

mrk redmagic



Five new basic models in RED. And three good reasons for using them: Standard parts from existing modules, expansion through the micro-motor and the highest level of flexibility through a variety of connection possibilities. The "redmagic" magnetic stirrer drive has the tapered NS 45/40 connection ready for you.

The red magic of "redmagic"

- 1 The micro-motor of the «redmagic» magnetic stirrer drive permits a range of drive speeds from 200–1300 rpm (24V/DC). It is in the very best form, both optically and technically. Let yourself be convinced by its sleek design and modern motor variants.
- 2 The distinctive red housing of the "redmagic" with its wide motor cooling zone ensures an unmistakable appearance.
- 3 The new speed indicators appear in the eye-catching "vortex design", and match the RED line in both appearance and functionality. The "redmagic" magnetic stirrer drive is connected via the two plug connections.
- 4 The drive bell with its integrated permanent magnet ensures a respectable torque of up to 90 Ncm.
- 5 The power is transmitted to the drive shaft through the optimal interplay from the outer magnet to the inner magnet. Depending on your reactor volume or the viscosity, the following torques are available for selection: 20 Ncm (2 l), 40 Ncm (4 l), 60 Ncm (6 l) and, as already mentioned, the max. 90 Ncm (10 l).
- 6 A thrust washer, a drive magnet and the guided shaft are hidden under the flawless surface of the tapered NS 45/40 connection component. The shaft is guided because two ball bearings or slide bearings hold it in position together with the hexagon cap nut.
- 7 The magic formula for the magnetic stirrer drive in the glass sector is called "redmagic". It is basically designed for glass reactors with the tapered NS 45/40 connection. Its application area is limited to non-pressurised or vacuum area at a maximum operating temperature of 240°C. The grooves in the taper are provided for O-rings in inch dimensions. Different qualities such as EPDM, Viton or Kalrez can thereby be interchanged.



20 Ncm	L = 137
40 Ncm	L = 148
60 Ncm	L = 200
90 Ncm	L = 211

- A Cable connection for micro-motor
- B D.C. motor with casing
- C Diameter of red casing
- D NS 45/40 taper with hexagon cap nut
- E Driven shaft protrusion
- F Diameter of driven shaft

All dimensional data in mm

redmagic
magnetic stirrer drive

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Operating pressure and temperature

- The "redmagic" is used with tapered glass connections in the non-pressurised or vacuum area.
- It has a maximum operating temperature of up to 240°C.

Connection and seal

- Tapered connection NS 45/40
- The grooves in the tapered section are designed for inch dimensions. Different qualities such as Viton, EPDM or Kalrez can thereby be used without any problems. Select the correct O-rings according to the operating temperature or your medium, and order them separately.

Material

- The components of the "redmagic" that come into contact with the medium can, of course, be manufactured in Hastelloy C22/C276, titanium Grade 2, tantalum etc. on request. We regard the stainless variants in Material WNo. 1.4435 (AISI 316L) as the standard or basic models.

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.
- Torques from 20–90 Ncm are available for reactor volumes from 2 litres to max. 10 litres.
- The speed range from 200–1300 rpm at the driven shaft permits the use of ball bearings or slider bearings.

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