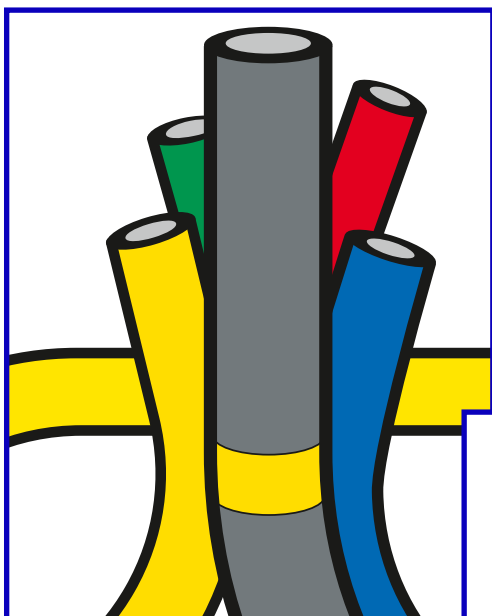
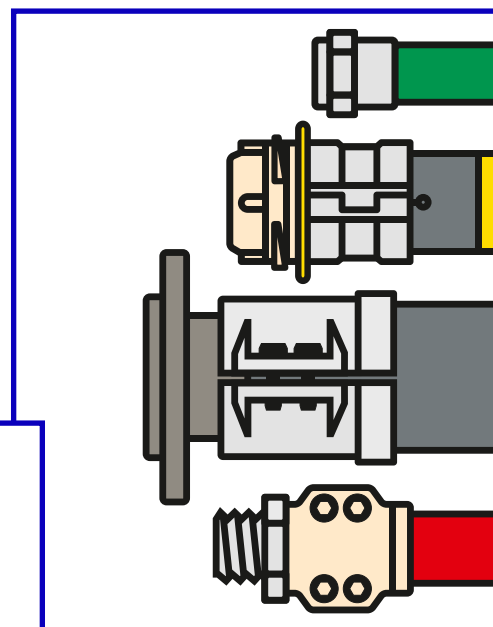


# Product Guide

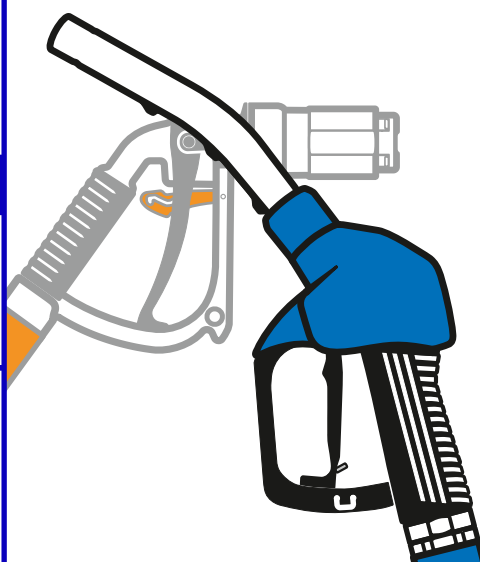
Hoses • Couplings • Expansion Joints • Nozzles



