

Atwood & Morrill® Forged Parallel Slide Gate Valve



Designed for performance in high pressure, high temperature applications

Description

TRILLIUM Valves USA™ has developed a Forged Parallel Slide Gate Valve to add to the Atwood & Morrill® product offering.

These valves offer customers a forged option for combined cycle, critical, super-critical and ultra super critical steam applications.

Research and experience have shown that valves made of C12A castings are exposed to elevated temperatures and increased thermal cycling in combined cycle power plants. Imperfections inherent to all castings have revealed the market need to manufacture these valves in forged F91 material. Forged valves help minimize material defects and provide better quality and longer life valves.

By developing the Atwood & Morrill® Forged Parallel Slide Gate Valve, Trillium has responded to industry and customer needs.

Trillium's investment in research and development delivered a high integrity solution at a competitive price and lead time. Using A&M's world class engineering processes, the valve offers minimal material defects, which lowers maintenance burdens and total cost of ownership, while ensuring maximum uptime throughout the service life.

Key Features

- One piece forging process - helps minimize material defects and delivers a valve with exceptional durability.
- Yoke Rod Design - Provides easy access to packing gland and rigid support for operator.
- Packing Gland - Two piece packing gland loads packing evenly, reducing possible damage to the stem.
- Independent Discs - are free to move, which prevents thermal binding.

Key Features (continued)

- Inconel Butter Layer Seating Surfaces (seat rings and discs) - provide superior bonding to the base material and support a longer life
- Seats - Wide, flat seating surfaces are relatively immune to minor damage that can easily cause leakage in valves that utilize line contact seating.
- Stem - High strength heat treated stainless steel stem with backseat.
- Anti-Rotation Device - Position indicator eliminates torque wear of seats.
- Seal Ring - Tight reliable closure of the cover is assured by the use of a graphite seal ring.
- Carrier Ring - Durable carrier ring is securely threaded and pinned to the stem.
- Disc Spring - A light, non-corrodible spring keeps both discs in close contact with the seats at all times.

Applications

- Main Steam Isolation
- Hot Reheat Isolation
- Other critical isolation valve applications

Specifications

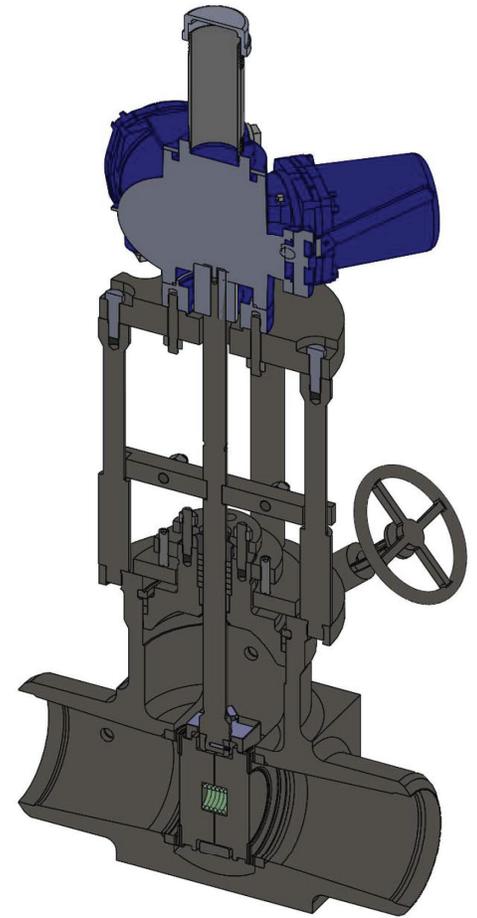
Design Standard: ASME B16.34 and applicable international specifications as required

Pressure Classes: ASME 600 to 2500 Special and Intermediate ratings available

Sizes: 6" to 28"
Larger sizes available upon request

Temperature Range: up to 1,150°F (up to 620°C)

Materials: ASTM A105,
ASTM A182 F11,
ASTM A182 F22,
ASTM A182 F91



HISTORY

TRILLIUM Valves USA™ is a pioneer in valve design with nearly 120 years of experience.

PROVEN TRACK RECORD

The overall A&M® installed base is unparalleled. Our valves are integral in Coal, Combined Cycle and Nuclear plants worldwide.

