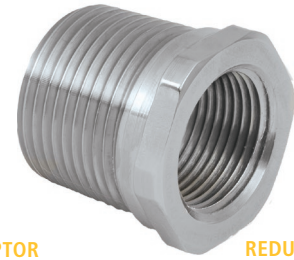




ADAPTOR



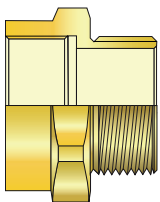
REDUCER

737

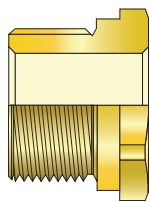


### 737 Adaptors & Reducers, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory

- Used for thread conversion
- Wide range of thread types & sizes
- General purpose / industrial version available
- Equipment interface 'O' ring seal available
- -60°C to +200°C (metallic versions)
- Reducers Globally marked:
  - IECEx, ATEX, UL & cCSAus
- Adaptors Globally marked:
  - 1 Step up in size: IECEx, ATEX, cCSAus
  - 2 Step up in size: IECEx, ATEX



CMP 737 Adaptor



CMP 737 Reducer

### HOW TO ORDER

e.g. 737-D-M-2M-3-4 = Dual Certified Ex db & Ex eb – M20 (M) x M25 (F) - Stainless Steel

Please refer to Ordering Guide Tables for reference definitions, denoting material variants. When ordering please notify CMP Products in your order if alternative approval markings are required.

When ordering Adaptors & Reducers always state the Male Thread size first.

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

It should be noted that when using CMP Type 737 Thread Conversion Adaptors and Reducers in association with Explosion Protected electrical equipment the following basic rules must be observed in line with good engineering practice:

1. For direct entry Ex db applications, only adaptor or reducer should be used per cable entry.
2. The female connection thread of a Thread Conversion Adaptor shall "step" not more than two "size" up in the case of a thread gender change. Example; M20 (M) to M32 (F) or M20 (M) to 1" NPT (F) is permitted. Whereas M20 (M) to M40 (F) or M20 (M) to 1½" NPT (F) is not permitted.

### TECHNICAL DATA

Design Specification	BS 6121:Part 1:1989
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX Certificate	CML 18ATEX1320X
Code of Protection	⊕ II 2G Ex db IIC Gb, Ex eb IIC Gb, II 1D Ex ta IIIC Da ⊕ IM2 Ex db I Mb, Ex eb I Mb (II 2G Ex eb IIC Gb, II 1D Ex ta IIIC Da only on Nylon version)
Compliance Standards	EN 60079-0,1,7,31
IECEx Certificate	IECEx CML 18.0177X, IECEx SIM 15.0002X
Code of Protection	Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da (Ex eb IIC Gb, Ex ta IIIC Da only on nylon version)
Compliance Standards	IEC 60079-0,1,7,31
cCSAus Certificate	1055233
Code of Protection	Class I, Groups A, B, C and D; IP66, 67, 68; Enclosure Type 4X; Class II groups E, F and G; Class III, Ex de II, Class I, Zone 1, AEx de II; (Not available in Nylon)
Compliance Standards	C22.2 No.0, 0.5, 30, 94, CAN/CSA E60079-0,1, 7, CAN-CSA 61241-1-1, UL50 Edition 11, UL1203 Edition 4, UL 60079-0,1,7
UL Certificate	E214221 (Reducers with NPT or Metric Threads only)
Code of Protection	Class I Groups A,B,C,D; Class II Groups E,F,G; Class III
Compliance Standards	UL 1203
EAC Certificate	TC RU C-GB.AA87.B.00487
GOST R Industrial Certificate	POCC GB. AF35.H00102 (applies to non-explosive atmosphere product only)
UkrSEPRO	UA.TR.047.C.0644-15
KCs KOSHA Certificate	14-GA4BO-0249X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ18.1254U
Compliance Standards	GB3836.1, 2, 3
INMETRO Approval	TÜV 12.1332X
RETIE Approval	03866
Marine Approvals	LRS: 01/00173, BV: 43180 A1 BV, ABS: 17-LD1619350-PDA
Continuous Operating Temperature	-60°C to +200°C (Metallic), -20°C to +60°C (Nylon)
Ingress Protection Rating**	IP66, IP67 & IP68***
Available Materials	Electroless Nickel Plated Brass, Brass, Nylon, Stainless Steel, Aluminium

\*\* When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

\*\*\* IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request



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Dimension Data Tables

- Select male thread from the left hand column of Table 'A'
- Select the female thread size from the top of Table 'A', referenced 'A\*\*' for Adaptor and 'R\*\*' for Reducer
- Using this code reference, please refer to the corresponding dimensions in Table 'B'

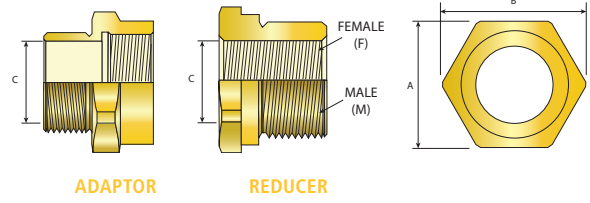


TABLE A - FEMALE THREAD SIZE

TABLE A - MALE THREAD SIZE	METRIC	METRIC										NPT									
		M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
		M16	A01	A04	A08									A03	A08						
M20	R01	A05	A07	A12								A05	A11	A15							
M25	R05	R03	A09	A14	A18							R03	A09	A16	A18						
M32	R06	R06	R06	A17	A19	A24						R06	R06	A17	A19	A24					
M40	R08	R08	R08	R08	A20	A29	A33					R08	R08	R08	A21	A25	A33				
M50	R10	R10	R10	R10	R10	A28	A35	A49				R11	R11	R10	R10	A27	A32	A42	A52		
M63		R12	R12	R12	R12	R12	A37	A48	A53			R12	R12	R12	R12	R12	A37	A44	A53		
M75		R14	R14	R14	R14	R16	R15	A47	A55	A57		R14	R14	R14	R14	R14	R14	A46	A55	A61	
M90					R19	R19	R17	R19		A60											
M100							R20	R20	R20												A58
1/2"	R02	A06	A07	A12								A02	A10	A15							
3/4"	R04	R04	A09	A16	A22							R04	A09	A16	A18						
1"	R07	R07	R07	A13	A19							R07	R07	A17	A19	A24					
1 1/4"	R09	R09	R09	R09	A20	A23						R09	R09	R09	A20	A25	A30				
1 1/2"		R10	R10	R10	R11	A26	A43					R10	R10	R10	R10	A26	A31	A41			
2"		R12	R12	R12	R12	R12	A36	A43				R12	R12	R12	R12	R12		A39	A50		
2 1/2"		R14	R14	R14	R14	R13	R13	A40				R14	R14	R14	R14	R14	R14	A45	A54		
3"		R17	R19	R19		R18	R19	R19	A56			R17		R18	R18	R18	R18	R19	A51	A59	A62
3 1/2"				R17		R20	R20	R20	R20					R20	R20	R20	R20	R20	R20		
4"						R21	R21	R21							R21	R21	R21	R21	R21	R21	

TABLE B - REDUCERS

Table A Ref.	Across Flats 'A'	Across Corners 'B'
R01	24.0	26.4
R02	27.0	29.7
R03	30.0	33.0
R04	31.5	34.7
R05	31.5	34.7
R06	37.6	41.4
R07	41.0	45.1
R08	46.0	50.6
R09	50.0	55.0
R10	55.0	60.5
R11	60.0	66.0
R12	70.0	77.0
R13	79.0	86.9
R14	80.0	88.0
R15	84.0	92.4
R16	90.2	99.2
R17	95.0	104.5
R18	98.8	108.7
R19	100.0	110.0
R20	110.0	121.0
R21	123.0	135.3
R22	127.0	139.7

TABLE B - ADAPTORS

Table A Ref.	Across Flats 'A'	Across Corners 'B'	Minimum Bore 'C'	Table A Ref.	Across Flats 'A'	Across Corners 'B'	Minimum Bore 'C'
A01	22.0	24.2	9.7	A23	55.0	60.5	32.1
A02	24.0	26.4	14.0	A24	55.0	60.5	26.0
A03	24.0	26.4	9.7	A25	55.0	60.5	32.0
A04	24.0	26.4	10.0	A26	55.0	60.5	38.0
A05	24.0	26.4	14.0	A27	55.0	60.5	43.6
A06	27.0	29.7	14.0	A28	59.8	65.8	44.2
A07	30.0	33.0	14.0	A29	60.0	66.0	32.1
A08	30.0	33.0	9.7	A30	65.0	71.5	32.0
A09	30.0	33.0	20.0	A31	65.0	71.5	38.0
A10	30.5	33.6	14.0	A32	65.0	71.5	44.2
A11	31.5	34.7	14.0	A33	70.0	77.0	32.0
A12	36.0	39.6	14.0	A34	70.0	77.0	38.0
A13	36.0	39.6	26.0	A35	70.0	77.0	44.2
A14	37.6	41.4	20.0	A36	70.0	77.0	49.0
A15	41.0	45.1	14.0	A37	70.0	77.0	53.0
A16	41.0	45.1	20.0	A38	70.0	77.0	32.1
A17	41.0	45.1	26.0	A39	79.0	86.9	49.0
A18	46.0	50.6	20.0	A40	79.0	86.9	60.0
A19	46.0	50.6	26.0	A41	80.0	88.0	38.0
A20	46.0	50.6	32.1	A42	80.0	88.0	44.2
A21	50.0	55.0	32.0	A43	80.0	88.0	49.0
A22	50.0	55.0	20.0	A44	80.0	88.0	55.0
A23	55.0	60.5	32.1	A45	80.0	88.0	60.5
A24	55.0	60.5	26.0	A46	80.0	88.0	65.0
A25	55.0	60.5	32.0	A47	84.0	92.4	68.0
A26	55.0	60.5	38.0	A48	90.2	99.2	53.0
A27	55.0	60.5	43.6	A49	90.2	99.2	42.0
A28	59.8	65.8	44.2	A50	95.0	104.5	49.0
A29	60.0	66.0	32.1	A51	95.0	104.5	75.0
A30	65.0	71.5	32.0	A52	100.0	110.0	44.2
A31	65.0	71.5	38.0	A53	100.0	110.0	55.0
A32	65.0	71.5	44.2	A54	100.0	110.0	60.5
A33	70.0	77.0	32.0	A55	100.0	110.0	64.8
A34	70.0	77.0	38.0	A56	100.0	110.0	75.0
A35	70.0	77.0	44.2	A57	110.0	121.0	61.0
A36	70.0	77.0	49.0	A58	110.0	121.0	75.0
A37	70.0	77.0	53.0	A59	110.0	121.0	75.0
A38	70.0	77.0	32.1	A60	110.0	121.0	79.3
A39	79.0	86.9	49.0	A61	110.0	121.0	68.3
A40	79.0	86.9	60.0	A62	117.5	129.3	75.0

Additional sizes available upon request  
Minimum reducer bore determined by female thread  
Dimensions displayed in millimetres