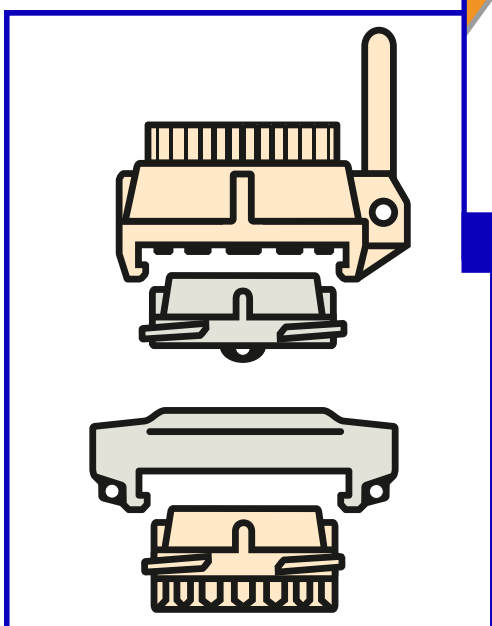
**Petrol + Chemical Hoses**



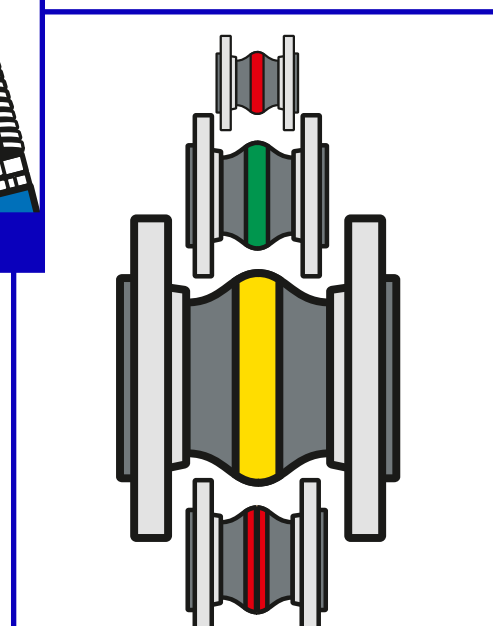
**Hose Couplings**



**Nozzles + Accessories**



**Tank + Pipe Couplings**



**Rubber Expansion Joints**

Quality hoses by ELAFLEX / ContiTech, setting the standards. Available as reel, cut lengths or assemblies.

## Aircraft Refuelling Hoses (EN ISO 1825, EI 1529)

'YELLOW BAND', types HD-C, VHD, PHD, TW-E Suitable for all aviation fuels. Optional with NEON bands for improved visibility. Specified by all major oil companies. Lining NBR, working pressure 20 bar.



Also available as Low Temperature versions

## Universal Tank Hoses (EN 12115)

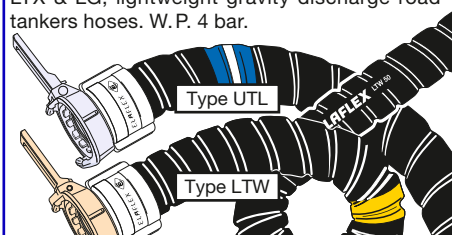
'BLUE-WHITE-BLUE', type UTD 13-38 without helix, type UTS 19-150 with helix. Suitable for most chemicals, petroleum based products and solvents. Lining UPE white with patented OHM conductive stripe. W.P. 16 bar.



Type UTS

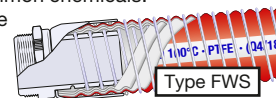
## Corrugated Tanker Hoses (EN 12115, EN 1761)

Good flexibility due to corrugations in the cover: Type LTW 50-100 for petroleum products (NBR lining), type UTL 38-100 universal hose (UPE lining). W.P. 10 bar. Also available types LTX & LG, lightweight gravity discharge road tankers hoses. W.P. 4 bar.



## Composite Hoses (EN 13765)

Type FWS (PP or PTFE), flexible general purpose hose for most common chemicals. Temperature range -30°C to 100°C. W.P. 14 bar.



Type FWS

## Chemical Hoses (EN 12115)

'LILAC BAND', type CHD 13-50 without helix, CHS 25-150 with helix. Suitable for more than 75% of all industrial chemicals. Lining EPDM. W.P. 16 bar.



Type CHS

## Solvent Hoses (EN 12115)

'BLUE BAND', type LMD 9-25 without helix, LMS 25-150 with helix. For most solvents and paints, also water based. Lining NBR blue, electrically conductive. W.P. 16 bar.



Type LMS

## Fuel Reeling Hoses without Helix (EN 1761)

'YELLOW BAND', type HD 10-200 without helix, for reel operation. Suitable for petroleum based products. Lining NBR. W.P. 20/25 bar.

Type HD



## Tank Truck Hoses (EN 1761)

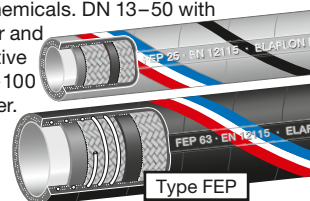
'YELLOW BAND', type TW 19-200, type STW 125-200 with helix. Suitable for petroleum based products. Lining NBR. W.P. 16/20 bar.

Type TW



## ELAFLEX PLUS FEP (EN 12115)

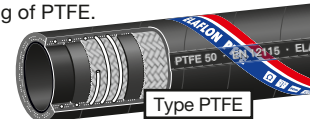
Type FEP 13-25 D without helix, FEP 19-100 with helix. Universal hose with seamless FEP lining for all standard chemicals. DN 13-50 with light grey cover and OHM-conductive spiral, DN 63-100 with black cover. W.P. 16 bar.



