



## TECHNICAL FEATURES - FLOATING BALL VALVE

BALL VALVE

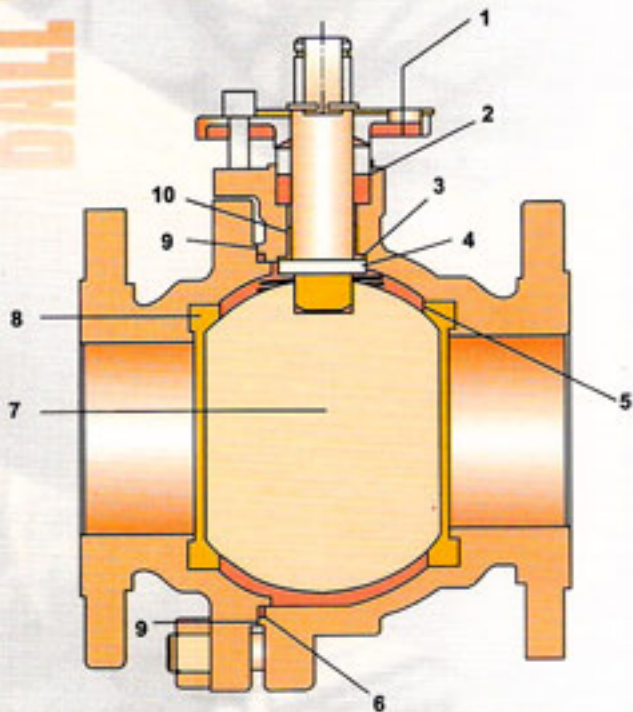
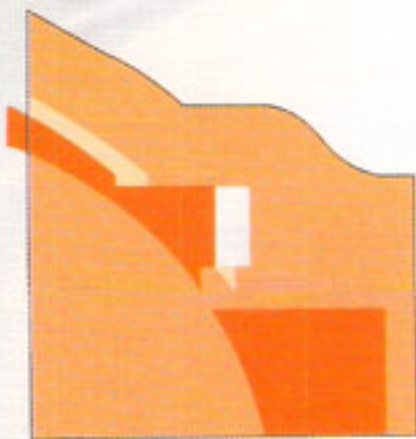


FIG.1. FLOATING BALL VALVE FEATURES

- 1 Locking device to prevent unauthorised use.
- 2 Stem packing is made of Teflon or fire resistant flexible graphite.
- 3 Thrust Washer is made of Teflon or fire resistant graphite.
- 4 An internal stem collar makes the stem blowout proof. The stem is inserted from inside the body and it is back seated. The collar will provide metal-to-metal contact with the valve body if the thrust washer is decomposed during a fire.
- 5 Anti-static device maintains the electrical conductivity between the stem, the ball and the body.
- 6 Gasket is a Teflon or fire resistant flexible graphite.
- 7 Ball is precision machined for exact roundness and surface finish.
- 8 PTFE seats with low friction co-efficient for low torque operation.
- 9 Metal to metal contact between the body and the cap in case the gasket is decomposed during a fire.
- 10 Stem bearing is made of low friction co-efficient PTFE for long lasting and smooth operation.

