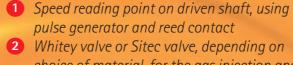
Technical data

- To be screwed onto autoclave cover.
- M18 x1 mm threades connection.
- Sealed to the autoclave cover by means of O-ring or metal-to-metal seal (olive).
- Torque for magnetic coupling 20 Ncm or 50 Ncm.
- Stainless steel or Hastelloy C22 as standard. Versions in Hastelloy C276, B3 or titanium Gr. 2 on request.
- Ball bearings on the driven shaft. Hastelloy or titanium versions with friction bearings.
- Maximum speed 1'500 rpm for ball bearings and for friction bearings.
- Micromotor 24V/DC, available complete with control device.
- Speed reading point on driven shaft, using pulse generator and reed contact.

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internet

The «minimaster» – the true master of magnetic stirring power. This model combines a modern magnetic coupling with a micromotor. Other outstanding features include a gas feed and a speed reading point.



2 Whitey valve or Sitec valve, depending on choice of material, for the gas injection and interior cleaning

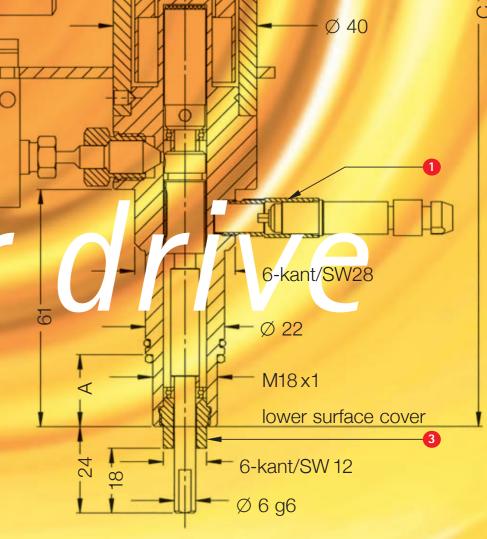
3 Locknut for bearing change under reactor cover

4 Micromotor 24V/DC, available complete with control device

For a small extra charge, the thread length given at A can be individually adapted to a reactor cover so that the locknut to change the bearings is opened under the reactor cover.

magnetic stirrer

			_			
Prod. no.	07.487.00630	07.487.00632	07.487.00634	07.487.00636	07.487.00638	07.487.00640
Torque	20 Ncm	20 Ncm	20 Ncm	50 Ncm	50 Ncm	50 Ncm
Mat. no.	1.4435	1.4980	2.4602	1.4435	1.4980	2.4602
AISI	316 L	660	HC22	316 L	660	HC22
p bar	300	700	300	300	700	300
T °C	200	200	200	200	200	200
A mm	20	20	20	20	20	20
C mm	222	222	222	265	265	265
Micromotor 24V/DC	rpm	rpm	rpm	rpm	rpm	rpm
Speed reading	200-1′500	200-1'500	200-1'500	200-1′500	200-1'500	200-1'500



Ø 36

Technical data

- To be screwed onto autoclave cover.
- M18 x1 mm threades connection.
- Sealed to the autoclave cover by means of O-Ring or metal-to-metal seal (olive).
- Torque for magnetic coupling 20 Ncm or 50 Ncm.
- Stainless steel or Hastelloy C22 as standard. Versions in Hastelloy C276, B3 or titanium Gr. 2 on request.
- Ball bearings on the driven shaft. Hastelloy or titanium versions with friction bearings.
- Maximum speed 3'000 rpm for ball bearings and for friction bearings.
- Micromotor 24V/DC, available complete with control device.
- Speed reading point on driven shaft, using pulse generator and reed contact.

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Smrk

We have made this model a king! Its name is «miniroyal» and you will be amazed by its elegance and perfection.