Type FEP

## ELAFLEX PTFE (EN 12115)

Type PTFE 13-25 D without helix, PTFE 19-100 with helix. Universal hose for all commonly used chemicals. OHM-hose with electr. conductive, seamless lining of PTFE. FDA/USP Class VI. W.P. 16 bar.



Type PTFE

## FLUORFLEX 2

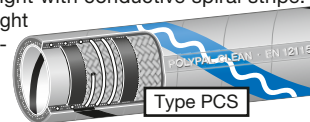
Ultra-flexible universal hose with helically wound PTFE lining for petrochemical, pharmaceutical and food industry. Temperature range -20°C up to 150°C. W.P. 16 bar.



Type FXD

## POLYPAL® CLEAN (EN 12115)

Type PCD 13-38 without helix, PCS 25-100 with helix. 'Clean' universal hose for almost all fluids. Lining UPE bright with conductive spiral stripe. Cover EPDM light grey with OHM-conductive spiral. W.P. 16 bar.



Type PCS

## Pharma Hoses (EN 16820, FDA, USP Class VI)

ELAPHARM hose assemblies for highest media purity requirements, with PTFE lining. Type EPH (blue cover, el. isolating) and EPH-OHM (light grey cover, el. conductive) DN 13-50 with crimped connections, also free of dead spaces.

Type EPH

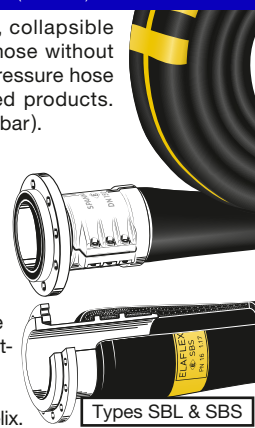


Also available: ElaSil® silicone hose assemblies type ELS 13-102.

## Bunkering Hoses (EN 1765)

Type FHD 75-250, collapsible marine bunkering hose without helix. Suitable as pressure hose for petroleum based products. W.P. 15 bar (10": 10 bar).

Type FHD



DN 100-300 marine cargo hoses with built-in nipples. Category L10 without helix or category S15 with helix.

## LPG Hoses (EN 1762)

'ORANGE BAND', type LPG 10-200 without helix. Also as special types LPG 16 S & LPG 16 for Autogas dispensers. For propane, butane and other L. P. gases. DVGW-approved. Lining NBR. W.P. 25 bar.

Type LPG



Also available as Low Temperature version

## Hot Bitumen Hoses (EN 13482)

Type HB 50-100 with helix. Suitable for hot bitumen and heavy fuel, -25°C up to 200°C. Lining special elastomer. W.P. 7 bar.

Type HB



Also available as Tar Spraying Hose HB-ST 19-50

## Steam Hose (ISO 6134)

Type SD 13-50. Suitable for wet saturated steam up to max. 18 bar (210°C) and hot water up to 120°C. For cold water up to 25 bar. Lining EPDM.

Type SD



## Petrol Pump Hoses (EN 1360)

Quality petrol pump hoses 'SLIMLINE' DN 16-25 for gasoline and diesel fuels, also with biodiesel or ethanol content. Cold flexible down to -30°C (LT-type down to -40°C). Assembly with ferrule type couplings. W.P. 16 bar.



COAX hose assemblies DN 21/8, black or coloured, for active vapour recovery. Cold flexible down to -30°C (LT-type -40°C). W.P. 16 bar.



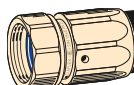
Type COAX

Safe and secure connections.

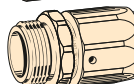
## Hose Couplings Ferrule Type (EN 14424)

Female/male hose couplings (ferrule type) with union nut, DN 13-25. Brass, also chrome plated, or stainless steel. Also available as non-reusable type NR.

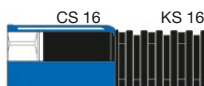
Type M



Type V



anti-kinking sleeve  
KS 16  
colour sleeve CS 16



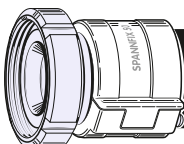
anti-kinking sleeve  
KS 21  
colour sleeve CS 21



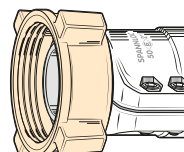
## Food + LPG Hose Couplings (DIN 11851, EN 14422)

Hose couplings of stainless steel with special thread for foodstuffs up to 16 bar. Hose couplings brass/steel with ACME thread for LPG up to 25 bar. SPANNFIX or SPANNLOC clamps.

