

PMRK compressed air magnetic stirrer drives with M30 thread up to 200/700 bar

PMRK series drives feature a permanent magnetic coupling and a flanged, compressed air-driven motor. The use of a cardan coupling is unnecessary, meaning both vibrations and the installation height are reduced.

This version with M30x2 screw thread is suitable for applications under pressure up to 700 bar, depending on the material, and can easily be screwed into an autoclave lid.

Sealing to the autoclave lid is achieved using a cutting ring (HC 22)*, see accessories.

The speed is regulated by a continuously

adjustable fine control valve, with an analogue tachometer fitted as standard.

Magnetic stirrer drives are also available in titanium, zirconium and other materials or offering alternative torque levels.

The stirring system is supplied certified to ATEX regulations. Please order desired documentation separately.



Specifications

PMRK 11/16

Temperature: max. 300°C

Pressure: max. 200 bar

PMRK 11/17

Temperature: max. 300°C

Pressure: max. 700 bar

Type	Volume max. ml	Viscosity mPas	Torque Ncm	Speed max. rpm.	Material no.	Bearings	Code-No.
PMRK 11/16/90	5000	10000	90	1750	1.4435 (AISI 316L)	Ball bearings stainless steel	40 26446 00359 3
PMRK 11/16/90 HC	5000	10000	90	1150	2.4602 (HC 22)	Slide bearings PTFE/carbon	40 26446 00371 5
PMRK 11/17/90	5000	10000	90	1750	1.4980	Ball bearings stainless steel	40 26446 00479 8

* not included with delivery. Viscosity data to be considered as guidelines. Technical data pertaining to 6 bar operating pressure.

Dimensions of PMRK with thread

Type	A mm	B mm	C mm	D mm
PMRK 11/16/90	428	159.5	20	28
PMRK 11/17/90	428	159.5	20	28

Lid seal

Type	Code-No.
Cutting ring mat.no. 2.4602 (HC 22)	55100093

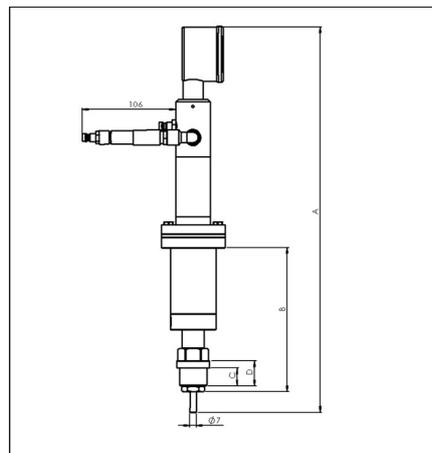
ATEX documentation 0/1:

Zone 0 in the reactor, zone 1 outside, EU declaration of conformity

ATEX documentation 1/1:

Zone 1 in the reactor, zone 1 outside, EU declaration of conformity

Type	Code-No.
ATEX Documentation 0/1	40 26446 00727 0
ATEX Documentation 1/1	40 26446 00767 6



Application example for PMRK with thread

Shown here is a PMRK 11/16/90 compressed air-powered magnetic stirrer drive, mounted on a 1000 ml capacity high pressure reactor at 200 bar and 250°C. Its design and construction allows use in applications up to 700 bar and 300°C, depending on the material it is manufactured from. The advantage of this series is its compact size compared to Ex-proof electrical drives. The whole stirring unit is suitable for use in Ex zones.

