

Diaphragm Pumps

Conforming to ATEX

- These pumps are specifically designed for use in potentially explosive atmospheres (Equipment Group II, Categories 2 G and 3 G)
- Pump design and documentation according to ATEX (Guideline 94/9/EC)
- Excellent pump gas-tightness
- Non-contaminating transfer, evacuation and compression
- Oil-free pumps - no disposal issues
- Greatly increased safety via the KNF double diaphragm system



explosion protected



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KNF product range of ATEX pumps

Type		Flow rate atm. conditions (l/min)	Vacuum (mbar abs.)	atm. Press.	Pressure (bar g)
N 87 TTE	Chemically-resistant pump head	7.5	140		1.5
N 026 AT.9E	Pump head in aluminium	17	100		2.5
N 026.ST.9E	Pump head in stainless steel	17	100		2.5
N 026.1.2 AT.9E	Pump heads in aluminium	33	100		2.0
N 026.1.2 ST.9E	Pump heads in stainless steel	33	100		2.0
N 143 AT.9E	Pump head in aluminium	27	100		4
N 143 ST.9E	Pump head in stainless steel	27	100		4
N 186 1.2 AT.9E	Pump heads in aluminium	50	100		4
N 186 1.2 ST.9E	Pump heads in stainless steel	50	100		4
N 0150 AT.9E	Pump head in aluminium	120	115		1.0
N 0150 ST.9E	Pump head in stainless steel	120	115		1.0
N 0150 1.2 AT.9E	Pump heads in aluminium	220	115		1.0
N 0150 1.2 ST.9E	Pump heads in stainless steel	220	115		1.0

Modell codes and materials:

TT = Pump head in PVDF, diaphragm PTFE coated, valves in FFPM

AT = Pump head in aluminium, diaphragm PTFE coated, valves in stainless steel

ST = Pump head in stainless steel, diaphragm PTFE coated, valves in PTFE

The double diaphragm system for increased safety

The safety of diaphragm pumps has been greatly improved by KNF's patented double diaphragm system. This system is characterized by a special layout of the diaphragms:

below the working diaphragm, an additional safety diaphragm is provided resulting in:

- A particularly high gastightness, which is further increased by O-rings; achievable leakage rates of 6×10^{-6} mbar/ls guarantee that the medium cannot escape from the pump chamber.

KNF's Double Diaphragm System:
above – working diaphragm
below – safety diaphragm



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