

MODENTIC

API607 FIRE SAFE BALL VALVES

Standards confirm to API607 4th/5th/6th, ISO 10497-5, BS 6755 Part II

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our company.

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We care about your
questions and
concerns.

FLANGED END FLOATING TYPE SIZE RANGE

1/2"-8" CLASS 150 - 300
1/2"-4" CLASS 1500 - 2500
1/2"-8" PN10 - PN40

SCREWED END SIZE RANGE

1/4" - 4" 2000 - 6000 PSI

VALVES QUALIFIED by CLASS

VALVE TESTED by CLASS	VALVE TESTED by CLASS	
	CLASS	PN
150	150, 300	10, 16, 25, 40
300	300, 400, 600	40, 63, 100
400	400, 600, 800	63, 100
600	600, 800, 900	100, 150
800	800, 900, 1500	100, 150, 260
900	900, 1500	150, 260
1500	1500, 2500	260, 420
2500	2500	420



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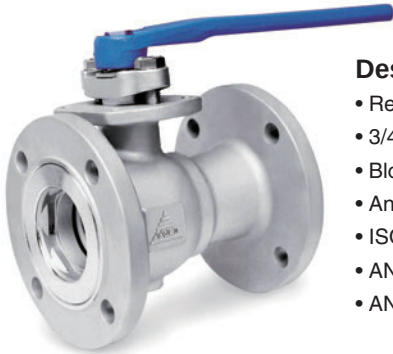
MODENTIC | TAIWAN



FIRE SAFE APPROVED BALL VALVES

MD-51FS-150/300

API 607 4th



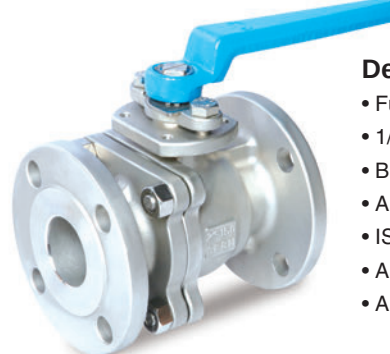
Design Feature

- Reduced Bore
- 3/4" – 6" (DN20 - DN150)
- Blow-out proof stem
- Anti-static design
- ISO 5211 mounting flange
- ANSI B16.10 class 150/300
- ANSI B16.5 class 150/300 RF

Body	ASTM A351 Gr.CF8M
Ball / Stem	CF8M / SS 316
Seat	RTFE (15% glass fiber filled)
Temperature Range	-4 to 356 °F (-20 to 180 °C)

MD-52FS-150/300

API 607 4th



Design Feature

- Full Bore
- 1/2" – 6" (DN15 - DN150)
- Blow-out proof stem
- Anti-static design
- ISO 5211 mounting flange
- ANSI B16.10 class 150/300
- ANSI B16.5 Class 150/300 RF

Body	ASTM A351 Gr.CF8M
Ball / Stem	CF8M/ SS 316
Seat	RTFE (15% glass fiber filled)
Temperature Range	-4 to 356 °F (-20 to 180 °C)

MD-82-150/300

API 607 6th / ISO 10497-5 / BS 6755 Part II



Design Feature

- Full Bore
- 1/2"~8"(DN 15~DN 200)
- Blow-out-proof stem design
- Anti-static design
- ISO 5211 mounting flange
- ANSI B16.10 Class 150/300
- ANSI B16.5 Class 150/300 RF

Body	ASTM A351 Gr.CF8M
Ball / Stem	CF8M / SS 316
Seat	RTFE (15% glass fiber filled)
Temperature Range	-4 to 356 °F (-20 to 180 °C)

MD-82 PN 16/40

API 607 6th / ISO 10497-5 / BS 6755 Part II



Design Feature

- Full Bore
- 1/2"~8"(DN 15~DN 200)
- Blow-out-proof stem design
- Anti-static design
- ISO 5211 mounting flange
- DIN 3202 F1/F4/F5
- EN 1092-1 PN 10/16/25/40 RF

Body	1.4408
Ball / Stem	CF8M / SS 316
Seat	RTFE (15% glass fiber filled)
Temperature Range	-4 to 356 °F (-20 to 180 °C)

V-255FS • V-255M

API 607 4th



Design Feature

- ANSI B16.34 class 600 design
- Blow-out proof stem
- Anti-static design
- ISO5211 mounting flange
- Handle with locking device
- End Connection: Threaded, Socket weld, Butt weld

Body	ASTM A351 Gr.CF8M
Ball / Stem	CF8M / SS316
Seat	RTFE (15% glass fiber filled)
Temperature Range	-4 to 356 °F (-20 to 180 °C)
Working pressure	1/4"- 1" 2000 psi, 1-1/4"-2" 1500 psi
	DN8 - DN25 : PN140, DN32 - DN 50 : PN100

V-255FS • Full Bore • 1/4"- 2" (DN8-DN50)

