

EST CERTIFICATE

This certificate is a summary of the test and test reports as stated below:

BERMAD UK LTD

#06-02 102E Pasir Panjang Road

Citilink Warehouse Complex

Singapore 118529

Attn: Mr. David Choo

FOR

Brand: Bermad

Test Standard : BS EN 1092-2: 1997, BS EN 1074-4: 2000, AS/NZS 4020: 2015, SS 375: 2015, SS 270: 2015, BS EN 545: 2010

Product Type : Air Valve

	,	Air Valve Model: C70 Size:	Product				
	If not done, no reference	If not done, reference	lf done, Pass/Fail	Instruction			
	NA	NA	NA	Flange mating dimension an thickness	d		
F			M	Design Requirement			
ł		÷.	See -85002346 2H/CY	Internal corrosion and ageing resistance			
			See MM-8500234824/1- 2H/CY	External corrosion and ageing			
	16		Pass See MM-8500234824/1- 2H/CY	resistance Resistance to internal pressure of the shell and of all pressure containing components			
			94/1-	Resistance of the obturator to differential pressure			
	NA	¥.	Ŋ	Resistance of valve to operating loads			
	16		Pass See MM- 8500234824/1= 2H/CY	Leaktightness of the shell and all pressure containing component to internal nressure			
			11-	Seat tightness			
	NA	N A	NA	Maximum operating torque			
	ž		Pass See MM- 850023 4824/1- 2H/CY	Airflow characteristics for a release function	air		
		14	Fass See MM- 850023 4824/1- 2H/CY	Airflow c <i>hara</i> cteristics for air intake function			
	ž	940	See MM- 850023 4824/1- 2H/CY	Airflow characteristics for air venting function			
	æ	.Æ	See MM- 850023 4824/1- 2H/CY	Resistance to disinfection products			
	84		See MM- 850023 4824/1- 2H/CY	Endurance for air intake and/or air release function			
	Ĭ	<u>a)</u>	See MM- 850023 4824/1- 2H/CY	Endurance for air vent function			
Ì	.9		Pass 2HCY // Ses Long term unsea				
	9	Pass See MM- 850023 4824/2/ RH	(94)	Metal Extraction			
				EPDM			
		<u> </u>		EPDM			
1		FB850 7-8500 7-8500 7-8500 7-8500 7-8500		EPDM	Τo		
l		Pass FB560/246748 FMM-8500/24624/3-7/T MM-8600/244624/3-4/T MM-8500/244624/3-4/T MM-8500/244624/3-4/T MM-8500/244624/3-6/T MM-8500/244624/3-6/T MM-8500/244624/3-6/T	*)	Glass-reinforced nylon	Toxicity		
				PP+Foam			
1				PP			
)				Epoxy coating			
		MM-		EPDM	Test		
5		Pass See 1D/OWD MM-8500234824/1- 1D/OWD MM-8500234824/1- 1B/OWD 1B/OWD	×	EPDM			
		4/1- 4/1-		EPDM			
		Pass See 18-01268		Microstructure			

This certificate will cease to be valid upon change in material or manufacturing process(es).

Terms and Conditions:

		Model: C70 Size: DN100	Air Valve		Model: C70 Size: DN80	Air Valve		Model: C70 Size: DN50	Air Valve	Product	
Terms and Conditions:	If not done, no reference	If not done, reference	lf done, Pass/Fail	If not done, no reference	lf not done, reference	lf done, Pass/Fail	lf not done, no reference	If not done, reference	lf done, Pass/Fail	Instruction	Test
	2	×.	Pass See MM- 85002348 24/1- 2M/MA	1	ē.	Pass See MM- 85002348 24/1- 2M/MA	÷	×	Pass See MM- 85002348 24/1- 24/1- 2M/MA	Flange mating dimension a thickness	nd
			MM			MM-			MM-	Design Requirement	
	135	8	See -850023 2K/C	- a-	*	See 850023 2J/C		×	See 8500234 2I/CY	Internal corrosion and agei resistance	ng
			See MM-8500234824/1- 2K/CY			See MM-8500234824/1- 2J/CY			See MM-8500234824/1- 2I/CY	External corrosion and age resistance	ng
	2021	¥	Pass See MM-6500234824/1- 2K/CY	e	*	Pass See MM-8500234824/1= 2J/CY			Pass See MM-8500234824/1- 21/CY	Resistance to internal pressure of the shell and of pressure containing components	
			124/1-			24/1-			4/1-	Resistance of the obturator differential pressure	to
	NA	NA	NA	Ŗ	Ň	NA	NA	NA	Ř	Resistance of valve to operating loads	
	ē.	×	Pass See MM- 8500234824/1- 2K/CY	ÿ		Pass See MM- 8500234824/1- 2J/CY	14	æ	Pass See MM- 8500234824/1- 2I/CY	Leaktightness of the shell a all pressure containing component to internal pressure	ind
			آ							Seat tightness	_
	NA	NA NA	Z à	NA	NA	Å	NA	Z ≱	Å	Maximum operating torqu	ie
	8	3 2	Pass See MM- 850023 4824/1- 2K/CY	ж	Pass See MM- 850023 4624/1- 2K/CY	Xi		Pass See MM- 850023 4824/1- 2K/CY		Airflow characteristics for release function	air
	8	*	Pass See MM- 850023 4824/1- 2K/CY	8	Pass See MM- 850023 4824/1- 2K/CY	8	и	Pass See MM- 850023 4824/1- 2K/CY	×	Airflow c <i>hara</i> cteristics for intake function	air
	41	×	See MM- 850023 4824/1- 2K/CY	×	19	See MM- 650023 4824/1- 2J/CY	2	×.	See MM- 850023 4824/1- 2I/CY	Airflow characteristics for venting function	air
	ž	9	Pass See MM- 850023 4824/1- 2K/CY	3	Pass See MM- 850023 4824/1- 2K/CY	x	900	Pass See MM- 850023 4824/1- 2K/CY	*	Resistance to disinfectio products	n
	×	9	Pass See MM- 850023 4824/1- 2K/CY	31	5	Pass See MM- 850023 4824/1- 2J/CY	0	Pass See MM- 850023 4824/1- 2J/CY	54	Endurance for air intake and/or air release functio	
		<u>(4</u>	Pass See MM- 850023 4824/1- 2K/CY	4	((4))	Pass See MM- 850023 4824/1- 2J/CY	186	×	MM- 850023 4824/1- 21/CY	Endurance for air vent function	
	×	Pass See MM- 850043 4824/1- 2J/CY		36	ЭŬ.	Pdss See MM- 850043 4824/1- 2J/CY		Pass See MM- 850043 4824/1- 2J/CY	%	Long term unseating tes	st
	*	Pass See MM- 850023 4824/2/ RH	90	(00)	Pass See MM- 850023 4824/2/ RH	2	1 7	Pass See MM- 850023 4824/2/ RH	8	Metal Extraction	
										EPDM	
		Pass See FB8500295748 MM-6500234824/3-717 MM-6500234824/3-517 MM-6500234824/3-517 MM-6500234824/3-517 MM-6500234824/3-517 MM-65002065173-37						MM-5 MM-5		EPDM	Toxicity
					Pass See -85002348 -85002348 -85002348 -85002348 -85002348 -85002348 -85002348			Pass See FB650295748 MM-6500234824/3-7/T MM-6500234824/3-3/T MM-6500234824/3-6/T MM-6500234824/3-6/T MM-6500234824/3-6/T MM-6500204851/3-3/T		EPDM Glass-reinforced nylon	
					Pess See FBE60234243-7T MM-6500234824/3-3/T MM-6500234824/3-3/T MM-6500234824/3-5/T MM-6500234824/3-5/T MM-6500234824/3-5/T MM-6500234824/3-5/T	<i>"</i>				PP+Foam	
5										PP	
-)									Epoxy coating	
		2 3 3			2 2 2			M M		ÉPDM	臣
Page 2 of 3		See 1D/CWD 1D/CWD MM-8500234824/1- 1D/CWD MM-8500234824/1- 1B/CWD 1B/CWD	а		Pass See 1D/OWD MM-8500234824/1- 1C/OWD MM-8500234824/1- 1C/OWD MM-8500234824/1- 1B/OWD	0105		Pass See 1D/OWD MM-8500234824/1- 1D/OWD MM-8500234824/1- 1E/OWD 1B/OWD	ñ	EPDM	Elastomeric Seal Test
		324/1- 324/1- 124/1-			24/1- 24/1- 24/1-			24/1- 24/1- 24/1-		EPDM	Seal
<u>_</u>	0.025	Pass See 18-0128B	114	ž	Pass See 18-0128B		÷	Pass See 18-01288	×.	Microstructure	

