

Connection and seal

- Ground joint NS 45/40
- Double seal to glass reactor, with two consecutive Viton O-rings. In the Hastelloy or titanium versions, the grooves increase in size, and the quality of the O-rings changes to EPDM or Kalrez.

Material

- All parts coming into contact with the medium are made of corrosion-resistant material DIN 1.4435. We offer the same line in Hastelloy C22 for aggressive media. Titanium, tantalum and types of Inconel can also be used.

Drive / torque and bearing

- The best solution is to connect the mrk to a factory-fitted drive motor via a flexible stirrer component. The standard drive shaft of the mrk is 7 mm in diameter. A square 6 mm connection is also available.
- The torque of the magnetic coupling can be increased from 20–90 Ncm.
- Corrosion-resistant ball bearings are used in the driven shaft for a maximum speed of 3000 rpm. Hastelloy or titanium versions use friction bearings for a maximum speed of 1600 rpm.

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alluro mrk

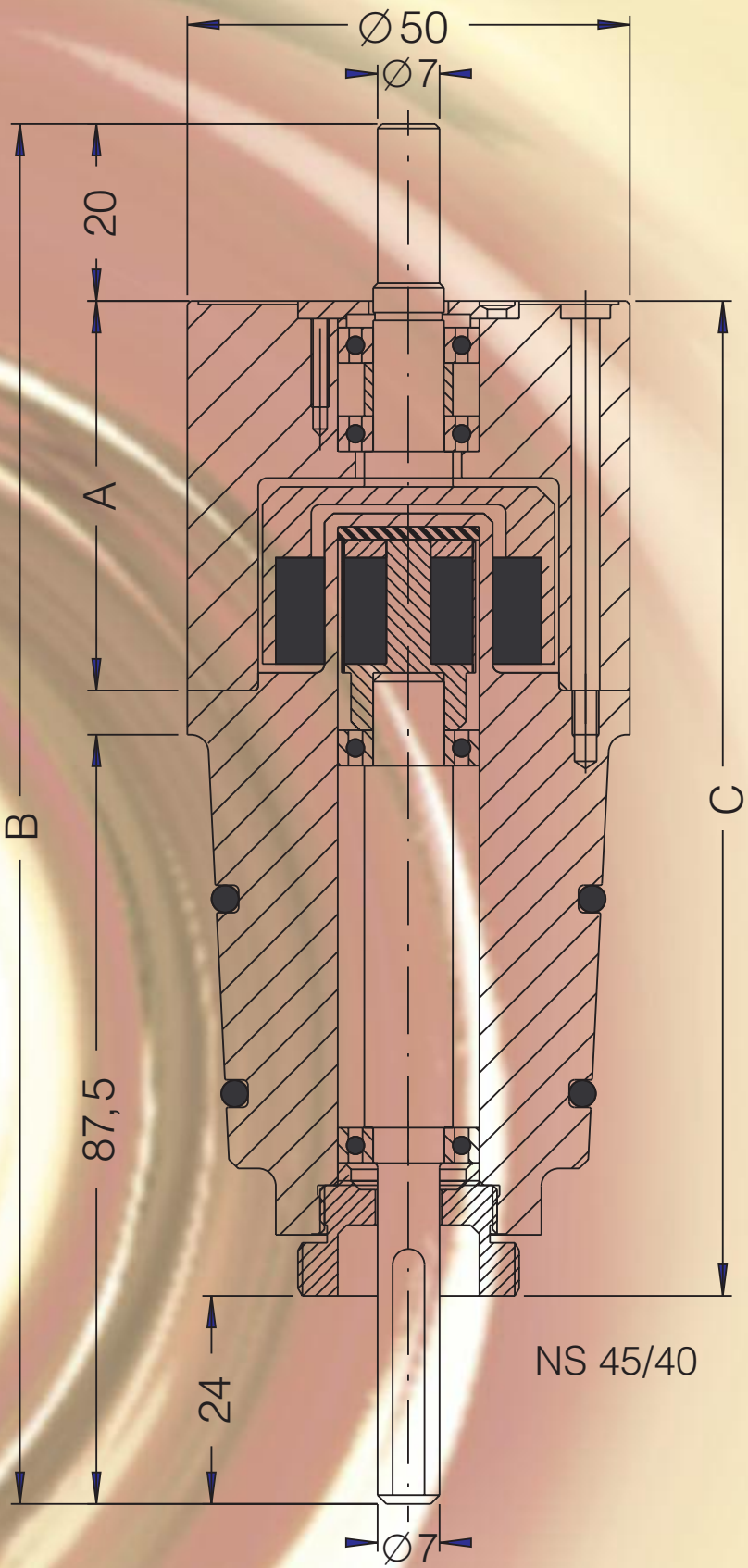


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The magnetic stirring action of mrk2 «alluro»: Power is transmitted from the stirrer motor to the drive collar by means of a flexible coupling. The drive collar is fitted with a magnetic ring, which uses the mutual attraction of the magnetic fields to couple with the inner magnet. This means that the stirrer shaft is driven without any contact.