V-255FSA • Reduced Bore • 1/2" – 2-1/2" (DN15-DN65)



FIRE SAFE APPROVED BALL VALVES

V-755FS

API 607 6th / ISO 10497-5 / BS 6755 Part II



Design Feature

- ANSI B16.34 Class 600 design
- Blow-out-proof stem design
- Anti-static design
- ISO 5211 mounting flange
- Forged Steel components
- Handle with locking device
- End Connection: Threaded, Socket weld, Butt weld

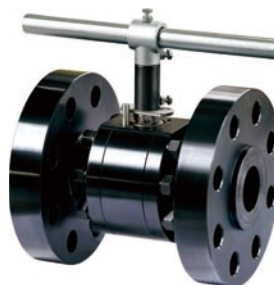
V-755FS • Full Bore • 1/2" – 2" (DN15-DN50)

V-755FSA • Reduced Bore • 1/2" – 2" (DN15-DN50)

Body	ASTM A105 / F316
Ball / Stem	SS 316
Seat	RTFE (15% glass fiber filled)
Working pressure	1500 psi (PN 100)
Temperature Range	-4 to 356 °F (-20 to 180 °C)

HPV-43FS

API 607 5th / ISO 10497-5 / BS 6755 Part II



Design Feature

- Blow-out proof stem
- Anti-static design
- ISO 5211 mounting flange
- ANSI B16.10 Class 1500/2500
- ANSI B16.5 Class 1500/2500 RTJ

HPV-43FS-1500 • Full Bore • 1/2" – 2" (DN15 - DN50)

HPV-43FS-2500 • Full Bore • 1/2" – 2" (DN15 - DN50)

Body	AISI1025 / AISI316 (bar material)
Ball / Stem	CF8M / 17-4PH
Seat	Delrin / Peek
Temperature Range	-4 to 176°F (-20 to 80 °C) for Delrin
	-4 to 500°F (-20 to 260 °C) for PEEK

HPV-40FS

API 607 5th / ISO 10497-5 / BS 6755 Part II



Design Feature

- ANSI B16.34 Class 1500 design
- Blow-out proof stem
- Anti-static design
- ISO 5211 mounting flange
- End Connection: Threaded, Socket weld, Butt weld

HPV-40FS • 3600 Psi • Full Bore • 1/4" – 2" (DN8 - DN50)

HPV-40FSA • 3600 Psi • Reduced Bore • 1/4" – 2" (DN8 - DN50)

Body	AISI1025 / AISI316 (bar material)
Ball / Stem	CF8M / 17-4PH
Seat	Delrin / Peek
Working pressure	3000 psi (PN 260)
Temperature Range	-4 to 176°F (-20 to 80 °C) for Delrin
	-4 to 500°F (-20 to 260 °C) for PEEK

HPV-41FS

API 607 5th / ISO 10497-5 / BS 6755 Part II



Design Feature

- ANSI B16.34 Class 2500 design
- Blow-out proof stem
- Anti-static design
- ISO 5211 mounting flange
- End Connection: Threaded, Socket weld, Butt weld

HPV-41FS • 6000 Psi • Full Bore • 1/4" – 2" (DN8 - DN50)

HPV-41FSA • 6000 Psi • Reduced Bore • 1/4" – 2" (DN8 - DN50)

Body	AISI1025 / AISI316 (bar material)
Ball / Stem	CF8M / 17-4PH
Seat	Delrin / Peek
Working pressure	6000 psi (PN 420)
Temperature Range	-4 to 176°F (-20 to 80 °C) for Delrin
	-4 to 500°F (-20 to 260 °C) for PEEK

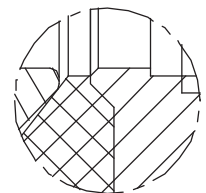
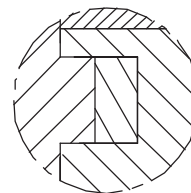
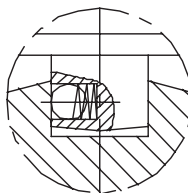


● The purpose

During fire hazard, overheated pipeline or similar situation, the valve should be closed to prevent or hinder the flammable fluid (liquid, gas or gases formed from liquid phase) from passing for a given period of time. Where any leakage occurs, the leakage rate should be controlled at an allowable quantity.

● Design

Seats/Ball interface the seat is designed with a lip which secures the metal to metal seating once the soft seal insert is melting down. Valves become trunnion mounted and as such at low pressure, the contact seat/ball is helped by springs. When working at high pressure, the pressure keeps the upstream seat in contact with the ball. To avoid external leakage, all sealing areas (body seal, stem packing) or a secondary sealing system, mostly graphite must be provided for this purpose.



● Industry Applied

Chemical, Petrochemical, Oil & Gas, paraffin/ Kerosene, Emergency cut-off valves

● Medium / fluid

Flammable gas, liquid, chemical products, solvent, fuel material, hot coal