Serial No. : MIP/TC0022/24Date Issued : 23 July 2024

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

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

ž	Air Valve Model: C30 Size:	Product				
If not done, no reference	if not done, reference	If done, Pass/Fail	Instruction	Test		
Š	N	N _A	Flange mating dimension and thickness	and		
		§.	Design Requirement			
201	1000	S ₄ 1-8500; 2C/	Internal corrosion and ageing			
	•	See MM-8500234824/1- 2C/CY	External corrosion and ageing			
18	40	Pass See 1- MM-8500234624/1- 2C/CY	resistance Resistance to internal pressure of the shell and of all pressure containing components			
		24/1-	Resistance of the obturator to differential pressure			
Z ≯	Z ×	Z	Resistance of valve to			
		Pass See MM- 8500234824/1- 2C/CY	operating loads Leaktightness of the shell and all pressure containing component to internal			
		1-	Seat tightness			
Ϋ́	Z	₹	Maximum operating torque			
9	Pass See MM- 850023 4824/1- 2D/CY	¥	Airflow characteristics for air release function Airflow characteristics for air intake function			
180	Pass See MM- 850023 4824/1- 2D/CY	N.				
		See MM- 850023 4824/1- 2C/CY	Airflow c <i>hara</i> cteristics for air			
ě	3	Pass See MM- 850023 4824/1- 2C/CY	Resistance to disinfection products			
P)	S & S < ω ≥ Endurance for air inta					
*	74	See MM- 850023 4824/1- 2C/CY	Endurance for air vent function Long term unseating test Metal Extraction			
*11	Pass See MM- 850043 4824/1- 2D/CY	31				
¥	Pass See MM- 850023 4824/2/ RH	10				
			EPDM			
	MM-8: MM-8: MM-8: MM-8:	3940	EPDM EPDM Glass-reinforced nylon PP+Foam PP			
*	Pass See See See Se500234824/3- -8500234824/3- -8500234824/3- -8500234824/3- -8500234824/3-					
	Pass See FB8500295748 MM-8500234824/3-7/7 MM-8500234824/3-3/T MM-8500234824/3-4/T MM-8500234824/3-5/T					
	\$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$					
J	MM-85002 MM-85002 MM-85002		EPDM	Elastomeric Seal Test		
S#	Pass See MM-850234824/1-1D/OWD MM-8500234824/1-1C/OWD MM-8500234824/1-1B/OWD		EPDM EPDM			
N N	Σ,	×	Microstructure			

Terms and Conditions

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Serial No. : MP/TC0022/24Date Issued : 23 July 2024

		Model: C30 Size:	Air Valve		Model: C30 Size:	Air Valve		Model: C30 Size:	Air Valve	Product	
no reference	If not done,	If not done, reference	If done, Pass/Fail	If not done, no reference	If not done, reference	If done, Pass/Fail	If not done, no reference	If not done, reference	lf done, Pass/Fail	Test	
			See MM- 85002348 24/1- 2M/MA	NA NA	Z	Z A	N _A	NA	NA	Flange mating dimension and thickness	
		d#.	See MM-8500234824/1- 2F/CY	8		See MM-8500234824/1- 2E/CY	*5	40	See MM-8500234824/1- 2D/CY	Design Requirement Internal corrosion and ageing resistance External corrosion and ageing	
		ã	Pass See MM-8500234824/1- 2F/CY	76	34	Pass See /1- MM-8500234824/1- 2E/CY	٨	¥	Pass See NIM-8500234824/1- 2D/CY	resistance Resistance to internal pressure of the shell and of all pressure containing components. Resistance of the obturator to	
-	NA NA	NA	V1-	NA	N _A	'1- NA	×	N _{>}	7 ¥	differential pressure Resistance of valve to operating loads	
		1580	Pass See MM- 8500234824/1- 2F/CY	100	9	Pass See MM- 8500234824/1- 2E/CY	W.	8	Pass See MM- 8500234824/1- 2D/CY	Leaktightness of the shell and all pressure containing component to internal	
	-	N _A	4/1- NA	×	Z _A	11- NA	NA.	Z ×	17 NA	Seat tightness	
_	×		Pass See MM- A 850023 4824/1- 2F/CY		Pass See MM- 850023 4824/1- 2D/CY	N	,		See MM- 850023 4824/1- 2D/CY	Maximum operating torque Airflow characteristics for air release function	
			See MM MM- 23 850023 11- 4824/1 4824/1 2F/CY	_	Pass See MM- 23 850023 1- 4824/1- Y 2D/CY)(+	(9)	13	See MM- 850023 - 4824/1- 2D/CY		
			See MM- 850023 83 4824/1- 1- 2F/CY		₹ 7 ω	See MM- 850023 4824/1- 2E/CY			See MM- 850023 4824/1- 2D/CY	Airflow characteristics for air venting function	
		Pass See MM- 850023 4824/1- 2G/CY	1. 3	ē	Pass See MIM- 850023 4824/1- 2C/CY	707		Pass See MM- 850023 4824/1- 2C/CY	м	Resistance to disinfection products	
	7.	<i>©</i>	See MM- 850023 4824/1- 2F/CY			Pass See MM- 850023 4824/1- 2E/CY		100	See MM- 850023 4824/1- 2D/CY	Endurance for air intake and/or air release function	
		ě	See MM- 850023 4824/1- 2F//CY	-	2	See MM- 850023 4824/1- 2E//CY	×:	e.	See MINI- 850023 4824/1- 2D/CY		
	14	×	See MM- 850043 4824/1- 2F/CY	_	Pass See MM- 850043 4824/1- 2D/CY	7/		r)	See MM- 850043 4824/1- 2D/CY	Long term unseating test	
-		Pass See MM- 850023 4824/2/ RH	4		Pass See MM- 850023 4824/2/ RH	*		Pass See MM- 850023 4824/2/ RH	.0	Metal Extraction	
	•	FB850258748 MM-8500234824/3-7/T MM-B500224824/3-3/T MM-B500224824/3-4/T MM-B500224824/3-5/T MM-8500224824/3-5/T MM-8500224824/3-5/T		14	F885 S86 F88500234748 MM-8500234824/3-7/T MM-8500234824/3-4/T MM-8500234824/3-6/T MM-8500234824/3-6/T	٤	**	FB850025484 MM-8500234824/3-7/T MM-8500234824/3-3/T MM-8500234824/3-4/T MM-8500234824/3-5/T MM-8500234824/3-6/T	Days,	EPDM EPDM EPDM Glass-reinforced nylon PP+Foam PP	
Dans 2 of 3	6	Pass See NM-8500234824/1-1D/OWD NM-8500234824/1-1C/OWD MM-8500234824/1-1B/OWD	9	0.00	Pass See MM-8500234824/1-1D/OWD MM-8500234824/1-1C/OWD MM-8500234824/1-1B/OWD	a	ıf	Pass See MM-8500234824/1-1D/OWD MM-8500234824/1-1D/OWD MM-8500234824/1-1B/OWD		EPDM EPDM EPDM EPDM	
	N.	Z	Z	Z	Z	N N	NA NA	NA	N	Microstructure	

