

N 0150, N 0150.1.2 AND N 0150.3 SERIES EXPLOSION PROOF PUMPS



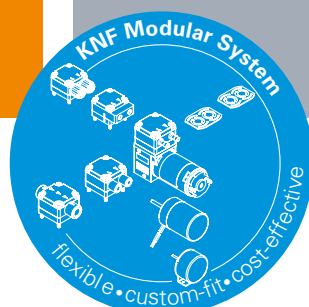
ADVANTAGES

- High chemical resistance
- Durable even with difficult operating conditions
- High level of gas tightness: approx. 6×10^{-3} mbar l/s
- High level of performance in a compact size

POSSIBLE AREAS OF USE

- Environmental monitoring – especially in potentially explosive fields
- Process industry
- Chemical industry
- Energy technology
- Maritime – especially for engine monitoring and emission measurement

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PERFORMANCE DATA

| Series model | N 0150 | N 0150.1.2 | N 0150.3 |
|---|-----------------|------------|-----------|
| Material design | ST.9 E Ex | ST.9 E Ex | ST.9 E Ex |
| Pump head | Stainless steel | | |
| Diaphragm | PTFE-coated | | |
| Valves | Stainless steel | | |
| Flow rate at atm. pressure (l/min) | 100 | 200 | 100 |
| Ultimate vacuum (mbar abs.) | 130 | | 30 |
| Max. operating pressure (bar rel./psig) | 1.0/14.5 | | 0.5/7.3 |
| Permissible ambient temperature (°C) | +5 ... +40 | | |
| Permissible media temperature (°C) | +5 ... +40 | | |
| Weight (kg/lbs) | 58.0/128.0 | 73.0/161.0 | |

ELECTRICAL DATA

| | |
|--|----------------------------|
| Voltage (V) | 230/400 |
| Motor | Three-phase motor |
| Protection class motor | IP 55 |
| Protection class pump | IP 20 |
| Frequency (Hz) | 50 |
| Power P ₂ (W) | 1100 |
| Explosion protection three-phase motor | Ex II 2G Ex de IIC T4 Gb |
| I _N (A) | 4.15/2.40 |
| Explosion protection pump parts | Ex II 2G Ex h IIB+H2 T3 Gb |