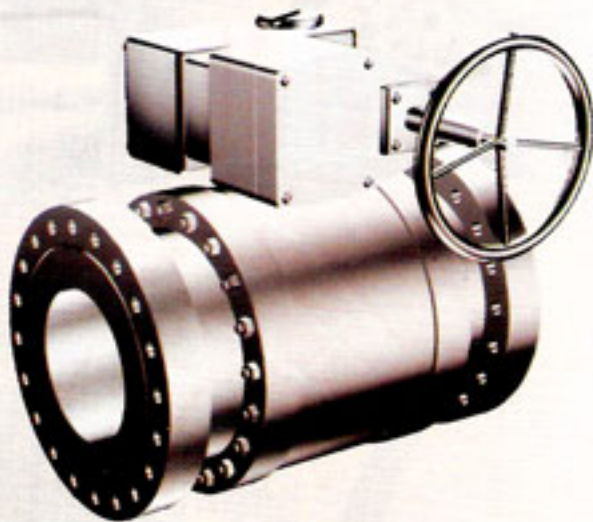


BALL POSITION AFTER FIRE

### Additional Safety Features

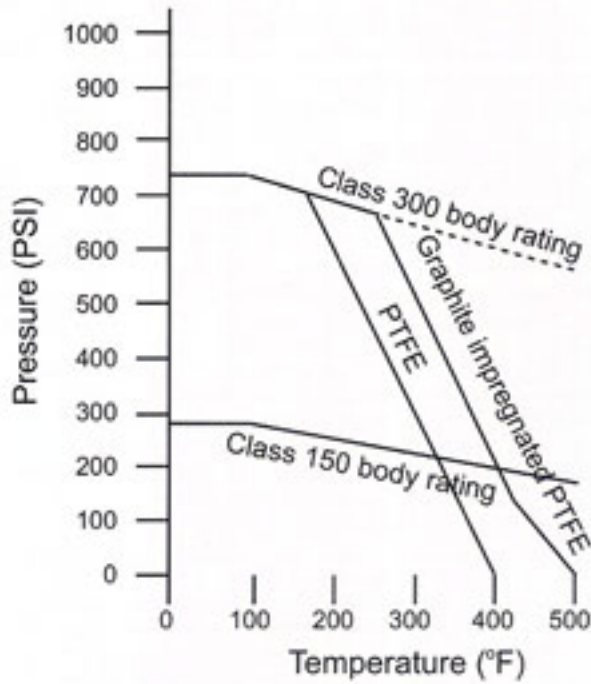
In the event of a fire, if the valve is in a fully closed position, the upstream pressure will move the ball along the axis. As a result, it will provide metal-to-metal contact between the ball and body if the seat material is decomposed as shown in the figure.

The stem collar will also make metal-to-metal contact with the body if the thrust washer is decomposed during a fire.

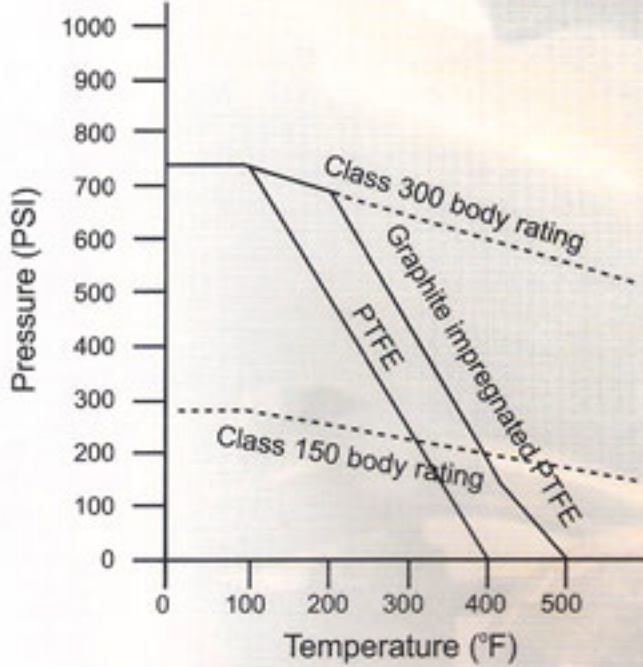


Ensuring your control on the flow...

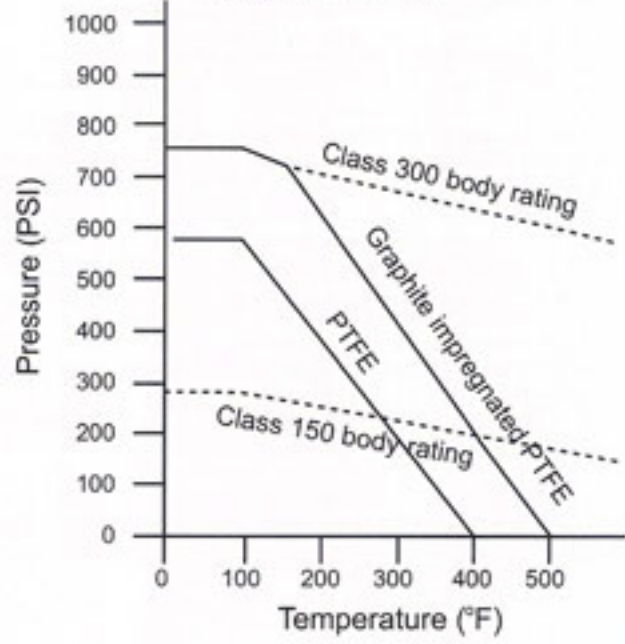
Full Bore: 0.5" to 1"



