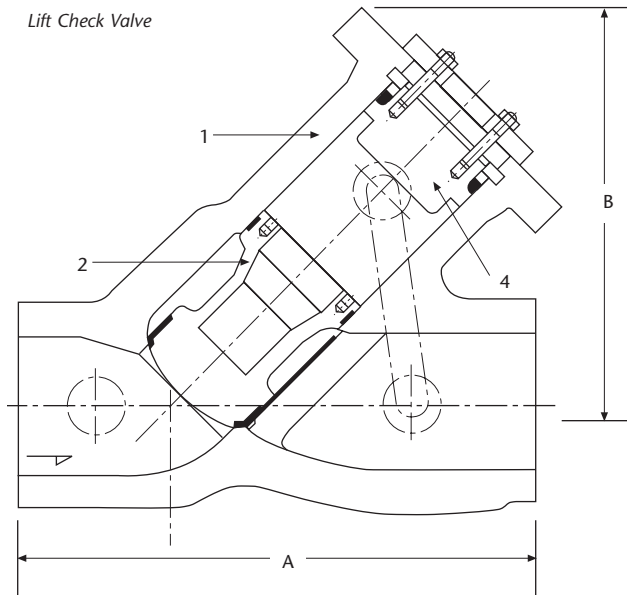


Specifications

- Design Standard:** ASME B16.34 and as required
- Pressure Class:** ASME Class 900-2500 and above
- Sizes:** Cast construction 6" - 24"
- Materials:** Carbon steel, alloy steel and stainless per ASTM specifications or applicable international standards
- Trim:** Stainless Steel
- Seats:** Hardfacing alloy #21 (CoCr)
- Bonnet Design:** Pressure seal with forged cover and graphite seal ring
- End connections:** Butt weld



- 1. Body
- 3. Stem
- 2. Poppet
- 4. Cover

Dimensions

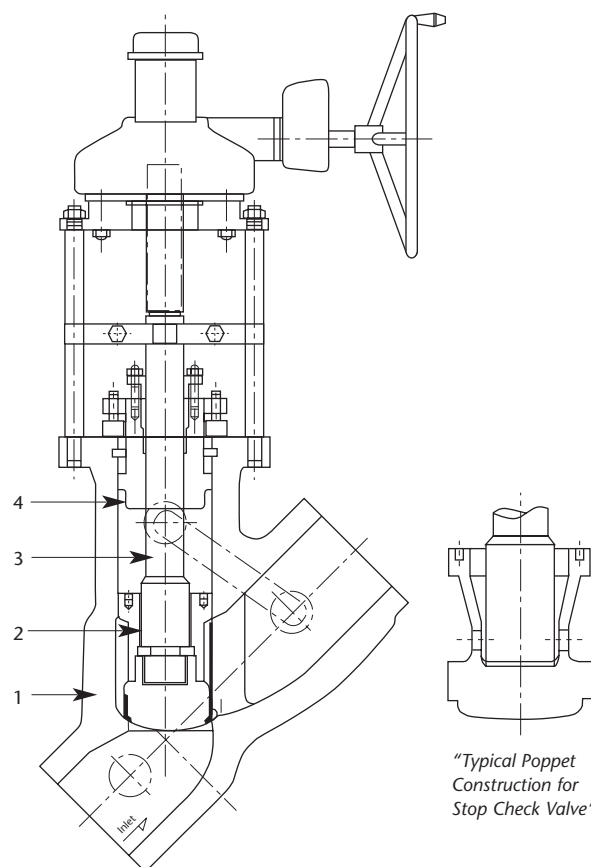
Class 1500 Lift Check, Stop Check and Stop "Wye" Globe Valves

Size	A End to End	Weight (lbs)	Cv
6	27¼	505	950
8	30	958	1610
10	36¼	1785	2550
12	43	2910	3525
14	43	2840	3535
16	54	4090	6220
18	63	5000	6220
20	54½	6700	8500
24	59½	11300	12500

Class 2500 Lift Check, Stop Check and Stop "Wye" Globe Valves

Size	A End to End	Weight (lbs)	Cv
6	24	505	630
8	30	1158	1125
10	36	2050	1790
12	43	3570	2620
14	49	5400	3790
16	49	5480	3790
18	58	8000	5000
20	58	8180	5000

Stop-Check & Stop Valve with Motor Operator

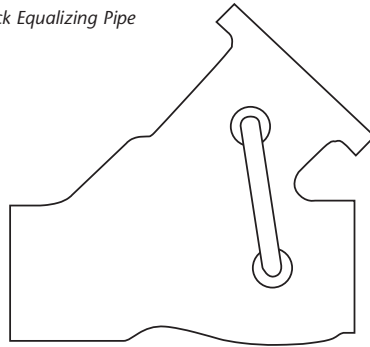


"Typical Poppet Construction for Stop Check Valve"

Equalizing Pipe - Wye Globe Valve

Wye Stop/Check Valves are provided with an equalizing pipe connecting the area above the disc to the valve outlet. The equalizing pipe reduces any pressure build up over the disc allowing the higher pressure below to fully open the disc. This full disc lift reduces pressure drop.