Type RMX



Type ACMC



## 'TW' Hose Couplings (EN 14420-6)

TW hose couplings, one piece or two piece coupler, with SPANNFIX or SPANNLOC clamps. Working pressure up to 16 bar.

Type VKC

- brass -

Type MKC

Type VKX...SS

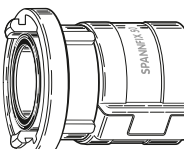
- stainless steel -

Type MKX...SS

## 'Storz' Hose Couplings (DIN 14301)

STORZ hose couplings of aluminium. SPANNFIX or SPANNLOC clamps. W.P. up to 10 bar.

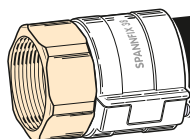
Type STKX



## SPANNFIX Hose Couplings (EN 14420-5)

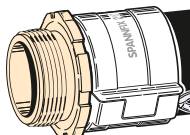
Female/male hose couplings with reusable SPANNFIX pinned safety clamps of hot stamped aluminium. DN 25-100. Working pressure up to 25 bar.

Type MX

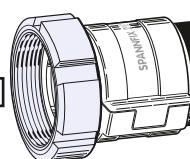


- brass -

Type VX

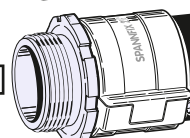


Type MX...SS



- stainless steel -

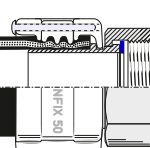
Type VX...SS



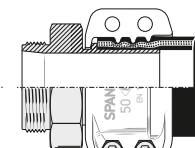
## Steel Hose Couplings (EN 14420-5)

Female/male hose couplings of steel, zinc plated and chromated. For LPG, hot water and mechanical engineering applications. Working pressure up to 25 bar. SPANNFIX or SPANNLOC clamps.

Type SMX



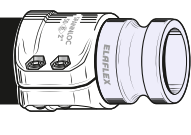
Type SVC



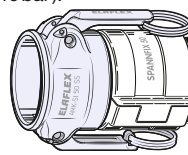
## Cam Locking Couplings (EN 14420-7)

Hose fittings of brass, aluminium or stainless steel. With SPANNFIX or SPANNLOC clamps. W.P. up to 16 bar (DN100 10bar).

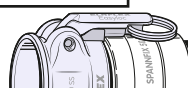
Type AVKC



Type AMKX EASY



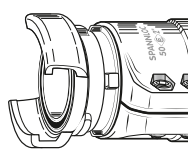
EASYLOC®  
female coupler with  
automatic lever lock



## 'Guillemin' Hose Couplings (EN 14420-8)

GUILLEMIN hose couplings of aluminium. SPANNFIX or SPANNLOC clamps. W.P. up to 10 bar.

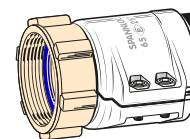
Type GSKC



## SPANNLOC Hose Couplings (EN 14420-5)

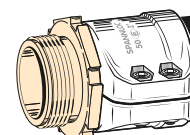
Female/male hose couplings w. reusable SPANNLOC bolted clamps of hot stamped aluminium. DN 13-100. Working pressure up to 25 bar.

Type MC

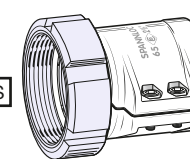


- brass -

Type VC

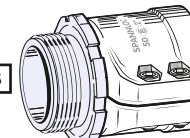


Type MC...SS



- stainless steel -

Type VC...SS



## Hose Couplings for Steam (EN 14423)

Male/female hose couplings with bolted clamps of stainless steel or hot stamped brass. Hose tail and union nut either of stainless steel, steel zinc plated + chromated, or brass. Suitable for saturated steam up to +220°C, compressed air, oxygen and oils. W.P. up to 25 bar.

Type SMS...SS

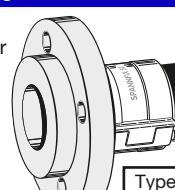


## Flanged Hose Couplings (EN 1092-1, EN 14420-4/14423)

Swiveling or fixed flanges, SPANNFIX or SPANNLOC clamps.

