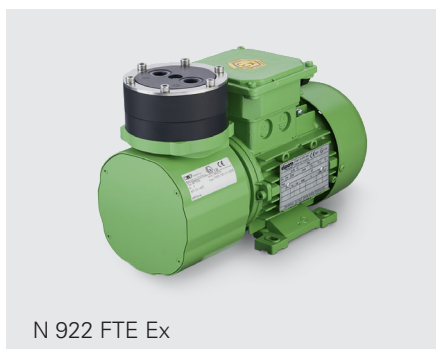


# N 922 FT SERIES – 60 HZ VERSION EXPLOSION PROOF PUMPS



N 922 FTE Ex

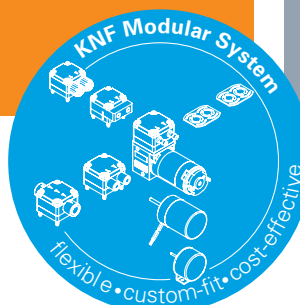
## ADVANTAGES

- High chemical resistance
- Robust design
- Easy to service – wearing parts are inexpensively and easy to replace
- Maintenance work can be easily carried out even on assembled analytical systems
- Durable even with difficult operating conditions
- Motor approved in accordance with IECEx<sup>1)</sup>

## POSSIBLE AREAS OF USE

- Environmental monitoring – especially in potentially explosive fields
- Process industry
- Chemical industry

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to get more information



PERFORMANCE DATA				
Series model	N 922 8L		N 922 16L	
Material design	FTE Ex	FT.29 E Ex	FTE Ex	FT.29 E Ex
Pump head	Modified PTFE			
Diaphragm	PTFE-coated			
Valves	FFPM			
Flow rate at atm. pressure (l/min)	9.0 ± 10 %	4.0–9.0 ± 10 %	18.0 ± 10 %	12.0–18.0 ± 10 %
Ultimate vacuum (mbar abs.)	350		200	
Max. operating pressure (bar rel./psig)	1.5/21.8		2.0/29.0	
Permissible ambient temperature (°C)	+5 ... +50			
Permissible media temperature (°C)	+5 ... +50			
Weight (kg/lbs)	7.2/15.8			
ELECTRICAL DATA				
Voltage (V)	230	220	115	100
Motor	Capacitor motor			
Protection class motor	IP 66			
Protection class pump	IP 54			
Frequency (Hz)	60			
Power P <sub>2</sub> (W)	120			
I <sub>N</sub> (A)	1.06			
Explosion protection capacitor motor	Ex II 2G Ex db eb IIC T4 Gb <sup>1)</sup>			

<sup>1)</sup>IECEx only applies outside the EU. Operation of this pump is not permitted in the EU! The pump does not comply with EU directives.

