

Figure R507

Metal Seated Ball Valve

for Pump Control and Isolation Service

Data Sheet R507.01

The GA Industries Figure R507 Metal-Seated Ball Valve is a rugged, field-proven, quarter-turn valve that will provide decades of trouble-free service in water or sewage applications. When fully open, its virtually zero headloss makes it an ideal pump control or isolating valve. If conditions require, it can also throttle to regulate flow, pressure or level. The R507 incorporates a heavy-duty, trunnion-mounted design, offset seating and tough, durable materials to ensure dependable long term service under severe operating conditions.

Product Features

- Quarter-Turn Design
- Compact Body with Integral Flanges
- Full Port, Circular Unobstructed Waterway
- Trunnion-Mounted Rotor
- Offset Metal-to-Metal Seating
- UltraDrive™ Torque Unit

Standard Materials

- Body
 - Class 150 Cast Iron, ASTM A126 Class B
 - Class 250/300 Ductile Iron, ASTM A536, Grade 65-45-12
- Body Seat Monel (Ni-Cu Alloy)
- Ball
 - Class 150 Cast Iron, ASTM A126 Class B
 - Class 250/300 Ductile Iron, ASTM A536, Grade 65-45-12
- Ball Seat Stainless Steel, Type 304
- Shaft Stainless Steel, ASTM A564 Type 17-4PH
- Ball Bushing Stainless Steel, Type 304
- Body Bushing Bronze, Alloy C93200

Coatings

- Internal and External NSF-61 Certified Epoxy per AWWA C550

Options and Accessories

- Pump Director™ Model 7600 (relay-logic) or Model 7700 (PLC) pre-wired control panel
- Double Seats Drop tight shutoff when used as isolating valve
- Mounting Base Facilitates installation on support pier
- Manual Operator In event of inoperative hydraulic or pneumatic controls

Product Application

Size Range	AWWA C507 Pressure Class	Max. Operating Pressure	Max. Operating Temperature	Hydrostatic Test Pressure	Seat Test Pressure
6" to 30"	150	150 PSI	100°F	225 PSI	per AWWA C507
6" to 30"	250	250 PSI	100°F	375 PSI	per AWWA C507
6" to 30"	300	300 PSI	100°F	450 PSI	per AWWA C507



Standard Compliance

- AWWA Standard C507

Ordering Data

- Fluid
- Valve Size and Pressure Class
- Service (Pump Control, Isolation, Throttling)
- Minimum/Maximum Inlet Pressure
- Minimum/Maximum Outlet Pressure
- Minimum/Maximum Flow Rate
- Type of Actuation
- Open/Close Time
- Minimum/Maximum Pressure to Cylinder Actuator
- Electrical Characteristics of Motor Actuator

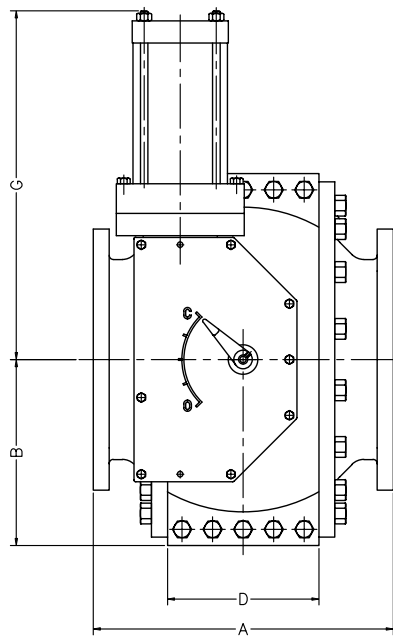
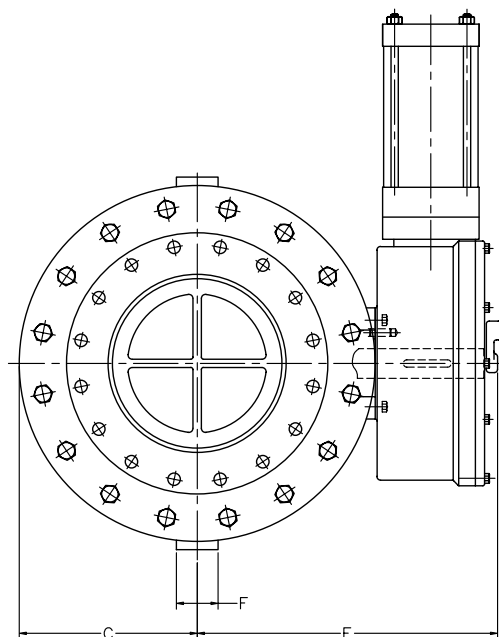
Actuation

- Water Cylinder
- Oil Cylinder
- Pneumatic Cylinder
- Electric Motor
- Manual Gear with Handwheel

Figure R507

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for Pump Control and Isolation Service



Dimensions (inches)

Size	A		B	C	D	E	F	G	Approx. Shipping WT (lbs)
	Class 125/150 Flange	Class 250/300 Flange							
6	15 3/4	16 5/8	9	8 1/4	6 1/4	21 3/4	2 1/2	30	1,050
8	18	19	10 1/8	9 1/2	7	23	2 1/2	30	1,250
10	10 1/8	19 1/2	11 7/8	11	9	24 1/4	3 3/4	30	1,550
12	21	22 1/2	12 3/4	12	11	25	3 3/4	30	2,000
14	26 1/4	27 3/4	15 1/2	14 7/8	12	28	4	38	2,600
16	27	28 5/8	16 1/4	16	15	31 1/2	4	38	4,000
18	29	30 5/8	19 1/4	18 1/2	16	33	4 1/2	38	4,100
20	32	33 5/8	20	18 1/4	18 1/4	35	4 1/2	38	5,200
24	37	38 3/4	23 1/2	24 1/8	21 1/2	40	5	50	7,500
30	46	47 3/4	29 3/4	26 1/2	24 3/4	50	6	50	13,000

Note: Please contact the factory for information on sizes 36" to 48".