

# XCTR1 B - CONTROLLER BACK

### Composition

- Expanded mineral graphite, compliant with EN14772 Section 6.7
- Metallic insert A182 F316 (other materials available)

#### Characteristics

Gasket set in expanded graphite with variable density and anti-extrusion rings. The XCTR1 B gasket is specifically designed for Ball Valve seats in applications up to class 1500. XCTR1 B is configured to provide approximately 20% compression, ensuring high recovery levels.

## **Applications**

Expanded mineral graphite can operate across the full pH range, at both very low and high temperatures. The following limitations and exclusions must be considered:

- 1. With mildly oxidizing agents, hot air, and combustion gases, the temperature must be limited to 450°C.
- 2. The maximum continuous service temperature is 600°C, with a peak limit of 650°C for short exposures.
- 3. Graphite is not compatible with strong oxidizing agents.
- 4. Graphite is suitable for cryogenic applications and oxygen service.
- 5. The metallic insert must be compatible with the process fluid.

#### **Tech Data**

	P bar	lbf/in2	Vm/S	f/pm	рН	T°C	T°F
•	250	4250			0 ÷ 14	-200 ÷ 450 / 600	-330 ÷ 840 / 1200

- The peak temperature can be sustained only for short exposure periods. With weakly oxidizing agents and hot air, the temperature must be limited to 450  $^{\circ}\text{C}.$
- With steam and non-oxidizing fluids, the temperature must be limited to 650  $^{\circ}$ C.
- Flexible graphite and carbon yarns shall not be used with oxidizing fluids



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The range of Controller Back graphite seals for the seat includes different configurations to cover the full range of Ball Valve applications.





