Gardner Denver Thomas GmbH
Benzstrasse 28
D-82178 Puchheim
Tel. +49 (0) 89 80900-1170
Fax +49 (0) 89 80900-1179
www.asf-leckanzeiger.de

LEAK DETECTOR TYPE V90 – Version "H"

VACUUM PRINCIPLE

Field of application:
- The leak detector is applicable for double-walled tanks, for double-walled bottoms, or flat base tanks (providing the monitoring space is suitable for the connection of the leak detector).
- The viscosity of the store media is to be considered (height and diameter of the tank).
- It is also be applicable for double-walled pipes with max. operating pressure of 6bar for liquids with flame point >55°C, for flame point <55°C only for pipes operated at ambient pressure.

Stored liquids: Water-endangering liquids regarding approved listing, also with a flash point ≤ 55° C, temperature class T4, explosion group IIA, (IIB-option)

Approval: General Design Permit (DIBT) No. **Z-65.22-399 ; Z-65.25-400**
Tested by TÜV Nord, Hamburg

Assembly site: The leak detector fulfils the requirements for the Ex protection guidelines temperature class T4 and explosion group IIA/B, but must be installed outside of Ex zones, in dry, frost-protected and well ventilated areas.

Function: The leak detector works on the vacuum principle.
Visual and audible alarms are triggered by a pressure increase as a result of leaks in the tank walls, above or below the liquid level.
The vacuum pump draws air from the monitoring space through suction line.
Normally, the exhaust air is pumped back into the tank.
Small system leakages are balanced by the pump automatically.

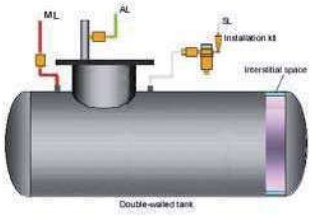
Switching values: in mbar

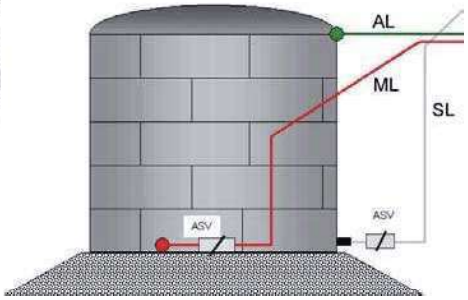
Pump "off"	P_{Poff}	-450
Pump "on"	P_{Pon}	-375
Alarm "on"	P_{Aon}	-325
Alarm "off"	P_{Aoff}	-410

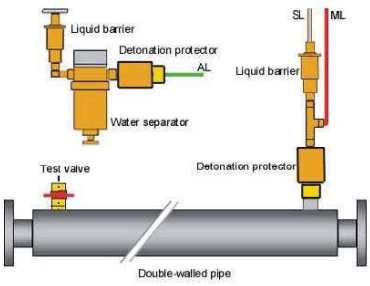
(All values are approximate)

Note: Detailed data in the documentation / assembly instructions.

Standard: EU Standard for Leak Detection Systems
Class 1- EN 13160 part 1 to 7







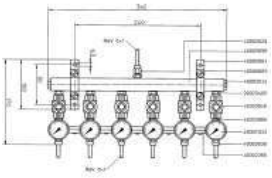
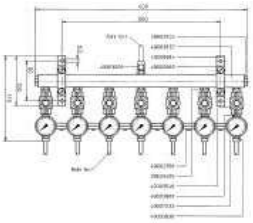
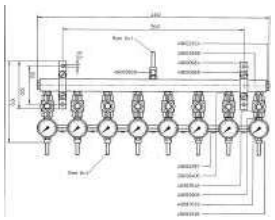
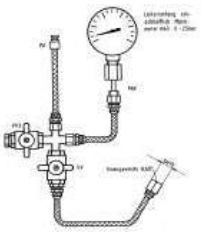
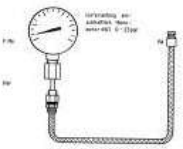
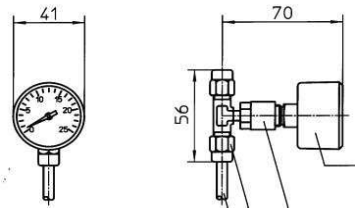
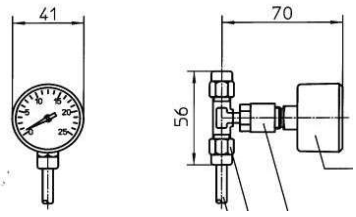
THOMAS
A Gardner Denver Product