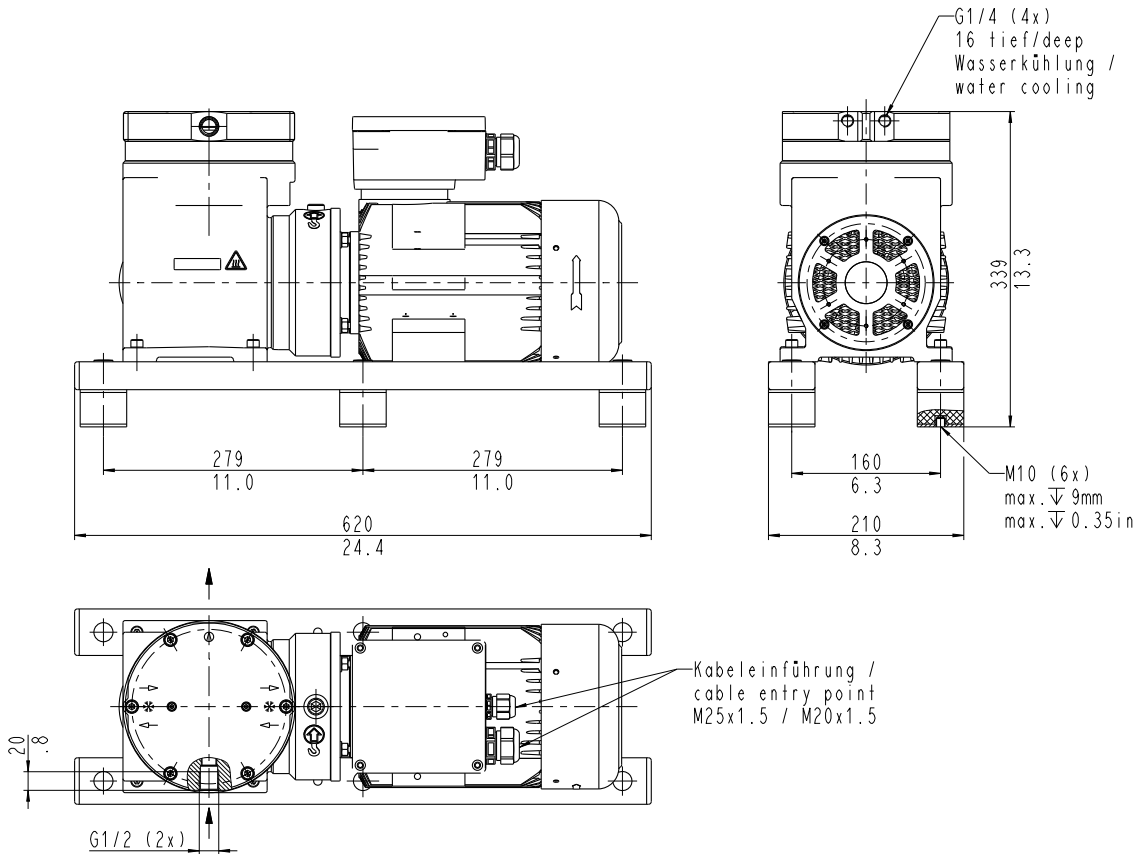
N 0150 ST.9 E EX

PERFORMANCE DATA

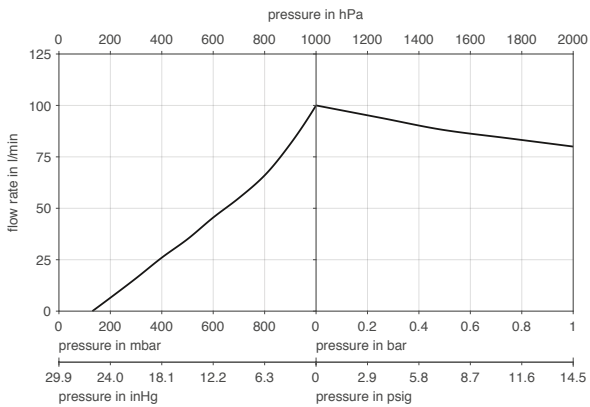
| Series model | Flow rate at atm. pressure (l/min) ¹⁾ | Max. operating pressure (bar rel./psig) | Ultimate vacuum (mbar abs.) |
|------------------|--|---|-----------------------------|
| N 0150 ST.9 E Ex | 100 | 1.0/14.5 | 130 |