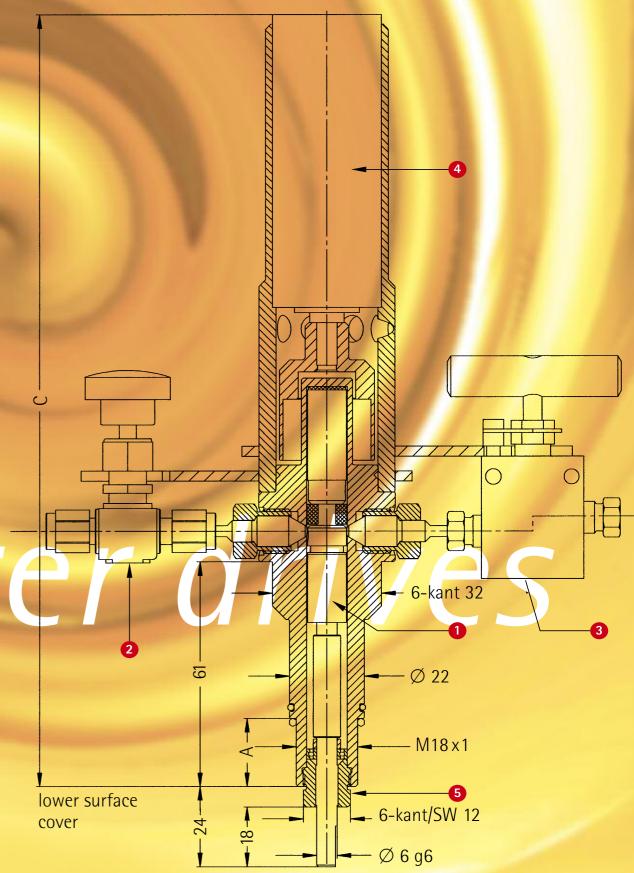
Its «kingdom» includes all the basic equipment for a reactor: a micromotor, coupled with a high-performance magnetic coupling, speed reading point, pressure measurement, pressure protection and gas injection.

- 1 Speed reading point on driven shaft, using pulse generator and reed contact
- 2 Whitey valve or Sitec valve, depending on choice of material, for the gas injection and interior cleaning
- **3** Whitey valve or Sitec valve for pressure release
- 4 Micromotor 24V/DC, available complete with control device
- 5 Locknut for bearing change under reactor cover

For a small extra charge, the thread length given at A can be individually adapted to a reactor cover so that the locknut to change the bearings is opened under the reactor cover.

Further connections

- Burst disk holder fitted with burst disk
- Pressure gauge Ø 40 mm, chemical design



magnetic Stigst

Prod. no.	07.489.00650	07.489.00652	07.489.00654	07.473.00056	07.489.00058	07.489.00060
Torque	20 Ncm	20 Ncm	20 Ncm	50 Ncm	50 Ncm	50 Ncm
Mat. no.	1.4435	1.4980	2.4602	1.4435	1.4980	2.4602
AISI	316 L	660	HC22	316 L	660	HC22
p bar	300	700	300	300	700	300
T °C	200	200	200	200	200	200
A mm	20	20	20	20	20	20
C mm	222	222	222	265	265	265
Micromotor 24V/DC	rpm	rpm	rpm	rpm	rpm	rpm
Speed reading	200-1'500	200-1'500	200-1'500	200-1'500	200-1'500	200-1'500

Technical data

- To be screwed onto autoclave cover.
- M18 x 1 mm threades connection.
- Sealed to the autoclave cover by means of O-Ring or metal-to-metal seal (olive).
- Torque for magnetic coupling 20 Ncm or 50 Ncm.
- Stainless steel or Hastelloy C22 as standard. Versions in Hastelloy C276, B3 or titanium Gr. 2 on request.
- Ball bearings on the driven shaft. Hastelloy or titanium versions with friction bearings.
- Maximum speed 1'500 rpm for ball bearings and for friction bearing.
- Micromotor 24V/DC, available complete with control device
- Speed reading point on driven shaft, using pulse generator and reed contact.