alluro

mrk2 magnetic



Prod. no.	07.457.00170	07.457.00172	07.457.00174	07.457.00176	07.457.00171	07.457.00173	07.457.00175	07.457.00177
Type	mrk 2/20	mrk 2/40	mrk 2/60	mrk 2/90	mrk 2/20 HC22	mrk 2/40 HC22	mrk 2/60 HC22	mrk 2/90 HC22
Torque	20 Ncm	40 Ncm	60 Ncm	90 Ncm	20 Ncm	40 Ncm	60 Ncm	90 Ncm
Mat. WNr.	1.4435	1.4435	1.4435	1.4435	2.4602	2.4602	2.4602	2.4602
AISI	316 L	316 L	316 L	316 L	HC22	HC22	HC22	HC22
T °C	240	240	240	240	240	240	240	240
Max. vol. ml	2000	4000	6000	10000	2000	4000	6000	10000
A mm	44	56	78	100	44	56	78	100
B mm	156	168	190	212	156	168	190	212
C mm	113	125	147	169	113	125	147	169

Technical data

- All product parts coming into contact with the medium are made of high-grade steel. Versions are also available in Hastelloy, titanium, tantalum, monel metal, etc.
- 55 Watt d.c. motor, sealed to IP 44 with maximum speed of 3'000 rpm. Connection to control box 1 x 220 V, 50 Hz.
- Torque of magnetic coupling 20 Ncm or 40 Ncm.
- All the types listed are equipped with stainless steel ball bearings.

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cirrojiet mrk

premex
reactor ag®



Our «cirojet», a universal magnetic stirrer drive. The mrk 20–29 «cirojet» magnetic stirrer drive has demonstrated its value as a combination of a magnetic coupling and an integrated d.c. motor. premex reactor ag offers this versatile mrk with NS 29/32, NS 45/40 glass connections, and with M30x2 mm metal connections for reaction vessels up to 700 bar.

Power is transmitted from the outer magnetic ring to the inner magnet. The forces of attraction are responsible for transferring the rotation from the drive collar to the stirrer shaft in a non-contacting process.

