

Advantages



Economical & durable

- Economical due to high-quality engineering
- Long service life of fuel-resistant bearings and components
- Constant flow rate over the entire service life due to fuel-resistant bearing gress seal and self-adjusting piston seal



Safe & robust

- Explosion protection according to ATEX, certified according to ATEX (2014/34/EU), TÜV, QS, PTB and CN-EX
- Integrated flame arresters on the inlet and outlet side for maximum safety:
 - E85 suitable with IIA flame arresters
 - E100 suitable with IIB1 flame arrester
- Also suitable as flame arrester in vapour recovery systems
- Insensitive to condensate and liquid due to a patented pre chamber with integrated drainage system



Versatile & variable

- Versatile Drive:
 - Belt- or clutch drive (MEX 0831-11/600)
 - Direct drive (MEX 0544 and MEX Vapour Control)
- Also suitable for retrofitting
- Variable mounting positions possible
- Wide temperature operating range: -40 °C to +60 °C

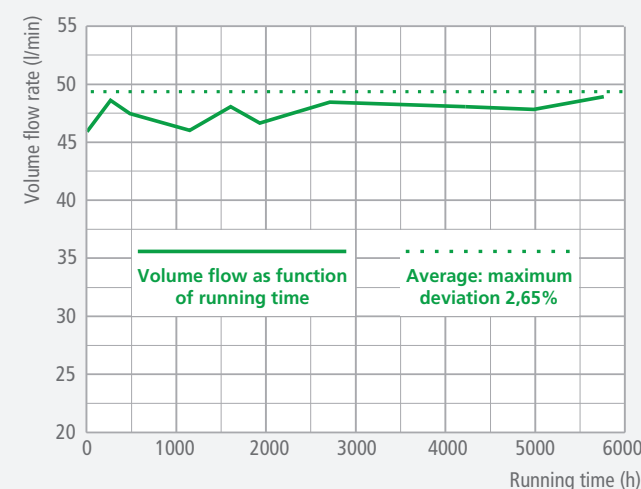


Universal & service-friendly

- Best suited for worldwide operation due to adapted motor speed for 50/60 Hz
- Universally compatible pump heads fit all motor variants
- Quick and easy disassembly of the pump head due to special coupling
- Independent of direction of rotation

Dürr Technik ■ Quality
 ■ Made in
 ■ Germany

Characteristic volume flow rate of MEX pumps at a speed of 2,000 rpm



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Inspiring With Green Air

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MEX – Vapour recovery
 Made in Germany



Inspiring With Green Air



The original from Dürr Technik

In many countries around the world it is compulsory that filling stations be fitted with a vapour recovery system. Since 2009 the EC Directive 2009/126/EC requires the installation of Stage II vapour recovery systems in the petrol dispenser.

Vapour recovery systems suck off the petrol vapour/air mixture at the filling nozzle and pump it back into the storage tanks of the petrol station. Thus, the escaping petrol vapours – which are harmful to health and the environment – cannot get into the atmosphere.

Legal requirements and automatic monitoring systems place the highest demands on the reliability of vapour recovery systems. In case of a problem with the vapour recovery the filling station operator is required by law to switch off the petrol dispenser within a certain limited period of time. In Germany this period is 72 hours.

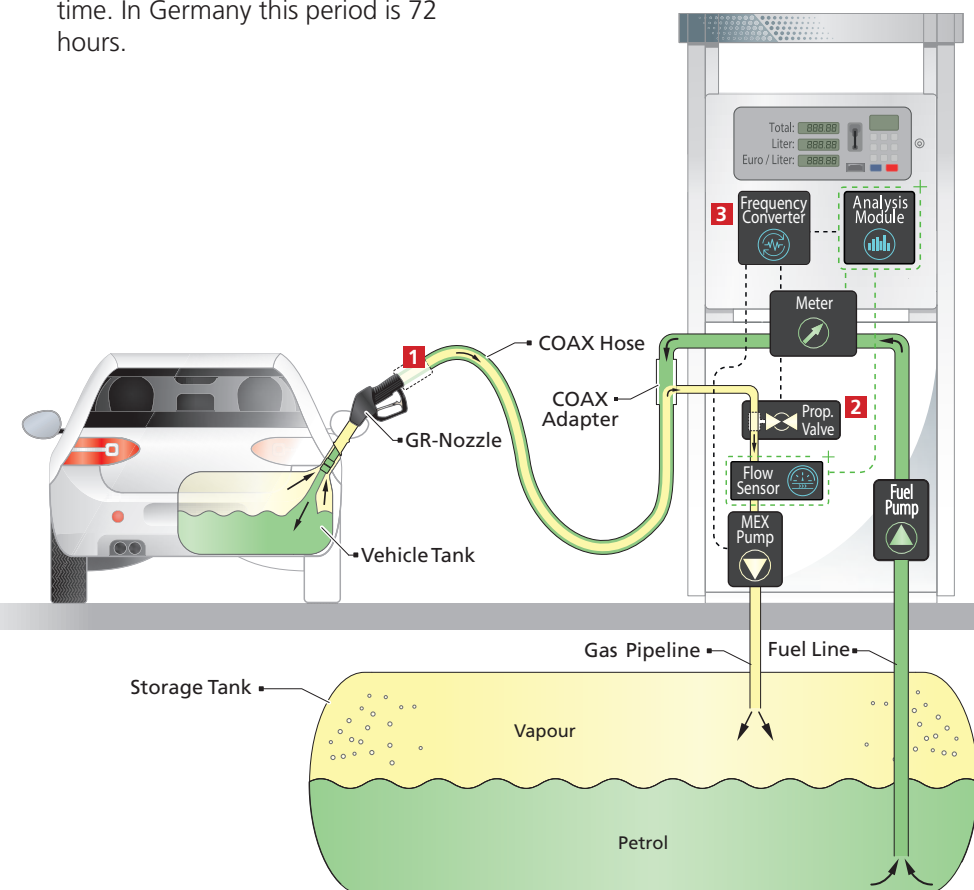
The key factor for a troublefree vapour recovery system is a reliable vapour recovery pump with a constant flow volume.

