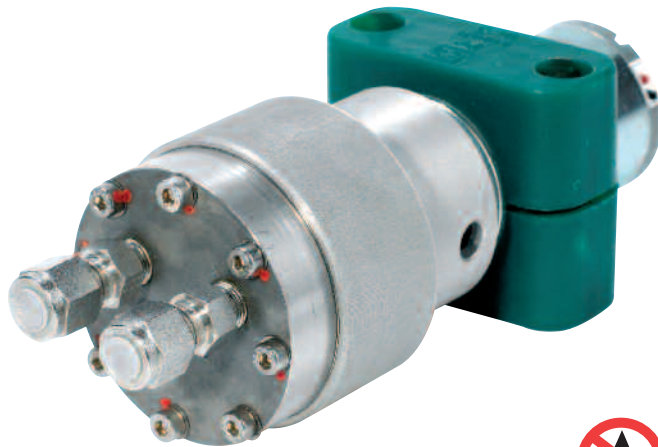




Gascirculators

**Series GK-M 02, GK-M 04, GK-M 07,
TFK-M 1, TFK-M 5.1, TFK-M 16.1**



Product Features

- Magnetically coupled
- Oil-less
- Air tight
- System pressure to 150 bar
- Wetted parts made out of stainless steel, carbon, viton, ceramics, magnet material
- Pump speed adjustable by changing voltage supply (DC)

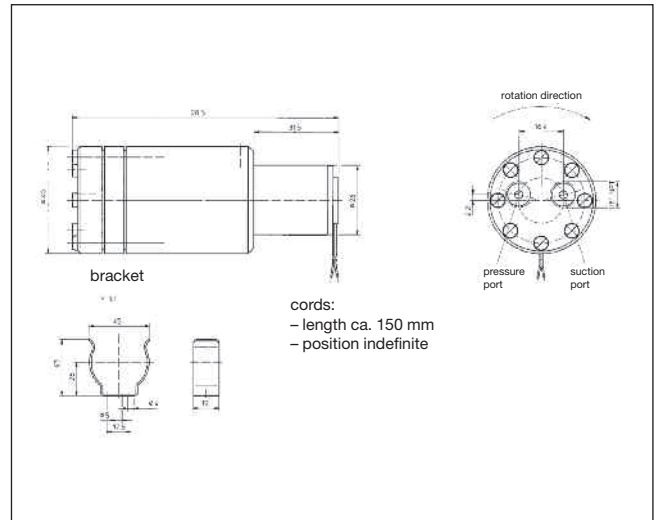
Range of Applications

- Conveyance of critical gasses
- Gas analysis
- All applications where air tightness of the system is a must



Gascirculator GK-M 02

Flow	2,8 l/min
Max. pressure	75 mbar
Max. vacuum	-125 mbar



Pneumatic Data

Description	GK-M 12/02	GK-M 24/02
Part number	51402	51403
Max. flow	2,5 l/min	2,8 l/min
Max. pressure	75 mbar	75 mbar
Max. continuous pressure difference ¹⁾	75 mbar	75 mbar
Max. vacuum	-100 mbar	-125 mbar
Max. system pressure	150 bar	150 bar

Electrical Data

Motor type	Permanent magnet	Permanent magnet
Nominal voltage	12 V DC	24 V DC
Max. current consumption ²⁾	0,12 A	0,10 A
Motor rating	9,1 W	13 W
Motor insulation class	B	B
Protection class	IP40	IP40
Motor bearing	Sleeve bearing	Sleeve bearing

General Data

Max. ambient temperature	30 °C	30 °C
Max. medium temperature	60 °C	60 °C
Weight	0,5 kg	0,5 kg
Direction of rotation	cw	cw

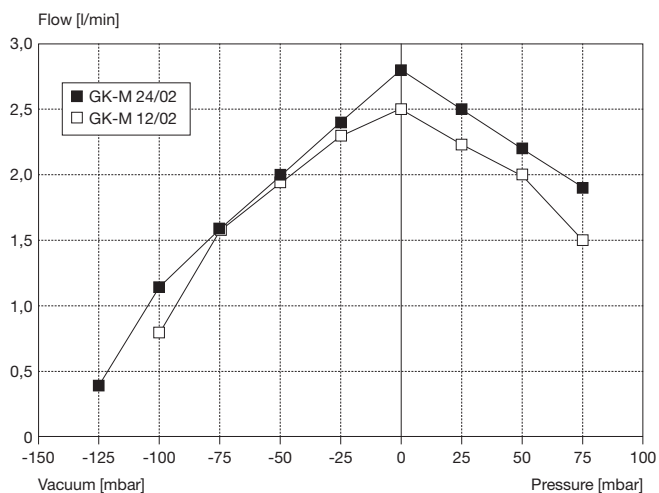
¹⁾ Measured at open system with pressure side throttled.