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

N 0150 ST.9 E EX

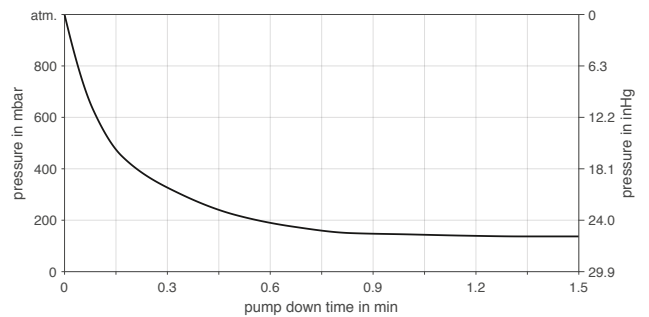


N 0150 ST.9 E EX



N 0150 ST.9 E EX I

PUMP DOWN TIME FOR 20 LITER VESSEL



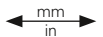
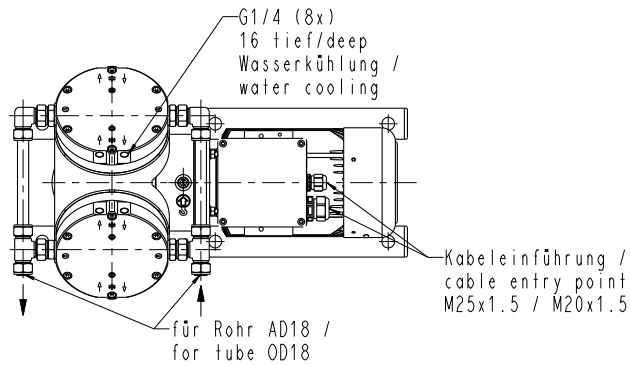
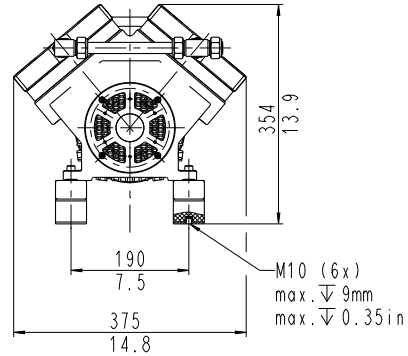
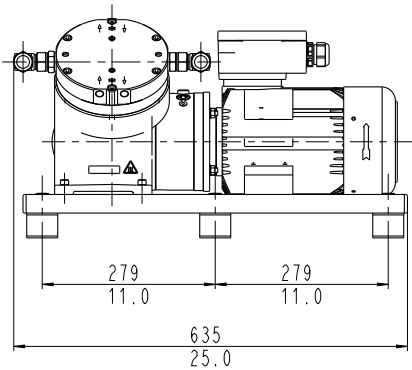
N 0150.1.2 ST.9 E EX

PERFORMANCE DATA

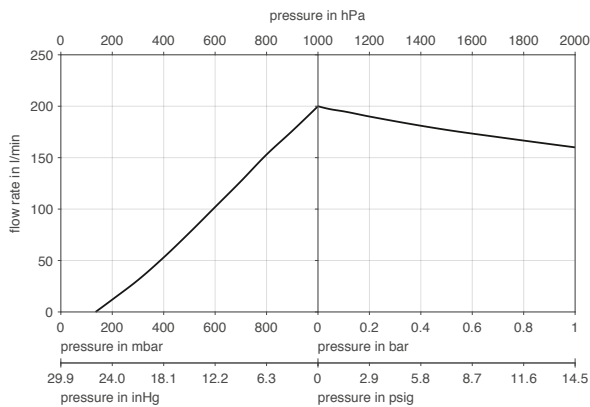
| Series model | Flow rate at atm. pressure (l/min) ¹⁾ | Max. operating pressure (bar rel./psig) | Ultimate vacuum (mbar abs.) |
|----------------------|--|---|-----------------------------|
| N 0150.1.2 ST.9 E Ex | 200 | 1.0/14.5 | 130 |