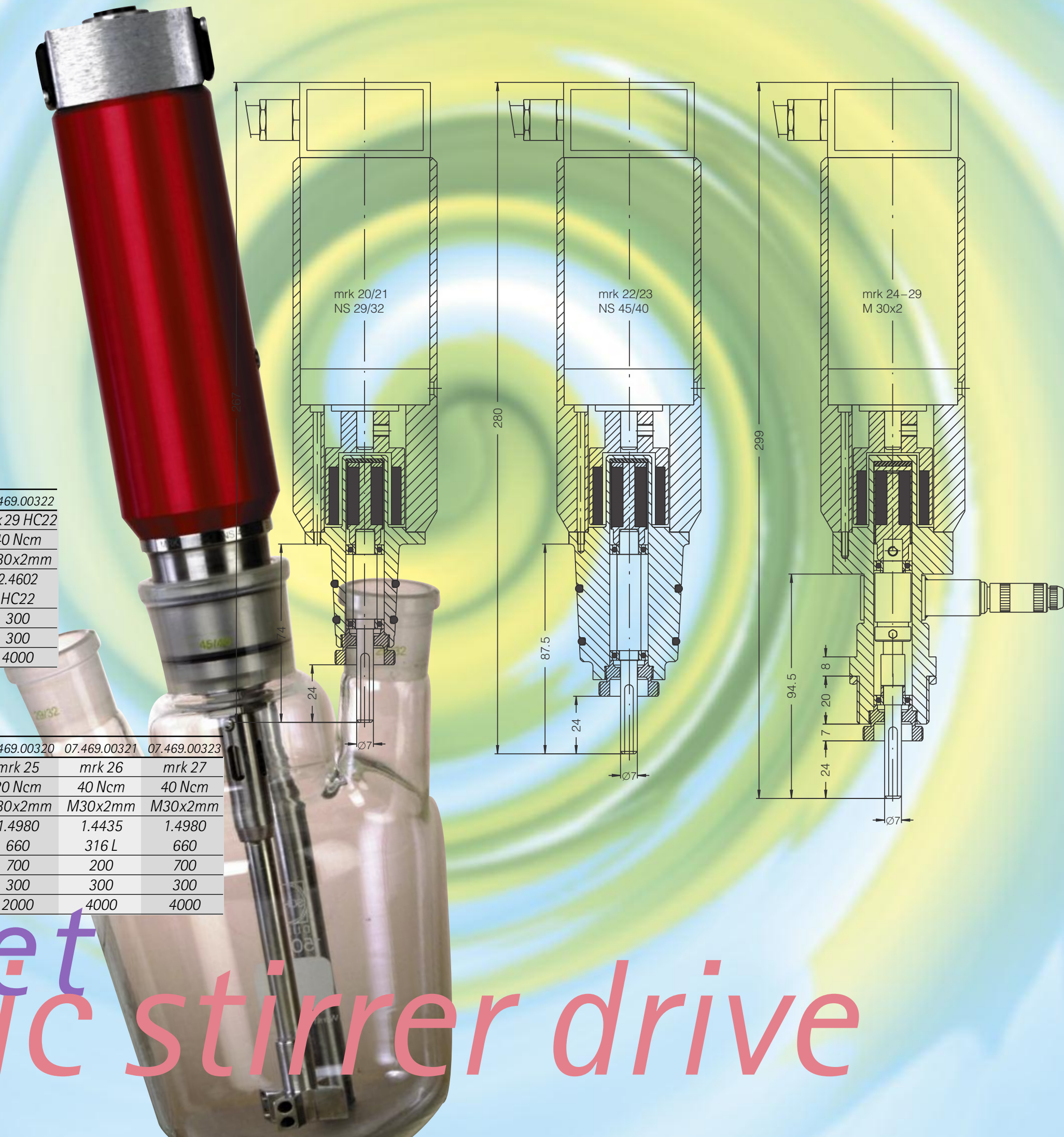
Hastelloy versions

Prod. no.	07.469.00311	07.469.00313	07.469.00315	07.469.00317	07.469.00319	07.469.00322
Type	mrk 20 HC22	mrk 21 HC22	mrk 22 HC22	mrk 23 HC22	mrk 28 HC22	mrk 29 HC22
Torque	20 Ncm	40 Ncm	20 Ncm	40 Ncm	20 Ncm	40 Ncm
Connection	NS 29/32	NS 29/32	NS 45/40	NS 45/40	M30x2mm	M30x2mm
Mat. WNr.	2.4602	2.4602	2.4602	2.4602	2.4602	2.4602
AISI	HC22	HC22	HC22	HC22	HC22	HC22
p bar	–	–	–	–	300	300
T °C	240	240	240	240	300	300
Vol. ml	2000	4000	2000	4000	2000	4000

Stainless steel versions

Prod. no.	07.469.00310	07.469.00312	07.469.00314	07.469.00316	07.469.00318	07.469.00320	07.469.00321	07.469.00323
Type	mrk 20	mrk 21	mrk 22	mrk 23	mrk 24	mrk 25	mrk 26	mrk 27
Torque	20 Ncm	40 Ncm	20 Ncm	40 Ncm	20 Ncm	20 Ncm	40 Ncm	40 Ncm
Connection	NS 29/32	NS 29/32	NS 45/40	NS 45/40	M30x2mm	M30x2mm	M30x2mm	M30x2mm
Mat. WNr.	1.4435	1.4435	1.4435	1.4435	1.4435	1.4980	1.4435	1.4980
AISI	316 L	316 L	316 L	316 L	316 L	660	316 L	660
p bar	–	–	–	–	200	700	200	700
T °C	240	240	240	240	300	300	300	300
Vol. ml	2000	4000	2000	4000	2000	2000	4000	4000

cirojet
magnetic stirrer drive



Connection and seal

- Ground joint NS 29/32
- Double seal to glass reactor, with two consecutive Viton O-rings. In the Hastelloy or titanium versions, the grooves increase in size, and the quality of the O-rings changes to EPDM or Kalrez.

