



Description

The 1595 Double Shut-off Valve combines two safety shut-off valves in one housing. This reduces piping costs and space requirements and allows the direct addition of the following devices:

- High and low gas pressure switches
- Valve proving system
- Closed position indicator switch
- Pressure regulator
- Pilot line

Application

The 1595 Double Shutoff Valve is recommended for industrial and commercial process heating and boiler applications that require two safety shutoff valves in series. They can be used with air, natural gas, propane and other non-corrosive gases.

Compact gas train systems are easily created without additional piping by adding surface mounted devices to the 1595 valve. (See Bulletin 1597.)

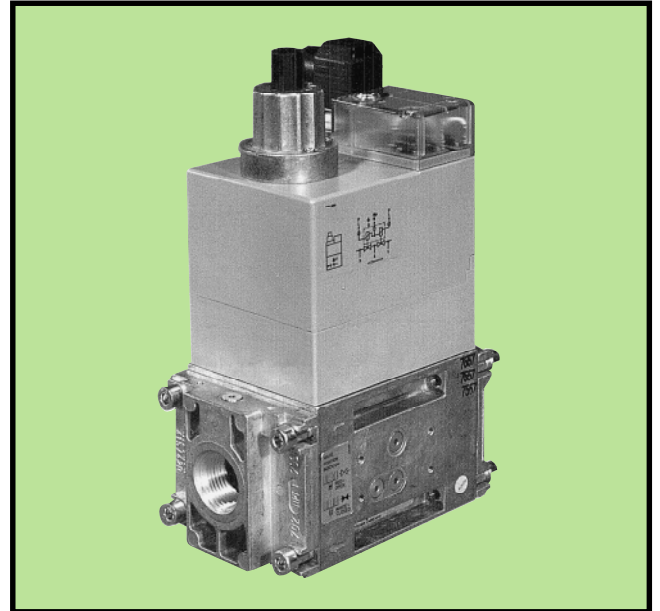
Features

All valve components are designed and built to ISO 9001 standards to ensure safe, reliable operation.

- Two normally closed shutoff valves in one housing.
- Less than 1 second closing time.
- Slow-opening with adjustable initial flow.
- Adjustable main flow.
- Two actuators with independent valve operation.

**Capacity in cfh of natural gas
at pressure drop of 1"wc
sp. gr. = 0.65 at 60 F**

Valve designation	Pipe size inches	Capacity in cfh
1595-01	1/2	325
1595-0	3/4	390
1595-1	1	1260
1595-2	1 1/4	1550
1595-3	1 1/2	1700
1595-4	2	1780



- Fast cycling operation.
- Maximum operating pressure 7 psi.
- Standard 1/2" to 2" NPT threaded flanges.
- Standard visual position indicator.
- Optional closed position indication switch.
- Direct mounting of pressure regulator, pressure switches, and valve proving system.

Benefits

- Compact design saves installation space.
- Dual solenoids, integral flanges, and side taps reduce piping time and costs.
- When used with surface-mount devices, connecting pipes are eliminated.
- Slow-opening provides smoother light-off.
- Optimized internal contours provide a low pressure drop.
- Flow adjustment allows performance specific throttling.

Approvals

1595: UL listed
 1595-P, -V and -PV: FM approved
 1595-V, -PV: IRI approvable
 AGA ANSI Z21.21/CGA 6.5: "Commercial/Industrial Safety Shutoff Valves"

