

APPLICATION MANUAL

N-L4437

Updated 22.10.2021

Stopping plug SP



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NOTE OF SAFETY

Stopping plugs are designed to close unused entries. If used incorrectly it is possible that application-related dangers may arise.

Stopping plugs should be used under strict observance of these application manual and relevant standards, legal requirements, and, where appropriate the certificate.

1. DESTINATION

• **Marking:**

2014/34/UE	IECEX
II 2G Ex db IIC T3 Gb	Ex db IIC T3 Gb
II 2G Ex eb IIC T3 Gb	Ex eb IIC T3 Gb
II 2D Ex tb IIIC T150/180°C Db	Ex tb IIIC T150/180°C Db
I M2 Ex db I Mb	Ex db I Mb
I M2 Ex de I Mb	Ex de I Mb

• **Standards:**

ATEX 2014/34/UE
 EN 60079-0, EN 60079-1,
 EN 60079-7, EN 60079-31,
 IEC 60079-0, IEC 60079-1,
 IEC 60079-7, IEC 60079-31

• **Possible application**

Zones	
Zone 1	Zone 21
Zone 2	Zone 22

• **Ambient temperature:**

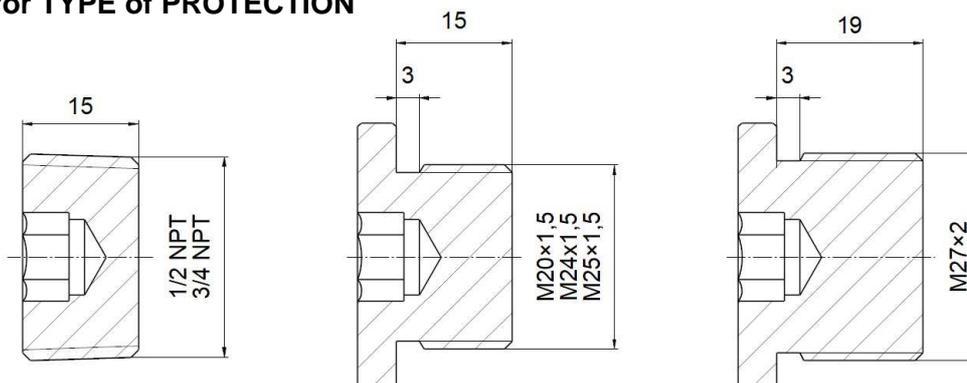
O-ring VMQ rubber	O-ring FKM rubber
-60 to + 150 °C	-20 to + 180 °C

• **Service temperature:**

O-ring VMQ rubber	O-ring FKM rubber
-60 to + 150 °C	-20 to + 180 °C

! Stopping plugs must not be used with a thread adapter or reducer !

2. JOINTS for TYPE of PROTECTION



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Ex db		
Thread type	No. of threads	Customer responsibility
M20x1.5 6g M24x1.5 6g M25x1.5 6g M27x2 6g	8	6H of female thread
		min 5 threads engaged
		min 8mm depth of engagement
As the SP has undercut, non-detachable and non-compressible washer or equivalent device shall be fitted to ensure the required length of thread engagement.		
½NPT ¾NPT acc. to ANSI/ASME B1.20.1	7	min 5 threads of female thread
		min 4,5 fully engaged threads

Ex tb		
Plugs can be used only with threaded entries		
Thread type	No. of threads	Customer responsibility
M20x1.5 6g M24x1.5 6g M25x1.5 6g M27x2 6g	8	6H of female thread
		min 5 threads engaged without sealing
		less than 5 threads engaged WITH sealing
½NPT ¾NPT acc. to ANSI/ASME B1.20.1	7	min 3 ½ threads engaged without sealing
		min 3 threads engaged WITH sealing

Ex eb
Plugs can be used only with threaded entries

3. PROTECTION DEGREE

Threaded connection sealing	Possible IP
Without sealing - standard accuracy class thread	54
Use of a sealant, e.g. Loctite 577	68
Thread tightened with O-ring	68
! Warning !	
Change the sealing every time when the stopping plug is unscrewed from enclosure.	

! Min 5 threads of engagement must be observed for M threads and 3,5 threads in engagement for NPT threads to ensure tightness and degree of protection IP66 / IP68 !

4. WAY OF MOUNTING



5. MARKING

