N 922 SERIES – 50 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 ATEX/IECEx

POSSIBLE AREAS OF USE

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

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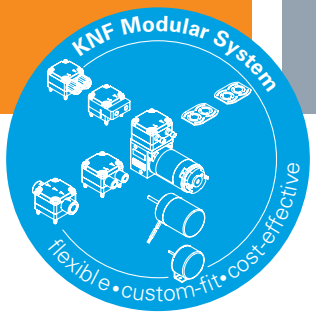


PERFORMANCE DATA				
Series model	**N 922 8L**		**N 922 16L**	
Material design	**FTE Ex**	**FT.29 E Ex**	**FTE Ex**	**FT.29 E Ex**
Pump head	Modified PTFE			
Diaphragm	PTFE-coated			
Valves	FFPM			
Flow rate at atm. pressure (l/min)	7.5 ± 10 %	3.0–7.5 ± 10 %	16.0 ± 10 %	10.0–16.0 ± 10 %
Ultimate vacuum (mbar abs.)	350		200	
Max. operating pressure (bar rel./psig)	1.5/21.8		1.0/14.5	
Permissible ambient temperature (°C)	+5 ... +50			
Permissible media temperature (°C)	+5 ... +50			
Weight (kg/lbs)	7.2/15.8			
ELECTRICAL DATA				
Voltage (V)	230			
Motor	Capacitor motor			
Protection class motor	IP 66			
Protection class pump	IP 54			
Frequency (Hz)	50			
Power P_2 (W)	120			
I_N (A)	1.09			
Explosion protection pump parts	Ex II 2G Ex h IIB+H2 T3 Gb			
Explosion protection capacitor motor	Ex II 2G Ex de IIC T4			

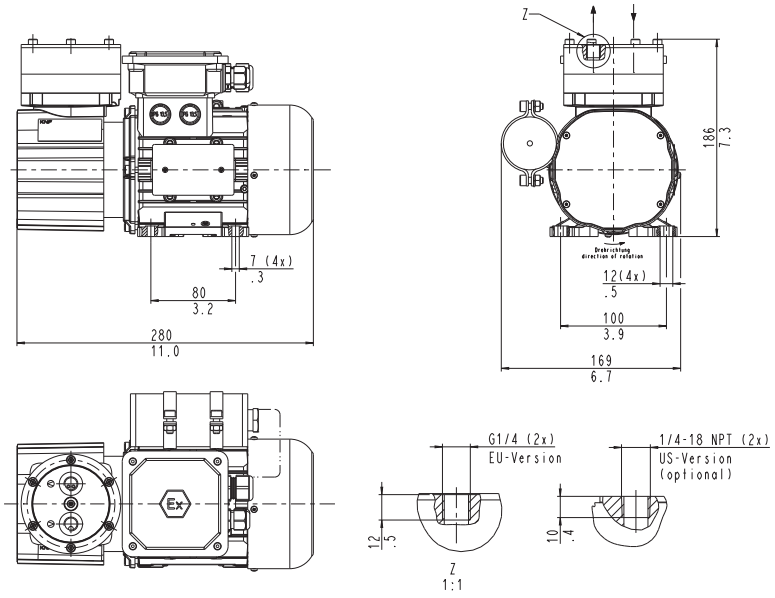
N 922 FTE EX 8L – 50 HZ VERSION

PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)[1]	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 922 FTE Ex 8L	7.5 ± 10 %	1.5/21.8	350

