

GW Seal: a single compound for gas and water applications

Parker's "GW Seal" is suitable for applications in both water and gas. A single o-ring version now suffices to seal threaded connections, press fittings and flanges. The resulting benefits for the user: reduction of procurement and storage costs as well as elimination of the risk of mix-ups during assembly.

The newly developed HNBR N8888-70 compound has been tested by DVGW (German Association for Gas and Water) and confirmed to fully conform to EN 549, Class D2H3, the standard specifying the requirements and testing procedures for elastomer compounds used in gas equipment and systems. Residual leak tightness in case of fire according to DVGW standard VP614 has been confirmed as well. The yellow colour of the material serves as a clear identifier for gas applications.

O-rings made from N8888-70 are also suitable for use in cold and hot water applications. Conformance of compound properties to the specifications of EN 681-1 is guaranteed. The compound's suitability with regard to the specific requirements established for contact with drinking water has been confirmed by the German drinking water (KTW) approval.

In addition to superior media resistance, its low compression set makes the GW Seal ideally suited for permanent and safe sealing of gas and water supply systems.



GWSeal



Compound approvals:

- ❑ KTW: hot and cold water, according to KTW recommendation 1.3.13 issued by the German Federal Health Agency (Bundesgesundheitsamt)
- ❑ EN681-1: compound requirement specified for water supply and drainage pipework/plumbing
- ❑ EN549: elastomer compounds for seals and membranes/diaphragms in gas components, equipment and systems
- ❑ VP614: inseparable pipe joints/connectors/fittings for gas mains; press fittings (fire test 650 °C / 30 min)

User benefits:

- ❑ Simplified warehousing/storage since only one compound has to be held in stock
- ❑ Exclusion of mix-ups during assembly
- ❑ The compound's yellow colour easily identifies the o-ring to match it up with its major application, "gas"
- ❑ Low compression set for excellent long-term sealability

Physical data:

Colour	yellow
Hardness (Shore A)	70
Operating temperature range (°C)	-40 / +150
Temperature range acc. to EN 549 D2H3 (°C)	-20 / +125
Tensile strength (MPa)	15.8
Ultimate elongation (%)	250
Compression set 24 h / 125 °C (%)	8
Tear strength (N/mm)	36

Development partners:



Subject to change



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