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Smrk SS S

The latest addition to the premex mini-family is bound to be a hit. A micromotor coupled with a minimised magnetic coupling – that's the winning concept for the «minisprint».

Put the «minisprint» – the smallest of all magnetic stirrer drives – at the top of your hit parade!

- 1 Speed reading point on driven shaft, using pulse generator and reed contact
- 2 Micromotor 24V/DC, available complete with control device
- 3 Locknut for bearing change under reactor cover

For a small extra charge, the thread length given at A can be individually adapted to a reactor cover so that the locknut to change the bearings is opened under the reactor cover.

magnetic stirrer d

Prod. no.	07.485.00610	07.485.00612	07.485.00614	07.485.00616	07.485.00618	07.485.00620
Torque	20 Ncm	20 Ncm	20 Ncm	50 Ncm	50 Ncm	50 Ncm
Mat. no.	1.4435	1.4980	2.4602	1.4435	1.4980	2.4602
AISI	316 L	660	HC22	316 L	660	HC22
p bar	300	700	300	300	700	300
T °C	200	200	200	200	200	200
A mm	20	20	20	20	20	20
C mm	222	222	222	265	265	265
Micromotor 24V/DC	rpm	rpm	rpm	rpm	rpm	rpm
Speed reading	200-1′500	200-1′500	200-1'500	200-1'500	200-1'500	200-1'500



Connection and seal

- The mrk 40–47 «funrun» is easily fitted to the autoclave cover by means of an M30x2 mm threaded connection. We recommend using a metal olive to create a seal.

Material

 All product parts coming into contact with the medium are made of corrosion-resistant material or Hastelloy.
 The product line also comes in versions using titanium, tantalum and types of Inconel.

Speed reading point

 A speed reading point is fitted to the driven shaft as standard. The mrk can easily be upgraded with the digital DZA-2B speed indicator or, for motor version .1, the DZA-3 which also includes a frequency converter for motor control .

