

OVERVIEW

The Bray Series 752/752HP knife gate valve is engineered for unsurpassed performance in demanding industrial applications. Its two-piece bolted body mechanically retains a robust steel-reinforced perimeter seat that provides reliable bidirectional zero leakage shutoff.

INDUSTRIES

- > Chemical & Petrochemical
- > Food & Beverage
- > General Industry
- > Mining & Metals
- > Oil & Gas
- > Pharma & Biotech
- > Power Generation
- > Pulp & Paper
- > Water & Wastewater

MEDIA

- > Abrasive Slurries
- > Corrosive Slurries
- > Process & Raw Water
- > Sludges

MODELS

SERIES 752

- > 232 psi | 16 bar.
- > Face-to-face compliant to MSS SP-81.

SERIES 752HP

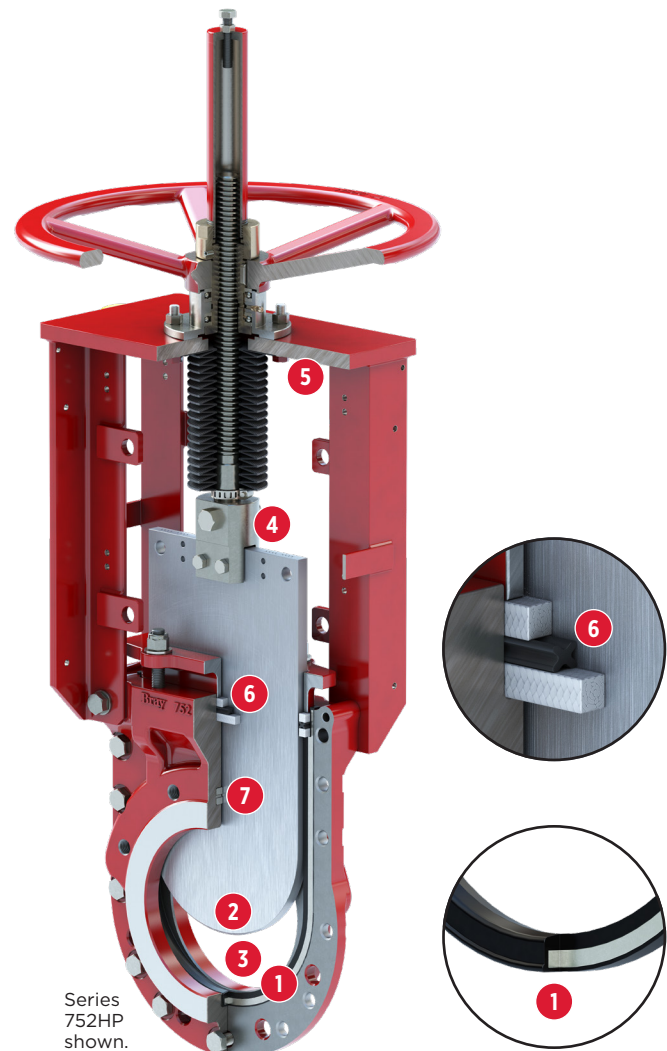
- > 290 psi | 20 bar.
- > Fully compliant to MSS SP-135.

SPECIFICATIONS

Size Range	NPS 2 to 24 DN 50 to 600
Temperature Range	Buna-N: -35°F to 194°F -37°C to 90°C
	EPDM: -65°F to 248°F -54°C to 120°C
	FKM: -15°F to 392°F -26°C to 200°C
Pressure Rating	Series 752: 232 psi 16 bar
	Series 752HP: 290 psi 20 bar
Body Style	Two-piece bolted (wafer)