QUALITY

We hold the following quality certificates: ISO 9001, ASME N & NPT Stamps, SIL3 (FREE FLOW™) and PED.

PARTS & SERVICE

As the OEM, TRILLIUM Valves USA™ offers spare parts and field service to support our valves long after the sale.

ATWOOD & MORRILL®
Forged Parallel Slide Gate Valves

Table of Dimensions and Cv
Class 600

Size INCHES	L	H	W	Cv
16	39.00	99.13	54.25	15,920
18	43.00	107.37	60.00	20,005
20	52.00	118.13	65.50	24,536
24	61.00	137.87	78.75	36,005

Class 900

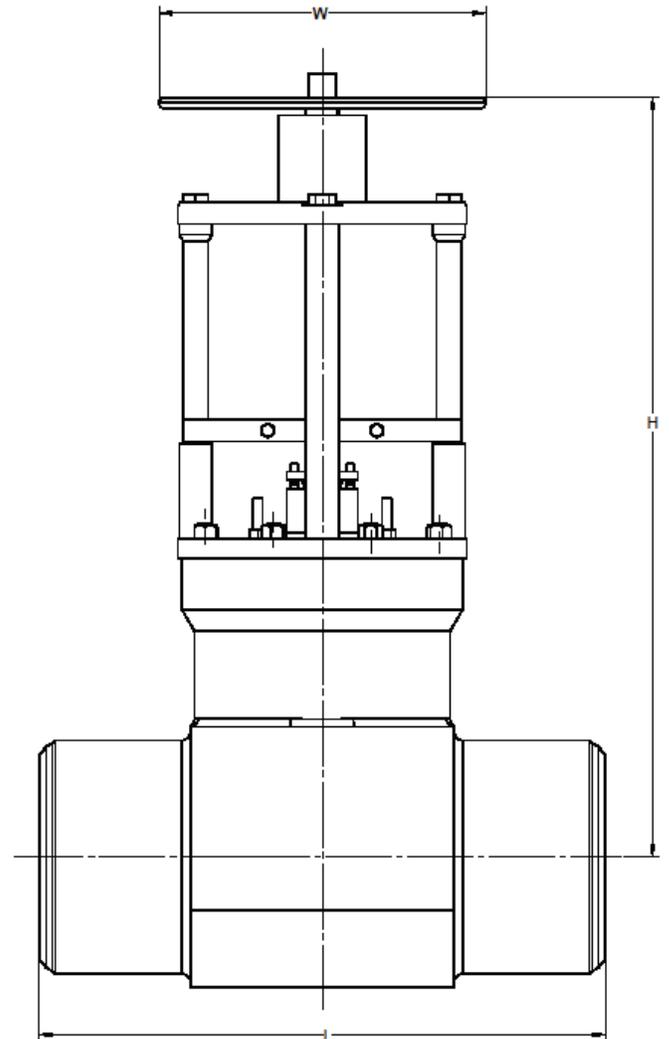
Size INCHES	L	H	W	Cv
6	20.00	38.00	24.00	2,300
8	26.00	45.00	24.00	3,950
10	31.00	52.00	36.00	6,200
12	36.00	58.00	36.00	8,700
14	39.00	64.00	36.00	10,550
16	43.00	69.00	*	13,800
18	48.00	76.00	*	17,500
20	52.00	82.00	*	21,550
24	61.00	97.00	*	31,000

Class 1500

Size INCHES	L	H	W	Cv
6	22.00	40.00	24.00	1,900
8	28.00	48.00	36.00	3,250
10	34.00	55.00	36.00	5,100
12	39.00	60.00	36.00	7,150
14	42.00	69.00	48.00	8,600
16	47.00	75.00	*	11,300
18	53.00	83.00	*	14,250
20	58.00	87.00	*	17,900
24	60.00	100.00	*	25,700

Class 2500

Size INCHES	L	H	W	Cv
6	24.00	38.00	30.00	1,150
8	30.00	49.00	36.00	1,950
10	36.00	58.00	36.00	3,150
12	41.00	63.00	48.00	4,450
14	44.00	69.00	48.00	5,400
16	49.00	74.00	*	7,050
18	55.00	77.00	*	8,950
20	55.00	84.00	*	10,900
24	62.00	103.00	*	15,750



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