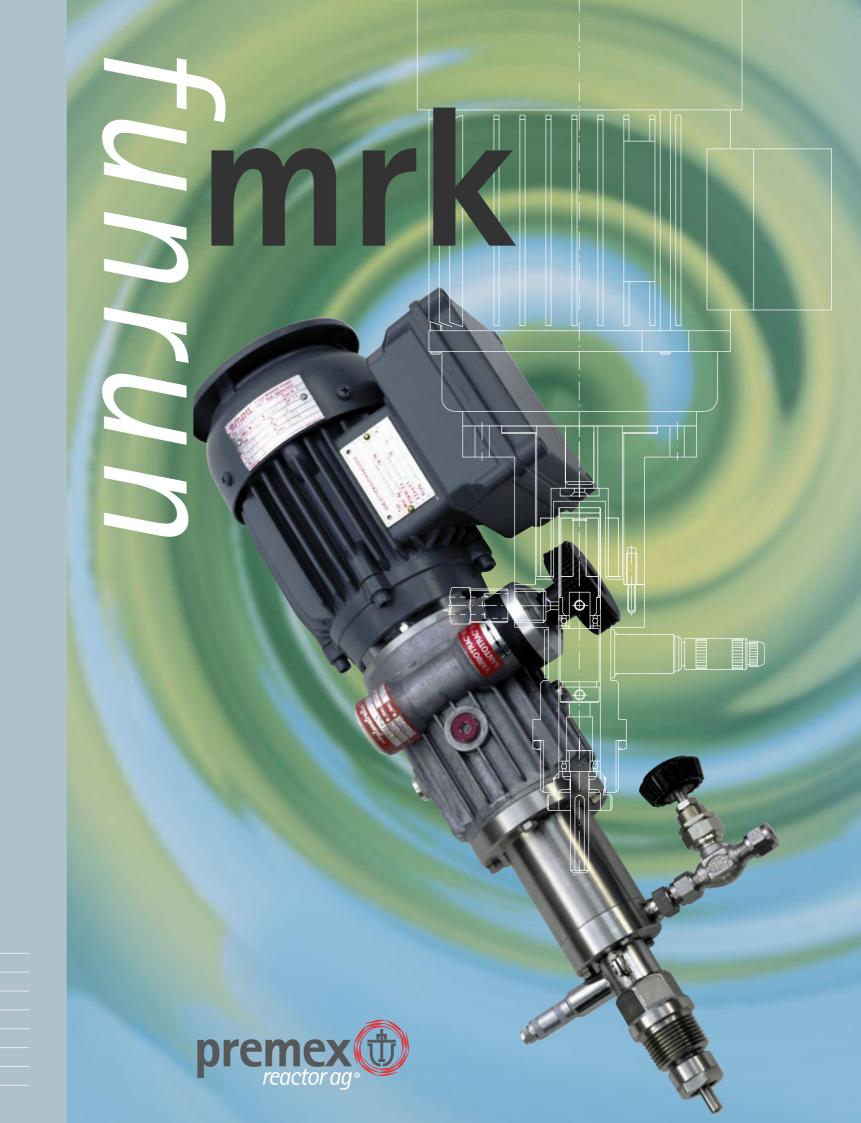
Bearings

 In the corrosion-resistant versions, ball bearings are used for the driven shaft. Hastelloy or titanium drives use friction bearings. The shaft can be used with ball bearings or friction bearings.