Stop Check Equalizing Pipe



Elbow Down Valves

Elbow Down Valves are a special globe valve design used for downward vertical flow off a circulating pump. Elbow Down Valves are available for high pressure service in a range of sizes.



16" Class 1500 Elbow Down

3-Way Valves

Atwood & Morrill has been manufacturing 3-Way By-Pass Valves since 1925. We have continued to expand this product line by furnishing the largest 3-Way Valves required for power plants, worldwide.

Features

In-line Body Design

The A&M 3-Way Valve features a "T" shape body. The inlet and bypass outlet are on the same center line. Therefore, piping layout is simplified and less expensive.

Uninterrupted Flow

When an A&M 3-Way Valve is used, accidental shut-off cannot occur. Full flow is maintained through one port or the other, or through both ports during operation of the valve. Transfer is automatic, so special sequencing required with dual or multi valve installations is not necessary.

Disc and Seat Design

A&M utilizes flat seats as experience proves it is easier to establish and maintain tightness. A flat seat can move in a horizontal plane and the valve will still remain tight. Alternate seating arrangements may not remain tight if subjected to lateral movement.

Guided Poppet

Stabilized seating in both directions ensures proper sealing. The guides also stay out of the normal flow path.

Typical Service

The A&M 3-Way Valve is designed for installations where uninterrupted flow control from one line to another is essential. The 3-Way Valve permits selection of two different flow patterns from the same valve.

Tested

Seat tightness in accordance with MSS SP-61

Applications

- High and Low Pressure
- Feedwater
- Heater By-Pass
- Dual Safety Valve Installations
- Continuous Process Application
- Bulk Storage Tank Switching
- HRSG
- Economizer
- Diverting



Feedwater Heater By-pass Service

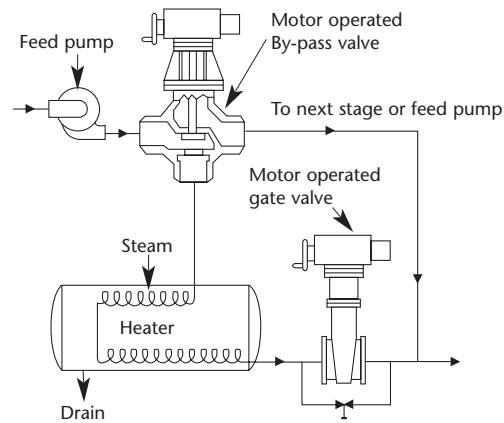
Valves in this service are designed to seat against full differential pressure of the feed pump. The motor or gear operators are sized, as standard construction, to move the disc from seat to seat against differential pressures of up to 200 to 400 psi for high pressure valves rated ASME Class 1500, and above, and against 100 psi differential for low pressure bypass valves rated to ASME Classes 150 and 300.

Advantages

- Eliminate two stop valves
- Eliminate one "Tee" fitting
- Eliminate side mounting of stop valves (which increases wear and maintenance)
- Make five field welds, not seven
- Simplify piping layout
- Eliminate one motor operator connection

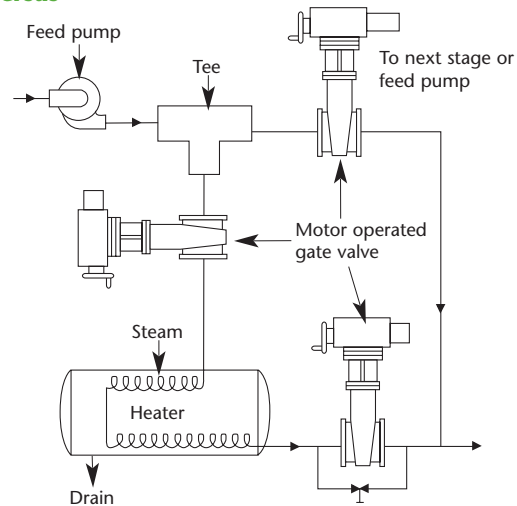
Cost Savings

An A&M 3-Way Valve can cut the typical total installed cost in half



3-Way Valve Installation

Versus



Gate Valve Installation