

## BALL VALVE COMPONENTS

Fluorten is a leading market manufacturer of industrial ball valves components like seats, seals, spring energized and gland packing in PTFE and HPP - High Performance Polymers - able to satisfy engineering demand like for instance temperatures from cryogenic (-196 °C) to 288 °C and, for short periods, up to 482 °C.

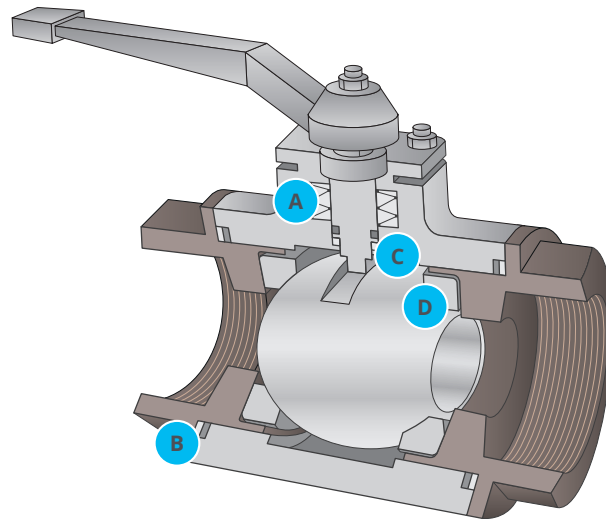
Thanks to the partnerships with the most important worldwide producers of polymers, Fluorten can provide high quality engineering customized parts manufactured in pure and filled PTFE, modified PTFE (Dyneon™ TFM™), HPP - High Performance Polymers - like VICTREX™ PEEK, DuPont™ Vespel®, PCTFE, PA 6.12 and more on demand.

### Application field of ball valve components

- Oil&Gas
- Chemical
- Cryogeny
- Pharmaceutical
- Heating
- Marine
- Water and food

# VALVE SEAT COMPONENTS

## SEATS AND BODY SEALS



- A** Gland packing
- B** Body seal
- C** Thrust washer
- D** Seat

|                | PROPERTY               | Density           | Tensile strenght | Elongation  | Hardness    | Max. / Min. operating temp. |
|----------------|------------------------|-------------------|------------------|-------------|-------------|-----------------------------|
|                | STANDARD               | ASTM D 792        | ASTM D 4894      | ASTM D 4894 | ASTM D 2240 | /                           |
|                | UNITS                  | g/cm <sup>3</sup> | Mpa              | %           | Shore D     | °C                          |
| TYPICAL VALUES | F10-01 (VIRGIN PTFE)   | 2.16              | 20               | 200         | 55          | +250 / -50                  |
|                | F10-02 (MODIFIED PTFE) | 2.16              | 30               | 350         | 60          | +250 / -100                 |
|                | F10-26 (FILLED PTFE)   | 2.10              | 12.5             | 100         | 65          | +250 / -100                 |
|                | F10-15 (NAT PEEK)      | 1.30              | **90             | **88        | *94         | +240 / -60                  |
|                | DUPONT™ VESPEL® SP21   | 1.42              | **62             | **5.5       | *80         | +300 / -250                 |
|                | F10-14 (PCTFE)         | 2.1               | 30               | 50          | 75          | +150 / -250                 |
|                | F10-27 (POLYAMIDE)     | 1.14              | 80               | 10          | 80          | +120 / -40                  |

**F10-XX Material Norsok M-710 ED.3 and API 6A approved available on demand.**

PTFE and TECHNOPOLYMERS special formulations available on demand. For any further information please contact our technical office.

\*Rockwell Hardness scale M in compliance with Standard ASTM D785.

\*\*Ultimate tensile strength and Ultimate elongation in compliance with Standard ISO 527.

Whilst data and information given here are the result of our considerable experience, they are only intended as a guide line and Fluorten s.r.l. can accept no responsibility either for the results obtained from this information or for situations in conflict with any existing patents.

### FLUORTEN PRODUCES:

