MINI IMMERSION BREATHERS



Product Description

Mini Breathers have been designed for equipment that are limited to the amount of space available. For example, handheld radios, battery packs, remote control devices and membrane keyboards.

M3 Thread Stainless Steel Immersion Breather

This Immersion Proof Breather is the smallest unit we offer and made from stainless steel. The hydrophobic membrane allows free breathing to occur but will not allow liquids to pass through. The unit is very low profile and utilises a standard M3 metric thread for fitting. It is IP67 rated meaning the unit can be immersed in water of 1 metre for 2 hours. It comes in another type which features an O-ring groove for sealing.

M3 Thread Plastic Immersion Breather

This Immersion Proof Breather is the smallest unit we offer and made from black nylon parts which are injection moulded. The unit is very low profile and utilises a standard M3 metric thread for fitting. It is IP67 rated meaning the unit can be immersed in water of 1 metre for 30 minutes.

10-32UNF-2A Thread AA Immersion Breather

The unit is very low profile and utilises a 10-32UNF-2A thread for fitting.

Industries Served

- Aerospace
- Electronics
- Engineering
- Power & Refinery



Models Available

M3 Thread Stainless Steel Immersion Breather

















M3 Thread Plastic Immersion Breather









Mini Immersion Breather M5









10-32UNF-2A Thread AA Immersion Breather









Key Features

- · Air transfer "in & out"
- Threaded or lock nut mounted option
- · Immersion protection to 5m
- · Immersion time period up to 24hrs
- · Constant pressure equalization
- · Solvent and oil resistant
- Temperature range from -40 degrees to +125 degrees
- · High filtration efficiency
- · Choice of housing materials
- · Easy installation
- IP 67 rating



Product Specifications

- Computer Keyboards
- Meteorological Instruments
- IP Enclosures
- · Handheld Terminals
- · Battery Housings
- · Azimuth Sealed Applications
- · Roto Molded Cases

Related Products



Silica Gel



Immersion Proof Breathers



Splash Proof Breathers



Vent Breathers



THIRD ANGLE REMOVE ALL BURRS & SHARP EDGES

SHARP EDGES

3.81

2.92

0.76

NOTES

0.5/0.8 THR'D RUN OUT

1. MATERIAL: BODY - STAINLESS STEEL TO BS970 PT 1, 303S31. FINISH: CLEAN.

MEMBRANE - MODIFIED ACRYLIC COPOLYMER CAST
ON A NONWOVEN POLYESTER SUPPORT.
POST TREATED FOR HYDROPHOBICITY
THROUGH UV/E BEAM POLYMERIZATION.

2. MEMBRANE TO CONFORM TO THE FOLLOWING TEST:
MIL-STD-810E METHOD 512.3 PROCEDURE 1 AT A DEPTH OF
1 METRE FOR 2 HOURS.

MATERIAL	PROTECTIVE FINISH				
SEE NOTES					
SEE NOTES	SEE NOTES	REDRAWN	5869	В	13/12/01
				Α	5/7/01
EST. WT. —		CHANGE	MOD No	ISSUE	DATE
DIMNS IN MM	SURFACE ROUGHNESS	TOLERANCES	GEN TOL ±0.2		
SCALE 5:1	-		ANG T	OL ±	0.5°
BROWNEL	NDON NW10	A4-A5)	LJ	CHKD	
SUB CONT.		SUB CONT. DRG	REF.		
TITLE		DRAWING No			
MINI IMMERSIO	N BREATHER	BL/D	9036 11	NST	

DRG NO
BL/D 9290 INST
USED ON

REMOVE ALL SHARP EDGES
UNLESS SPECIFIED

DO NOT SCALE - ASK

Ø7.0

Ø7.0

Ø7.0

Ø7.0

PDM "O" RING

1.0

NOTES:

1. PERFORMANCE SPECIFICATION:

NOMINAL FLOW RATE: 30cc/min AT 1" Wg.

85cc/min AT 6" Wg.

OPERATING TEMPERATURE RANGE: -40°C TO +75°C. STORAGE TEMPERATURE RANGE: -50°C TO +85°C.

HUMIDITY: 0 TO 100%.

3.0 I/D X 1.0 CSD

IMMERSION: DEPTH 1 METRE FOR A DURATION OF 2 HOURS.

2. MEMBRANE MATERIAL: MODIFIED ACRYLIC COPOLYMER CAST ON A NONWOVEN POLYESTER SUPPORT. POST TREATED FOR HYDROPHOBICITY THROUGH UV/E BEAM POLYMERIZATION.

TITLE						
RED DOT = ORIGINAL BLACK DOT= COPY		LONDON	LONDON NW10 7XF		3	
		NELL LTD	DRAWN	1	CHECKED	
SCALE	5:1	-	OTHERWISE STATED		+/- (J. I
DIMS IN	mm	SURFACE TEXTURE	TOLERANCES : UNLESS	+/- 0.1) 1
EST. WT.	-	THIRD ANGLE PROJECTION	CHANGE	MOD No	ISSUE	DATE
MATERIAL 316 STAINLESS STEEL IAW BS EN 10088-3		NATURAL (CLEAN FINISH)	BREATHER HEAD REVISED - SLOT DEEPER & CHAM, ADDED	6057	3	20/08/03
			OUTER AND INNER CHAMFER CHANGED TO 0.1mmX45°	6309	4	22/05/09
			EXTERNAL CHAMFER ADJUSTED TO 0.8mm	6314	5	10/07/09
		PROTECTIVE FINISH	MATERIAL CHANGED	6744	6	17/08/15
				Total Control of the		

TITLE

DRAWING No.

