Inert magnetic drive for pressure reactors

bmd 250 «i» / cyclone 250 «i»

- wetted parts made of non-metallic material
- excellent corrosion resistance
- versatile
- low maintenance
- compact design

büchiglasuster
switzerland
Pilot Plant and Reactor Systems

bmd 250 «i» / cyclone 250 «i»

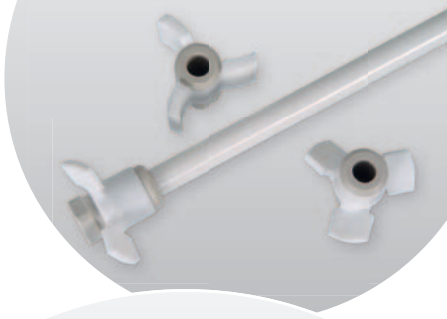
The inert magnetic drive product range bmd 250 «i» / cyclone 250 «i» was specially developed to avoid corrosion in processes with highly agressive media, or for processes where contact with metal parts is not permissible.

This new drive is based on the well known and proven Büchi magnetic coupling design. For all components which come into contact with the media non-metallic materials such as ceramic and PEEK are used. The strong mechanical and chemical stability guarantees trouble-free operation under the most harsh conditions.

This new technology allows us, for the first time, to provide powerful high-torque and leak-free agitators for non-metallic pressure reactors.

	bmd 250 «i»	cyclone 250 «i»
Torque	250 Ncm	250 Ncm
Pressure	-1 / +12 bar	-1 / +12 bar
Temperature	max. 200°C	max. 200°C
Speed	max. 2000 1/min.	0 – 2000 1/min
Bearings	Ceramic ball bearings	Ceramic ball bearings
Stirrer shaft	Ceramic Ø12/10mm	Ceramic Ø12/10mm
Process connection	Thread M36x1.5	Thread M36x1.5
Material (wetted parts)	Ceramic / PEEK / Kalrez	Ceramic / PEEK / Kalrez
Dimensions	H=255mm / Ø67mm	H=500mm / Ø115mm
Motor	–	Servomotor with resolver
Controller	–	cc300 with internal / external setpoint, RS232 interface, 100-230V, 50/60Hz
ATEX execution	optional	–

Ceramic stirrer shaft with interchangeable PTFE / PEEK stirrers



Special executions
are available upon request.

Magnetic coupling
bmd 250 «i»

Magnetic drive cyclone 250 «i»
with cc300 speed controller

Applications

inertclave with cyclone 250 «i»
Glass vessels 0.25 – 1.6 liter
Pressure max. 6 bar, max. 180°C
Components and internals made
of PTFE, PFA

kiloclave with bmd 250 «i» and ATEX drive
Glass lined steel vessels 1.0 – 20 liter
Pressure max. 12 bar, max. 200°C
Components and internals made of
PTFE, PFA , glass lined or Tantalum

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