# Extended Bonnet Cryogenic Globe Valves BK and BKA Series Valves

#### **Application**

The BK and BKA Series valves are designed exclusively for the handling of cryogenic liquids on bulk storage tanks, transports, and pipelines. These globe valves provide positive shutoff and offer a long, low-maintenance service life. The valves are available with a variety of inlet and outlet connections and stem lengths. Certain BK valves are offered with brazed-in schedule 5 and schedule 10 Stainless Steel Pipe Stubs.

#### **Features**

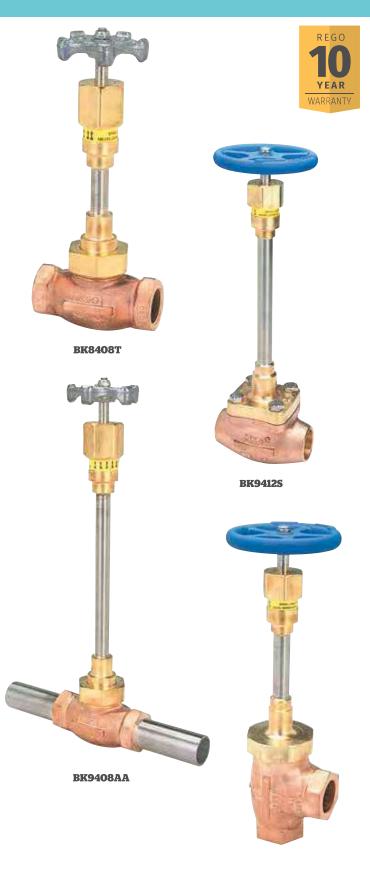
- PCTFE seat disc and swivel seat design offer positive shutoff, minimal seat wear, and a long service life.
- Unique spring-loaded upper packing provides extended service life without constant packing adjustment
- · One piece slip-on seat assembly for easy replacement.
- Each valve is cleaned and packaged for oxygen service per CGA G-4.1.
- Maximum working pressure is 600 psig CWP. (-196°C)
- Working temperature range is -320°F to +165°F. (196°C to +79°C)
- · 100% Factory Tested

#### **Materials**

Body	ASTM B61
Upper Bonnet	ASTM B16
Lower Bonnet Bra	ss ASTM B16 for up to 1" Valve Size
B	RASS ASTM B283 For Larger Sizes
Seat Disc	PCTFE
Seat Retainer Assembly	Brass ASTM B16
Stem and Bonnet Extension Tul	be Stainless Steel ASTM A582
Spring	Stainless Steel ASTM AB13
Jam Ring and Pressure Seal Ri	ngs PTFE
Handwheel	Aluminum for up to 1" valve size,
	Coated Malleable Iron for larger size

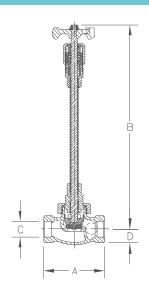
#### **Bonnet Design**

Union Bonnet for  $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1" valve sizes and on both the 1" model BKA8408S and  $\frac{1}{2}$ " model BKA8412S angle valves. Bolted Bonnet design is used on the BK9410 ( $\frac{1}{4}$ ), BK9412 ( $\frac{1}{2}$ "), and BK9416 ( $\frac{2}{4}$ ") models.

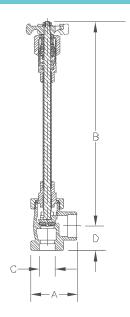




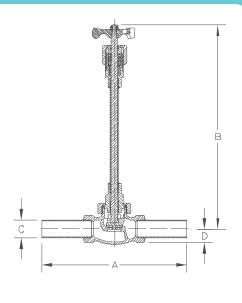
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Angle Globe Valve



Straight Globe Valve with Pipe Stubs

### **Ordering Information**

Part Number	Body Style	A Length	B Max Open (Approx)	C Inlet / Outlet Connections	D	C <sub>V</sub> Factor
BK8404S				.631"634"		
BK8404T	]		9 <sup>5</sup> /32"	½" F.NPT	1"	4.7
BK8404ST		3 <sup>11</sup> /16"		.631"634"x ½" F.NPT	]	
BK9404S				.631"634"		
BK9404T				½" F.NPT		
BK9404AA		9 11/16"	15"	½" Sch5 Pipe	1"	4.7
BK9404PT-F30		6 <sup>11</sup> / <sub>16</sub> "		½" Sch5 Pipe x ½" F.NPT		
BK9404ST	]	3 11/16"		.631"634"x½" F.NPT		
BK8406S	3 11/16"		0.5/. "	.881"884"	1"	0.7
BK8406T		9 5/32"	3⁄4" F.NPT	J 1"	6.7	
BK9406S		3 11/16	15"	.881"-884"	1"	6.7
BK9406T	]			3/4" F.NPT		
BK9406AA	]	9 <sup>11</sup> / <sub>16</sub> "	14.9	3/4" SCH10 Pipe		
BK8408S	Straight 4 5/16"  10 5/16" 7 5/16"		0.14 "	1.131"-1.134"	1 1/8"	
BK8408T		9 1/8"	1" F.NPT	7 1 1/8		
BK9408S		4 3/16	15"	1.131"-1.134"	1 <sup>1</sup> /8" 1 <sup>1</sup> /6" 1 <sup>1</sup> /8"	11.2
BK9408T				1" F.NPT		
BK9408AA		10 <sup>5</sup> /16"		1" Sch10 Pipe		
BK9408PT-F30		7 <sup>5</sup> /16"		1" Sch5 Pipe x 1" F.NPT		
BK9410S*	5 <sup>13</sup> / <sub>16</sub> "  11 <sup>3</sup> / <sub>16</sub> "  8 <sup>3</sup> / <sub>16</sub> "  6"  11.88"  6"		16 <sup>7</sup> / <sub>16</sub> "	1.378"-1.380"	1 1/2"	17.5
BK9412S*		5 <sup>13</sup> /16"	16 <sup>9</sup> /16"	1.631"-1.634"		25.1
BK9412T*				1½" F.NPT		
BK9412AA		11 <sup>3</sup> /16"		1½" Sch10 Pipe		
BK9412PT-F30		8 <sup>3</sup> /16"		1½" Sch5 Pipe x 1½" F.NPT		
BK9416S*		6"	16"	2.131" - 2.134"	1 <sup>5</sup> /8"	41
BK9416AA		11.88"		2" Sch5 Pipe		
BK9416T*		6"	16"	2" F.NPT	1 5/8"	41
BK9416PT-F30	]	9"		2" Sch5 Pipe x 2" F.NPT		
BKA8408S		2.1/."	9 5/11"	1.131" - 1.134" x 1.631" - 1.634"		14.5
BKA9408S	Angle	3 <sup>1</sup> / <sub>4</sub> "	14 <sup>5</sup> /8"		1 <sup>3</sup> /4"	
BKA8412S		4 1/4"	13"	1.631"-1.634"		30.0

<sup>\*</sup> Valves with bolted bonnet design.