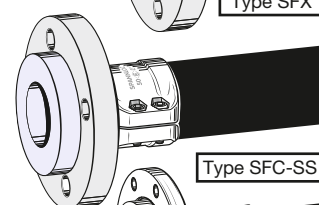
- steel, zinc plated  
+ chromated -

Type SFX



- stainless  
steel -

Type SFC-SS



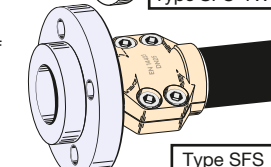
- 'TW' type,  
for tank trucks,  
aluminium -

Type SFC-TW



Heavy type for  
saturated steam of  
steel, zinc plated  
and chromated.  
Clamps of hot  
stamped brass or  
stainless steel.

Type SFS





Safe and secure connections.

'TW' Couplings (EN 14420-6, DIN 28450)

Quick couplers to EN 14420-6. One hand tightening without tools, safe and leak-free connection. For tankers and industrial applications. Sizes 2", 3" und 4". Of hot stamped brass, stainless steel or hot stamped aluminium. Dust plugs also of polyamide. Working pressure up to 16 bar.

Type VB  
(dust plug - aluminium, poly-  
amide, brass or stainless steel)



Also available:  
VB 80 ADR SS  
with pressure relief valve

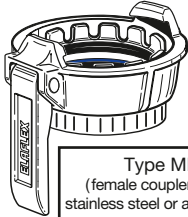
Type MB  
(dust cap of aluminium, brass  
or stainless steel)



Type MK with bent lever  
to provide that the lever can fully  
close and lock in narrow installations



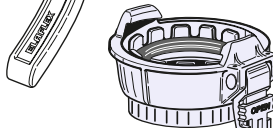
example:  
MK 80-32"



Type MK  
(female coupler brass,  
stainless steel or aluminium)



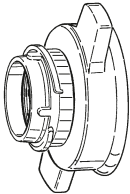
Type VK  
(male coupler brass,  
stainless steel or aluminium)



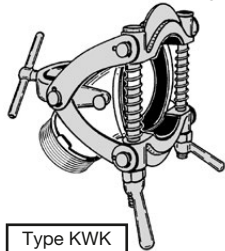
Type MK-A SS  
with Active Safeguard Lever, prevents  
accidental opening of the lever

Accessories for Rail Tankers

Rail tanker adapter type KWZ, one end with rail tanker thread 5 1/2", other end male thread BSP or quick coupling. Rail tanker discharge coupling type KWK with male thread or quick coupling.



Type KWZ x VK



Type KWK

Sight Glasses

Sight glasses type SG (with BSP thread EN ISO 228). Type TSG (one side with tank truck flange). Brass also chrome plated, or aluminium.

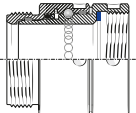
Type SG



Swivels

Swivel hose inlets to avoid torsion of hose assemblies. DN 25-50, of brass or stainless steel. W.P. up to 10 bar.

Type DS / DG



Pipe Connectors

Flexible bronze pipe connectors with swiveling oval flanges. Suction service between dispenser + storage tank, max. vacuum 0,9 bar. Type BWO: standard. Type KW: with cathodic protection.

Type BWO



Type KW

Cam Locking Couplings (EN 14420-7)

Female or male couplings, dust caps and dust plugs, DN 13-100, of stainless steel, brass or aluminium. W.P. up to 16 bar. (DN 100 up to 10 bar)



Type AVKI



Type AMKI

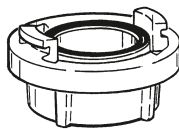


Type AMKI EASY

EASYLOC®  
female coupler with  
automatic lever lock

Symmetrical Couplings

Fixed couplings Storz or Guillemin, with BSP thread. All standard sizes of brass, aluminium or stainless steel. Working pressure 10 bar.



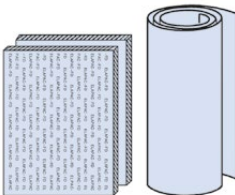
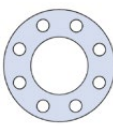
Type Storz IG



Type Guillemin IG

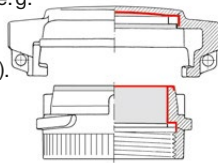
ELAPAC-FD

Flange sealing material free of plasticisers. Suitable for tank truck and tank installations, for petroleum based products and many other media. Available as cut seals, sheets or coils.