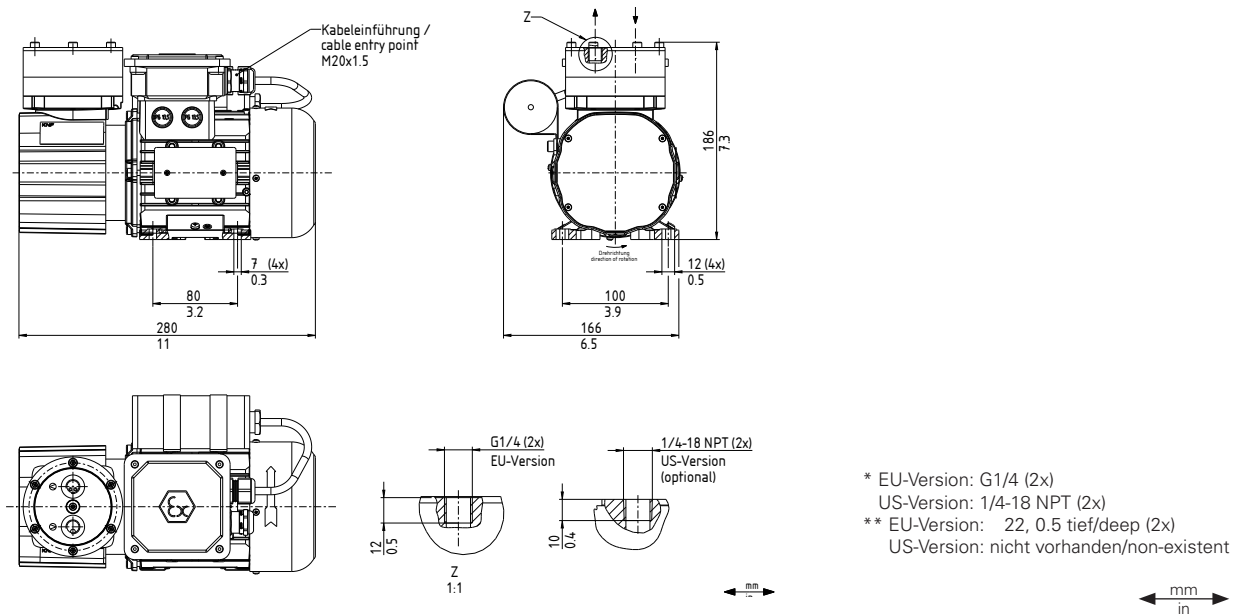
# N 922 FTE EX 8L – 60 HZ VERSION

## PERFORMANCE DATA

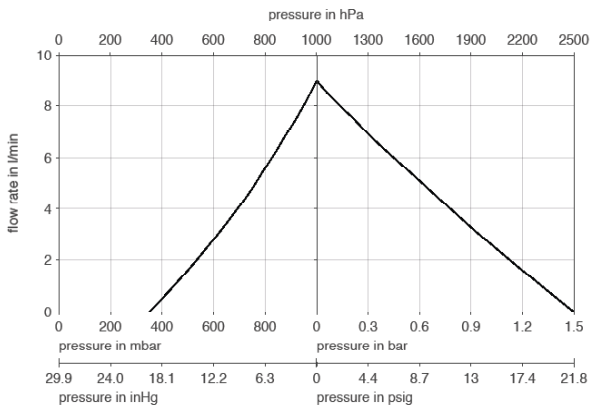
Series model	Flow rate at atm. pressure (l/min) <sup>2)</sup>	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 922 FTE Ex 8L	9.0 ± 10 %	1.5/21.8	350

<sup>2)</sup> Flow rate determined at 20 °C, 1013 mbar abs.  
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

## N 922 FTE EX 8L

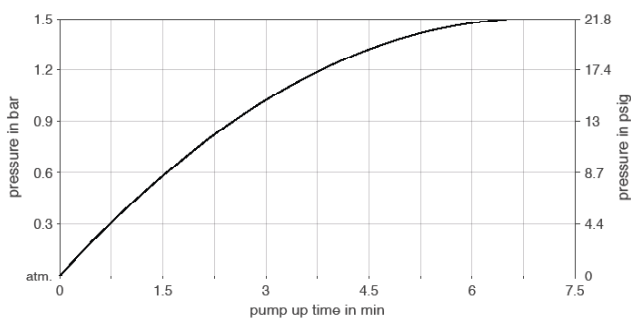


## N 922 FTE EX 8L

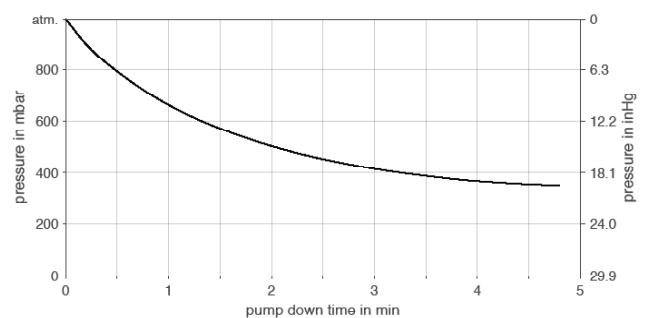


Flow rate determined at 20 °C, 1013 mbar abs.  
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