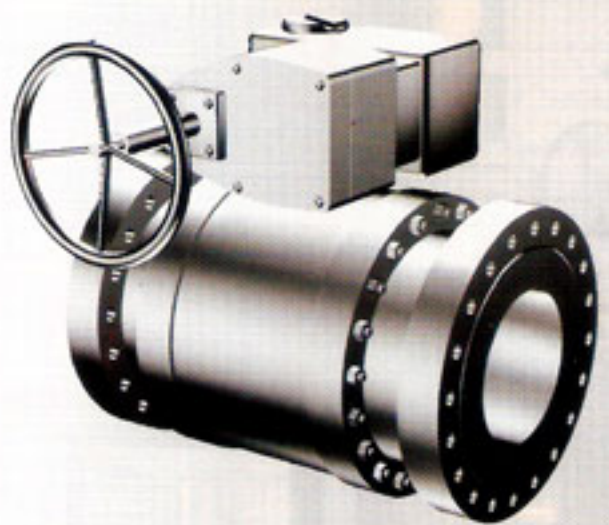
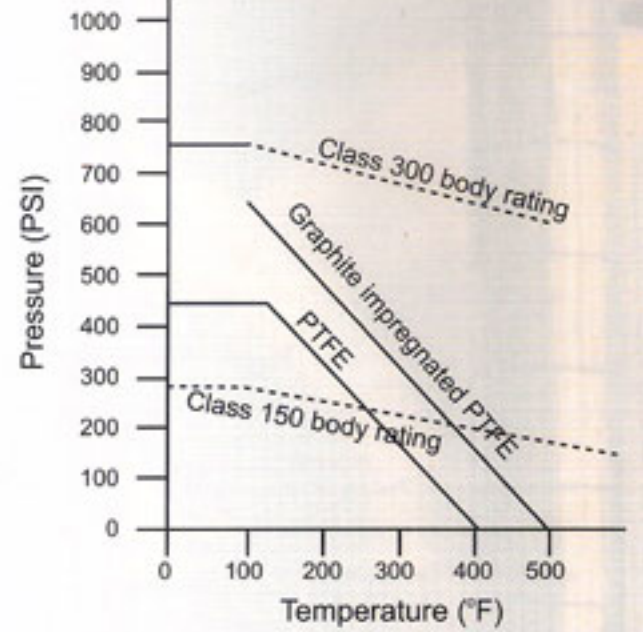
Full Bore: 0.5" to 2.5"  
Reduced Bore: 2" to 3"



Full Bore: 3" to 4"  
Reduced Bore: 6"



Full Bore: 6" to 8"  
Reduced Bore: 10"



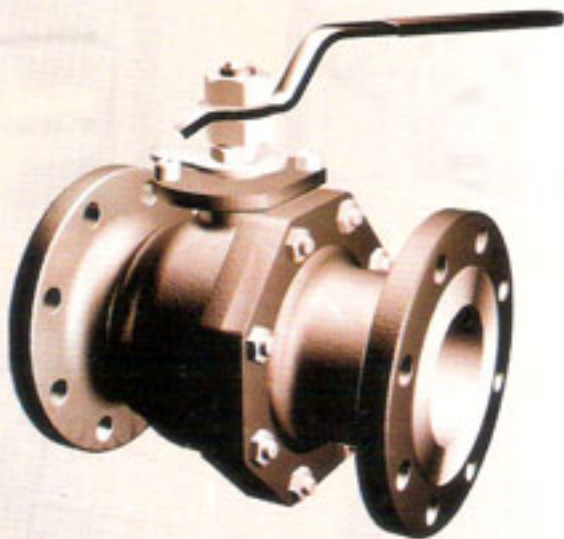


# MATERIAL SPECIFICATION FLOATING BALL VALVE

BALL VALVE

## Standard Materials of Floating Ball valve

VALVE TYPE	BODY, CLOSURE	BALL	STEM	SEAT	BOLT	NIPPLES
	Material					
F L O A T I N G  T Y P E	A105	A182 F304	A182 F316	PTFE - PTFE + CG	A193 B7	A106 Gr.B
	WCB		A182 F316		PEEK - KEL - F	
				NYLON		
	A350 LF2	A182 F304	A182 F316	PTFE - PTFE + CG	A320 L7	A333 Gr.6
		A182 F316		PEEK - KEL - F		
				NYLON		
	A182 F304	A182 F304	A182 F316	PTFE - PTFE + CG	A193 B8	A276 Tp.304L
	A182 F304L	A182 F316		PEEK - KEL - F		
				NYLON		
	A182 F316	A182 F316	A182 F316	PTFE - PTFE + CG	A193 B8	A276 Tp.304L
A182 F316L			PEEK - KEL - F			
			NYLON			
A182 F51	A182 F51	A182 F51	PTFE - PTFE + CG	UNS S31803	A182 F51	
			PEEK - KEL - F			
			NYLON			
HD 200	B62	MONEL K500	MONEL K500	PTFE - PTFE + CG		
EB 263				PEEK - KEL - F		
SB 221				NYLON		



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