

# Lutz Horizontal Centrifugal Pumps

## TMR G2 Series: Absolutely safe for dry running for medium quantities

### ✓ Absolutely safe for dry running

The "R" version is suitable for dry running by means of a patented magnetic "two axial directions self-aligning system". (Version WR and GF)

### ✓ High performance

TMR range gives up to 30 m<sup>3</sup>/h and 30 m delivery head, covers densities up to 1.8 kg/dm<sup>3</sup> and viscosities up to 150 mPas.

### ✓ High system availability

Due to the special design characteristics, the pumps can even be used under the heaviest conditions.

### ✓ Variable connection possibilities

Various threads and flanges are possible. (BSP, NPT, ISO, ANSI)

### ✓ Also suitable for combustible media

Design GX approved according to ATEX 100a.

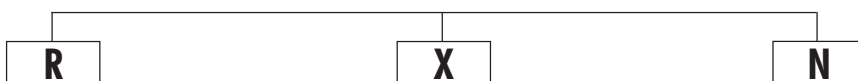


EU-Patent No. 1152151  
US-Patent No. 6,551,075

#### Pump construction

- Patented two axial directions self-aligning system
- **Pump material**  
WR: Polypropylene (glass fibre reinforced)  
GF/GX: ECTFE (carbon fibre filled)
- **Bearing material**  
HD-carbon, silicon carbide, Rulon®, ceramics
- **Housing seal**  
Viton®, EPDM or Kalrez®
- **Drive magnet**  
Neodymium-Iron-Boron

## Bearing systems TMR G2



### Designed for dry running

Designed for dry running through the use of **HD carbon** slide bearings



### Adequate for solids

Adequate for solids through the use of **silicon carbide** slide bearings

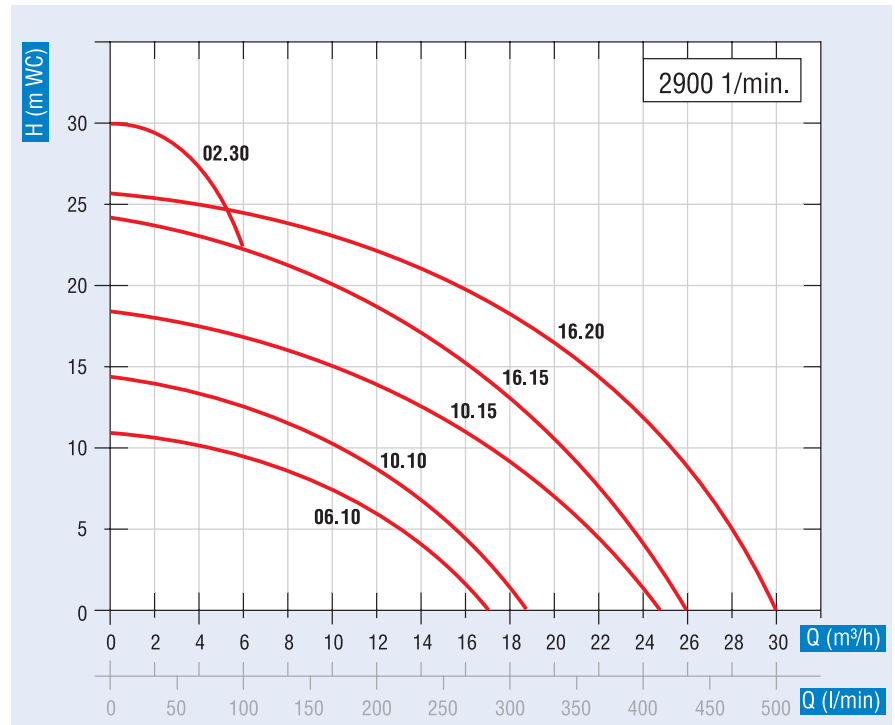



### Corrosion resistant **NEW**

Adequate for hypochlorite solutions, bromine and chromium compounds through the use of **Rulon®** slide bearings

### Performance curve

Single performance curve in 50 Hz and 60 Hz on request.



Type	WR			GF			GX	
Category 2 (acc. to ATEX 100a)	no			no			yes 	
Volute casing	Polypropylene (glass fibre reinforced)			ECTFE (carbon fibre filled)			ECTFE (carbon fibre filled)	
Rear casing								
Centrifugal impeller								
Operating temperature	-5 up to +80 °C			-30 up to +110 °C			-30 up to +110 °C	
Environment temperature	0 up to +40 °C			-20 up to +40 °C			-20 up to +40 °C	
Bearing system	R <sub>1</sub>	X <sub>1</sub>	N <sub>1</sub>	R <sub>2</sub>	X <sub>2</sub>	N <sub>2</sub>	R <sub>2</sub>	N <sub>2</sub>
Guide bearing	HD-carbon	SiC	Rulon®	HD-carbon	SiC	Rulon®	HD-carbon	Rulon®
Shaft	ceramics			SiC			SiC	
Thrust ring	ceramics			SiC			SiC	
O-ring	Viton® <sup>1)</sup>			Viton® <sup>1) 2)</sup>			Viton® <sup>1) 2)</sup>	
Screws	SS			SS			SS	

On request: <sup>1)</sup>EPDM and <sup>2)</sup>FFKM (Kalrez)

Type TMR		06.10			10.10			10.15			16.15			16.20			02.30		
Motor selection		N	P	S	N	P	S	N	P	S	N	P	S	N	P	S	N	P	S
∅ Inlet	BSP	G 1 1/2" OT			G 1 1/2" OT			G 1 1/2" OT			G 1 1/2" OT			G 1 1/2" OT			G 1 1/2" OT		
∅ Outlet	BSP	G 1 1/4" OT			G 1 1/4" OT			G 1 1/4" OT			G 1 1/4" OT			G 1 1/4" OT			G 1 1/4" OT		
Suction and pressure flange ISO	Suction (mm)	40			40			40			40			40			40		
	Pressure (mm)	32 (40*)			32 (40*)			32 (40*)			32 (40*)			32 (40*)			32 (40*)		
Density max.	kg/dm³	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8	1.05	1.35	1.8
Power (IEC) 50 Hz	kW	0.55	0.75	1.1	0.75	1.1	1.5	1.1	1.5	2.2	1.5	2.2	3	2.2	3	–	2.2	3	–
Motor	3-Phase 400 V / 50 Hz / IP 55 (1- Phase 230 V / 50 Hz < 3 kW)																		

\*On request Viton® and Kalrez® are registered Trademarks of DuPont Dow Elastomers. Rulon® is a registered Trademark of Saint-Gobain. OT = Outer thread IT= Inner thread