²⁾ Measured at max. differential pressure.

All flow values measured on suction side.

Gascirculator is not ATEX approved.

Flow curves

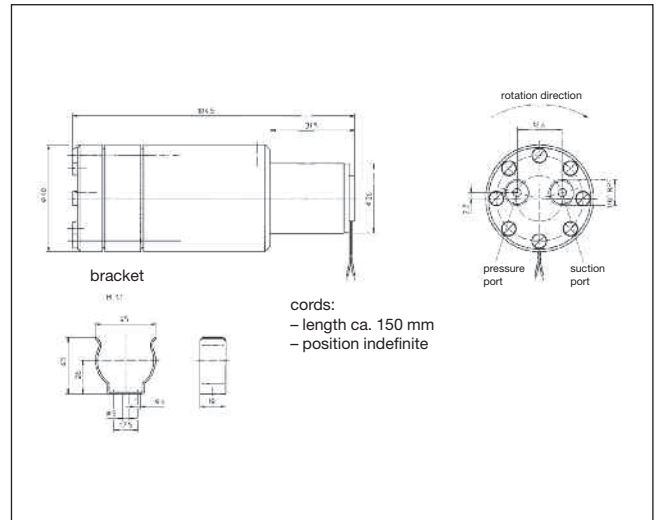


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Gascirculator GK-M 04

Flow	4,7 l/min
Max. pressure	100 mbar
Max. vacuum	-125 mbar



Pneumatic Data		
Description	GK-M 12/04	GK-M 24/04
Part number	51407	51438
Max. flow	4,2 l/min	4,7 l/min
Max. pressure	100 mbar	100 mbar
Max. continuous pressure difference ¹⁾	100 mbar	100 mbar
Max. vacuum	-125 mbar	-125 mbar
Max. system pressure	150 bar	150 bar

Electrical Data		
Motor type	Permanent magnet	Permanent magnet
Nominal voltage	12 V DC	24 V DC
Max. current consumption ²⁾	0,26 A	0,18 A
Motor rating	9,1 W	13 W
Motor insulation class	B	B
Protection class	IP40	IP40
Motor bearing	Sleeve bearing	Sleeve bearing

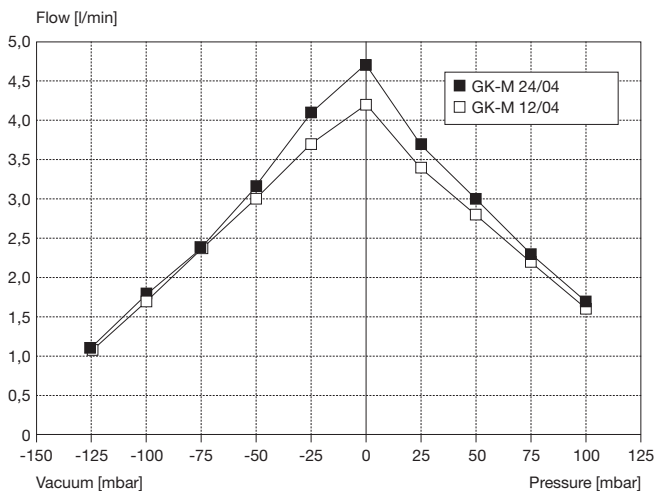
General Data		
Max. ambient temperature	30 °C	30 °C
Max. medium temperature	60 °C	60 °C
Weight	0,5 kg	0,5 kg
Direction of rotation	cw/ccw	cw/ccw

¹⁾ Measured at open system with pressure side throttled.

²⁾ Measured at max. differential pressure.

All flow values measured on suction side.
Gascirculator is not ATEX approved.

