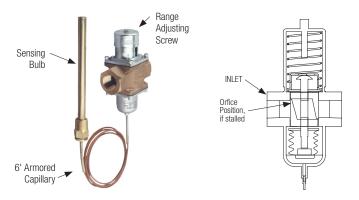
Modulating Water Valves and Bulb Wells

APPLICATION: These modulating valves regulate the flow of water to the heat exchanger to maintain a desired exiting oil temperature. They open automatically when temperature increases at the sensing bulb. **No** external power source is required to actuate the valve. **Not to be** used for salt water service.

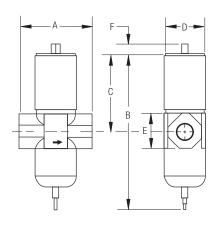
ADJUSTMENT: $\frac{1}{2}$ " to $\frac{1}{4}$ " valves can be adjusted with a screwdriver, $\frac{1}{2}$ " and $\frac{2}{2}$ " have a $\frac{1}{2}$ " square shaft. Turn the adjusting screw clockwise to **decrease** opening temperature; and counterclockwise to **increase** opening temperature. Valves are not calibrated, so final desired temperature setting must be established experimentally. Valve is fully open $\frac{3}{6}$ °F above opening point.



		Bulb Well			
Part Number	Pipe Size (NPT)	Range (Opening Point)	Sensing Bulb Size Diameter X Length	Maximum Water Flow	Recommended Size
59681	1/2"	100°F to 175°F	5/8" x 6"	25 GPM	52941
59684	3/4"	100°F to 175°F	5/8" x 8¼"	40 GPM	52942
59688	1"	100°F to 175°F	5/8" x 81⁄4"	55 GPM	52942
59690	1¼"	100°F to 175°F	5/8" x 8¼"	75 GPM	52942
59683	1/2"	60°F to 140°F	5/8" x 6"	25 GPM	52941
59686	3/4"	60°F to 140°F	5/8" x 81⁄4"	40 GPM	52942
59687	1"	60°F to 140°F	5/8" x 81⁄4"	55 GPM	52942
59689	1¼"	60°F to 140°F	5/8" x 81⁄4"	75 GPM	52942
59691	1½"	60°F to 140°F	9/16" x 8"	90 GPM	52943
59692	2½" ASME	60°F to 140°F	3/4" x 11"	250 GPM	52944

Working pressure to 150 PSI Maximum. *For additional protection of the bulb well stem, use the next longer bulb well.

Water Valves

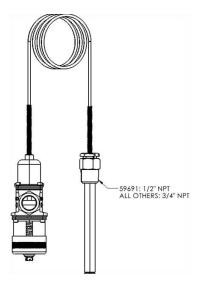


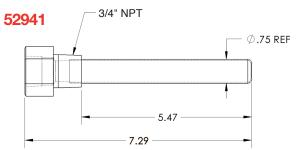
Dimensions (inches)				Approximate
A	В	C	D	Shipping Weight (LBS)
31/4	63/8	31/32	21/8	4.4
33/8	75/16	31/4	21/8	7.7
43/4	81/16	33/4	23/4	9.72
51/4	81/16	33/4	23/4	12.5
55/16	135/16	65/16	23/4	14
63/4	161/8	65/8	7	30
	3½ 3½ 4½ 5½ 5½	A B 31/4 63/8 33/8 75/16 43/4 81/16 51/4 81/16 55/16 135/16	A B C 31/4 63/8 31/32 33/8 75/16 31/4 43/4 81/16 33/4 51/4 81/16 33/4 55/16 135/16 65/16	A B C D 3\(^1/4\) 6\(^3/8\) 3\(^1/3\) 2\(^1/8\) 3\(^3/8\) 7\(^5/16\) 3\(^1/4\) 2\(^1/8\) 4\(^3/4\) 8\(^1/16\) 3\(^3/4\) 2\(^3/4\) 5\(^1/4\) 8\(^1/16\) 3\(^3/4\) 2\(^3/4\) 5\(^5/16\) 13\(^5/16\) 6\(^5/16\) 2\(^3/4\)

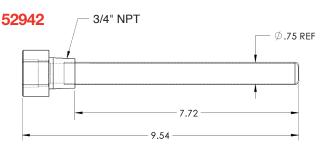
	Flange Specifications (Inches)				
Valve Size	Number of Bolt Holes	Bolt Hole size	Bolt Circle	Flange Diameter	
2½"	4	3/4	5½	7	

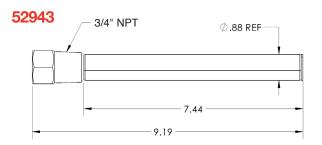
Standard temperature elements are furnished with 6' capillary. Longer capillary lengths not available. Valve Disc: Buna N in brass disc retainer.

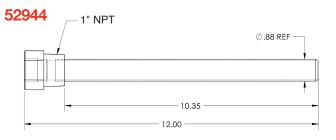
Modulating Water Valves and Bulb Wells



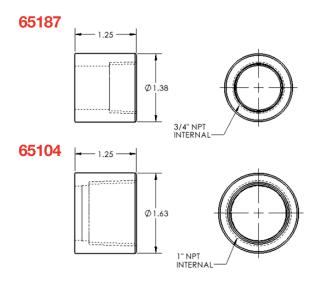








Weld Spud Fittings for Bulb Wells



Valve Part Number	Pipe Size (NPT)	Bulb Well	Weld Spud Fitting
59681	1/2"		
59682	1/2"	52941	
59683	1/2"		65187
59684	3/4"		
59685	3/4"		
59686	3/4"		
59687	1"	52942	
59688	1"		
59689	1 1/4" NPT		
59690	1 1/4" NPT		
59691	1 1/2" NPT	52943	
59692	2 1/2" FLANGE	52944	65104