

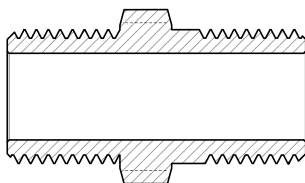
FLAMEPROOF EX D • INCREASED SAFETY EX E • FOR INDOOR & OUTDOOR APPLICATIONS



## EXAMPLE CODE

N.	I20.	N25.	ON
Nipple Type	Male Thread code <i>See tab. page 19</i>	Male Thread code <i>See tab. page 19</i>	Material code
<b>OT</b>	Brass		
<b>ON</b>	Nickel-plated brass		
<b>S6</b>	AISI316L Stainless steel		
<b>AL</b>	Aluminium		

## TECHNICAL DRAWING



### Nipple Male-Male adaptors (code: N)

The adaptors are also available in version male-male, suitable to transform the cable entries from female to male. Can also be used to connect different types or dimensions of thread. The exagonal adaptors fit spanners up to 55 mm while the cylindrical ones fit larger sizes.

### Main regulatory requirements:

The user has to use only one adaptor for the assembly of a cable entry. The user mustn't close an adaptor or a coupling with a plug. These accessories are intended for the assembly of a cable entry only. Accessories in aluminium are suitable only for Group II (Surface).

**Application fields** Surface - Group II • Mines - Group I

### Approvals / Certifications

ATEX INERIS 12 ATEX 0089X  
IEC Ex: IEC Ex INE 10.0014X  
EAC: RU C-IT.АЯ 45.В.00909  
CCC Ex NEPSI Certificate: Nr. 2021322313003705

### Protection type

Ex db IIC • Ex eb II (gas) • Ex tb IIIC (dusts) • Ex db I • Ex eb I (mines)

### EPL (Equipment protection level)

**Zone 1-2:** Mb mines • Gb, Gc gas  
**Zone 21-22:** Db Dc combustible dusts

### Execution

Ex db IIC • Ex eb II • Ex tb IIIC • Ex db I • Ex eb I Db according to  
**ATEX:** EN IEC 60079-0:2018 • EN 60079-1:2014 • EN IEC 60079-7:2015/A1:2018 • EN 60079-15:2010 • EN 60079-31:2014 • EN 60529:1991  
**IEC Ex:** IEC 60079-0:2017 • IEC 60079-1:2014 • IEC 60079-7:2015/A1:2017 • IEC 60079-15:2017 • IEC 60079-31:2013 • IEC 60529:1989+A1:1999+A2:2013

### Ambient temperatures in services: sealing washers materials

Nylon sealing washer -40°C ÷ + 100°C  
Silicone sealing washer -65°C ÷ + 220°C  
PTFE sealing washer -65°C ÷ + 220°C  
Without sealing washer -70°C ÷ +400°C

### Available materials

Brass (code: **OT**) • Nickel-plated brass (code: **ON**)  
AISI316L Stainless steel (code: **S6**) • Aluminium (code: **AL**)

### Available threads

ISO 262 Metrical • ISO 228 • DIN 40430 Pg  
ANSI B1.20.1 NPT • EN 10226 Gk (only for ATEX)

### Degree of protection

The cable glands degree of protection is **IP66** or **IP66/68**, 30-meters depth for 7 days according to the IEC EN 60529 standard; the degree of protection IP 68 is obtained by using flat sealing rings on cable glands with cylindrical threads. Without gaskets, the degree of protection is IP 66. If the cable glands with cylindrical or tapered threads are screwed on the threaded hole of an apparatus, in order to guarantee an IP66 or IP66/68 degree of protection, threaded parts must be sealed with Loctite or similar. In order to maintain the IPX8 degree of protection, the cable entry shall be fitted on enclosure witch satisfies an immersion test under 30 meters of water during 7 days. Metric cable glands are made in accordance to EN 62444 Standard.

## AVAILABLE COMBINATIONS

See table "A" Adaptors - page 124



# Table of protection modes of adaptors, nipples and couplings

ALUMINIUM

Ex db + Ex eb + Ex nR  
 Ex eb + Ex nR

	FEMALE										MALE																																																	
	ISO 262					ISO 228					DIN 40430					NPT					EN 10226																																							
	M12x1,5	M16x1,5	M20x1,5	M25x1,5	M32x1,5	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1"1/4	G1"1/2	G2"	G2"1/2	G3"	Pg7	Pg9	Pg11	Pg13,5	Pg16	Pg21	Pg29	Pg36	Pg42	Pg48	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1"1/4 NPT	1"1/2 NPT	2" NPT	2"1/2 NPT	3" NPT	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"												
ISO 262	M12x1,5	M16x1,5	M20x1,5	M25x1,5	M32x1,5	M40x1,5	M50x1,5	M63x1,5	M75x1,5	M90x2	M12x1,5	M16x1,5	M20x1,5	M25x1,5	M32x1,5	M40x1,5	M50x1,5	M63x1,5	M75x1,5	M90x2	M12x1,5	M16x1,5	M20x1,5	M25x1,5	M32x1,5	M40x1,5	M50x1,5	M63x1,5	M75x1,5	M90x2	M12x1,5	M16x1,5	M20x1,5	M25x1,5	M32x1,5	M40x1,5	M50x1,5	M63x1,5	M75x1,5	M90x2	M12x1,5	M16x1,5	M20x1,5	M25x1,5	M32x1,5	M40x1,5	M50x1,5	M63x1,5	M75x1,5	M90x2										
ISO 228	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1"1/4	G1"1/2	G2"	G2"1/2	G3"	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1"1/4	G1"1/2	G2"	G2"1/2	G3"	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1"1/4	G1"1/2	G2"	G2"1/2	G3"	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1"1/4	G1"1/2	G2"	G2"1/2	G3"	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1"1/4	G1"1/2	G2"	G2"1/2	G3"					
DIN 40430	Pg7	Pg9	Pg11	Pg13,5	Pg16	Pg21	Pg29	Pg36	Pg42	Pg48	Pg7	Pg9	Pg11	Pg13,5	Pg16	Pg21	Pg29	Pg36	Pg42	Pg48	Pg7	Pg9	Pg11	Pg13,5	Pg16	Pg21	Pg29	Pg36	Pg42	Pg48	Pg7	Pg9	Pg11	Pg13,5	Pg16	Pg21	Pg29	Pg36	Pg42	Pg48	Pg7	Pg9	Pg11	Pg13,5	Pg16	Pg21	Pg29	Pg36	Pg42	Pg48	Pg7	Pg9	Pg11	Pg13,5	Pg16	Pg21	Pg29	Pg36	Pg42	Pg48
NPT	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1"1/4 NPT	1"1/2 NPT	2" NPT	2"1/2 NPT	3" NPT	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1"1/4 NPT	1"1/2 NPT	2" NPT	2"1/2 NPT	3" NPT	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1"1/4 NPT	1"1/2 NPT	2" NPT	2"1/2 NPT	3" NPT	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1"1/4 NPT	1"1/2 NPT	2" NPT	2"1/2 NPT	3" NPT	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1"1/4 NPT	1"1/2 NPT	2" NPT	2"1/2 NPT	3" NPT					
EN 10226	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"					