



# VALVOGRAPH RINGS V48

## Composition

Flexible Mineral Graphite with varying degrees of purity and technical requirements, with ring densities ranging from 1.40 to 1.70 gr/cm<sup>3</sup> according to the ring requirements and its dimension.

## Characteristics

The Valvograph department is able to produce tailor made die-formed graphite rings from 10.0 to 2,000.0 mm for different applications.

The gaskets are codified V48, V48R if energised and V48 OXY BAM approved for oxygen service.

## Applications

Graphite die-formed rings for industrial Valves. They are suitable for a variety of industrial applications that require reliable and durable performance.

## Tech Data

Typical properties of the Valvograph rings Style V48Z	Units	Value
Density	g/cm <sup>3</sup>	1.40 ÷ 1.70
Ash content	%	≤ 0.15
Carbon content	%	≥ 99.85
Chloride content	ppm	≤ 10
Fluoride content	ppm	≤ 10
Halogen content	ppm	≤ 40
Sulfur content	ppm	< 300
Oxidation rate at 670°C	%	< 4
Oxidation inhibitor	-	Y
Passive corrosion inhibitor	-	Y
Dimensions	mm	10 ÷ 2300
Temperature Range	°C	-200 ÷ 450 / 650
pH	-	0 ÷ 14

Tolerances (mm)	Out. D.	Inn. D.	Th.	Wall	Bulk Density
up to 250 mm	[-0,20 ÷ 0,00]	[-0,00 ÷ 0,20]	+/- 0,20	[-0,20 ÷ 0,00]	+/- 5,00%
from 251 to 500 mm	[-0,25 ÷ 0,00]	[-0,00 ÷ 0,25]	+/- 0,20	[-0,25 ÷ 0,00]	+/- 5,00%
from 501 to 750 mm	[-0,30 ÷ 0,00]	[-0,00 ÷ 0,30]	+/- 0,25	[-0,30 ÷ 0,00]	+/- 5,00%
from 751 to 2300 mm	[-0,40 ÷ 0,00]	[-0,00 ÷ 0,40]	+/- 0,75	[-0,40 ÷ 0,00]	+/- 7,00%

- The peak temperature can be sustained for short exposures
- With weakly oxidizing agents and hot air the temperature must be limited to 450 °C
- With steam and non-oxidizing fluids the temperature must be limited to 650 °C
- Graphite and carbon cannot be used with oxidizing fluids
- If used in the stuffing box above 100 bar, the product must be employed with anti-extrusion rings or in its reinforced version.
- The dimensional tolerances of the molded products refer to the Carrara Spa standard, unless otherwise agreed.



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## Valvograph Rings V48

To answer to the significant expansion of the industrial valve market, Carrara has organized its Valvograph Ring production according to the most modern requirements. Carrara has designed its production facilities to flexibly meet customer needs and, thanks to a substantial equipment fleet and a modern, precise production schedule, it can manage production batches ranging from a few pieces to thousands, using high-quality materials.

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