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

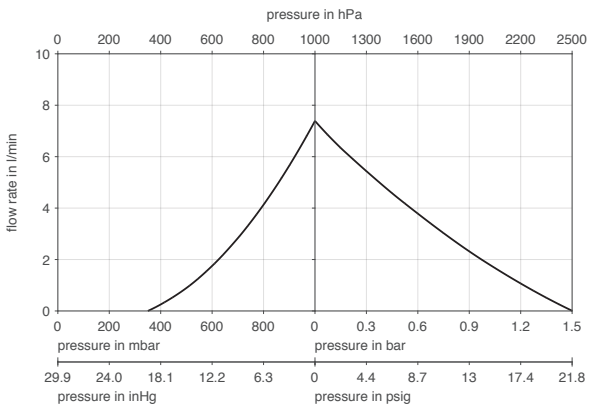
N 922 FTE EX 8L



* 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

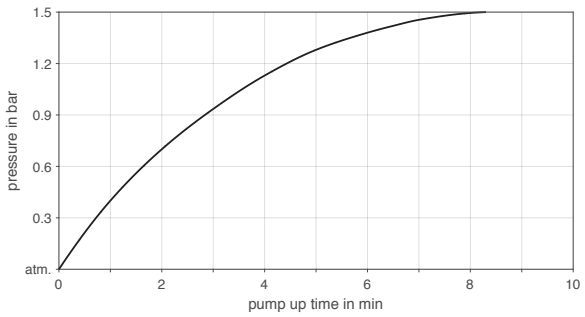
mm
in

N 922 FTE EX 8L

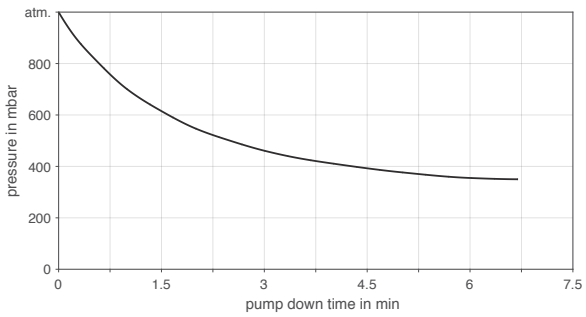


Flow rate determined at 20 °C, 1013 mbar abs.
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

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



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



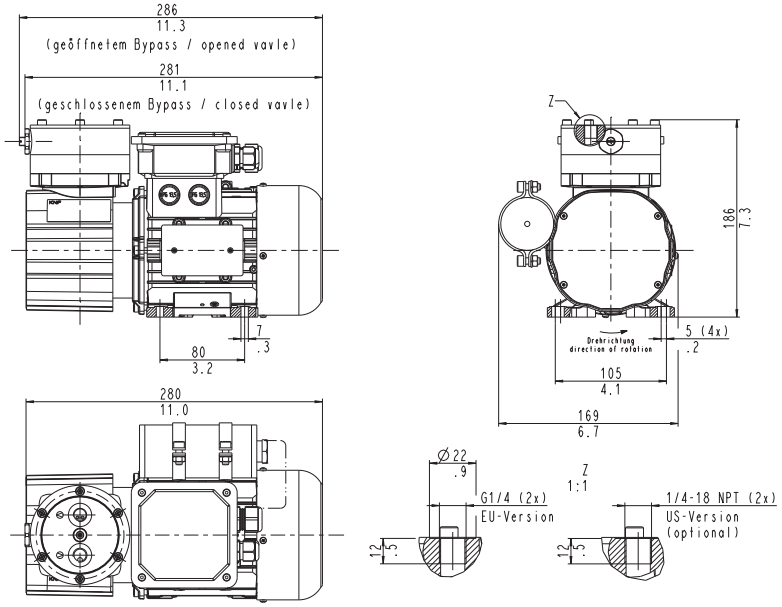
N 922 FT.29 E EX 8L – 50 HZ VERSION

PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)[1]	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 922 FT.29 E Ex 8L	3.0–7.5 ± 10 %	1.5/21.8	350

[1] 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



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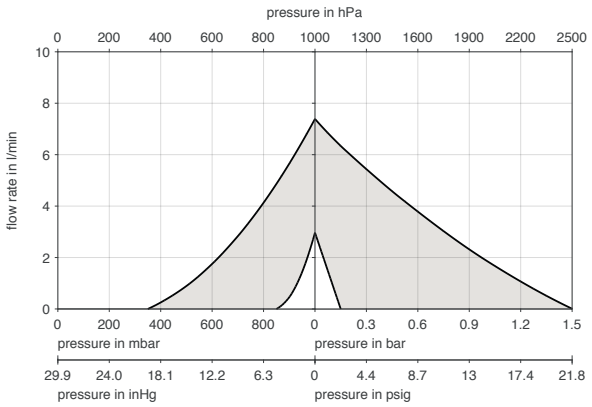
US-Version: nicht vorhanden/non-existent

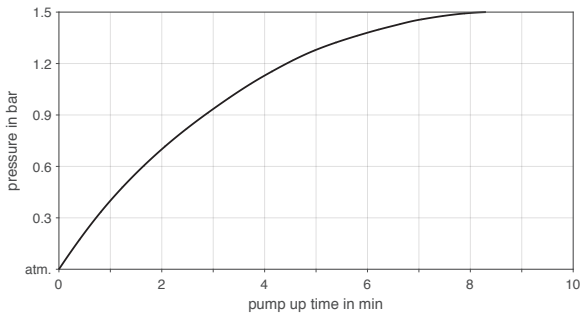
mm
in

N 922 FT.29 E EX 8L

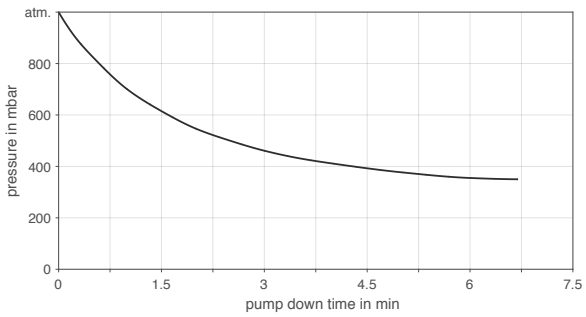


Flow rate determined at 20 °C, 1013 mbar abs.
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

