

**FR-MKT-006**

**GMM PFAUDLER LIMITED  
TECHNICAL SPECIFICATION  
FOR  
GLASS LINED EQUIPMENTS**

GMM Pfaudler Quote No: **080189**

**Name: Lema Chemicals Industries**

Attention: **CHHAILSINGH PARMAR**

Date: 13/06/2025

Model	MSG L Reactor		
Tag No.	NA		
Capacity	CE_3000L		
Glass	Pfaudler World Wide 9100 (Dark Blue), Plug Free		
Code	ASME SECTION VIII, DIV.I. (LATEST) - Unstamped		
Dimension	1558 ID And Overall Height 2000 mm, Other Dimension as per Our Bulletin DIN Reactors _ CE".		
Jacket Type	Plain Jacket with 1700 OD		
Design Pressure	Inner Vessel	F. V. / 6 bar(g)	
	Jacket	F. V. / 6 bar(g)	
Hydraulic Test Pressure	Pressure tested in accordance with Code.		
Design Temperature	Inner Vessel	-28.8°C to 200°C	
	Jacket	-28.8°C to 200°C	
NDT	Inner Vessel	UT	
	Jacket	UT	
Paint	Pre-Treatment Removal by blasting. 2 Coats of RAL 5015 (Sky Blue)		
Corrosion Allowance	Glassed Surface	0.0	
	Wetted With Jacket Fluid	1.0	
	Non Wetted Surface	0.5	
Stress Relief	All heating cycles will be as required for glassing process.		
Drilling Standard	GMM fitting PN - 10 DIN 2673 & Spare ASME 150#		
Material of Construction	Shell, Head	SA 516 Gr.60(EQ)	
	Nozzle Necks & Body Flange	SA 181 Gr. 60 / SA 836	
	Split Flanges	SA 516 Gr. 70 (CS)	
	Body Flange C-Clamps		
	Hand/Manhole C-Clamps	SA307 Gr. B / SA 563 Gr. B	
	Fasteners	Pressure Part	MS - IS : 1363 / 1367 CL. 4.6 / 4
		Non-Pressure Part	MS - IS : 1363 / 1367 CL. 4.6 / 4
	Gasket	PTFE Enveloped NON ASBESTOS	
	Hand/Manhole Cover	MSG L	
	Hand/Manhole Protection Ring	PTFE BUSH TYPE	
	Spring Balance Assembly	MS	

	Sight/Light Glass Flanges			MS	
	Earthing			01 No.- Earthing Boss (MS)	
	Lantern Support			MS	
	Lantern Guard			SS304	
	Drive Base Ring			MS	
	Drive Hood				
	Jacket (Shell, Head)			SA 516 Gr. 60 / 70	
	Jacket Nozzle			Nozzle Neck : SA 106 Gr. B & Flanges : SA 105	
	Jacket Coupling+Plug			SA 105	
Nozzles	Top Head				
	Nozzle No.	Size (DN)	Service	Location	Description
	N1	350/450	Manhole	Top Head	MS Spring Loaded MSGL Manhole Cover With 100 Dia Sight Glass Assembly
	N2	100	Spare	Top Head	GL Blind Flange
	N3	100	Spare	Top Head	With CS PTFE Dip Pipe
	N5	200	Baffle / Thermowell	Top Head	With Dial Thermometer
	N6	100	Light Glass	Top Head	Light Glass Assembly
	N7	200	Spare	Top Head	GL Blind Flange
	N9	100	Spare	Top Head	GL Blind Flange
	N10	100	Spare	Top Head	GL Blind Flange
	M	150	Agitator Entry	Top Head	Mechanical seal
	L	100	Outlet	Btm head	100/80NB MSGL Glasslined bottom outlet valve
	Bottom Outlet Valve		Bellow		
			MSGL Bellow Type Upper To Open BOV 150x100 (GPF 304)		
	Jacket Nozzle		04 Nos. DN50 Jacket Nozzle		
Support	Side Bracket				
Agitator	Specific Gravity		≤ 1.6		
	Viscosity		10 CPS		
	Flight		Single		
	Type	Sweep Diameter (in mm)			
	RCI	960 mm			
	RPM		102		
	Shaft Diameter		80		
Baffle	1 No. Beavertail type Baffle with Flange Design				

Drive	Gear Box	Bonfiglioli Make In-Line Helical Gear Box	
	Motor	BBL Make 7.5 (5.5 KW) HP IE2 Flameproof Motor	
	Shaft Closure	Rolon Make Double Mechanical Seal	
		Inborad Face	Carbon vs SIC
		Outborad Face	Carbon vs SIC
		Sealing	Viton
		Housing	MS
		Other	
	Alternate Seal	No	
	Thermosyphon System Make	Leakproof	
	Thermosyphon System Material	MS	
Accessories	-Insulation Cleats on Jacket.		

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