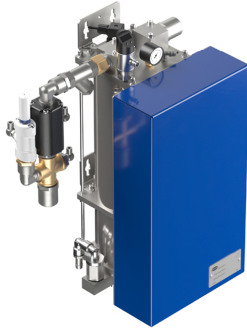
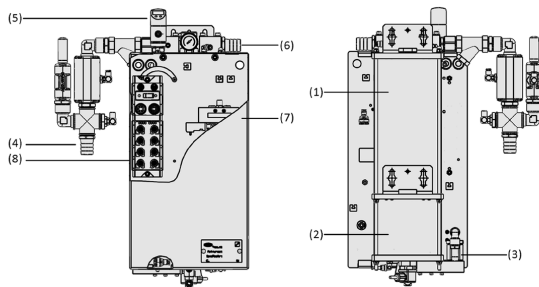


Liquid Separators NLS

Separation capacity: 60 l/h



Liquid Separators NLS



System design Liquid Separators NLS



Liquid separator NLS in use on a CNC machining center

Suitability for industry specific applications

Application

- Use in CNC machining centers with vacuum system for metal cutting with cooling lubricant
- High separation performance protects even powerful vacuum generators from liquid ingress
- Control and monitoring via the control of the CNC machining center by means of industrial ethernet connection
- Automatic separation and recirculation of the liquid during operation of the machine
- Suitable for continuous use in three shift operation

Design

- Liquid separator in two-chamber design; upper chamber (1) with permanent vacuum for separation during operation
- Lower chamber (2) with separated liquid and hose connection (3) for returning the liquid
- Switchable vacuum supply to the clamping system (4) incl. ventilation with robust pinch valves
- Digital vacuum switch with IO-Link function (5) for monitoring the vacuum level
- Hose connection (6) for connecting any vacuum generator
- Valve unit (7) and bus module (8) for control and integration into the bus system of the CNC machine

Product highlights

- Automatic separation and long life ensure uninterrupted machining and maximize overall equipment efficiency (OEE)
- Vacuum and level monitoring ensure high process control and transparency
- Convenient operation via the machine's HMI thanks to simple integration into the bus system
- Compact design with separate pump saves installation space when integrating into the overall machine
- Sucked in coolant is recycled into the machine and can be reused

Liquid Separators NLS

Separation capacity: 60 l/h

Designation code Liquid Separators NLS

NLS	–	431x276x615	–	AD	–	F	–	EIP
1		2		3		4		5

1 – Abbreviated designation

Code	Version
NLS	NLS

2 – Dimensions

Code	Dimensions: in mm
431x276x615	431x276x615

3 – Additional function

Code	Type
AD	Automatic emptying

4 – Control

Code	Control
F	External controlled

5 – Communication

Code	Type
EIP	EtherNet/IP
PNT	Profinet
-	Without network module

The separator NLS is supplied ready for connection. The electronic integration into the bus system must be carried out by the customer. A function module can be provided on request.

Ordering data Liquid Separators NLS

Type	Part no.
NLS 431x276x615 AD F	10.01.27.01884 
NLS 431x276x615 AD F EIP	10.01.27.01883 
NLS 431x276x615 AD F PNT	10.01.27.01831 

Ordering data Spare parts Liquid Separators NLS

Type		Part no.
Check valve	SVK G3/8-IG	10.01.27.01662
Solenoid valve	EMVP 6 24V-DC 3/2 NC	10.05.02.00293
Solenoid valve	EMVP 7 24V-DC 5/2 NO/NC	10.05.02.00294
Pinch valve	QV G3/8-IG	10.05.06.00085
Pinch valve	QV G3/4-IG	10.05.06.00093
Ball valve	KVZ 8 2/2	10.05.08.00018
Proximity switch	NAEH-SCHA NO 250V	10.01.27.01851
Proximity switch	NAEH-SCHA NC 250V	10.01.27.01852
Vacuum/pressure switch	VSi VP10 D M12-4	10.06.02.00798
Vacuum gauge	VAM 40 V U BAR	10.07.02.00046
Sieve insert	SIEB-EINS 24x 41 NLS	10.01.27.01862
Silencer (round)	SD G3/8-AG 20x56 SEG	10.02.01.00905
Sealing element	DR-10x50 NBR	10.05.06.00113
Vacuum hose (meter)	VSL 4-2 PU MI-TR	10.07.09.00001
Vacuum hose (meter)	VSL 6-4 PU MI-TR	10.07.09.00002

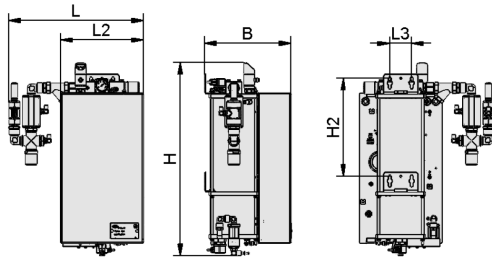
Ordering data Accessories Liquid Separators NLS

Accessories		Part no.
Vacuum hose (meter)	VSL 48-38 PU-DS-AS TR	10.07.09.00031
Vacuum hose (meter)	VSL 19-13 PVC-DS KL-TR	10.07.09.00016

Liquid Separators NLS

Separation capacity: 60 l/h

Design data Liquid Separators NLS



NLS

Liquid Separators NLS

Separation capacity: 60 l/h

Design data Liquid Separators NLS

Type	B [mm]	H [mm]	H2 [mm]	L [mm]	L2 [mm]	L3 [mm]
NLS 431x276x615 AD F PNT	276	615	313.0	431	265	70
NLS 431x276x615 AD F EIP	276	615	-	431	-	-
NLS 431x276x615 AD F	276	615	-	431	-	-