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



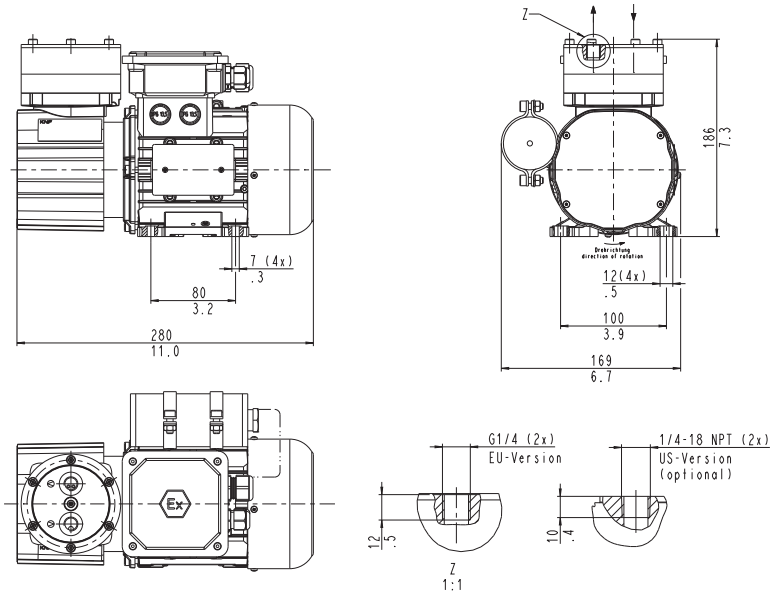
N 922 FTE EX 16L – 50 HZ VERSION

PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)[1]	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 922 FTE Ex 16L	16.0 ± 10 %	1.0/14.5	200

[1] 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



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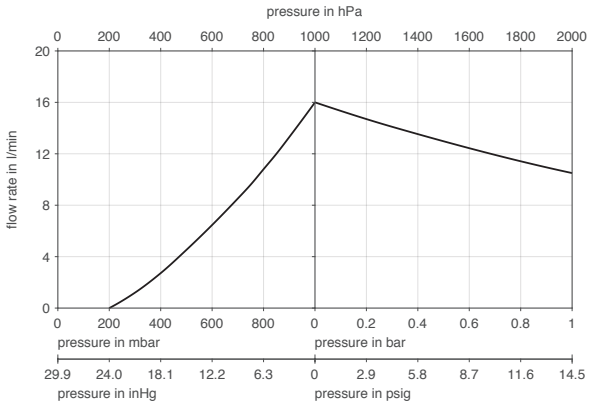
US-Version: 1/4-18 NPT (2x)
** EU-Version: ∅ 22, 0.5 tief/deep (2x)
US-Version: nicht vorhanden/non-existent

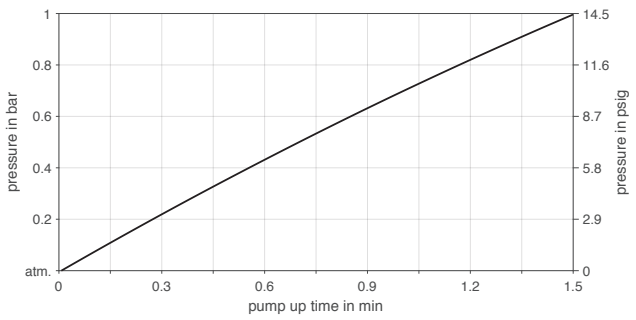
mm
in

N 922 FTE EX 16L

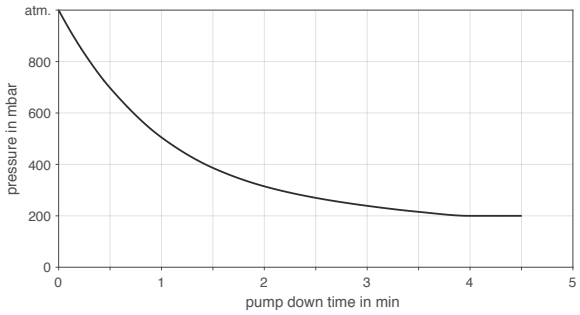


Flow rate determined at 20 °C, 1013 mbar abs.
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

