

ATWOOD & MORRILL® / HOPKINSONS® FORGED PARALLEL SLIDE GATE VALVE



DESIGNED FOR PERFORMANCE IN HIGH PRESSURE, HIGH TEMPERATURE APPLICATIONS

DESCRIPTION

Our Atwood & Morrill Forged Parallel Slide Gate Valve was developed for combined cycle, critical, super-critical, and ultra-super-critical steam applications. Valves made of C12A castings when exposed to elevated temperatures and increased thermal cycling have been found to have a propensity to develop stress cracking or linear indications necessitating field repairs that result in a decrease in useful life of the valve.

Forgings help minimize material defects and provide better quality resulting in longer useful life for valves – a high-integrity solution at a competitive price and lead time. Using Trillium Flow Technologies world-class engineering processes, the valve offers minimal material defects, lowering maintenance needs and costs while ensuring maximum uptime throughout its lifecycle.

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 rotate, and non-wedging design prevents thermal binding
- 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, fully captured, 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

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	CV
16	39.00	49.00	15,920
18	43.00	53.88	20,005
20	47.00	75.63	24,536
24	55.13	73.62	36,005

CLASS 900

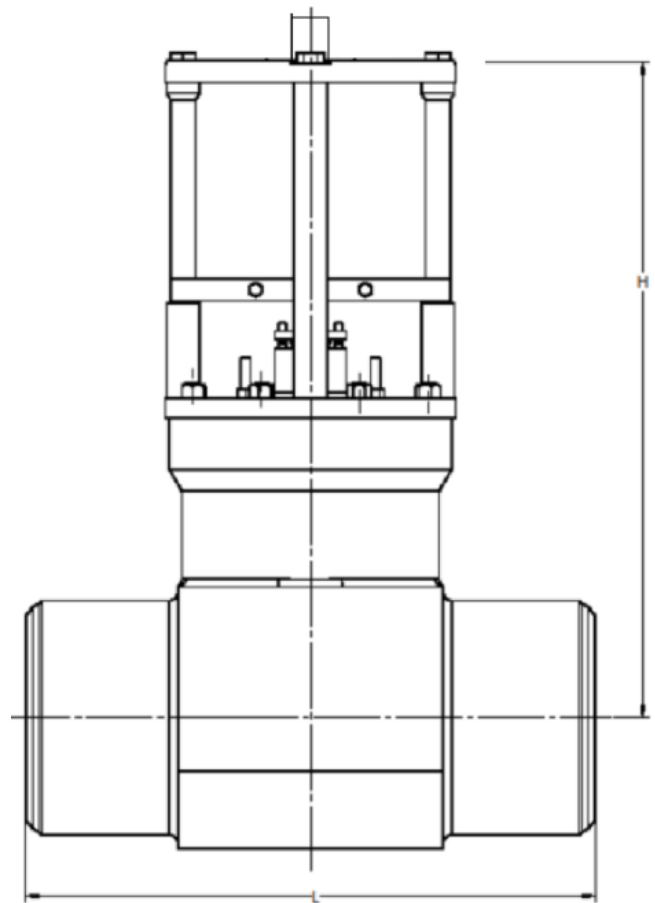
SIZE INCHES	L	H	CV
6	20.00	25.38	2,300
8	26.00	30.38	3,950
10	31.00	37.50	6,200
12	36.00	42.88	8,700
14	39.00	48.88	10,550
16	43.00	52.50	13,800
18	48.00	58.69	17,500
20	52.00	63.75	21,550
24	61.00	73.63	31,000

CLASS 1500

Size INCHES	L	H	CV
6	22.00	25.63	1,900
8	28.00	31.75	3,250
10	34.00	38.69	5,100
12	39.00	45.00	7,150
14	42.00	47.25	8,600
16	47.00	55.50	11,300
18	53.00	59.00	14,250
20	58.00	65.75	17,900
24	66.00	74.88	25,700

CLASS 2500

Size INCHES	L	H	CV
6	24.00	28.25	1,150
8	30.00	36.69	1,950
10	36.00	38.50	3,150
12	41.00	44.00	4,450
14	44.00	49.00	5,400
16	49.00	57.00	7,050
18	55.00	65.00	8,950
20	60.00	66.63	10,900
24	68.00	76.38	15,750





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