Serial No. : MP/TC0023/24 Date Issued : 23 July 2024

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SETSCO SERVICES PTE LTD

SETSCO		
	SETSCO SERVICES PTE LTD	-
	CES PTE LTD	

Serial No. : MP/TC0023/24 Date Issued : 23 July 2024

	Model: C70 Size: DN150	Air Valve	Product			
If not done, no reference	If not done, reference	lf done, Pass/Fall	Instruction			
÷).	Pass See MM- 85002348 24/1- 24/1- 2M/MA	Flange mating dimension ar thickness	nd		
×	.*	See MM-8500234824/1- 2L/CY	Design Requirement Internal corrosion and ageir resistance External corrosion and agei	n and ageing ince on and ageing ince bo internal shell and of all ontaining ments we obturator to		
e	a.	Pass See 2L/CY	resistance Resistance to internal pressure of the shell and of pressure containing components Resistance of the obturator differential pressure			
Z,		¥	Resistance of valve to			
	945	Pass See MM- 8500234824/1- 2L/CY	operating loads Leaktightness of the shell a all pressure containing component to internal pressure			
NA	X	NA	Seat tightness Maximum operating torqu			
NA	NA	NA	Airflow characteristics for air release function			
NA	Z,	NA	Airflow characteristics for air intake function			
2	8	See MM- 850023 4824/1- 2L/CY	Airflow c <i>hara</i> cteristics for air venting function			
o x (Pass See MM- 850023 4824/1- 2K/CY	24	Resistance to disinfection products	n		
	Pass See MM- 850023 4824/1- 2K/CY	uio.	Endurance for air intake and/or air release function			
(46	Pass See MM- 850023 4824/1- 2K/CY	15	Endurance for air vent function			
Ę	Pass See MM- 850043 4824/1- 2J/CY		Long term unseating test			
t)	Pass See MM- 850023 4824/2/ RH	9	Metal Extraction			
			EPDM			
	MM-8 MM-8 MM-8		EPDM			
	See See 95002348 95002348 95002348 95002348 95002348 95002348		EPDM	Toxicity		
	FB8500295748 FB8500295748 MA-85002248243-717 MM-85002248243-47 MM-85002348243-47 MM-85002348243-67 MM-85002348243-67 MM-850020485173-37		Glass-reinforced nylon	icity		
	897		PP+Foam PP			
			Epoxy coating			
			EPDM	Elax		
	See TD/OWD MM-8500234824/1- 1D/OWD MM-8500234824/1- 1C/OWD MM-8500234824/1- 1B/OWD	8	EPDM	Elastomeric Seal Test		
	24/1- 24/1- 24/1-		EPDM	Seal		
3	Pass See 18-0128B	5	Microstructure			

CHEN YU

CHEN YU Manager (Mechanical Testing) Mechanical Technology Division

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Terms and Conditions: