

⑨ Oxygen

Point of View : Gaskets using fluoro-resin, which is a non-combustible resin, are selected.

Point : If paste is used, the new VALFLON paste is recommended when the temperature is 100°C or below.

Temperature (°C)	Pressure (MPa)	Recommended Gasket (VALQUA No.)	Other Usable Gasket (VALQUA No.)	Page	
				Recommended	Others
200	1.0	SF300 High Performance Non-asbestos Sheet Gasket	UF300, MF300, 7596	8	8, 28
-200 ~ -30	1.0	7020 Fluorocarbon Resin Sheet Gasket	SF300 (For white), UF300, MF300 (For white), 7596	15	8, 28
-30 ~ 100	2.5		—		
300	8.5	7596 Spiral Wound Gasket	540	28	35
-200 ~ -30	10		—		

⑩ Extremely low temperature fluid

Point of View : Expanded graphite that does not become brittle material even at extremely low temperatures is selected.

Point : The High Performance Non-asbestos Sheet Gasket can be used up to about -200°C.

Temperature (°C)	Pressure (MPa)	Recommended Gasket (VALQUA No.)	Other Usable Gasket (VALQUA No.)	Page	
				Recommended	Others
-200	1.0	MF300 High Performance Non-asbestos Sheet Gasket	VF-35E, 7020	8	23, 15
-240	2.0	VF-35E Expanded Graphite Sheet Gasket	6596VC, 7596	23	28
-270	10	6596VC Spiral Wound Gasket	7596 (Up to -260°C)	28	

■ Other Items that Shall be Considered When Making a Selection ■

- Gasket tightening stress
- Gasket dimensions
- Combination of gasket and flange face
- Flange face surface roughness
- Precautions for various gaskets

■ Fluids that Require Attention When Making a Selection ■

- Oxygen and gas susceptible to burning

Gaskets using flammable materials shall be avoided, and the PTFE filler Spiral Wound Gasket, PTFE-based Gasket, Copper-made Jacket Gasket and Metallic Flat Gasket are recommended.
- Polymerizable monomers

There are occasions when polymerizable monomer such as a styrene monomer and vinyl chloride monomer cannot use the Compressed Non-asbestos Fiber Sheet or PTFE-based Gasket. Please select the Spiral Wound Gasket with inner and outer rings and the Metallic Gasket.
- Fluids that include slurry

Soft gaskets could get damaged or leak due to erosion. Please select the Spiral Wound Gasket with inner and outer rings and the Metallic Gasket.
- Heat transfer oil

The Compressed Non-asbestos Fiber Sheet could leak due to a deteriorated rubber binder. Furthermore, due to its high permeability, the Spiral Wound Gasket with inorganic paper filler could leak if used for years. Please select the Sheet Gasket with expanded graphite or Spiral Wound Gasket with expanded graphite filler. Please note that HTS cannot be used since it reacts with expanded graphite. Please contact us for more information.
- Radioactive Fluid

PTFE is not recommended since it is sensitive to radiation. Expanded graphite has 1x10⁶Gy radiation resistance. Please confirm the radiation level and make a selection.