Teflon® PFA Coating

Stainless steel threaded fittings, flanges and couplings are also available with additional Teflon® PFA coating (FDA compliant) on surfaces in contact with medium, for specially aggressive media (e.g. hydrochloric acid, ferro-III-chloride, diluted sulfuric acid). Colour: red.



Type... SSE

Dry Disconnect & Break-away Couplings

Self locking couplings, MannTek brand. For liquid media or liquefied gas. Can be coupled up to 7 bar. Brass/bronze, stainless steel or aluminium. W.P. 25 bar (16 bar for aluminium). Also available with selectivity system or flanged type.



Type DDC  
Dry  
Disconnect  
Couplings



Type DGC  
Dry Gas  
Couplings



Type DAC  
Dry Aviation  
Couplings

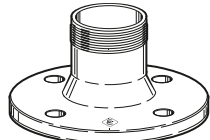
Also available (no picture):

- Break-away Couplings for all liquid media
- Dry Disconnect & Break-aways f. cryogenic media

Flanges

Flanges to EN 1092-1 with male thread, short or long design. Of steel, stainless steel, brass or aluminium.

Type FGN  
(long design)



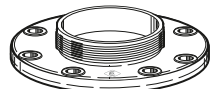
Tank truck welding flanges TFA with pipe stop (also available in space saving square shape TQFA). Type TF without pipe stop. Made of steel or stamped aluminium.

Type TFA



Tank truck flanges TGN, with threaded nipple, to DIN 28462. Of aluminium, brass or stainless steel.

Type TGN



configure online: [manntekconfigurator.elaflex.it](http://manntekconfigurator.elaflex.it)

# Rubber Expansion Joints

ERV high quality expansion joints DN 25–1000, by ELAFLEX / ContiTech. With swiveling flanges (various types and materials).

## ERV-R

RED BAND expansion joint for water, drinking water, waste water, seawater, cooling water, chemical waste water (without oil), chemicals, acids and alkalis, salt solutions, alcohols. Temperature range -40°C up to 100°C, temporarily up to 120°C. Lining Butyl/EPDM.



Type ERV-R

## ROTEX

ROTEX expansion joint for permanent service with hot heating water, cooling water and hot air. W.P. 10 bar up to 100°C, 6 bar up to 110°C. Temperature range -40° up to 130°C, temporarily up to 150°C. TÜV approved, DIN 4809. Lining EPDM.



Type ROTEX

## ERV-CR

CR expansion joint for cold and warm water, seawater (also oil containing), various waste water, lube oils and greases, air, compressed air. Temperature range -25°C up to 90°C, temporarily up to 100°C. Lining Chloroprene.



Type ERV-CR

## ERV-BR

BLUE SPOT expansion joint for abrasive media, sludges, slurries, solid/liquid mixtures and emulsions, dustlike or powdery products. W.P. max. 16 bar. Temperature range -50°C up to 70°C, temporarily up to 90°C. Lining BR/NR.



Type BR

## ERP

RED SPOT expansion joint for sanitary installations, cold/warm water, swimming pool water, seawater, drinking water. Highly flexible + low own resistance. W.P. max. 10 bar. Temperature range -40°C up to 90°C, temporarily up to 120°C. Lining Butyl/EPDM.



Type ERP

## ERV-G

YELLOW BAND expansion joint for petroleum based products up to 50% aromatics, fuels, aviation fuels, town gas and natural gas. Temperature range -20°C up to 90°C, temporarily up to 100°C. Lining NBR.



Type ERV-G

## ERV-GS

YELLOW STEEL expansion joint. Similar to type ERV-G, but fire resistant to ISO 15540 (type approved). Also for cooling water emulsions with oily anticorrosion additives. Temperature range -20°C up to 90°C, temporarily up to 100°C. Lining NBR.



Type ERV-GS

## ERV-GS HNBR

YELLOW STEEL HNBR expansion joint for petroleum based products up to 50% aromatics and hydraulic oil. Also for cooling water emulsions with oily anticorrosion additives. Large temperature range -35°C up to 100°C, temporarily up to 120°C. Lining HNBR.



