

**Date:**

**7<sup>th</sup> July 2015**

**Issue: AS**

**Compressed Air Guidance –  
XPress Fittings**



**Pegler Yorkshire**

XPress Press Fit Systems are suitable for installation onto compressed air applications. The below guidance is designed to provide recommendations regarding material and O ring compatibility with different compressed air systems, with consideration to the quality of compressed air required, the types of oils used in systems and the level of residual oil that may still be present.

The below tables are intended to provide assistance when selecting an XPress system for use on a compressed air application:

System Material	Copper	Copper
O Ring Material	EPDM (S100)	FPM (SV100)
Operating Pressure	Max. 16 bar*	Max. 16 bar*
Operating Temperature	-20 to 110°C	-20 to 200°C**
Oil Content	Max. 25 mg/m <sup>3</sup> , Class 5 ISO 8573 Part 1	Greater than 25 mg/m <sup>3</sup> , Class 5 ISO 8573 Part 1
Considerations	EPDM (black) O rings can only be used for synthetic oil or dry compressed air systems.	FPM O rings are suitable for use with mineral oil.

System Material	Stainless Steel	Stainless Steel
O Ring Material	EPDM (S100)	FPM (SV100)
Operating Pressure	Max. 16 bar - 12 to 54mm* Max. 10 bar - 76.1 to 108mm	Max. 16 bar - 12 to 54mm* Max. 10 bar - 76.1 to 108mm
Operating Temperature	-35 to 135°C	-20 to 200°C**
Oil Content	Max. 25 mg/m <sup>3</sup> , Class 5 ISO 8573 Part 1	Greater than 25 mg/m <sup>3</sup> , Class 5 ISO 8573 Part 1
Considerations	EPDM (black) O rings can only be used for synthetic oil or dry compressed air systems.	FPM O rings are suitable for use with mineral oil.

**Date:**

**7<sup>th</sup> July 2015**

**Issue: AS**

**Compressed Air Guidance –  
XPress Fittings**



Pegler Yorkshire

System Material	Carbon Steel	Carbon Steel
O Ring Material	EPDM (S100)	FPM (SV100)
Operating Pressure	Max. 16 bar - 12 to 54mm* Max. 10 bar - 66.7 to 108mm	Max. 16 bar - 12 to 54mm* Max. 10 bar - 66.7 to 108mm
Operating Temperature	-35 to 135°C	-20 to 200°C**
Water Content	Max. 880 mg/m <sup>3</sup> , Class 3 ISO 8573 Part 1	Max. 880 mg/m <sup>3</sup> , Class 3 ISO 8573 Part 1
Oil Content	Max. 25 mg/m <sup>3</sup> , Class 5 ISO 8573 Part 1	Greater than 25 mg/m <sup>3</sup> , Class 5 ISO 8573 Part 1
Considerations	EPDM (black) O rings can only be used for synthetic oil or dry compressed air systems.	FPM O rings are suitable for use with mineral oil.

\*The max. operating pressure is the maximum operating pressure a system is designed to withstand. When using compressed air at high pressures, all relevant safety aspects need to be fully considered.

\*\*Please refer to the Exposure Table printed on page 135 of the Xpress data book for additional guidance regarding running systems at high temperatures.

On completion, compressed air pipeline systems must be properly tested. The system designer and installation contractor must ensure safe methods are selected for system testing which will comply with all current health and safety regulations. This may include testing compressed air lines with fluids or compressed air at a limited pressure, or a combination of both.

After the installation the compressed air installation should be pressure tested according to the valid local guide lines. In any event we do not recommend the maximum working pressure of the product to be exceeded during this procedure.

XPress systems from Pegler Yorkshire qualify for a 25 year guarantee (10 years for Carbon Steel) when installed in accordance with our instructions on specified applications.