



## Worcester Controls F44 Anti-static Firesafe 3-Piece Ball Valves

The Series F44 is a fire-safe variant of the renowned Flowserve Worcester three-piece range of ball valves. It has been fire-tested in accordance with ISO 10497 and features graphite gland and body seals, 8 high tensile body connector screws for strength in fire conditions, and an integral location spigot machined on the body connector to ensure correct alignment of the fire lip to the ball in a fire.

The design of the valve is such that graphite contamination of the media is now a thing of the past. Further benefits of this product include a mounting platform on the body for ease of ancillary mounting whilst retaining valve integrity, the three-piece valve's inherent ease of maintenance and its compact and lightweight design. The F44 is available in sizes 8-50mm in a range of materials and with a variety of end connections.



## Worcester Controls C44 Cryogenic 3-Piece Ball Valves (-273°C)

### Cryogenic Valve Design

Flowserve Worcester's experience and expertise in the design of cryogenic ball valves has been recognised throughout the process industry for over 30 years. Utilising a combination of our Fluorofill seat material and our unique 'S' gasket body seal, the valve provides positive shut-off in the most demanding of cryogenic applications. From the original C44 R5 and MC44 designs the seat and body seals have remained a constant feature and with both products now rationalised into the C44 R7, additional technical advantages have been included to provide what is considered the best cryogenic ball valve on the market.



## Worcester Controls 5HP 44 High Pressure 3-Piece Ball Valves (345BAR/5000PSI)

Flowserve Worcester's 5HP44 was developed specifically for use in high pressure systems. Typically handling oil, inhibited water or nitrogen gas.

The 3HP44/5HP44 is derived from Worcester's proven Series 44 3-piece valve, and incorporates a number of enhanced product features, all designed to optimise the valve's performance. These include high pressure seals, thicker flanges on the body connectors, high tensile bolting, special high pressure acetal resin or PEEK seats and a high strength stem.

Compared with other types of high pressure valves, the 3HP44/5HP44 offers greater flow rates and easier operation (whether manual or automated).

Whilst acetal resin seats will tolerate temperatures up to 80°C the use of PEEK seats extends the valve's temperature capability to 170°C, in conjunction with appropriate stem and body seals (see graph for corresponding pressures).

The 3HP44/5HP44 is manufactured in carbon and stainless steel in sizes ranging from 8 to 50mm, with body connector options including screwed, butt weld and socket weld.