Type ERV-GS HNBR

## ERV-G LT

YELLOW BAND LT expansion joint designed for low temperature applications for standard-conform petroleum based products. Temperature range -40°C up to 90°C, temporarily up to 100°C. Lining NBR.



Type ERV-G LT

## ERV-OR

ORANGE BAND expansion joint for Liquid Petroleum Gas (LPG) according to EN 589. Temperature range -20°C up to 90°C, temporarily up to 100°C. Lining NBR.



Type ERV-OR

## ERV-GR

GREEN BAND expansion joint for chemicals, acids, alkalis and aggressive chemical waste water. Temperature range -20°C up to 100°C, temporarily up to 110°C. For oil-contaminated compressor air up to 90°C. Lining CSM.



Type ERV-GR

## ERV-W

WHITE BAND expansion joint for foodstuffs, also containing oil and fat. Liner conforms to rec. XXI of BfR and FDA-21CFR 177.2600. Temperature range -20°C up to 90°C, temporarily up to 100°C. Lining NBR, light grey.



Type ERV-W

## Accessories



With additional PTFE liner (ERV...TA)



With tie rods as limiters (ERV...ZS)



With inner protection sleeve of stainless steel, e.g. for granulates (ERV...SR)



With vacuum support spiral (ERV...VSD) or ring (ERV...VSR)



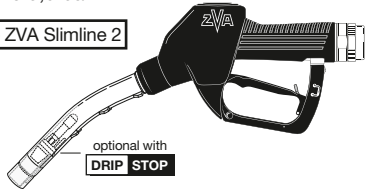
Flame protection cover (FSH)

Nozzles by ELAFLEX / Hiby: ergonomic design, long life, fully serviceable.

## ZVA Slimline 2 (EN 13012, ATEX, TÜV)

Automatic nozzle for flowrate up to 80 l/min. Suitable for gasoline, also with ethanol content, diesel, fuel oil and biodiesel. Working pressure 0,5 up to 3,5 bar.

Type ZVA Slimline 2

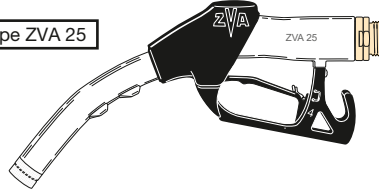


Also available as Low Temperature version

## ZVA 25 (EN 13012, ATEX)

Automatic nozzle for flowrate up to 140 l/min, DN 25. Suitable for gasoline, diesel and fuel oil. Working pressure 0,5 up to 3,5 bar.

Type ZVA 25

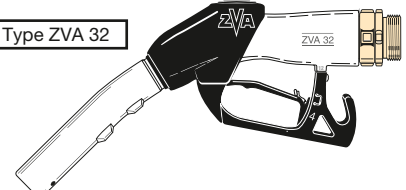


Also available as aircraft refuelling version

## ZVA 32 (ATEX)

Automatic nozzle for flowrate up to 200 l/min, DN 32. Suitable for diesel, light fuel oil, petroleum, Avgas and Jet-A1. Working pressure 1,5 up to 6 bar.

Type ZVA 32

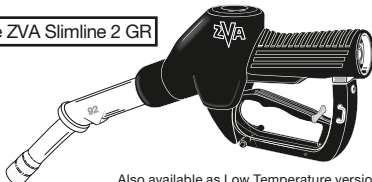


Also available as aircraft refuelling version

## ZVA Slimline 2 GR (EN 13012, ATEX, TÜV)

Automatic nozzle for active vapour recovery. Suitable for all standard gasoline fuels (also with ethanol content), up to 45 l/min. Design 'GRV' with integrated vapour valve 'On/Off', Design 'GRVP' with vapour proportional valve. Working pressure 0,5 to 3,5 bar.

Type ZVA Slimline 2 GR

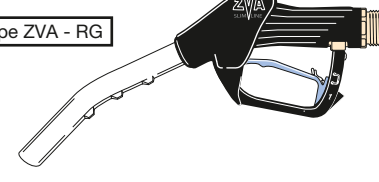


Also available as Low Temperature version

## Corrosion Resistant Automatic Nozzles

Automatic nozzles in special construction of gunmetal (ZVA-RG) or bronze (ZVA-GBZ). Suitable for solvents, alcohols and chemicals.