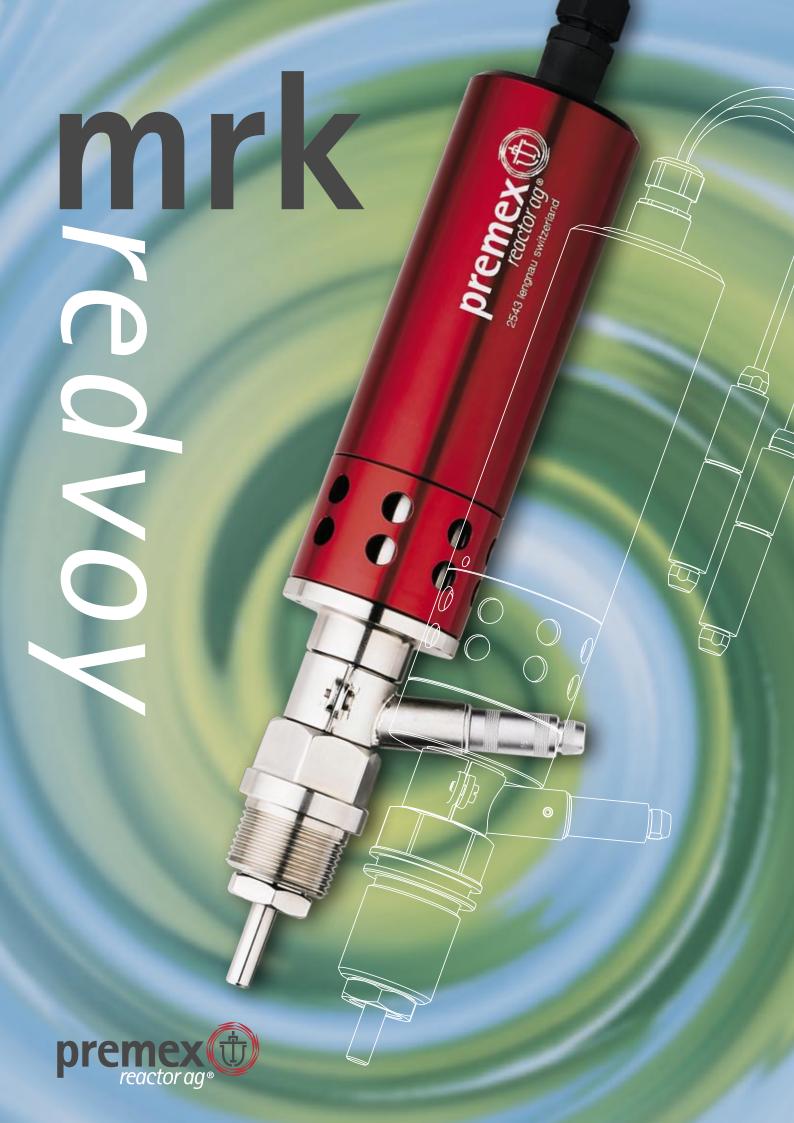
Drive versions

Two drive systems are available with a rated output of 120 Watt. We can supply an a.c. motor controlled either by a frequency converter or by a "Planetroll" gear system. In version .1, the speed of the drive shaft is set at the potentiometer on the control unit, with a range of 200–2'000 rpm (other speeds can be selected). In version .2 the speed can be continuously regulated manually from 0–1'150 rpm. Connection: 3x240/400 V 50 Hz.

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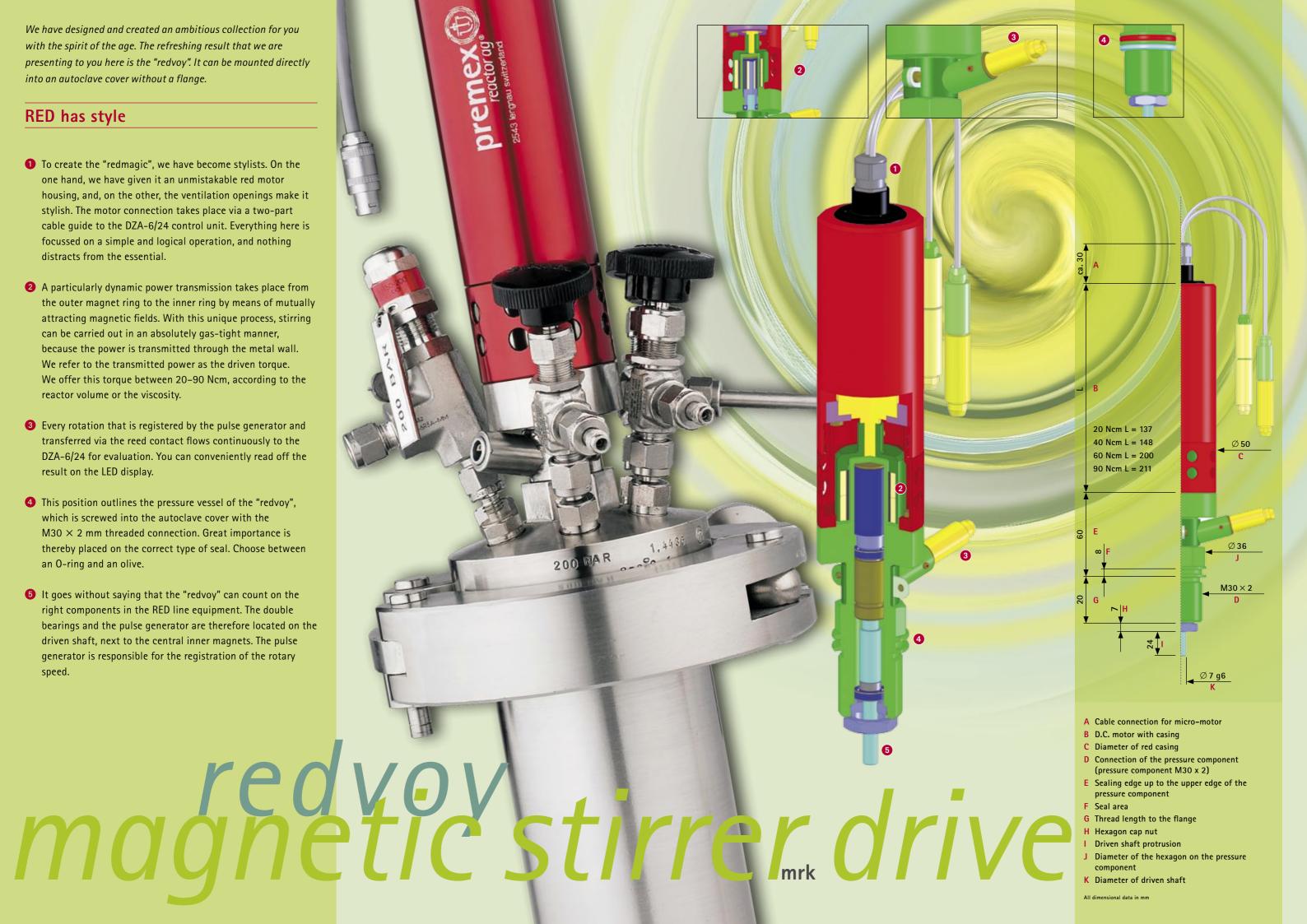