## N 922 FTE EX 8L | PUMP UP TIME FOR 20 LITER VESSEL



## N 922 FTE EX 8L | PUMP DOWN TIME FOR 20 LITER VESSEL



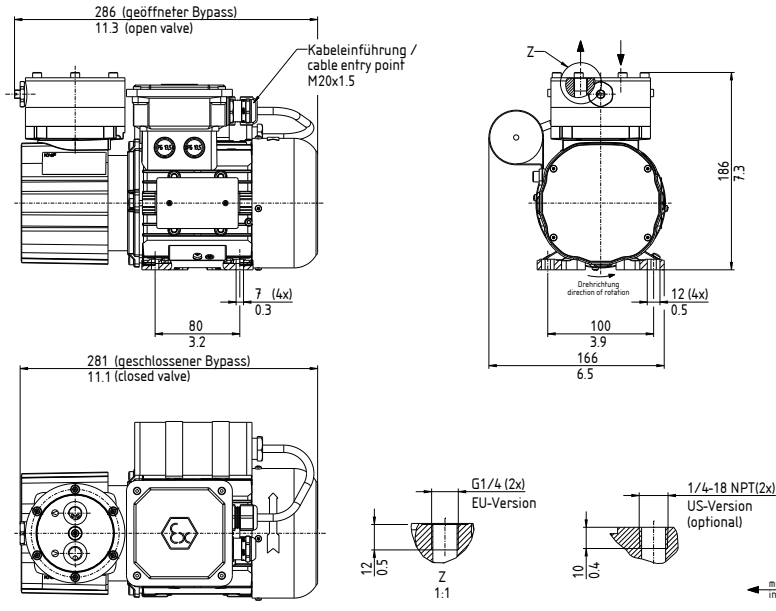
# N 922 FT.29 E EX 8L – 60 HZ VERSION

## PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min) <sup>2)</sup>	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 922 FT.29 E Ex 8L	4.0–9.0 ± 10 %	1.5/21.8	350

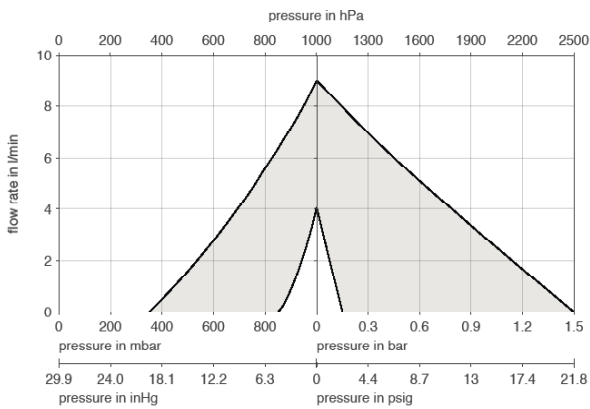
<sup>2)</sup> Flow rate determined at 20 °C, 1013 mbar abs.  
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

## N 922 FT.29 E EX 8L



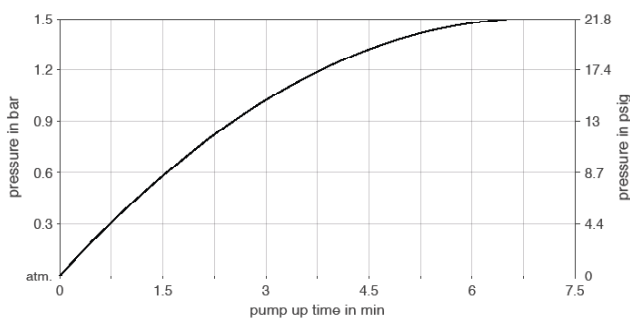
\* EU-Version: G1/4 (2x)  
US-Version: 1/4-18 NPT (2x)  
\*\* EU-Version: 22, 0.5 tief/deep (2x)  
US-Version: nicht vorhanden/non-existent

## N 922 FT.29 E EX 8L

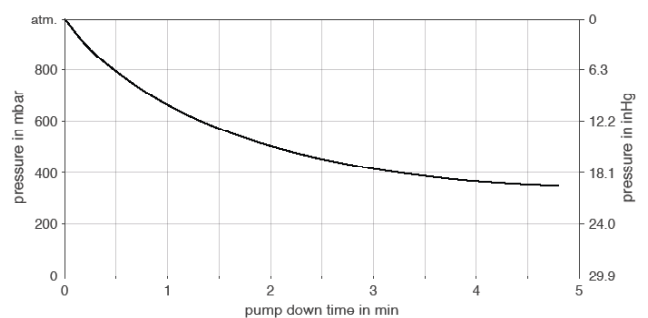


Flow rate determined at 20 °C, 1013 mbar abs.  
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

