

**XLINE**  
PERFECTION | QUALITY | PERFORMANCE

## FPR 2c / FPR 6c XLINE Fluid Pressure Regulators



FPR 2c



FPR 6c

The XLINE fluid pressure regulators FPR 2c and FPR 6c are the calibratable versions of our new XLINE regulator series. Our fluid pressure regulators are preset to the same application rate on delivery (tested with deionised water) to ensure that tolerance-related inaccuracies between several regulators are ruled out. The adjustment possibilities of the fluid pressure regulator are marked with a sealing wax after the function test. This ensures that the fluid pressure regulators have the same dynamic outlet pressure and flow rate in the production process, and that this can be adjusted.

Our XLINE production and testing procedures enable us to integrate complete functional testing of the new XLINE FPR 2c and FPR 6c fluid pressure regulators into our process.

- Modern & Compact Design
- Long Lasting Components
- Three reduction ratios available
- Stable and accurate at very low fluid pressure
- Easy exchange to change the reduction ratio
- Pressure fluctuations compensated in a highly dynamic manner when switching diaphragm pumps
- All material-carrying parts made of stainless steel (except diaphragm)
- Ball seat optionally available in Tungsten Carbide
- Easy cleaning process when changing material
- Optional quick-flush control function available for cleaning process
- Easy exchange of the valve cartridge
- Fine adjustment for precise material quantity

### Technical information

#### Dimensions:

FPR 2c:  
Width with fastening 54.5 mm,  
Height 86 mm, Ø 49 mm

FPR 6c:  
Width with fastening 124.5 mm,  
Height 108 mm, Ø 83 mm

#### Connections:

FPR 2c:  
Material connections: 1/4" male  
optional 3/8" male

FPR 6c:  
Material connections: 3/8" male  
optional 1/4" male

#### Weight:

FPR 2c: approx. 380 g  
FPR 6c: approx. 1,490 g

#### Maximum flow rate:

(tested in a 1:1 ratio with water and an 8/6 material hose)

FPR 2c: 3,8 l/min

FPR 6c: 11,1 l/min

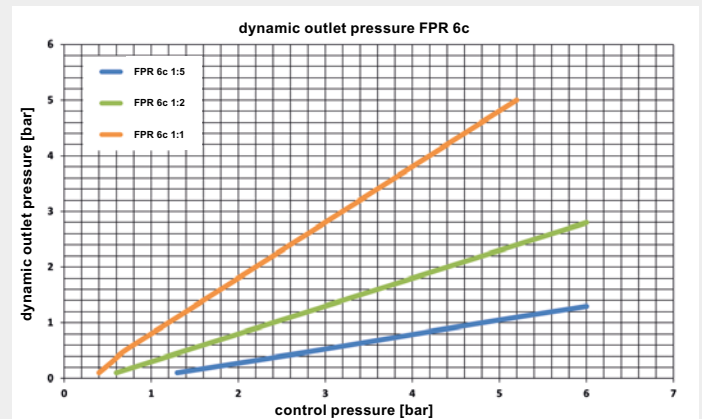
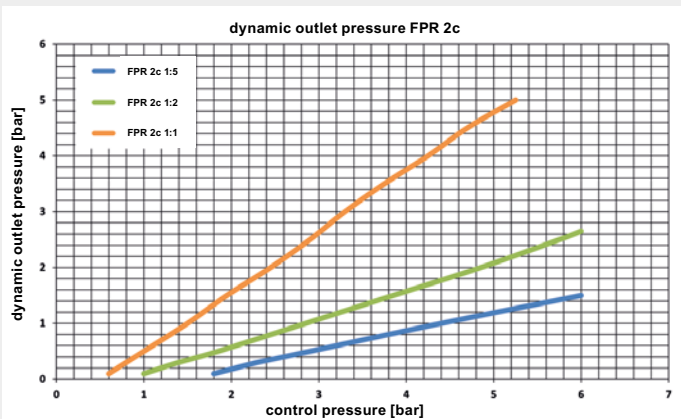


As of a control pressure of 0.4 to 0.5 bar, the material pressure can be set, controlled and regulated from 0.1 bar, depending on the reduction ratio installed.

The fluid pressure regulator can optionally be fitted with a quick-flush feature. This feature reroutes control air straight onto the material diaphragm through a quick-flush connection. This opens the valve without affecting the control air setting.

## FPR 2c and FPR 6c

- For a dynamic outlet pressure of 0.1 – 1.2 bar, we recommend the ratio 1:5
- For a dynamic outlet pressure of 1.0 – 2.2 bar, we recommend the ratio 1:2
- For a dynamic outlet pressure of 2.0 – 5.0 bar, we recommend the ratio 1:1



**Diagram:** Sample values (may vary depending on calibration)

**Test conditions FPR 2c and FPR 6c:** Material nozzle size 0.5 mm, spray gun A16, material inlet pressure 5 bar, regulator directly on A16, material hose PK-8/6, Air hose PK-6/4, device open time 20 s, medium: water



The valve cartridge can be quickly and efficiently removed from the XLINE FPR fluid pressure regulator and be replaced.

The valve cartridge contains the ball, the ball seat and the spring.