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



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



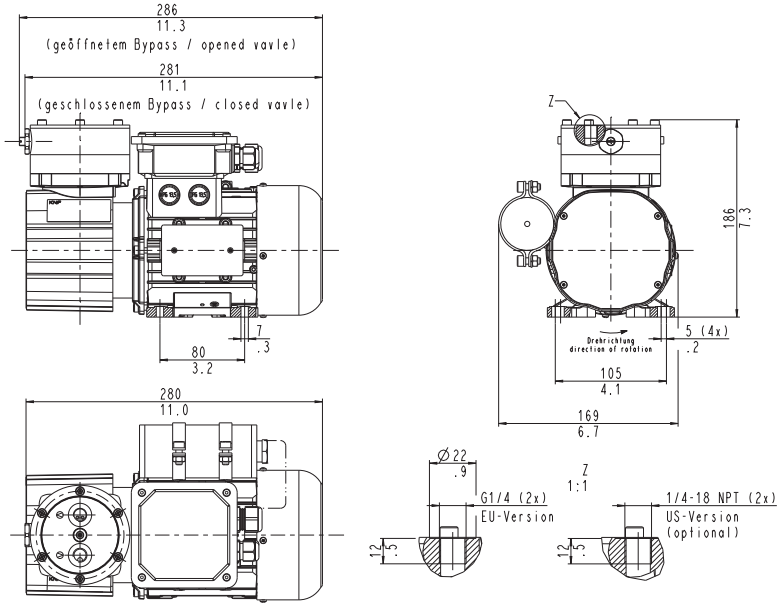
N 922 FT.29 E EX 16L – 50 HZ VERSION

PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)[1]	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 922 FT.29 E Ex 16L	10.0–16.0 ± 10 %	1.0/14.5	200

[1] 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



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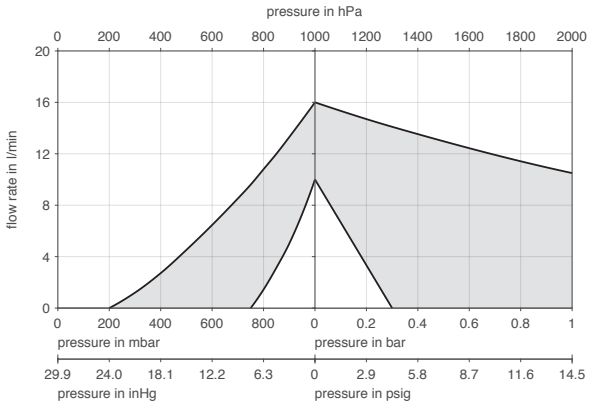
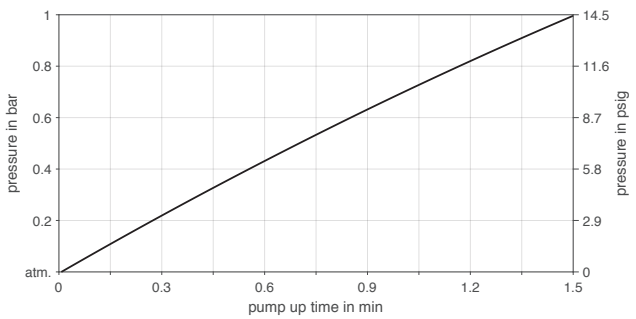
mm
in

N 922 FT.29 E EX 16L

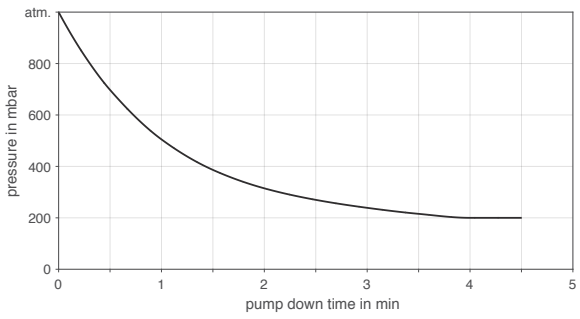


Flow rate determined at 20 °C, 1013 mbar abs.
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

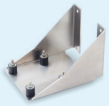
N 922 FT.29 E EX 16L | PUMP UP TIME FOR 20 LITER VESSEL



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



ACCESSORIES

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

SPARE PARTS

Description	Part No.
Spare parts kit N 922 FTE Ex	313515
Spare parts kit N 922 FT.29 E Ex	313516
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.
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