THOMAS | ASF
A Gardner Denver Product | Leak Detection

Gardner Denver Thomas GmbH
Benzstrasse 28
D-82178 Puchheim

Tel. +49 (0) 89 80900-1170
Fax +49 (0) 89 80900-1179
www.asf-leckanzeiger.de
info@asf-leakanzeiger.de

Assembly kits for double walled pipeworks:

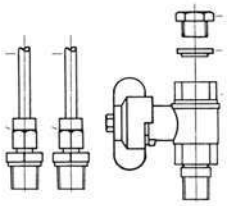
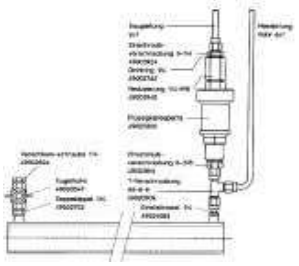
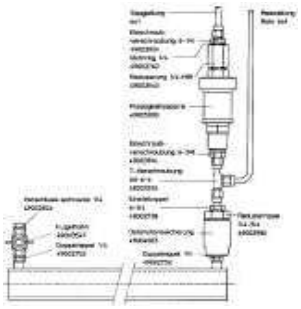
Artikelnr. Part.No.	Description	Material	
42001286	**Manifold kit** for leak detector type **D25 / D26**, connetected to: **- 6 double walled pipes** Consists of: - 6 pcs. ball valves - 6 pcs. Manometer 25 bar - Connectors for **6 mm** outside tubing diameter	Brass	
42001287	**Manifold kit** for leak detector type **D25 / D26**, connetected to: **- 7 double walled pipes** Consists of: - 7 pcs. ball valves - 7 pcs. Manometer 25 bar - Connectors for **6 mm** outside tubing diameter	Brass	
42001288	**Manifold kit** for leak detector type **D25 / D26**, connetected to: **- 8 double walled pipes** Consists of: - 8 pcs. ball valves - 8 pcs. Manometer 25 bar - Connectors for **6 mm** outside tubing diameter	Brass	
42007009	**Filling- and test armature for leak detector type D25, D10** for connection to the quick connector of the leak detector consisting of - gauge 25bar - connector 1/4" for pressure reducing valve - pressure Hose - connector plug - 2pc ball valves for filling and draining	Brass	
42007007	**Test armature for leak detector type D26, D11** for connection to the quick connector of the leak detector, consisting of - gauge 25bar - pressure Hose - connector plug	Brass	
49307034	**Gauge 0-25 bar for leak detector type D25 and D26** for assembly to the leak detector into the measuring line - connectors for **6 mm (outside tubingØ)** - material brass	Brass	
49307044	**Gauge 0-10 bar** for leak detector type **D25 and D26 2/4 and 2/6 bar** - for assembly to the leak detector into the measuring line - connectors for **6 mm (outside tubingØ)** - material brass	Brass	

THOMAS | ASF
A Gardner Denver Product | Leak Detection

Gardner Denver Thomas GmbH
Benzstrasse 28
D-82178 Puchheim

Tel. +49 (0) 89 80900-1170
Fax +49 (0) 89 80900-1179
www.asf-leckanzeiger.de
info@asf-leakanzeiger.de

Assembly kits for double walled pipeworks:

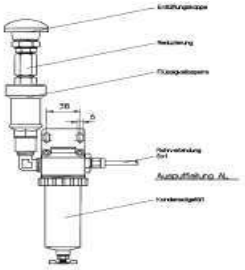
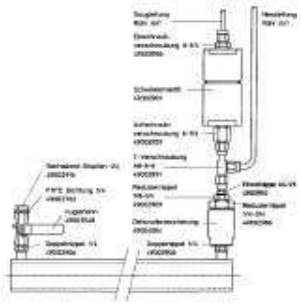
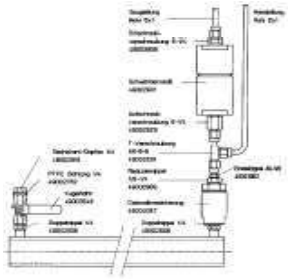
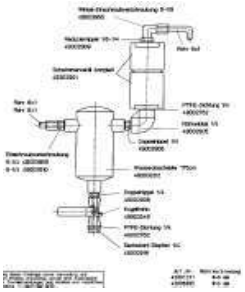
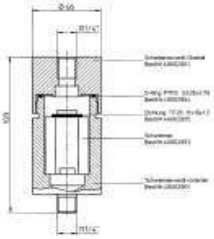
Artikelnr. Part.No.	Description	Material	
42001161	**Assembly kit** for leak detector type **D29**, connetected to: **- double walled pipes** Consist of: - 2 pcs connectors (pressure and measuring line) - 1 pc test valve unit - connectors: pipe **1/4 inch**, outside tubing diameter **6 mm**	Brass	
42003578	**Air dryer** (external) for leakdetector type D9, D29, **180ccm**, with mounting angle, connectors for 4mm (inside hoseØ), **without dry beads**	Plastics	
42003589	**Air dryer** (external) for leakdetector type D9, D29, **350ccm**, with mounting angle, connectors for 4mm (inside hoseØ), **without dry beads**	Plastics	
42003591	**Air dryer** (external) for leakdetector typeD9, D29, **550ccm**, with mounting angle, connectors for 4mm (inside hoseØ), **without dry beads**	Plastics	
42006001	**Assembly kit** for leak detector type **V8 for assembly to double walled pipes** consisting of **- tank connection 1/4"** -1x liquid barrier in suction line - T-fitting to mearusing line - connectors for **6mm** (outside tubingØ) - ball valve at the end of the pipe - Material brass	Brass	
42006003	Assembly kit for leak detector type **V80Ex, V90** for assembly to **double walled pipes** consisting of -flame arrestor explosion group **IIA** temperature class **T4** - 1pc liquid barrier in suction line - T-fitting to mearusing line - connectors: **pipe 1/4"** - connectors for 6 mm (outside tubingØ) - Ball connector at the end of the pipe - material **brass** .	Brass	

THOMAS | ASF
A Gardner Denver Product | Leak Detection

Gardner Denver Thomas GmbH
Benzstrasse 28
D-82178 Puchheim

Tel. +49 (0) 89 80900-1170
Fax +49 (0) 89 80900-1179
www.asf-leckanzeiger.de
info@asf-leakanzeiger.de

Assembly kits for double walled pipeworks:

ArtikelNr. Part.No.	Description	Material	
42006002	Assembly kit **exhaustline** to assamle to an vacuum leakdetector in case exhaust line can not be lead back to the tank consisting of -1pc liquid barrier -water trap -mounting angle -connection lines for **6 mm** outside diameter - Material brass .	Brass	
42006004	Assembly kit for leak detector type **V80Ex V90 for assembly to double walled pipes** consisting of - flame arrestor explosion group **IIA** temperature class **T4** - 1pc liquid barrier in suction line - T-fitting to mearusing line - connectors: **pipe 1/4"** - connectiors for **6 mm** (outside tubingØ) - Ball conector at the end of the pipe - material **stainless steel** .	Stainless steel	
42006006	Assembly kit for leak detector type **V80Ex for assembly to double walled pipes** consisting of - flame arrestor explosion group **IIB3** temperature class **T4** - 1pc liquid barrier in suction line - T-fitting to mearusing line - connectors: **pipe 1/4"** - connectors for **6 mm** (outside tubingØ) - ball conector at the end of the pipe - material **stainless steel**	Stainless steel	
42006005	Assembly kit **exhaustline** to assamle to an vacuum leakdetector in case exhaust line can not be lead back to the tank consisting of - 1pc liquid barrier - water trap - mounting angle - connectors for **6 mm** (outside tubingØ) - material **stainless steel** .	Stainless steel	
49302901	**Liquid barrier** for leak detector type V80ExVA, V90VA, V33 -1/4" female screw thread -3/4external screw thread - meterial **stainless steel** .	Stainless steel