## N 922 FT.29 E EX 8L | PUMP UP TIME FOR 20 LITER VESSEL



## N 922 FT.29 E EX 8L | PUMP DOWN TIME FOR 20 LITER VESSEL



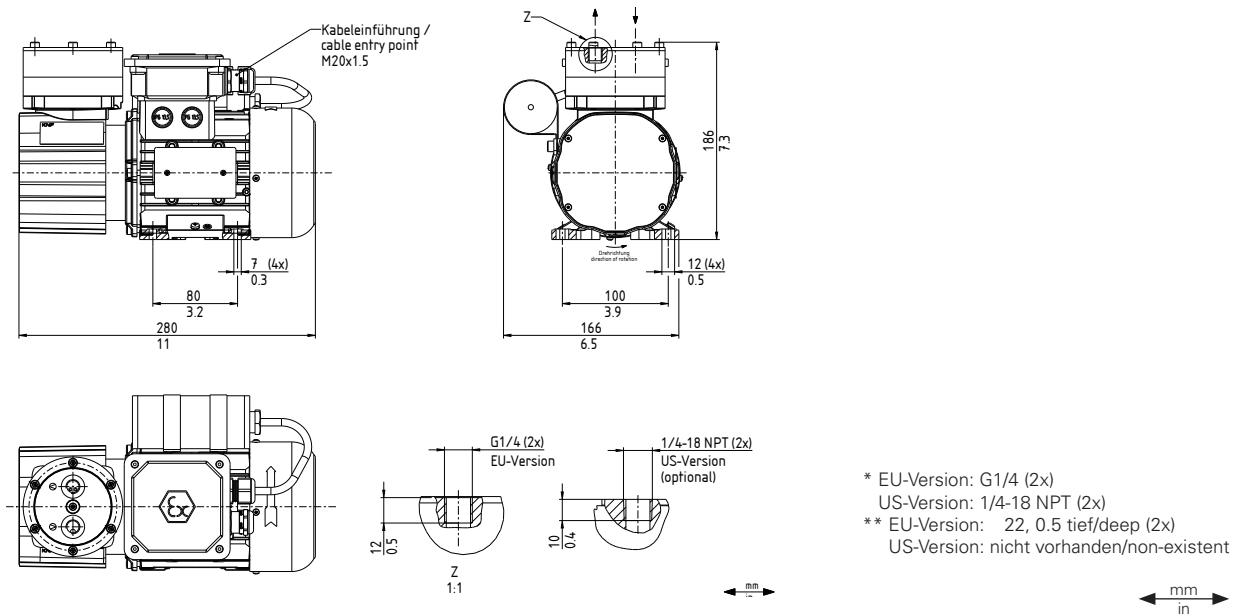
# N 922 FTE EX 16L – 60 HZ VERSION

## PERFORMANCE DATA

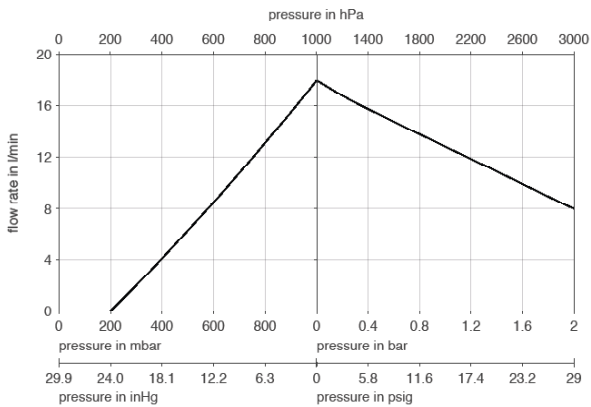
Series model	Flow rate at atm. pressure (l/min) <sup>2)</sup>	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 922 FTE Ex 16L	18.0 ± 10 %	2.0/29.0	200

<sup>2)</sup> Flow rate determined at 20 °C, 1013 mbar abs.  
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

