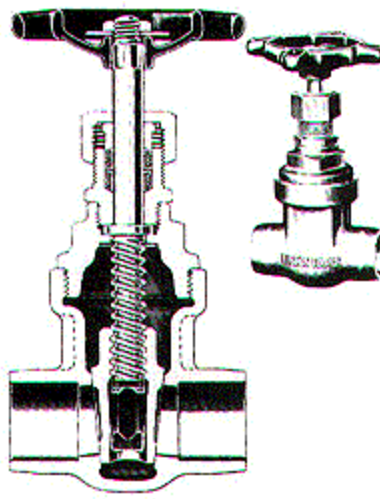


Rising stem  
Solid wedge disc  
Fig 2132



Non-rising stem  
Single wedge disc  
Fig 2133

Bronze bonnet gate valves are designed for steam, water, gas, oil and other general services. Rising stems are specified where stem position is used for visually determining whether the valve is open or closed. Non-rising stems are used where headroom is limited. Valves are designed for maximum interchangeability of parts to reduce spare parts inventories.

**Bodies** Full flow design. Connecting pipe ends will not distort valve seats. Same body is used for both rising and non-rising stem valves insuring interchangeability of trims. Disc guide channels are beveled at top of body for easy assembly.

**Bonnets** Heavy screw-in bonnet collar with ample thread engagement insures a tight body-collar joint. Wide flats provide a firm wrench hold for disassembling valve.

**Stems** Resistant to wear, corrosion and embrittlement. Long accurately machined threads provide full thread contact. Heavy disc-stem connection withstands wearing action when opening valve and prevents stem failure under strain. Rising stems have a backseat surface above the stem threads where it is less exposed to scale and damage from line debris.

**Discs for rising stems.**  
Solid wedge discs Accurately machined with disc-wing guides that conduct the disc to a firm, tight seat. Ideal for food processing lines and handling gummy substances where entrapment of line materials within the disc is undesirable.

**Discs for non-rising stems** Single wedge discs threaded to engage with thread on stem, raising or lowering disc as stem is

turned. Threads are long enough to be fully engaged whether valve is open or closed. Disc has wing guides which mate with channels with the body

**Seats** Integral. Accurately tapered to insure perfect seating of the discs.

**Repacking** Valves are repackable under pressure when wide open. Deep stuffing box and packing nut insure firm thread engagement when fully packed. Back seats above stem threads make scale formation unlikely and provide a tight seal.

**Hexagon head gland** Permits the use of a light wrench to easily loosen and raise gland.

**Non-slip handwheel** Insures tight closing.

**Dimensions in inches Weights in Pounds**

Size	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
A	1 <sup>15</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>4</sub>	6
C	1/2	1 <sup>1</sup> / <sub>16</sub>	7/8	1 <sup>5</sup> / <sub>16</sub>	1	1 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>
D Bore	.503	.628	.878	1.129	1.379	1.629	2.129	2.629	3.129
E	2 1/4	2 1/2	3	3 1/2	4 1/8	4 5/8	5 1/8	5 1/2	6
F	4 <sup>9</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>8</sub>	10 <sup>7</sup> / <sub>16</sub>	12 <sup>3</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>16</sub>	17 <sup>5</sup> / <sub>16</sub>
FF NRS	3 <sup>11</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>16</sub>	5	5 <sup>3</sup> / <sub>4</sub>	6 <sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	8 <sup>5</sup> / <sub>8</sub>	9 <sup>13</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>16</sub>
Fig 2132 Wts	.8	1.2	2.0	2.9	4.0	5.7	9.0	14.0	21.0
Fig 2133 Wts	.8	1.1	1.8	2.6	3.6	5.2	8.1	13.0	19.0



**Principal Parts and Materials**

Part	Fig	Material	ASTM
Body & Bonnet	All	T-1 Bronze	B62
Disc	All	T-1 Bronze	B62
Stem	All	Stemalloy, Cast (C87500)	B371
Packing	All	JC 168 Kevlar	-

These valves comply with ANSI B16.24 and MSS-SP-80

