



ASSEMBLY FITTING INSTRUCTIONS FOR INSTALLATION OF CMP 90° ADAPTOR TYPE 787

90° ADAPTOR FOR USE IN EXPLOSIVE ATMOSPHERES TO CHANGE THE DIRECTION AND/OR SIZE OR TYPE OF A THREADED COMPONENT

INCORPORATING EU DECLARATION OF CONFORMITY TO DIRECTIVE [2014/34/EU]



Shown with optional face seal

Male Thread (mm)	Female Thread (mm)	787	Installation Torque (Nm)
16	16	787DM1M1	7
20	20	787DM2M2	7
25	25	787DM3M3	10
32	32	787DM4M4	15
40	40	787DM5M5	25
50	50	787DM6M6	30
63	63	787DM7M7	45
75	75	787DM8M8	45
90	90	787DM9M9	45
100	100	787DM10M10	45

Dimensions are displayed in millimetres unless otherwise stated



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	REVISION	DATE
IFS	12	10/20
ATEX / IECEx	6	04/19
CSA	5	-

TECHNICAL DATA

CABLE GLAND TYPE	: 787
INGRESS PROTECTION	: IP66, or IP68 when fitted with a CMP o-ring or Entry Thread Seal
PROCESS CONTROL SYSTEM	: ISO 9001 ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERE CLASSIFICATION

ATEX CERTIFICATION No	: CML 18ATEX1319U
ATEX CERTIFICATION CODE	: Ⓜ II 2 G Ex db IIC Gb, Ex eb IIC Gb, II 1 D Ex ta IIIC Da Ⓜ I M2 Ex db I Mb, Ex eb I Mb
IECEX CERTIFICATION No	: IECEX CML 18.0176U, IECEX SIM 17.0009U
IECEX CERTIFICATION CODE	: Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
cCSAus CERTIFICATION No.	: 1055233
cCSAus CERTIFICATION CODE	: Ex de II; Class I, Groups A,B,C and D; Class I, Zone 1, AEx de II; IP66, 67 and 68, Enclosure Type 4X

INSTALLATION INSTRUCTIONS

1. Installation should only be performed by a competent person using the correct tools. Ensure thread type and size are compatible with the associated enclosure/fitting threads. Fully tighten threads, ensuring that the adaptor is pointing in the correct direction once tightened. If fitted to a clearance hole using a locknut, hold the 787 adaptor with a spanner and tighten the locknut.
2. The interface between a cable entry device and its associated enclosure/cable entry will require additional sealing to achieve ingress protection (IP) ratings higher than IP54. The minimum protection level is IP54 for explosive gas atmospheres and IP6X for explosive dust atmospheres. Parallel threads (and tapered threads when using a non-threaded entry) require a CMP sealing washer or integral o-ring face seal (where available) to maintain IP66, 67 and 68 (when applicable). It is the installer's responsibility to ensure the IP rating is maintained at the interface.
Note: When fitted to a threaded entry, all tapered threads will automatically provide an ingress protection rating of IP68.
3. A CMP earth tag should be used when it is necessary to provide an earth bond connection. CMP earth tags have been independently tested to comply with Category B rating specified in IEC 62444 (there are no ratings stated in IEC 60079-0). Ratings are shown in the associated table. CMP earth tags slip over the cable gland or accessory entry thread from inside/outside the enclosure and must be secured with a locknut (if fitted internally).

SPECIAL CONDITIONS FOR SAFE USE

1. The following condition applies to all adaptors.
 - Only one adaptor shall be used per cable entry.
 - The adaptors shall be assembled in such a way that their protrusion from an associated enclosure is not increased.
 - The interfaces between a male thread of an adaptor and an associated enclosure, between a female thread of an adaptor and a cable entry device cannot be defined. Therefore, it is the installers responsibility to ensure that the appropriate ingress protection level is maintained at these interfaces.
2. The following thread forms and sizes of the machined versions of the Type 787 right-angle adaptors shall not be subjected to installation torques above the values in the tables below.

No limitations apply to the cast versions of the Type 787 right-angle adaptors.

Male Threads	Nm	Female Threads	Nm	CMP Earth Tag Size	Short Circuit Ratings Symmetrical Fault Current (kA) for 1 second
M25	53	M25	40	20	3.06
				25	4.06
				32	5.40
M32	53	M32	40	40	7.20
				50	10.40
				63	10.40
				75	10.40
M40	53	M40	80		
M90	166	M90	115		
M100	166	M100	115		

ACCESSORIES

The following accessories are available from CMP Products, as optional extras, to assist with fixing, sealing and earthing :-
Locknut | Earth Tag | Serrated Washer | Entry Thread (I.P.) Sealing Washer |

Note:

1. Female thread sizes can be up to 1 size larger than the male thread or any size smaller, e.g. 787DM1M3
2. Other materials and thread types are available, consult CMP website (www.cmp-products.com) for details.

CMP Products Limited on its sole responsibility declares that the equipment referred to herein conforms to the requirements of the ATEX Directive 2014/34/EU and the following standards: - EN IEC 60079-0:2018, EN IEC 60079-7:2015 + A1:2018, EN IEC 60079-15: 2019, EN 60079-31:2014, EN 62444:2013

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