## N 922 FTE EX 16L

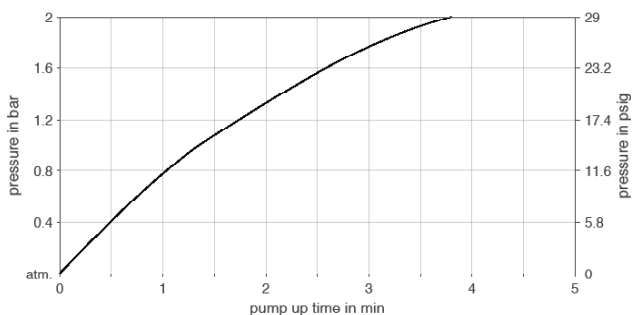


## N 922 FTE EX 16L

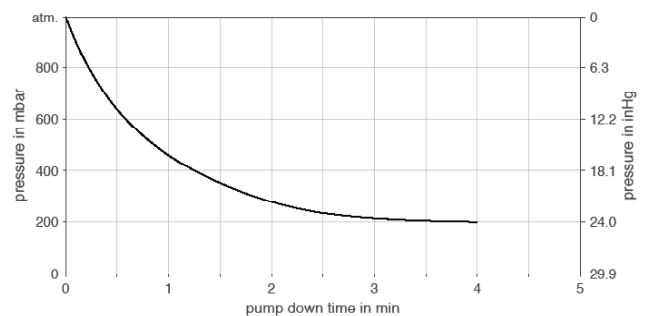


Flow rate determined at 20 °C, 1013 mbar abs.  
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

## N 922 FTE EX 16L | PUMP UP TIME FOR 20 LITER VESSEL



## N 922 FTE EX 16L | PUMP DOWN TIME FOR 20 LITER VESSEL



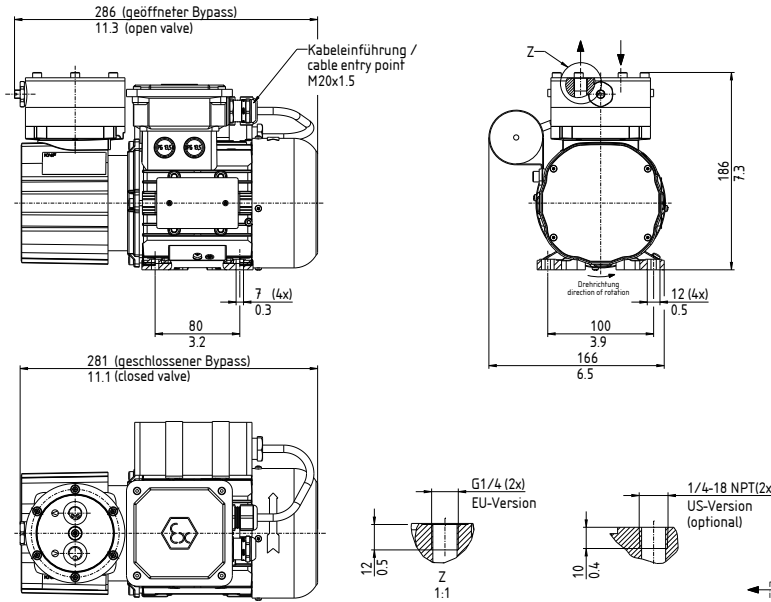
# N 922 FT.29 E EX 16L – 60 HZ VERSION

## PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min) <sup>2)</sup>	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 922 FT.29 E Ex 16L	12.0–18.0 ± 10 %	2.0/29.0	200

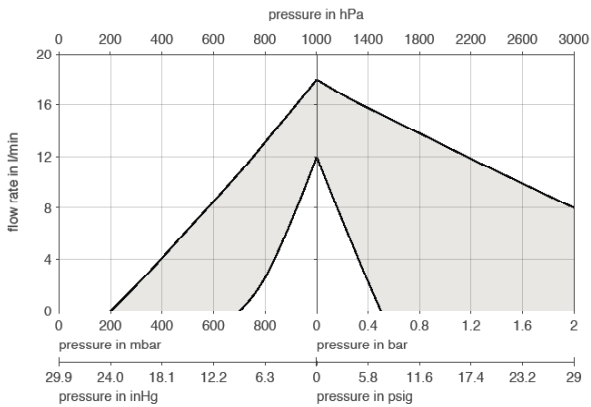
<sup>2)</sup> Flow rate determined at 20 °C, 1013 mbar abs.  
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