Material

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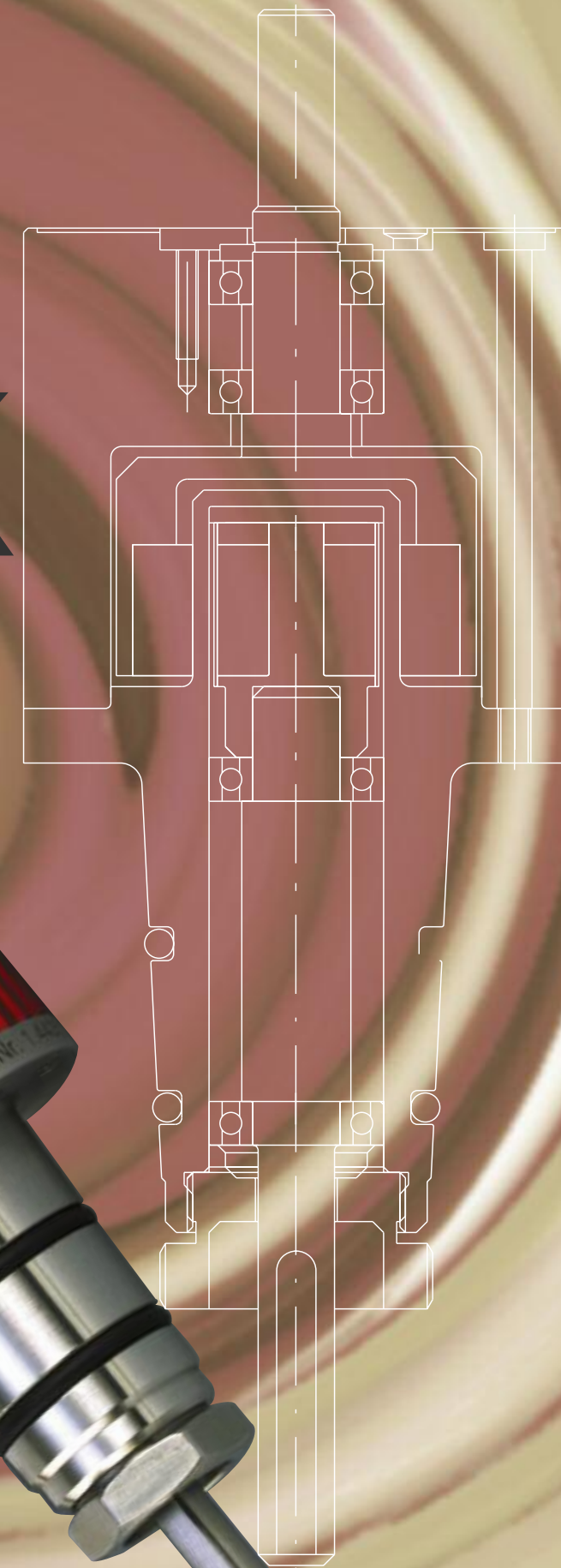
Drive / torque and bearing

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glenfiz
mrk



premex
reactor ag®

premix magnetic stirrer heads are state-of-the-art stirrer locks. The encapsulated inner magnet uses the mutual attraction of the magnetic fields to couple with the outer magnet where the driving power is transferred. This unique method means that stirring can be done in absolutely air-tight conditions. The mrk1 «glenfiz» can also be used in vacuum applications.

mrk magnetic stirrer head
glenfiz

Prod. no.	07.455.00160	07.455.00162	07.455.00164	07.455.00166	07.455.00161	07.455.00163	07.455.00165	07.455.00167
Type	mrk 1/20	mrk 1/40	mrk 1/60	mrk 1/90	mrk 1/20 HC22	mrk 1/40 HC22	mrk 1/60 HC22	mrk 1/90 HC22
Torque	20 Ncm	40 Ncm	60 Ncm	90 Ncm	20 Ncm	40 Ncm	60 Ncm	90 Ncm
Mat. WNr.	1.4435	1.4435	1.4435	1.4435	2.4602	2.4602	2.4602	2.4602
AlSI	316 L	316 L	316 L	316 L	HC22	HC22	HC22	HC22
T °C	240	240	240	240	240	240	240	240
Max. vol. ml	2000	4000	6000	10000	2000	4000	6000	10000
A mm	44	56	78	100	44	56	78	100
B mm	143	155	177	199	143	155	177	199
C mm	99	111	133	155	99	111	133	155