Flow curves

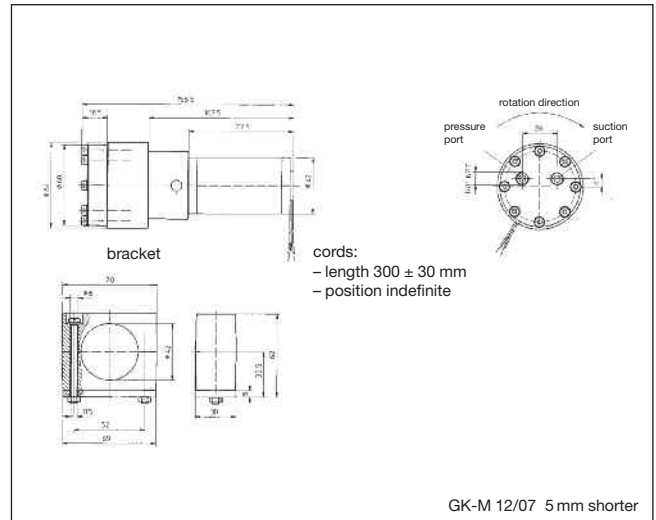


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Gascirculator GK-M 07

Flow	7,4 l/min
Max. pressure	100 mbar
Max. vacuum	-325 mbar



Pneumatic Data

Description	GK-M 12/07	GK-M 24/07
Part number	51444	51440
Max. flow	7,4 l/min	6,2 l/min
Max. pressure	100 mbar	100 mbar
Max. continuous pressure difference ¹⁾	100 mbar	100 mbar
Max. vacuum	-325 mbar	-325 mbar
Max. system pressure	150 bar	150 bar

Electrical Data

Motor type	Permanent magnet	Permanent magnet
Nominal voltage	12 V DC	24 V DC
Max. current consumption ²⁾	1,2 A	0,5 A
Motor rating	18 W	24 W
Motor insulation class	E	E
Protection class	IP40	IP40
Motor bearing	Sleeve bearing	Sleeve bearing

General Data

Max. ambient temperature	30 °C	30 °C
Max. medium temperature	60 °C	60 °C
Weight	1,5 kg	1,4 kg
Direction of rotation	cw/ccw	cw/ccw

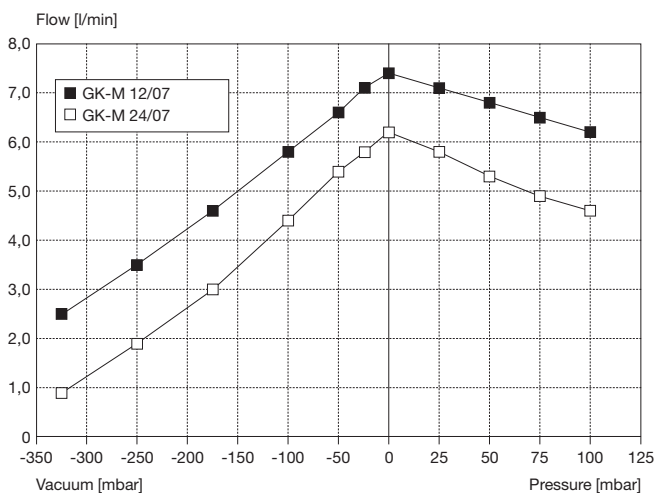
¹⁾ Measured at open system with pressure side throttled.

²⁾ Measured at max. differential pressure.

All flow values measured on suction side.

Gascirculator is not ATEX approved.

Flow curves

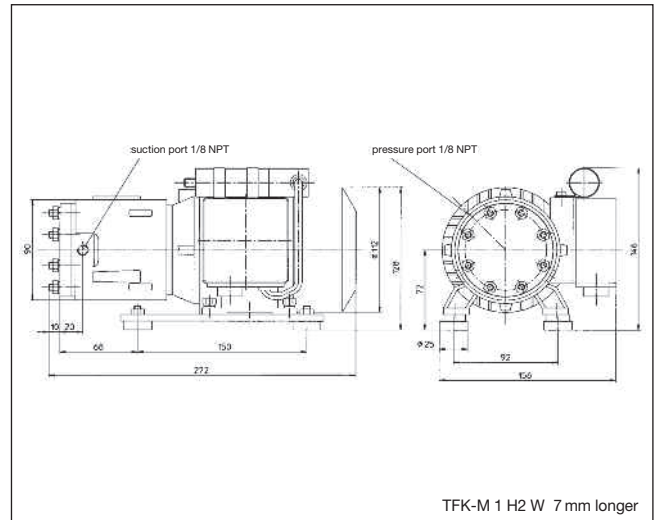


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Gascirculator TFK-M 1

Flow	1,6 m³/h
Max. pressure	300 mbar
Max. vacuum	-300 mbar



Pneumatic Data

Description	TFK-M 1 W	TFK-M 1 H2 W
Part number	51467	51468 ³⁾
Max. flow	1,6 m ³ /h	1,6 m ³ /h
Max. pressure	300 mbar	300 mbar
Max. continuous pressure difference ¹⁾	200 mbar	200 mbar
Max. vacuum	-300 mbar	-300 mbar
Max. system pressure	150 bar	50 bar

