

**FR-MKT-006**

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

GMM Pfaudler Quote No: **080189**

**Name: Lema Chemicals Industries**

Attention: **Mr.CHHAILSINGH PARMAR**

Date: 13/06/2025

<b>Model</b>	ULGL Reactor				
<b>Tag No.</b>	NA				
<b>Capacity</b>	CE_2000L				
<b>Glass</b>	Ultra Glass 6500 (Dark Blue)				
<b>Code</b>	ASME SECTION VIII, DIV.I. (LATEST) - Unstamped				
<b>Dimension</b>	1363 ID And Overall Height 1796 mm, Other Dimension as per Our Bulletin DIN Reactors _ CE".				
<b>Jacket Type</b>	Plain Jacket with 1500 OD				
<b>Design Pressure</b>	<b>Inner Vessel</b>	F. V. / 6 bar(g)			
	<b>Jacket</b>	F. V. / 6 bar(g)			
<b>Hydraulic Test Pressure</b>	Pressure tested in accordance with Code.				
<b>Design Temperature</b>	<b>Inner Vessel</b>	-28.8°C to 250°C			
	<b>Jacket</b>	-28.8°C to 250°C			
<b>NDT</b>	<b>Inner Vessel</b>	UT			
	<b>Jacket</b>	UT			
<b>Paint</b>	Pre-Treatment Removal by blasting. 2 Coats of RAL 5015 (Sky Blue)				
<b>Corrosion Allowance</b>	<b>Glassed Surface</b>	0.0			
	<b>Wetted With Jacket Fluid</b>	1.0			
	<b>Non Wetted Surface</b>	0.5			
<b>Stress Relief</b>	All heating cycles will be as required for glassing process.				
<b>Drilling Standard</b>	GMM fitting PN - 10 DIN 2673 & Spare ASME 150#				
<b>Material of Construction</b>	<b>Shell, Head</b>	SA 516 Gr.60(EQ)			
	<b>Nozzle Necks &amp; Body Flange</b>	SA 181 Gr. 60 / SA 836			
	<b>Split Flanges</b>	SA 516 Gr. 70 (CS)			
	<b>Body Flange C-Clamps</b>				
	<b>Hand/Manhole C-Clamps</b>	SA307 Gr. B / SA 563 Gr. B			
<b>Fasteners</b>	<b>Pressure Part</b>	MS - IS : 1363 / 1367 CL. 4.6 / 4			
		MS - IS : 1363 / 1367 CL. 4.6 / 4			
<b>Gasket</b>	PTFE Enveloped NON ASBESTOS				
<b>Hand/Manhole Cover</b>	MSGL				
<b>Hand/Manhole Protection Ring</b>	PTFE BUSH TYPE				
<b>Spring Balance Assembly</b>	MS				

	<b>Sight/Light Glass Flanges</b>	MS						
	<b>Earthing</b>	01 No.- Earthing Boss (MS)						
	<b>Lantern Support</b>	MS						
	<b>Lantern Guard</b>	SS304						
	<b>Drive Base Ring</b>	MS						
	<b>Drive Hood</b>							
	<b>Jacket (Shell, Head)</b>	SA 516 Gr. 60 / 70						
	<b>Jacket Nozzle</b>	Nozzle Neck : SA 106 Gr. B & Flanges : SA 105						
	<b>Jacket Coupling+Plug</b>	SA 105						
<b>Nozzles</b>	<b>Top Head</b>							
	<b>Nozzle No.</b>	<b>Size (DN)</b>	<b>Service</b>	<b>Location</b>	<b>Description</b>			
	N1	350/450	Manhole	Top Head	MS Spring Loaded MSGL Manhole Cover With 100 Dia Sight Glass Assembly			
	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			
	M	150	Agitator Entry	Top Head	Mechanical seal			
	L	100	Outlet	Btm head	100/80NB MSGL Glasslined bottom outlet valve			
	<b>Bottom Outlet Valve</b>		Bellow					
			MSGL Bellow Type Upper To Open BOV 100x80 (GPF 301)					
	<b>Jacket Nozzle</b>		04 Nos. DN50 Jacket Nozzle					
<b>Support</b>	Side Bracket							
<b>Agitator</b>	<b>Specific Gravity</b>		$\leq 1.6$					
	<b>Viscosity</b>		10 CPS					
	<b>Flight</b>		Single					
	<b>Type</b>	<b>Sweep Diameter (in mm)</b>						
	RCI	840 mm						
	<b>RPM</b>		102					
	<b>Shaft Diameter</b>		80					
<b>Baffle</b>	1 No. Beavertail type Baffle with Flange Design							
<b>Drive</b>	<b>Gear Box</b>		Bonfiglioli Make In-Line Helical Gear Box					
	<b>Motor</b>		BBL Make 7.5 (5.5 KW) HP IE2 Flameproof Motor					

	<b>Shaft Closure</b>	Rolon Make Double Mechanical Seal	
		<b>Inborad Face</b>	Carbon vs SIC
		<b>Outborad Face</b>	Carbon vs SIC
		<b>Sealing</b>	Viton
		<b>Housing</b>	MS
		<b>Other</b>	
	<b>Alternate Seal</b>	No	
	<b>Thermosyphon System Make</b>	Leakproof	
	<b>Thermosyphon System Material</b>	MS	
<b>Accessories</b>	-Insulation cleats on Jacket		

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