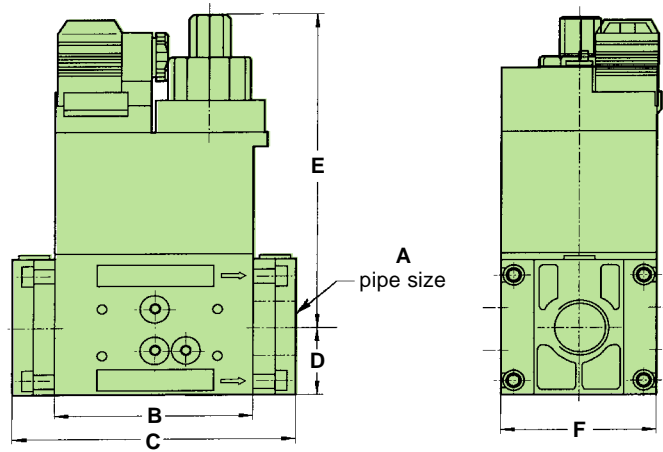
SPECIFICATIONS

Gases: air, natural gas, propane, other non-corrosive gases
Maximum Operating Pressure: 7 psi
Electrical Ratings: 110 to 120 V ac, 50-60 Hz
Power Consumption: 1595-01, -0: 45VA
 1595-1 thru -4: 90 VA
Electrical Enclosure: NEMA 1
Electrical Connection: DIN-Connector with 18" lead wires
 with ½" NPT conduit DIN-Connector
Duty Cycle: 100%
Ambient / Fluid Temperature: -40 F to +150 F
Classification Valve V1: Safety Shutoff Valve:
 UL 429, FM 7400, CGA 6.5, AGA ANSI Z 21.21
Classification Valve V2: Safety Shutoff Valve:
 UL 429, FM 7400, CGA 6.5, AGA ANSI Z 21.21
Closing Time: <1 second
Opening: V1 <1 second, V2 1-20 seconds (adjustable) at
 70 F

Initial Lift Adjustment: Adjustable on V2: 0 to 70% of total flow
Main Flow Setting: Adjustable on V2: 10 to 100% of total flow
Materials in Contact with Gas:
 Housing: Aluminum, Steel
 Seals on valve seats: NBR-based rubber
Mounting Position: Solenoid upright vertical to solenoid horizontal
Strainer: Installed on the housing upstream of V1
Test Port: G 1/8 ISO 228 taps available on both sides upstream of V1, between V1 and V2, downstream of V2, and on both flanges
Position Indication: Visual indicator standard; Closed position Indication switch with visual indication and electrical switch (SPDT) optional (-P option).

DIMENSIONS

inches



Valve designation	dimensions in inches					
	A	B	C	D	E	F
1595-01	1/2	3 ¹¹ / ₁₆	5 ⁹ / ₁₆	1 ³ / ₈	5 ⁵ / ₁₆	2 ⁷ / ₈
1595-0	3/4	3 ¹¹ / ₁₆	5 ⁹ / ₁₆	1 ³ / ₈	5 ⁵ / ₁₆	2 ⁷ / ₈
1595-1	1	4 ⁷ / ₈	7 ¹⁵ / ₁₆	1 ¹³ / ₁₆	7 ¹ / ₂	3 ¹⁵ / ₁₆
1595-2	1 ¹ / ₄	4 ⁷ / ₈	7 ¹⁵ / ₁₆	1 ¹³ / ₁₆	7 ¹ / ₂	3 ¹⁵ / ₁₆
1595-3	1 ¹ / ₂	4 ⁷ / ₈	7 ¹⁵ / ₁₆	1 ¹³ / ₁₆	7 ¹ / ₂	3 ¹⁵ / ₁₆
1595-4	2	4 ⁷ / ₈	7 ¹⁵ / ₁₆	1 ¹³ / ₁₆	7 ¹ / ₂	3 ¹⁵ / ₁₆

ORDERING INFORMATION

1595 - 1 - P V

Product Number _____
 Pipe Size _____
 Valve Proving Device _____
 Closed Position Indication Switch _____

DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM NORTH AMERICAN MFG. CO. IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.

WARNING: Situations dangerous to personnel and property can develop from incorrect operation of combustion equipment. North American urges compliance with National Safety Standards and Insurance Underwriters recommendations, and care in operation.

North American Mfg. Co., 4455 East 71st Street, Cleveland, OH 44105-5600 USA, Phone 216-271-6000, Facsimile 216-641-7852