Electrical Data

Motor type	Capacitor	Capacitor
Nominal voltage	230 V/50 Hz	230 V/50 Hz
Max. current consumption ²⁾	0,7 A	0,7 A
Motor rating	90 W	90 W
Motor insulation class	F	F
Protection class	IP54	IP54
Motor bearing	Ball bearing	Ball bearing

General Data

Max. ambient temperature	30 °C	30 °C
Max. medium temperature	60 °C	60 °C
Weight	6,2 kg	6,5 kg
Direction of rotation	cw	cw

¹⁾ Measured at open system with pressure side throttled.

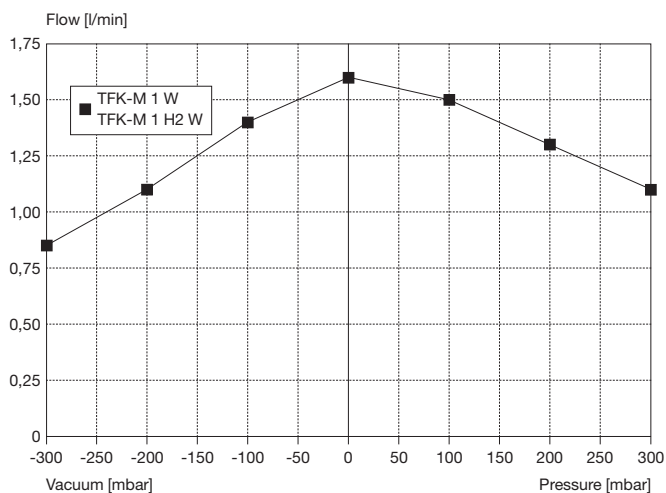
²⁾ Measured at max. differential pressure.

³⁾ Recommended for use if pumping medium contains hydrogen.

All flow values measured on suction side.

Gascirculator is not ATEX approved.

Flow curves

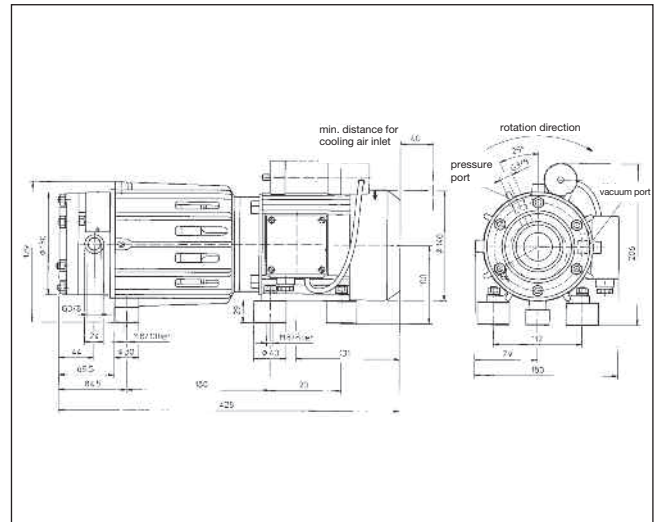


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Gascirculator TFK-M 5.1

Flow	4,6 m³/h
Max. pressure	500 mbar
Max. vacuum	-600 mbar



Pneumatic Data

Description	TFK-M 5.1 D
Part number	51462
Max. flow	4,6 m ³ /h
Max. pressure	500 mbar
Max. continuous pressure difference ¹⁾	400 mbar
Max. vacuum	-600 mbar
Max. system pressure	50 bar

Electrical Data

Motor type	Three phase AC
Nominal voltage	400 V/50 Hz
Max. current consumption ²⁾	0,7 A
Motor rating	370 W
Motor insulation class	F
Protection class	IP54
Motor bearing	Ball bearing

General Data

Max. ambient temperature	30 °C
Max. medium temperature	60 °C
Weight	21,8 kg
Direction of rotation	cw

