seals are self-adjusting and protected by a wiper ring against fouling and damage. This ensures a tight seal even after long periods of operation. The fail-safe actuator is maintenance-free and can be rotated 360 degrees.

SPECIFICATIONS

Maximum fluid temperature (1/2" - 2")	285°F
Maximum fluid temperature (2 1/2" and 3")	355°F
Maximum compressed air temperature (1/2" - 2")	140°F
Maximum compressed air temperature (2 1/2" and 3")	175°F
Maximum ambient temperature (1/2" - 2")	140°F
Maximum ambient temperature (2 1/2" and 3")	175°F
Actuator volume (1/2" - 2")	7.62 in. ³
Actuator volume (2 1/2" and 3")	38 in. ³
Body material	cast bronze
Seal	Teflon
Valve end connection	NPT
Compressed air connection	1/4" BSP (1/4" NPT adapter supplied loose)
Compressed air quality	Water free, prefer oil free, but can be lubricated

CAPACITIES

Valve designation	Valve size, inches	CV, gpm	Natural gas 0.62 sp gr scfh at 1" ΔP	Max. fluid inlet pressure, psig	Actuator compressed air pressure, psig
1447-01	1/2	6.3	370	150	60-120
1447-0	3/4	9.8	570	150	60-120
1447-1	1	17.7	1030	150	60-120
1447-2	1 1/4	26	1510	105	60-120
1447-3	1 1/2	47	2720	67	60-120
1447-4	2	82	4750	45	60-120
1447-5	2 1/2	126	7300	105	60-150
1447-6	3	186	10800	75	50-150