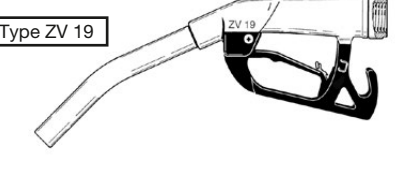
Type ZVA - RG



## ZV 19 / ZV 25

Manually operated nozzles for gasoline, diesel, fuel oil and vegetable oil. ZV 19 (DN 19) up to 100 l/min; ZV 25 (DN 25) up to 140 l/min. W. P. up to 3,5 bar. Special types for chemicals available.

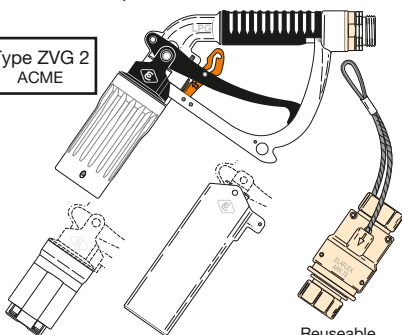
Type ZV 19



## LPG Nozzle, Accessories

Autogas (LPG) nozzle with ACME, DISH or EURO coupling. For propane, butane and mixtures up to 50 l/min. W. P. up to 25 bar.

Type ZVG 2  
ACME



- DISH -

- EURO -

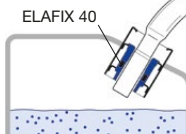
Reusable  
Safety Break  
ARK 19

## ZVA for AdBlue® (DEF, ARLA 32, AUS 32)

Automatic nozzle for urea solution (AdBlue®, DEF). Flowrate up to 40 l/min. Working pressure 0,5 to 3,5 bar. Spout with magnet opening; refuelling only possible with ELAFIX 40 magnet adapter within vehicle filler neck.

Type ZVA AdBlue HV

Also available as ZVA AdBlue LV for light vehicles

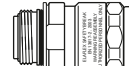


SSB 16 SS  
Safety Swivel Break

## Safety Breaks (EN 13617-2, ATEX)

Self-closing safety break couplings for nozzles, reusable. To protect dispensers, hose assemblies and cars in case of drive-off incidents.

SSB 16  
f. ZVA SL 2,  
ZVA Slimline

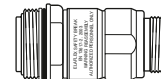


PSB  
Pump  
Safety Break

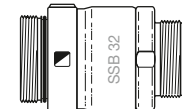
CSB 21  
f. ZVA SL 2 GR,  
ZVA 200 GR



SSB 25  
f. ZVA 25



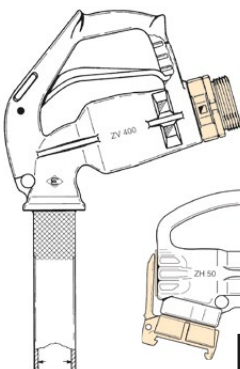
SSB 32  
f. ZVA 32



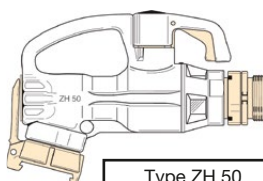
## Bulk Delivery Nozzles

Manually operated fuel oil nozzles DN 32-50, types ZV 400, ZV 500 and ZH 50. Available either with fixed spout or TW coupling. Flowrates 250-650 l/min, W. P. up to 10 bar.

Type ZV 400  
with spout DN 38



Type ZH 50  
with TW quick coupling



## Nozzles for Aircraft Refuelling

Automatic or manually operated nozzles for overwing refuelling. Suitable for AVGAS and JET fuels. Flowrates: ZVF 25 and ZVA 25 up to 140 l/min, ZVA 32 up to 200 l/min, ZVF 50 up to 400 l/min.

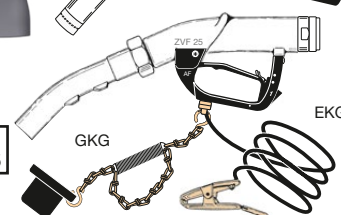


Type  
ZVF 50  
JET

Type  
ZVA 25



Type  
ZVF 25



This brochure shows only a small part of the Elaflex product range. Further information from:

ELAFLEX ITALIA S.R.L.

Via Industriale 28  
25086 Rezzato (BS)  
Italy

Tel.: +39 (030) 249 61 00

Fax: +39 (030) 249 61 80

E-Mail: [info@elaflex.it](mailto:info@elaflex.it)

Internet: [www.elaflex.it](http://www.elaflex.it)