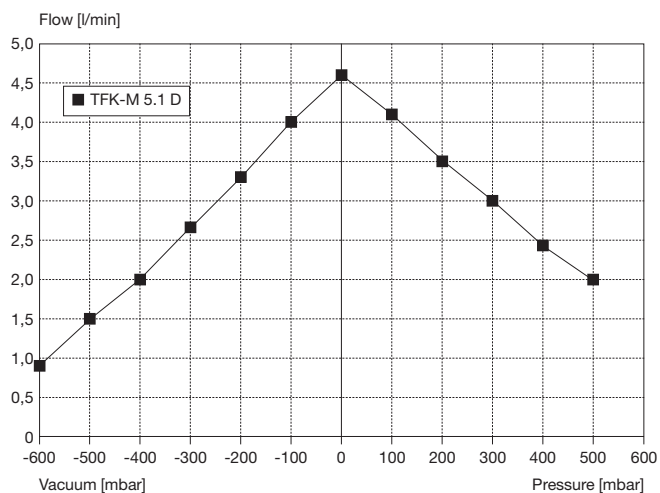
¹⁾ Measured at open system with pressure side throttled.

²⁾ Measured at max. differential pressure.

All flow values measured on suction side.

Gascirculator is not ATEX approved.

Flow curves

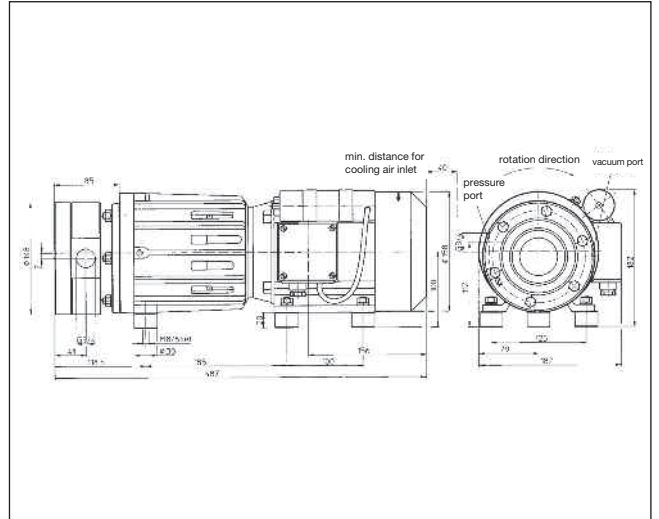


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Gascirculator TFK-M 16.1

Flow	15,5 m³/h
Max. pressure	500 mbar
Max. vacuum	-800 mbar



Pneumatic Data

Description	TFK-M 16.1 D
Part number	51433
Max. flow	15,5 m³/h
Max. pressure	500 mbar
Max. continuous pressure difference ¹⁾	400 mbar
Max. vacuum	-800 mbar
Max. system pressure	50 bar

Electrical Data

Motor type	Three Phase AC
Nominal voltage	400 V/50 Hz
Max. current consumption ²⁾	1,7 A
Motor rating	750 W
Motor insulation class	F
Protection class	IP54
Motor bearing	Ball bearing

General Data

Max. ambient temperature	30 °C
Max. medium temperature	60 °C
Weight	28,5 kg
Direction of rotation	cw

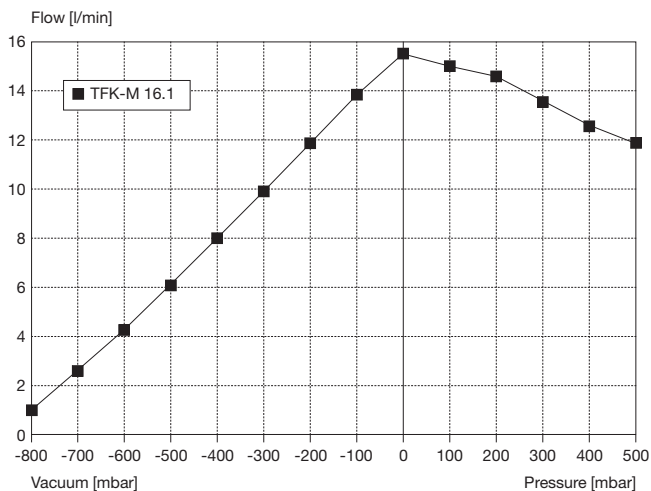
¹⁾ Measured at open system with pressure side throttled.

²⁾ Measured at max. differential pressure.

All flow values measured on suction side.

Gascirculator is not ATEX approved.

Flow curves



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