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

N 0150.1.2 ST.9 E EX

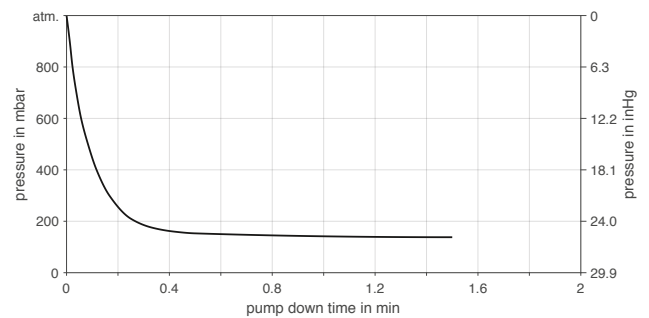


N 0150.1.2 ST.9 E EX



N 0150.1.2 ST.9 E EX I

PUMP DOWN TIME FOR 20 LITER VESSEL



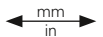
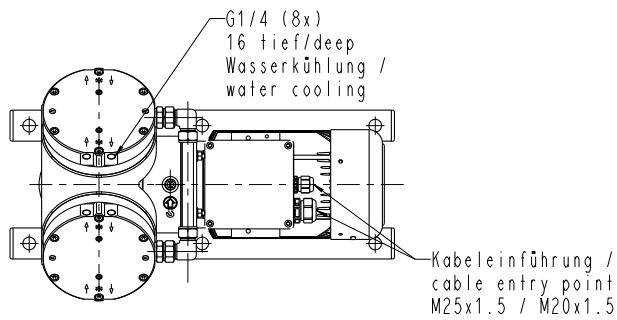
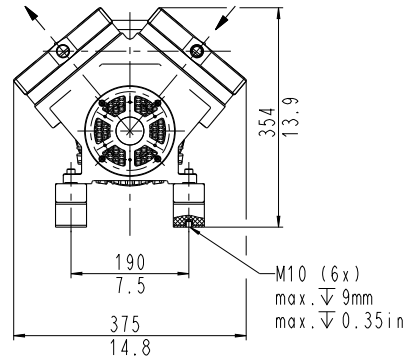
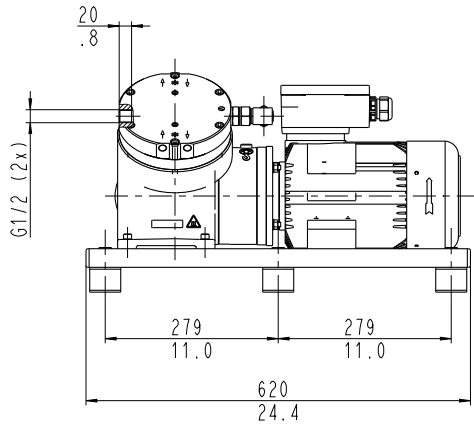
N 0150.3 ST.9 E EX

PERFORMANCE DATA

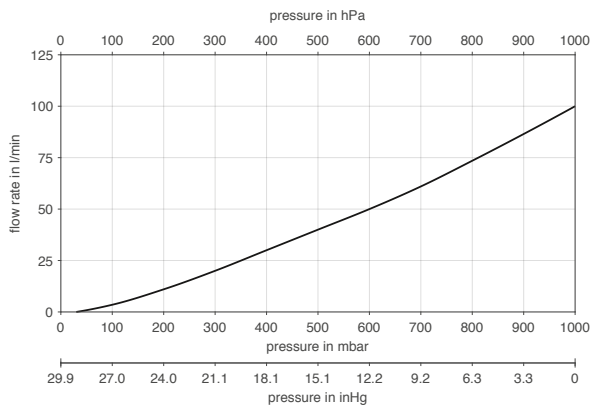
| Series model | Flow rate at atm. pressure (l/min) ¹⁾ | Max. operating pressure (bar rel./psig) | Ultimate vacuum (mbar abs.) |
|--------------------|--|---|-----------------------------|
| N 0150.3 ST.9 E Ex | 100 | 0.5/7.3 | 30 |

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

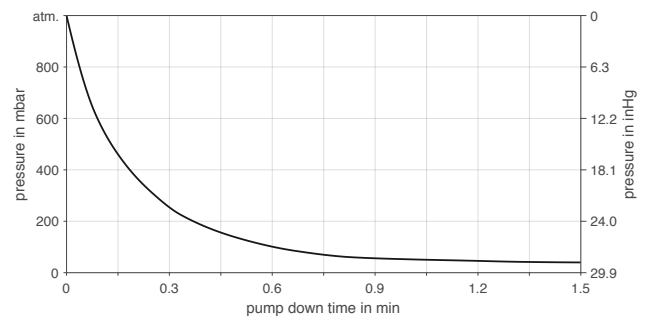
N 0150.3 ST.9 E EX



N 0150.3 ST.9 E EX



N 0150.3 ST.9 E EX I PUMP DOWN TIME FOR 20 LITER VESSEL



ACCESSORIES

| Description | Illustration | Part No. |
|--|--|----------|
| Connection water cooling device N 0150 ST.9 E Ex |  | 305998 |
| Connection water cooling device N 0150.1.2 ST.9 E Ex |  | 306765 |
| Connection water cooling device N 0150.3 ST.9 E Ex |  | 306765 |
| Transport eyebolt |  | 311535 |
| Inlet filter G1/2 |  | 316662 |
| Wrench for retainer plate |  | 018816 |

SPARE PARTS

| Description | Part No. |
|--------------------------------------|----------|
| Spare parts kit N 0150 ST.9 E Ex | 321947 |
| Spare parts kit N 0150.1.2 ST.9 E Ex | 321948 |
| Spare parts kit N 0150.3 ST.9 E Ex | 321948 |

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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