## N 922 FT.29 E EX 16L



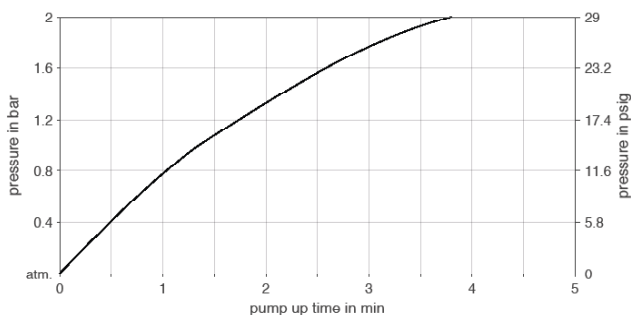
\* EU-Version: G1/4 (2x)  
US-Version: 1/4-18 NPT (2x)  
\*\* EU-Version: 22, 0.5 tief/deep (2x)  
US-Version: nicht vorhanden/non-existent

## N 922 FT.29 E EX 16L

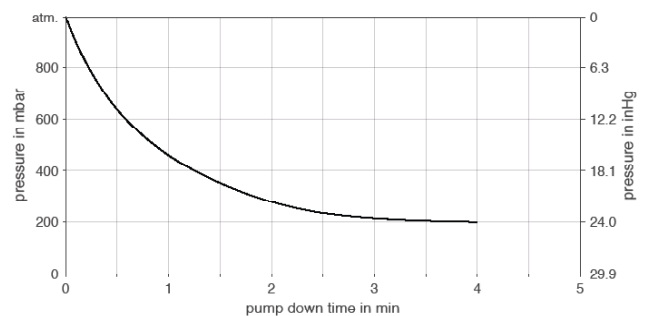


Flow rate determined at 20 °C, 1013 mbar abs.  
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)






## N 922 FT.29 E EX 16L | PUMP UP TIME FOR 20 LITER VESSEL



## N 922 FT.29 E EX 16L | PUMP DOWN TIME FOR 20 LITER VESSEL



## OPTIONS

Description	Illustration	Details
Mechanical adjustment of pumping capacity		The pumping capacity can be adjusted at the factory to accommodate inlet pressure and for accurate alignment with the customer's system.
Pump housing can be rotated at 90° intervals		Pumps with a pump housing rotated at 90° intervals can be mounted at the factory. The customer may also rotate the pump housing later.
Pump with mounting bracket		The mounting bracket can be mounted at the factory.
Country-specific Ex certificates		Pumps with certificates for KOSHA, PESO, NEPSI and JIS are also available.
Cleaned contact material parts		For the use of the pump with gases with high oxygen concentrations the parts that come into contact with the medium can be cleaned using a certified process.

## ACCESSORIES

Description	Illustration	Part No.	Details
Tube fitting for tube ID 6, PVDF		303623	G 1/4
Mounting kit shock mounts		313180	
Mounting kit shock mounts and mounting bracket		313181	

## SPARE PARTS

Description	Illustration	Part No.	Details
Spare parts kit N 922 FTE Ex		313515	Spare parts kit consists of: 1x diaphragm, 2x valve plate/ sealing. This set is required to maintain the pump.
Spare parts kit N 922 FT.29 E Ex		313516	Spare parts kit consists of: 1x diaphragm, 2x valve plate/ sealing, 1x O-ring. This set is required to maintain the pump.
Throttle valve (only for .29 versions)		309629	

The performance values for the series models shown on this data sheet were determined under test conditions. The actual performance values may differ and depend in particular on the usage conditions and therefore on the specific application, on the parameters of the components involved in the user's system and on any technical modifications carried out which deviate from the standard configuration or the as delivered condition.

If individual designs have been created for specific customers on the basis of series models, other technical performance data may apply. Before operation begins, the relevant operating instructions and/or assembly or installation instructions should be read and the safety information contained in these instructions should be noted. KNF reserves the right to make changes to the product and the associated documentation without prior notice to the customer.



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