Since 1994 Dürr Technik has manufactured the MEX piston pump, which was developed especially for vapour recovery. The fact that there are several hundred thousand such pumps in operation all over the world bears witness to their reliability and flexibility.

Functioning

The function is based on regulating the ratio of the fuel pumped into the vehicle tank and the petrol vapour sucked off.

This ratio is set to 1:1 (proportionality) and controlled by a mechanical **1** or electrical **2** proportional valve. Systems with speed control **3**, like our all-in-one solution MEX Vapour Control, do not require proportional valves.



MEX Direct Drive 1-Cylinder 0544



For use in dispensers with only one dispensing side

Type	Flow volume V (l/min)	Relay (V)	Rated current (A)	Nominal voltage (V)	Frequency (Hz)	Dimensions L X W X H (mm)
3-Motor 50 Hz						
0544 1000K	53	24 DC	0,75	380-415	50	312 x 174 x 201
0544 1100K	53	without	0,75	380-415	50	312 x 174 x 201
0544 1700K	53	220-240 AC	0,75	380-415	50	312 x 174 x 201
1-Motor 50 Hz						
0544 1200K	53	24 DC	2,30	220-230	50	367 x 174 x 201
0544 1250K	53	220-240 AC	2,30	220-230	50	367 x 174 x 201
0544 1300K	53	without	2,30	220-230	50	367 x 174 x 201
1-Motor 60 Hz						
0544 1400K	44	24 DC	1,80	110-127	60	367 x 174 x 201
0544 1800K	38	without	1,15	220	60	367 x 174 x 201

MEX Direct Drive 2-Cylinder 0544



For use in dispensers with two dispensing sides

Type	Flow volume V (l/min)	Relay (V)	Rated current (A)	Nominal voltage (V)	Frequency (Hz)	Dimensions L X W X H (mm)
3-Motor 50 Hz						
0544 2000K	53	24 DC	1,0	380-415	50	434 x 174 x 201
0544 2100K	53	without	1,0	380-415	50	434 x 174 x 201
0544 2700K	53	220-240 AC	1,0	380-415	50	434 x 174 x 201
1-Motor 50 Hz						
0544 2200K	53	24 DC	3,0	220-230	50	489 x 174 x 201
0544 2250K	53	230 AC	3,0	220-230	50	489 x 174 x 201
0544 2300K	53	without	3,0	220-230	50	489 x 174 x 201
1-Motor 60 Hz						
0544 2400K	44	24 DC	2,9	110-127	60	489 x 174 x 201
0544 2800K	38	without	1,7	220	60	489 x 174 x 201
3-Motor 60 Hz	44	24 DC	1,2/0,7	230-400	60	434 x 174 x 201

MEX Direct Drive 1-Cylinder DC Motor



For the mobile filling station

Type	Flow volume V (l/min)	Relay (V)	Rated current (A)	Nominal voltage (V)	Frequency (Hz)	Dimensions L X W X H (mm)
0544100096	53	12 DC	20	12 DC	50	423 x 176 x 201
0544100152	53	24 DC	13	24 DC	50	423 x 176 x 201

V = Volume flow at back pressure $p_b = 150$ mbar and a suction pressure $p_{abs} = 900$ mbar
 Medium to be pumped: Air
 Sound level < 70 dB(A)
 p_{abs} = absolute pressure

MEX Vapour Control



The all-in-one solution for your petrol dispenser

This speed controlled model offers a smart and innovative all-in-one solution for dispensers worldwide. MEX Vapour Control consists of a particularly compact MEX direct drive 1-cylinder and a frequency converter, which controls the speed of the motor during vapour recovery, comfortably calibrated by our PC software „Dürr Tronic MEX-Soft“.

The electronic speed control ensures that petrol vapours are optimally extracted and at the same time reduces mechanical wear and tear on the engine and other mechanical components, as these only deliver maximum performance when required. Due to the electronic speed control proportional valve is no longer required.

Type	Flow volume V (l/min)	Relay (V)	Rated current (A)	Nominal voltage (V)	Frequency (Hz)	Frequency converter (V)	Dimensions L x W x H (mm)
0544100200 with VFD 0545100001	42 at 1800 rpm	without	0,65	230 3~	50	230 1~	232 x 160 x 209

Features of the vapour recovery pump MEX Vapour Control

- Reduced operating costs by using an energy efficient IE3 motor with premium efficiency
- Longer service life and less maintenance thanks to reduced wear of mechanical components through soft starting with low starting currents
- Precise speed control through frequency converter instead of proportional valve
- Effective use of electrical energy through high power factor
- Quiet operation due to the optimal control of the vapour recovery pump for the specific operation

PC software



For the installation and calibration of MEX Vapour Control

DürrTronic MEX-Soft

- Covers all installation and calibration procedures
- Checks the vapour recovery system
- Supports you in diagnostic operation
- Is developed by Dürr Technik and available free of charge on the Dürr Technik website

Download

PC software „DürrTronic MEX-Soft“