FEATURES

- 1 REINFORCED U-SEAL SEAT:** Precision molded seal and best-in-class elastomer formulations offer proven cycle life with bi-directional zero leakage.
- 2 BEVELED GATE EDGE:** Cuts through the flow and pushes solids aside, while the flush seat eliminates media build up in a dead pocket. The seat design provides positive isolation without purging.
- 3 UNRESTRICTED FLOW PATH:** Minimal pressure drop achieved through full port valve design. Optional polyurethane or chrome iron bore liners protect the valve body and extend service life.
- 4 CLEVIS DESIGN AND HORIZONTAL BOLTING:** Stabilizes gate ensuring proper alignment.
- 5 HEAVY DUTY YOKE, STEM, AND BELLOWS:** Standard on 752HP configuration to meet the toughest site conditions.
- 6 STANDARD ENERGIZED QUAD SEAL PACKING:** Multi-layered PTFE provides exceptional gland sealing around gate and reduces the frequency of maintenance compared to PTFE packing alone.
- 7 GUIDED DEFLECTION-RESISTANT GATE DESIGN:** Ensures consistent alignment and smooth operation for industry leading durability.



DESIGN STANDARDS & CERTIFICATIONS

Design	Series 752: Manufacturer Standard Series 752HP: MSS SP-135
Testing	MSS SP-151
Face to Face	Series 752: MSS SP-81 Series 752HP: MSS SP-135
Drilling¹	ASME B16.5 CL150
Certification	Canadian CRN

NOTES

- 1 Other flange drillings available on request.
2 Flange surface finish: Spiral serrations
(125 µin to 250 µin | 3.2 µm to 6.3µm)

ACTUATOR OPTIONS

Direct Mounted Handwheel	Series 752	Standard: NPS 2 to 10 DN 50 to 250
	Series 752HP	Standard: NPS 2 to 8 DN 50 to 200
Bevel Gear	Series 752	Standard: NPS 12 to 24 DN 300 to 600
	Series 752HP	Standard: NPS 10 to 24 DN 250 to 600
Pneumatic	Optional	
Hydraulic	Optional	
Electric	Optional	

MATERIAL OPTIONS¹

Body & Gland	Carbon Steel WCB
	Stainless Steel CF8, CF8M
	Duplex 2205
	Super Duplex 2507
Gate	Stainless Steel 304, 316
	Stainless Steel 17-4PH
	Duplex 2205
	Super Duplex 2507
	Hastelloy® C
	Monel®
	Alloy 20
Seat	Buna-N: -35° to 194°F -37° to 90°C
	EPDM: -65° to 248°F -54° to 120°C
	FKM: -15° to 392°F -26° to 200°C
Packing	PTFE Impregnated Synthetic Fiber with Buna-N Quad Seal: 194°F 90°C
	PTFE Impregnated Synthetic Fiber with EPDM Quad Seal: 248°F 120°C
	PTFE Impregnated Synthetic Fiber with FKM Quad Seal: 392°F 200°C
	PTFE Impregnated Synthetic Fiber: 450°F 232°C
Topworks	Steel

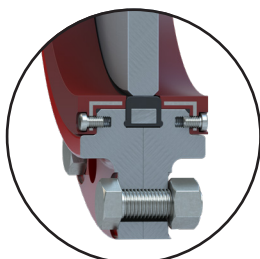
NOTES

- 1 Additional material options may be available upon request. Consult factory for availability.

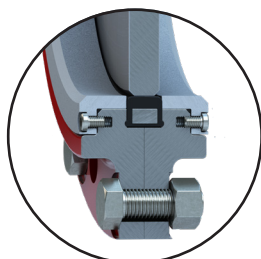
OPTIONS

BORE LINERS

Optional bore liners, available in polyurethane and chrome iron, protect the entire bore of the valve from the flange to the gate and extend the service life in abrasive applications.



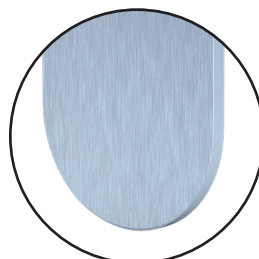
Polyurethane Bore Liner



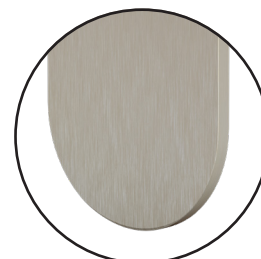
Chrome Iron Bore Liner

GATE MATERIAL COATING

Bray's SlurryGuard™ coating option enhances gate hardness, provides corrosion protection, and reduces friction and scale buildup.



Standard Gate Material



SlurryGuard™ Coating