



Declaration of conformity

We hereby confirm that the Bee series with BAM-tested non-metallic seal materials listed below are suitable for oxygen applications under the specified operating limits (pressure/temperature).

max. Pressure / Temp.	Materials of Body / Cap, Components and Seals	Nonmetallic sealing materials combustible in oxygen		Order information
		Ball seal	Stem seal / Body seal	
≤ 10 bar	Kupferlegierungen mit min. 55% Cu Gehalt	PTFE	PTFE	095
≤ 16 bar -20°C to +60°C	GGG40.3 GJS400-18 1.0619 Cr-Ni Stähle with min. 22% Cr +Ni	PTFE TFM1600 TFM4105	FKM VR1	87S + FFS-Option KSL75 + FFS75-Option KSL77 + FFS77-Option 71MS + DS71M-C 71ME + DS71M-C
≤ 20 bar -20°C to +60°C	Kupferlegierungen mit min. 55% Cu Gehalt	PTFE Inoflon230 TFM1600 TFM4105	FKM VR1 Loxal 85-86	982D02 984D020GF
≤ 30 bar -20°C bis +60°C	Cr-Ni Stähle mit min. 22% Cr +Ni	TFM1600 TFM4105	TFM1600 FKM VR1	87E + FFS-Option
≤ 40 bar -30°C bis +60°C	Cr-Ni Stähle mit min. 22% Cr +Ni	TFM1600	TFM1600	71ME + DS71M-C1

List of non-metallic materials referring to leaflet M 034 „Oxygen“BAM BG-M034-1

Limit values

Bee sealing material:

PTFE Inoflon 230	30 bar 60°C
PTFE TFM 4105	50 bar 60°C
PTFE TFM 1600	40 bar 100°C
FKM VR1	30 bar 60°C

Anaerobic sealant

Loxal 85-86	20 bar 60°C
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Lubricant

Fuchs Gleitmo 591 (OX)	60 bar 60°C
Klüberalfa YV 93-302	260 bar 60°C

All ball valves are oil grease free and glue with a lubricant approved for oxygen.

The following measures are taken after assembly to protect the ball valves against contamination.

Flanged ball valves are protected by caps or placed in vacuumed plastic bags, Ball valves with thread connection are protected by plastic bags.

Marking: with label „free of oil and grease for oxygen“

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