

Sening® MultiFittings

One Stop Shop for Tank Truck Fittings

Sening has been developing and producing tank truck products for over 100 years. Today, Sening offers innovative and customer-oriented solutions in the field of tank truck fittings.

Sophisticated products are required to fulfill customers' demands for greater efficiency. The products and systems are based on specialist expertise and an understanding of customer requirements.

User-friendly operation and reliable products help minimize downtime and increase efficiency.

Sening offers the full range of products that are needed for tank trucks so as to guarantee their reliable operation. This not only includes electronic systems but also all components for bottom loading and the broadest range of valves and flanges.



Advantages:

- Over 100 years of knowledge and experience
- Modular system
- Low-maintenance, easy-to-repair design
- User-friendly operation
- Lighter components
- Everything from a single source in Sening® quality

Manlids

Vapor Recovery

Collector / Manifold

Foot Valves

Pneumatic Controls

Line Valves

API Couplings

Gravity Discharge Adapter

Sight Glass Outlet Nozzles



One Stop



Shop – Fittings for Tank Trucks



Manlids

The right manlid for your needs.

Select manlids with and without fill holes in accordance with EN13314 and EN13317, manlids with a fill hole and pressure relief valve in accordance with EN14596, weld rings and rain covers.

The following components can be installed on the manlids:

- Flame arrestor DBG2-2
- Vent valve with pressure and vacuum relief function DO702-F
- Vent valve with sequential control and flame protection screen VV80-F
- Dip stick with a length of 1200 mm to 2600 mm
- Level sensor as electrical overfill prevention NSE 16-2
- Level sensor as pneumatic overfill prevention HANV
- Opening sensor MSDDST

Advantages:

- 300 mm fill hole opening for the simple positioning of the filling arm
- Manlid easy to open and close
- Manlid can be operated one-handed
- Modular system
- Weld ring can be installed at different heights (countersunk or protruding)
- Weld ring can assume the function of a rollover bar
- Accepted system in accordance with EN 13317 (drop tested)
- TÜV-certified flame arrestor

Type	Fill Hole	Size
Manlid with hole	300 mm	508 mm (20")
Dome cover plate	–	508 mm (20")
Weld ring (aluminum)	–	530 mm
Manlid with fill hole and integrated pressure/vacuum valve	265 mm	406 mm (16")



Manlid with two different flame arrestors DBG2-2, combined with vent valve DO702-F and dip stick DOP



Flame arrestor/vent valve combination DGB2-2/DO702-F



Flame arrestor DGB2-2 with pipe connection and sliding flange



Vent valve with pressure and vacuum relief function DO702-F



Vent valve with sequential control and flame protection screen VV80-F



Electrical/pneumatic overfill prevention NSE16-2/HANV in different lengths



Dip stick DOP in different lengths

Vapor Recovery

For vapor recovery systems, we offer several vapor recovery components, which reliably prevent the emission of hydrocarbons when loading and unloading the tank truck at the terminal or the service station.

The Sening vapor recovery system is modularly designed and comprises:

- Vapor recovery valves GPRV and VRV
- Vapor displacement distributor GPVV
- Vapor displacement safety valve GPSV
- Pneumatic interlock GPIN

Advantages:

- Modular structure using a square flange
- Multiple assembly versions depending on space requirements in the tank truck's cabinet
- Optimized driver handling as a result of wide connection distances
- Interlock assembly top or side mounted
- Direct connection to the other side of the vehicle through 2" connection

Accessories: Vapor recovery adapter 2" or 3", dust cover for vapor recovery valves, manometer



Versions GPIN, GPRV, GPSV



Vapor Recovery Valve VRV



Versions with GPIN, GPRV, GPVV and GPSV



Versions GPIN, GPRV, GPVV and GPSV

Collector / Manifold

The modular Sening single-channel and dual-channel manifold systems allow simplification of the piping systems on vehicles with flow meters. The manifold systems have a compact design and can be combined as desired depending on the number of tank truck compartments and discharge paths.

Advantages:

- Low weight and compact design
- Integrated valve for opening the discharge paths
- High flow rates as a result of low pressure drop
- Minimized fuel contamination
- Variable positioning of the discharge outlets
- 300 mm and 350 mm distance between APC couplings for single channel manifolds
- Reduced discharge time by simultaneously unloading of several compartments



Single-channel manifold VEK2-300-3K-L with mounted API couplings



Single-channel manifold VEK2-x



Dual-channel manifold VZK2-x

Foot Valves

The foot valves are available with different housing shapes and sizes to meet the highly diverse requirements associated with the construction of a tank truck. The foot valves are available in pressure-balanced or non-pressure balanced versions.