MINI BREATHER

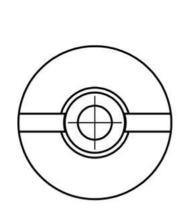
BL/D 9290 INST

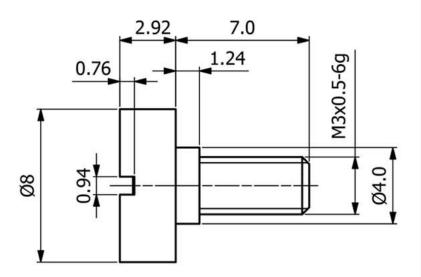
DRG No BL/D10518 INST

REMOVE ALL SHARP EDGES UNLESS SPECIFIED

DO NOT SCALE - ASK

USED ON -----





NOTES:-

MATERIAL :-

BODY - BLACK 30% GLASS FILLED NYLON 66

FINISH: CLEAN AND FLASH FREE.

2) MEMBRANE : PTFE FILTER MEMBRANE ON A POLYPROPYLENE SUPPORT.

3) BREATHER WILL WITHSTAND IMMERSION IN WATER TO A DEPTH OF 1 METRE FOR 2 HOURS WITHOUT ANY WATER INGRESS. MAXIMUM TEMPERATURE DIFFERENCE BETWEEN WATER AND BREATHER: 15°C.

LONDON NW10 7XF		PK		
RED DOT = ORIGINAL BLACK DOT= COPY BLACK DOT= COPY		DRAWN	1 (CHECKED
3.2µm	OTHERWISE STATED	±0.2		2
SURFACE TEXTURE	TOLERANCES : UNLESS	103)
THIRD ANGLE PROJECTION	CHANGE	MOD No	ISSUE	DATE
	ORIGINAL		1	05-01-09
NATURAL		0		
PROTECTIVE FINISH				
	PROTECTIVE FINISH	PROTECTIVE FINISH	PROTECTIVE FINISH	PROTECTIVE FINISH

MINI IMMERSION
BREATHER (PLASTIC)

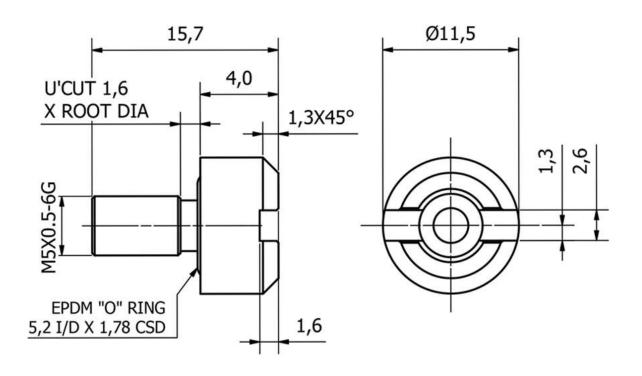
DRAWING No.

BL/D10518 INST

DRG No
BL/D12424 INST
USED ON ------

REMOVE ALL SHARP EDGES UNLESS SPECIFIED

DO NOT SCALE - ASK



BLACK DOT= COPY		LONDON NW10 7XF		KD				
RED DOT = ORIGINALI			NELL LTD		DRAW!	V	CHECKED	
SCALE	5:1	OTHERWISE STATED						
DIMS IN	mm	TOLERANCES UNLESS	SURFACE TEXTURE	ANG	GULAR DI	MS L	INEAR DIMS	
EST. WT.		THIRD ANGLE PROJECTION	CHANGE		MOD No	ISSU	E DATE	
100	88-3		ORIGINAL			1	24/11/16	
	AW BS EN	NATURAL						
	AINLESS	PROTECTIVE FINISH				_	1	
MATE	DTAI	PROTECTIVE FINISH						

TITLE

MINI BREATHER

DRAWING No.

BL/D12424 INST

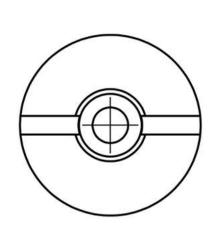
DRG No BL/D10241 INST

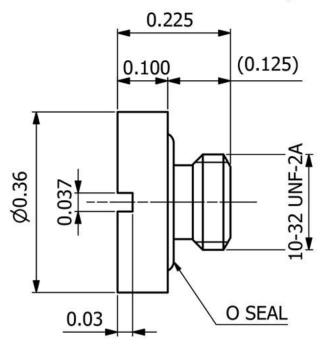
USED ON

THIRD ANGLE PROJECTION



(1:1)





NOTE:-

MEMBRANE MATERIAL: MODIFIED ACRYLIC COPOLYMER, CAST ON A NONWOVEN POLYESTER SUPPORT. POST

TREATED FOR HYDROPHOBICITY THROUGH

UV/E BEAM POLYMERIZATION.

MATERIAL	PROTECTIVE FINISH				
ALUMINIUM	ANODISE &				
ALLOY	DYE BLACK				
		ORIGINAL		1	29-11-07
EST. WT	SURFACE TEXTURE	CHANGE	MOD No	ISSUE	DATE
DIMS IN ins		TOLERANCES : UNLESS	+0.005		
SCALE 5:1	one contracts and the contract and t	OTHERWISE STATED	±0.005		i5
	BROWN	NELL LTD	DRAWI	4	CHECKED
RED DOT = ORIGINAL BLACK DOT= COPY	LONDON NW10 7XF		PK		
~~ "			87 ASSASS		

TITLE

MINI BREATHER

DRAWING No.

BL/D10241 INST