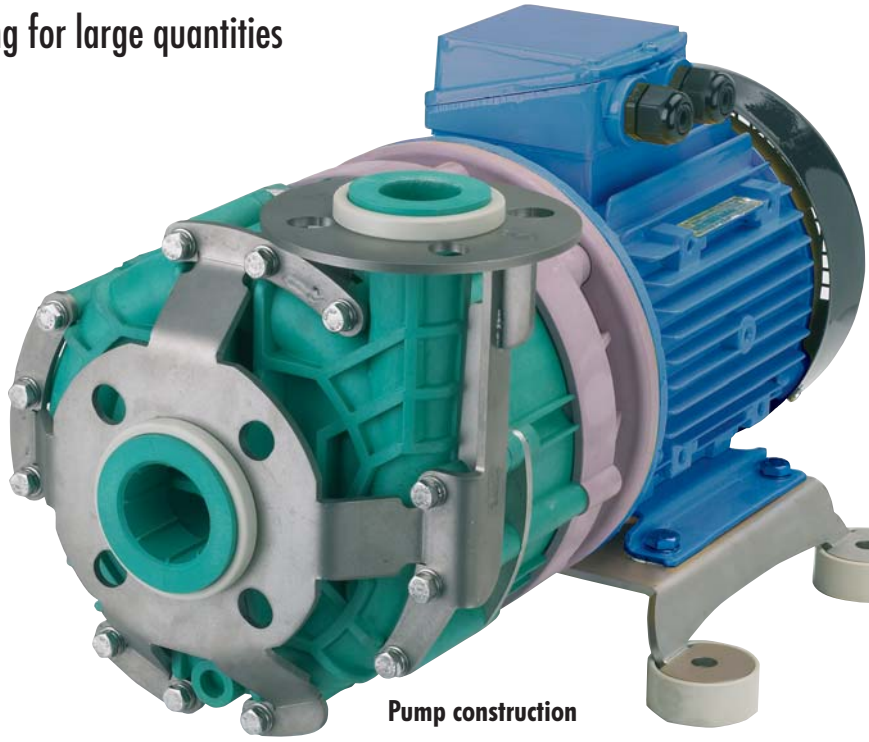
Lutz Horizontal Centrifugal Pumps

TMR G3 Series: Absolutely safe for dry running for large 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 48 m³/h and 42 m delivery head, covers densities up to 1.8 kg/dm³ 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.

✓ Protection plate

Protects the pump housing against mechanical damage.

✓ 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 G3

R

Designed for dry running

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

X

Adequate for solids

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

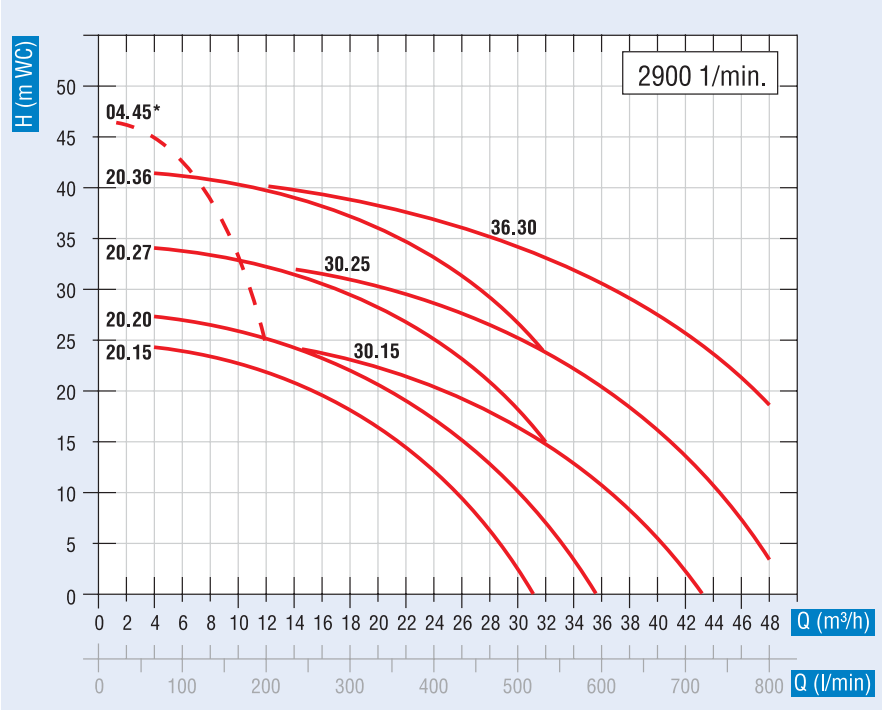
N

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.



*Being prepared

Type	WR			GF			GX	
Category 2 (acc. to Atex 100a)	no			no			yes	
Volute casing Rear casing Centrifugal impeller	Polypropylene (glass fibre reinforced)			ECTFE (carbon fibre filled)			ECTFE (carbon fibre filled)	
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_1**	**X_1**	**N_1**	**R_2**	**X_2**	**N_2**	**R_2**	**N_2**
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®[1)]			Viton®[1) 2)]			Viton®[1) 2)]	
Screws	SS			SS			SS	

On request: [1)]EPDM and [2)]FFKM (Kalrez®)

Technical data		20.15			20.20			20.27			20.36			30.15			30.25			36.30		
Motor selection		**N**	**P**	**S**	**N**	**P**	**S**	**N**	**P**	**S**	**N**	**P**	**S**	**N**	**P**	**S**	**N**	**P**	**S**	**N**	**P**	**S**
∅ Inlet	BSP	G 2 OT			G 2 OT			G 2 OT			G 2 OT			G 2 OT			G 2 OT			G 2 OT		
∅ Outlet	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			G 1 1/2 OT		
Suction and pressure flange ISO	Suction (mm) Pressure (mm)	50 40			50 40			50 40			50 40			50 40			50 40			50 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	1.05	1.35	1.8
Power (IEC) 50 Hz	kW	2.2	3	4	3	4	5.5	4	5.5	7.5	5.5	7.5	–	4	5.5	7.5	5.5	7.5	–	7.5	–	–
Motor		3-Phase 400 V / 50 Hz, IP 55																				

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