Advantages:

- Diaphragm valve with long service life
- Non-stalling
- Spring-force closure
- Low pressure drop due to large opening area

Model	Type	Flange Type	Nominal Size
BO8o	90°	TW	DN8o
BO8o-T	T-Form	TW	DN8o
BO100	90°	TW	DN100
BO100-F1	Slimline	Square	DN100
BO100-F2	Low profile	Square	DN100
BO100-T	T-Form	TW	DN100
BO100-TF	T-Form, low profile	Square	DN100
BO100-K	3-way	TW	DN100
BO15o	90°	TW	DN15o
BO15o-T	T-Form	TW	DN15o

Optional: Pressure relief valve ENV, SPD position sensor
Accessories: Weld flange FL8o/10o for tank compartment
Square pipe flanges FL8oV and FL10oV



Foot valve BO100, pressure-balanced with SPD position sensor



Foot valve BO100, non-pressure-balanced



Foot valve BO100 F1



Foot valve BO100 F2

Pneumatic Controls

The pneumatically operated fittings and valves are controlled by a pneumatic switch. This manually activated control block STB is small and robust. It has a modular structure and can be used as an individual control block or as a control block group comprising any number of individual blocks.

Type Code	Description
STB-1 to n	With common air connection and labelled 1 to n
STBE-1 to n	With individual air connection and labelled 1 to n
STBK	Master control block for vent valves activation with reduced sustaining pressure

Optional: Product marker



Control block with common air connection and block STB-1-5+K



Control block with individual air connection and product marker STBE-2M

Line Valves

Pneumatically operated line valves are available in different sizes for flexible use in pipe systems. The new model DV100-4 is designed to allow complete drainage of pipework to reduce product contamination.

Model	Type	Flange Type	Nominal Size
DV8o-2	Straight	TW	DN8o
E8o-2	Angle valve	TW	DN8o
DV10o-4	Straight	TW/Square	DN10o
TV10o-2	T-Form	TW	DN10o
V10o-4o	40°	TW	DN10o

Optional: SPD position sensor, 2-stage shut-off for flow meter applications



Line valve DV100-4 with SPD position sensor



Line valve V100-4o

API Couplings

API couplings are manufactured in accordance with standard API RP 1004. The special design of the Sening API couplings prevents fluids from escaping and provides comprehensive safety during the loading and unloading process. The couplings are made from aluminum with hardened nose ring and to reduce wear.

Advantages:

- Modular structure, expandable with all coupling options
- Optional SPD position sensor detects opening prior to product flow

Model	Type
VKV1	4" API coupling
VKV1-S	4" API coupling with sight glass
VKV1-M	4" API coupling with sight glass, lever operated
VKV1-PA	4" API coupling with sight glass, pneumatically operated
VKV1-MB	4" API coupling with sight glass, lever operated with pneumatically activated locking mechanism

Optional: SPD position sensor



4" API coupling VKV1



4" API coupling VKV1-M with sight glass, lever operated



4" API coupling VKV1-PA with sight glass, pneumatically operated



Cover VKD for API coupling

Gravity Discharge Adapter

Gravity discharge adapter for API couplings are available in various nominal sizes and connection type for flexible use at discharge.

Model	Sight Glass and Lever	Connection Type	Nominal Size
VKAL3S	X	Thread	G 3" BSP
VKAL4S	X	Thread	G 4" BSP
VKA3G	-	Thread	G 3" BSP
VKA4G	-	Thread	G 4" BSP
VKA3C	-	Camlock	3"
VKA4C	-	Camlock	4"



Gravity discharge adapter KCA4C with Camlock



Gravity discharge adapter VKA4G



Gravity discharge adapter VKAL3S with sight glass and lever

Sight Glass Outlet Nozzles

The sight glass outlet nozzles are mounted at the tank truck discharge connections. A large variety of versions is available with straight or tilted outlet, with butterfly valve or with throttle valve.

Model	Flange Type	Nominal Size
SGAT8o	TW	DN8o
SGAV8o	Square	DN8o
SGAT10o	TW	DN10o
SGAV10o	Square	DN10o

Optional: G for straight outlet, KL for butterfly valve, D for throttle valve



Sight glass outlet nozzle SGAT10o



Sight glass outlet nozzle SGAV10o-KL with butterfly valve

Sening® offers all components required for the equipment and efficient operation of a tank truck in line with the latest technological standards:

Tank Truck Measuring Systems and Gas Extractors

MultiFlow – Electronic Register

MultiControl – Remote Control and Wireless Overfill Prevention

Additive Injection

Centrifugal Type Discharge Pumps

MultiLevel – Level Gauging Systems

NoMix – Cross-over Prevention System

MultiSeal – Sealed Parcel Delivery

EMIS Data Communication



For further information, please check our website
www.fmctechnologies.com/seningttp

**We put you first.
And keep you ahead.**

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