

# MANUFACTURERS DECLARATION

## CABLE GLANDS SPRINT RW

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declares that the following products:

Product designation:	SPRINT cable glands, series **SKV(-L) **(-**)(****) RW and accessories
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suitable for use in railway applications.

The cable glands \*\* SKV(-L) \*\* (- \*\*) (\*\*\*\*) RW are in the sense of the standard DIN EN 45545-2: 2013 / EN 45545-2: 2013 "Non-listed components" with an exposed area  $\leq 0,20 \text{ m}^2$ . For indoor applications the requirements set R22 applies, for outdoor applications R23. The following limit values must be met by the combustible materials of the cable glands with regard to the individual hazard levels:

Requirements set		R22			R23		
Hazard Level		HL1	HL2	HL3	HL1	HL2	HL3
Oxygen index	OI $\geq 28 \%$	$\geq 28 \%$	$\geq 28 \%$	$\geq 32 \%$	$\geq 28 \%$	$\geq 28 \%$	$\geq 32 \%$
Smoke generation	$D_{Smax} \leq 600$	$\leq 600$	$\leq 300$	$\leq 150$	----	$\leq 600$	$\leq 300$
Gas analysis	$CIT_{NLP} \leq 1,2$	$\leq 1,2$	$\leq 0,9$	$\leq 0,75$	----	$\leq 1,8$	$\leq 1,5$

The fire behaviour of the non-metallic materials of the cable glands \*\*SKV(-L) \*\*(-\*\*)(\*\*\*\*) RW are tested according to DIN EN 45545-2:2013 / EN 45545-2:2013. The following results shall be achieved (date of the test below the value):

material	Oxygen index OI	Smoke generation $D_{Smax}$	Gas analysis $CIT_{NLP}$
Frianyl B3 V0	OI $\geq 32,0\%$ (2018-12-11)	$D_{Smax} = 99$ (2018-10-30)	$CIT_{NLP} = 0,57$ (2018-11-21)
Frianyl B3 GF30 V0	OI $\geq 32,0\%$ (2019-07-19)	$D_{Smax} = 145$ (2019-08-20)	$CIT_{NLP} = 0,55$ (2019-08-27)
EPDM1360001-2317	OI = 32,6% (2015-06-25)	$D_{Smax} = 128 (62)$ (2015-06-25)	$CIT_{NLP} = 0,07 (0,19)$ (2015-06-25)
TPE RW-A55-K	OI = 40,5% (2019-09-12)	$D_{Smax} = 91$ (2019-09-16)	$CIT_{NLP} = 0,23$ (2019-10-03)

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Classification of the cable gland series to requirements and hazard levels:

Cable gland series	R22	R23	R24
EMSKV(-L) **(-**) RW	HL3	HL3	HL3
EMSKV(-L) **(-**) MFD **-*** RW	HL3	HL3	HL3
EMSKV(-L) **(-**) LT RW (M12 ... M40)	HL3	HL3	HL3
ESKV(-L) ** RW	HL3	HL3	HL3
ESKV(-L) ** MFD **-*** RW	HL3	HL3	HL3
ESSKV(-L) (-4) **(-**) RW	HL3	HL3	HL3
ESSKV(-L) (-4) **(-**) MFD **-*** RW	HL3	HL3	HL3
ESSKV(-L) (-4) **(-**) LT RW (M12 ... M40)	HL3	HL3	HL3

Classification of the cable gland accessories to requirements and hazard levels:

Accessorie	R22	R23	R24
Locknuts EMUF **	HL3	HL3	HL3
Stop ends EVSF **	HL3	HL3	HL3
Blind plugs BS **	HL3	HL3	HL3
Blind sealing inserts VFD ** RW	HL3	HL3	HL3
Elbows EWI90 ** **	HL3	HL3	HL3

Furthermore the SPRINT cable gland series \*MSKV \*\*(-\*\*)(\*\*\*\*\*) with different cable combinations (combination list in the test certificate) are tested according to DIN EN 45545-3:2013-08, fire resistance. This is the verification of classification E15 and E30 in vertically and horizontal position, in each built-in-direction according to the time-temperature-curve (TTC) according to DIN EN 1363-1:2012-10.

  
 WISKA Hoppmann GmbH  
 Peter Gehre  
 Development & Innovation  
 Kaltenkirchen, 2020-03-06