We have designed and created an ambitious collection for you with the spirit of the age. The refreshing result that we are presenting to you here is the "redvoy". It can be mounted directly into an autoclave cover without a flange.

RED has style

- 1 To create the "redmagic", we have become stylists. On the one hand, we have given it an unmistakable red motor housing, and, on the other, the ventilation openings make it stylish. The motor connection takes place via a two-part cable guide to the DZA-6/24 control unit. Everything here is focussed on a simple and logical operation, and nothing distracts from the essential.
- 2 A particularly dynamic power transmission takes place from the outer magnet ring to the inner ring by means of mutually attracting magnetic fields. With this unique process, stirring can be carried out in an absolutely gas-tight manner, because the power is transmitted through the metal wall. We refer to the transmitted power as the driven torque. We offer this torque between 20–90 Ncm, according to the reactor volume or the viscosity.
- 3 Every rotation that is registered by the pulse generator and transferred via the reed contact flows continuously to the DZA-6/24 for evaluation. You can conveniently read off the result on the LED display.
- 4 This position outlines the pressure vessel of the "redvoy", which is screwed into the autoclave cover with the M30 × 2 mm threaded connection. Great importance is thereby placed on the correct type of seal. Choose between an O-ring and an olive.
- 5 It goes without saying that the "redvoy" can count on the right components in the RED line equipment. The double bearings and the pulse generator are therefore located on the driven shaft, next to the central inner magnets. The pulse generator is responsible for the registration of the rotary speed.



Material

 All components that come into contact with the medium are manufactured from stainless material WNo. 1.4435 (AISI 316L) or WNo. 1.4980 (AISI 660). We offer the same line in Hastelloy C22 for aggressive media. Titanium, tantalum and Inconel types are also possible

Operating pressure and temperature

- Exactly matched to your application, the "redvoy" is available up to 200 bar in WNo. 1.4435 or up to 700 bar in WNo. 1.4980 at a maximum temperature of 300°C.
- If your chemical reactions require an acid-resistant steel, we can, for example, offer you the Hastelloy C22 for 300 bar and 300°C.
- For all other applications or requests, you are advised to ask our specialists. We have the right solution ready for you.

Connection and seal

 The compact magnetic stirrer drive with its M30 × 2 mm connection can be mounted directly on any autoclave cover.
 An O-ring or an olive can be used as the seal.

Drive, torque and bearings

- D.C. motor 60 Watt, 24V/DC. The drive is linked to the required DZA-6/24 control unit by means of a two-part cable arrangement. Connection to the control unit 1 and 220 V, 50 Hz.
- The torques provided by the magnetic coupling extend from 20–90 Ncm
- Corrosion-resistant ball bearings on the driven shaft for a maximum speed of 1,300 rpm. Hastelloy or titanium models are fitted with slider bearings for the same speed range.

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