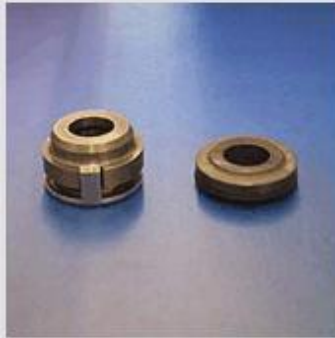




## R744 seals for air conditioner compressors



The seal offered by Burgmann for the future generation of CO<sub>2</sub> air conditioner compressors is a reliable sealing system, which will meet even the most stringent requirements imposed on seal impermeability [seal integrity]. The requirements call for leakage not exceeding 1 g of oil per year combined with a maximum gas leakage of 10 g per year. We succeeded in meeting these requirements by combining our many years of design experience in this field with the selection of appropriate seal geometries and materials. This sealing system is currently used for compressor prototypes. It is patent-protected.

### Technical data

Medium:	CO <sub>2</sub> / oil mixture
Temperature:	-40 ... +200 °C
Operating pressure:	10 ... 100 bar
Speed:	10 ... 9,000 min <sup>-1</sup>
Power consumption:	< 100 W
Oil leakage:	1 g/a
CO <sub>2</sub> leakage:	10 g/a
Patent No:	DE 202128482 DE 202125424 DE 19903067.7 EP 1024319 DE 201 2 966.7

### Inquiry

Send your inquiry to Burgmann