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Terms and Conditions:

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Serial No. : MP/TC0022/24Date Issued : 23 July 2024

	Model: C30 Size: DN80	Air Valve	Product			
If not done, no reference	If not done, reference	If done, Pass/Fall	Instruction			
¥	415	See MM- 85002348 24/1- 2M/MA	Flange mating dimension and thickness			
æ	•	See MM-8500234824/1- 2G/CY	Design Requirement Internal corrosion and ageing resistance External corrosion and ageing			
(#)	×	Pass See MN-8500234824/1- 2G/CY	resistance Resistance to internal pressure of the shell and of all pressure containing components Resistance of the obturator to			
Z.	N N	Z Z	differential pressure Resistance of valve to operating loads			
02	0:	Pass See MM- 8500234824/1- 2G/CY	Leaktightness of the shell and all pressure containing component to internal pressure			
	<u> </u>		Seat tightness			
₹	<u>×</u>	N N	Maximum operating torque	9		
,	Pass See MM- 850023 4824/1- 2F/CY	*	Airflow characteristics for air release function			
(9)	Pass See MM- 850023 4824/1- 2F/CY	(0)	Airflow characteristics for air intake function			
	11.	See MM- 850023 4824/1- 2G/CY	Airflow c <i>hara</i> cteristics for ai			
100	9	See MM- 850023 4824/1- 2G/CY	Resistance to disinfection products			
	(9)"	See MM- 850023 4824/1- 2G/CY	P Endurance for air intake and/or air release function			
•0	((45)	See MM- 850023 4824/1- 2G//CY	Endurance for air vent function			
1	Pass See MM- 850043 4824/1- 2F/CY	114	Long term unseating test			
	Pass See MM- 850023 4824/2/ RH	ű	Metal Extraction			
			EPDM			
	FBE VIM-85(VIM-85(VIM-85(VIM-85(VIM-85(EPDM	Toxicity		
	Fass See FB8500295748 VMN-8500234824/3-7/T VMN-8500234824/3-3/T VMN-8500234824/3-5/T VMN-8500234824/3-5/T	3	EPDM			
	5748 24/3-7) 24/3-3/ 24/3-4/ 24/3-5/ 24/3-6/		Glass-reinforced nylon			
			PP+Foam			
			PP			
j.	Pass See MM-8500234824/1-1D/OWD MM-6500234824/1-1C/OWD MM-6500234824/1-1B/OWD	8	EPDM EPDM	Elastomeric Seal Test		
	DWC D DWC		EPDM			
Z	N _P	NA	Microstructure			

CHEN YU

Manager (Mechanical Testing)

Mechanical Technology Division

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