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WEH® is a registered trademark of the WEH GmbH Precision Connectors.

WEH®-Products for your application

WEH – Your Connection for Refrigerating and Air Conditioning

Environmental protection plays a vital role in the ACR industry. Preventing as much refrigerant as possible from escaping to the atmosphere is most important when charging, evacuating and servicing refrigeration equipment. This can be achieved with WEH filling connectors. Connection is just as easy, simply place the connector onto the receptacle. The split, wear-resistant jaws securely grip and seal on internal and external threads, on plain tubes, unions and bores. A pressure-tight connection is guaranteed by seals specially designed for the

purpose. No need for time-consuming and expensive hand threading of the pressure line.

Operation is easy and the WEH-Connectors quickly pay for themselves.

Efficient Check Valves

WEH is offering a complete check valve product line especially designed for the gas industry. Everywhere media flows, the check valve is an indispensable component. The WEH check valves type TVR2 are suitable for liquid and gaseous media.

Please ask for our detailed catalogue no. 45 'High-Performance Check Valves TVR2' using the enclosed questionnaire.

The WEH-Connector for Pressure and Function Testing

WEH has been developing quick connectors, couplings and check valves for a variety of applications since 1983. WEH-Connectors add the convenience of quick connection to easy operation and fit any application, where tubes, hoses and other components have to be connected. Therefore, they are an excellent choice for each application where continuous connecting and disconnecting is necessary for pressure and function testing of products. WEH-connectors and couplings accomplish this within seconds.



Look to the future

The continual development of new applications and a variety of special types offers you leading-edge technology in connection techniques. Give us the opportunity to evaluate your application.

Quick Connectors

-Type TW111
Connector for filling
refrigerants
(Page 6)



- Type TW111 for R410A
Connector for filling
refrigerants R410A
(Page 8)



- Type TW110
Connector for filling and
evacuating refrigerants
(Page 10)



- Type TW108
Connector for filling and
evacuating refrigerants
(Page 12)



- Type TW52
Connector for filling
CO₂ or refrigerants
(Page 14)



- Type TW141
Connector for filling of
closed cooling circuits
(Page 16)



- Type TW141L
Long version
(Page 18)



Quick Connectors

- Type JXL

Connector for charging, evacuating, pressure and vacuum testing on straight tubes at up to 70 bar
(Page 20)



- Type JNL

Connector for charging, evacuating, pressure and vacuum testing on components with bores at up to 70 bar
(Page 22)




Check Valves

- Type TVR2

Check valve
(Page 24)





WEH®-Connector

Type TW111

Connector for filling refrigerants in refrigerating and air conditioning plants with „Schrader“-valves

Escape of refrigerants reduced by 99 %!

The WEH connector type TW111 is specifically designed for filling and maintenance of refrigeration and air conditioning equipment. Contrary to conventional screwed connectors, the escape of refrigerants from the connector when connected and disconnected is reduced by 99 %. Thus saving costs - and far more important - our environment.

Inflammation of tendons and abrasion of joints caused by continuous screwing and unscrewing of threaded joints is eliminated. Connection and disconnection is effected by a simple movement of the grip sleeve.



The integrated shut-off valve prevents the escape of refrigerant which remains in the filling tube and can then be correctly disposed of. Type TW111 is equipped

with a standard connection 1/4" –SAE. It is either available for high pressure (red grip sleeve) or for low pressure (blue grip sleeve).



Connecting Procedure:

1. Place the connector onto the receptacle and push the grip sleeve forward.
→ The jaws clamp onto the receptacle and the shut-off valve will open.



2. The refrigerant is supplied. When filling is completed, type TW111 is disconnected by pulling back the grip sleeve and removing the connector.
→The shut-off valve is closed and the clamping jaws are spread apart.

High safety standard

Type TW111 is made of high-grade materials, minimizing down time and providing a long tool life. The danger of suffering frostbitten hands from an escape of refrigerant is considerably reduced.

Note:


Connections should only be effected according to the installation and operating instructions supplied with the connector.

Features:

- Reduced loss of refrigerant by 99%
- No frostbitten hands
- Pressure-tight connection in seconds
- No spanners or threaded connectors
- Easy connection means no straining of muscles, joints etc.
- Robust design

Information:

WEH-Connectors are available for all kinds of applications. Ask for further information giving details of your specific application.



WEH®-Connector

Type TW111

Technical Data:

Application:

Filling refrigerants.

Temperature range:

-10°C up to +80°C

Pressure range:

max. 30 bar

Please note that the pressure might raise for some refrigerants, as i.e. R407A, R407B, R410A, R507 in case of high ambient temperatures!

Medium:

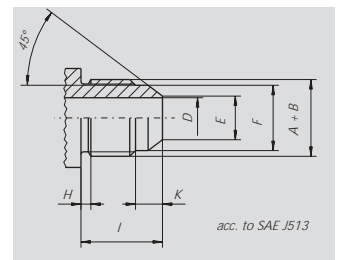
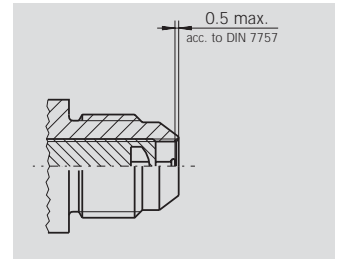
Refrigerants
(please indicate when ordering)

Design:

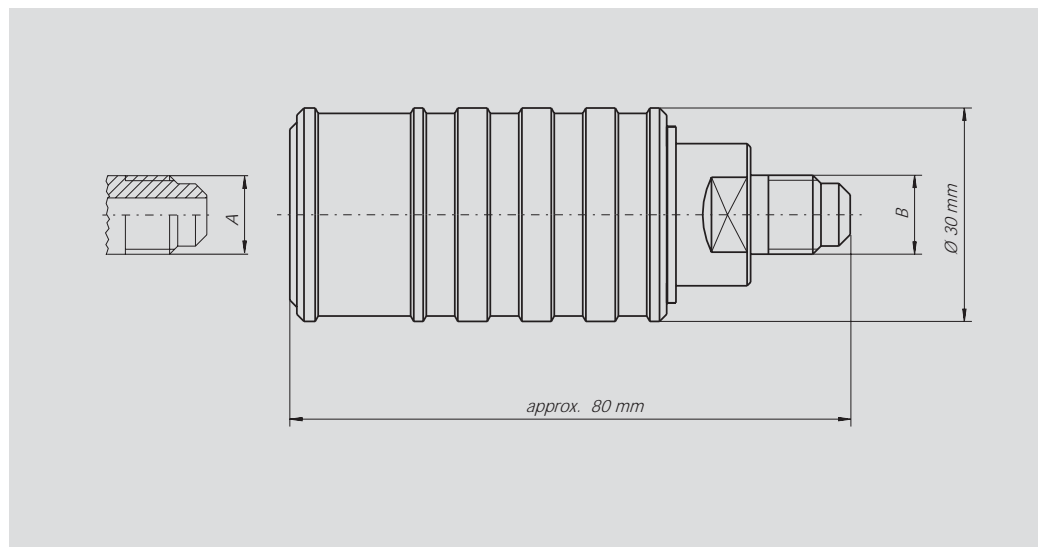
Brass, anodised aluminium.

Sealing material:

Dependant on media



Dimensions (mm):



Ordering:

Pressure	Ø A	Inlet B	D	E	F	H	I	K	Part No.
High pressure (red)	SAE 7/16" -20 J513	SAE 7/16" -20 J513	4.4	4.90	9.12	1.9	14.0	4.9	C1-15294
Low pressure (blue)	SAE 7/16" -20 J513	SAE 7/16" -20 J513	4.4	4.90	9.12	1.9	14.0	4.9	C1-15342

Other sizes A, inlets B, materials and pressure ranges available on request!

WEH®-Connector

Type TW111 for R410A

New connector for filling R410A refrigerant in refrigerating and air conditioning plants with 'Schrader' valves

The WEH product range for the refrigeration and air-conditioning industry has been extended by the addition of a new connector for filling R410A refrigerant. The WEH TW111 connector is designed for filling and servicing refrigerating and air conditioning systems with 'Schrader' valves which need to be connected and disconnected under pressure up to a maximum of 42 bar.

Tedious screwing and unscrewing is eliminated, as the connector is clipped directly onto the 'Schrader' valve. By pushing the sleeve forward filling may commence. To disconnect, simply pull back the sleeve and the



integrated shut-off valve prevents the escape of refrigerant.

Nothing easier!
The TW111 for R410A is equipped with a standard

1/2" -SAE inlet. It is either available for high pressure (red grip sleeve) or for low pressure (blue grip sleeve).

Connecting procedure:

1. Place the connector onto the receptacle and push the grip sleeve forward.
→ The jaws clamp onto the receptacle and the shut-off valve will open.

2. The refrigerant is supplied. When filling is completed, type TW111 is disconnected by pulling back the grip sleeve and removing the connector
→ The shut-off valve is closed and the clamping jaws are spread apart.

High safety standard:

Type TW111 is made of high-grade materials, minimizing down time and providing a long tool life. The danger of suffering frostbitten hands from an escape of refrigerant is considerably reduced.

Note:

Connections should only be effected according to the installation and operating instructions supplied with the connector.

Features:

- Reduced loss of refrigerant
- No frostbitten hands
- Pressure-tight connection in seconds
- No spanners or threaded connectors
- Easy connection means no straining of muscles, joints etc.
- Robust design

Information:

WEH-Connectors are available for all kinds of applications. Ask for further information giving details of your specific application.

Type TW111 for R410A

Technical Data:

Application:
Filling of R410A refrigerant

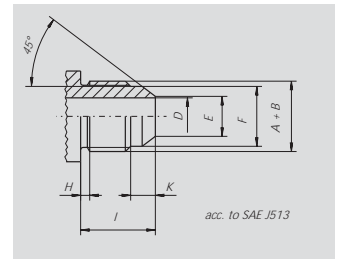
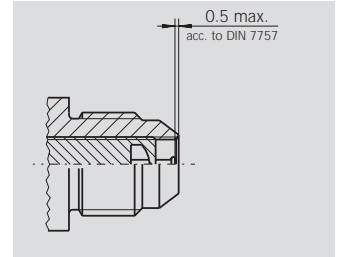
Medium:
R410A refrigerant

Pressure range:
max. 42 bar

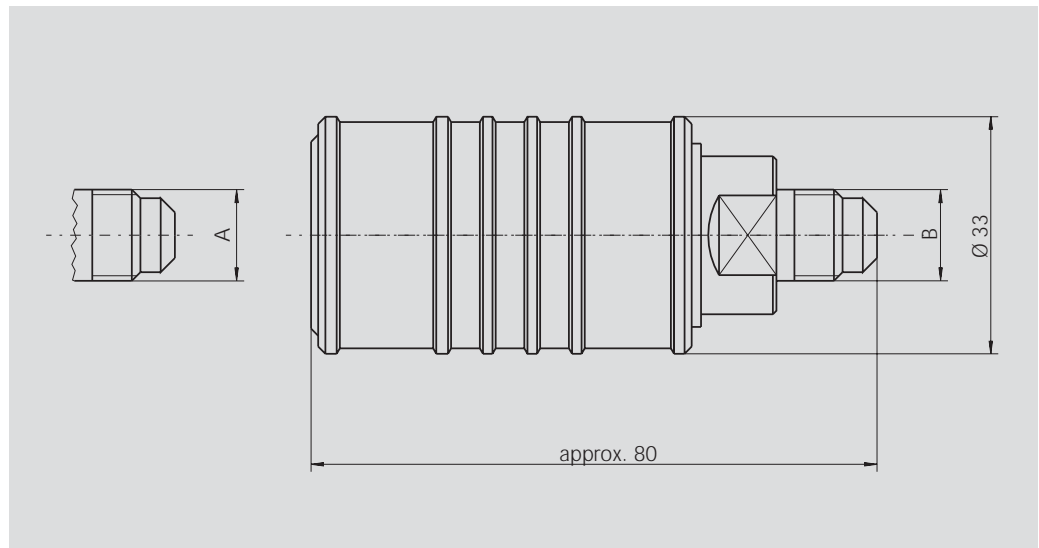
Design:
Brass, anodised aluminium

Temperature range:
-10 °C up to +80 °C

Sealing material:
Suitable for refrigerant




Dimensions (mm):



Ordering:

Pressure	Ø A	Inlet B	D	E	F	H	I	K	Part No.
High pressure (red)	SAE 1/2" -20 J513	SAE 1/2" -20 J513	5,56	6,35	10,31	2,6	14,2	4,8	C1-30291
Low pressure (blue)	SAE 1/2" -20 J513	SAE 1/2" -20 J513	5,56	6,35	10,31	2,6	14,2	4,8	C1-30290
High pressure (red)	SAE 1/2" -20 J513	SAE 7/16" -20 J513	5,56	6,35	10,31	2,6	14,2	4,8	C1-34797
Low pressure (blue)	SAE 1/2" -20 J513	SAE 7/16" -20 J513	5,56	6,35	10,31	2,6	14,2	4,8	C1-34796

Other sizes A, inlets B, materials and pressure ranges available on request!

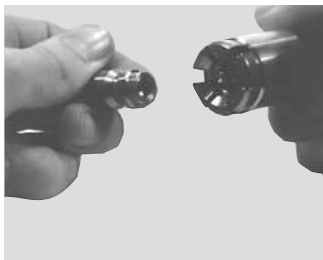


WEH®-Connector

Type TW110

Connector for filling and evacuating refrigerants in automotive air conditioning equipment

Saves time and money
 Because Freon is an ozone depleting refrigerant, leak-tight connections are most important for filling air conditioning systems. The integrated shut-off valve and a minimal residual volume give good environmental performance. The type TW110 is constructed of corrosion-resistant stainless steel and is ideal for continuous operation due to its compact design.



Connecting Procedure:

1. Pull back the grip sleeve.
→ The clamping jaws open.
2. Place the connector onto the receptacle.
→ The jaws clamp onto the receptacle and the shut-off valve will open.
3. The refrigerant is supplied or evacuated.
4. Depressurize the system.
5. Type TW110 is disconnected by pulling back the grip sleeve.
→ The shut-off valve will close and the clamping jaws are spread apart.



High safety standard:

Type TW 110 is made of high-grade materials, minimizing down-time and providing a long tool life.

Note:


Connections should only be effected according to the installation and operating instructions supplied with the connector.

Features:

- Pressure-tight connection in seconds
- No spanners or threaded connectors
- Easy connection means no straining of muscles, joints etc.
- Robust design

Information:

WEH-Connectors are available for all kinds of applications. Ask for further information giving details of your specific application.



WEH®-Connector

Type TW110

Technical Data:

Application:

Filling and evacuating refrigerants

Pressure range:

0 - 35 bar

Temperature range:

-10 °C up to +80 °C

Medium:

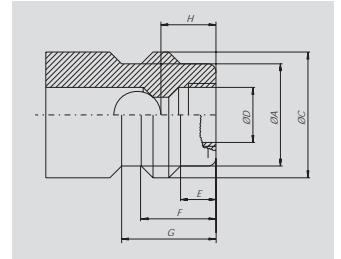
Refrigerants
(please indicate when ordering).

Design:

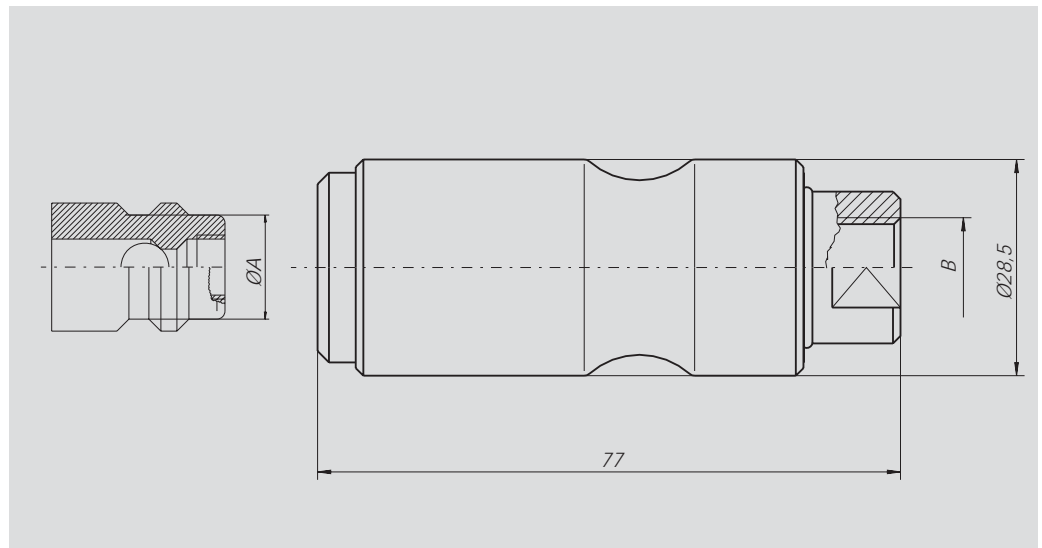
All parts corrosion-resistant steel, integrated shut-off valve.

Sealing material:

Dependant on media



Dimensions (mm):



Ordering:

Ø A	Inlet B	Ø C	Ø D	Ø E	Ø F	Ø G	Ø H	Part No.
11	G1/4"	13	7	6	9.5	12	7	C1-1748
13	G1/4"	16	7	4.5	9.5	12	7	C1-1749

Other sizes A, inlets B, materials and pressure ranges available on request!

WEH®-Connector

Type TW108

Connector for filling and evacuating refrigerants for maintenance of automotive air conditioning equipment

Type TW108 is a good alternative to type TW110 at a reasonable price for connections where a continuous use is not required. It is therefore the ideal choice for leak-tight filling during maintenance works. All parts are made of high-grade materials, and the WEH clamping jaws are made out of brass. The integrated shut-off valve presents the escape of the ozone depleting refrigerant Freon to a minimal residual volume.



Connecting procedure:

1. Place the connector onto the receptacle and push the grip sleeve forward.
→ The jaws clamp onto the receptacle and the shut-off valve will open.
2. The refrigerant is supplied or evacuated.
3. Depressurize the system.
4. Type TW108 is disconnected by pulling back the grip sleeve.
→ The shut-off valve will close and the clamping jaws are spread apart.

High safety standard:

Type TW108 is made of high-grade materials, minimizing down-time and providing a long tool life.

Note:


Connections should only be effected according to the installation and operating instructions supplied with the connector.

Features:

- Pressure-tight connection in seconds
- No spanners or threaded connections
- Easy connection means no straining of muscles, joints, etc.
- Robust design

Info:

WEH-Connectors are available for all kinds of application. Ask for further information giving details of your specific application.



WEH®-Connector

Type TW108

Technical Data:

Application:
Filling and evacuating
refrigerants

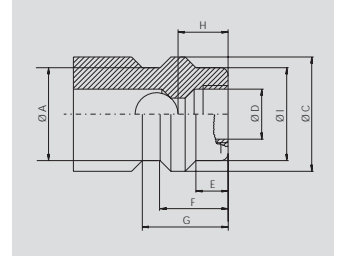
Pressure range:
0 - 35 bar

Temperature range:
-10°C up to +80°C

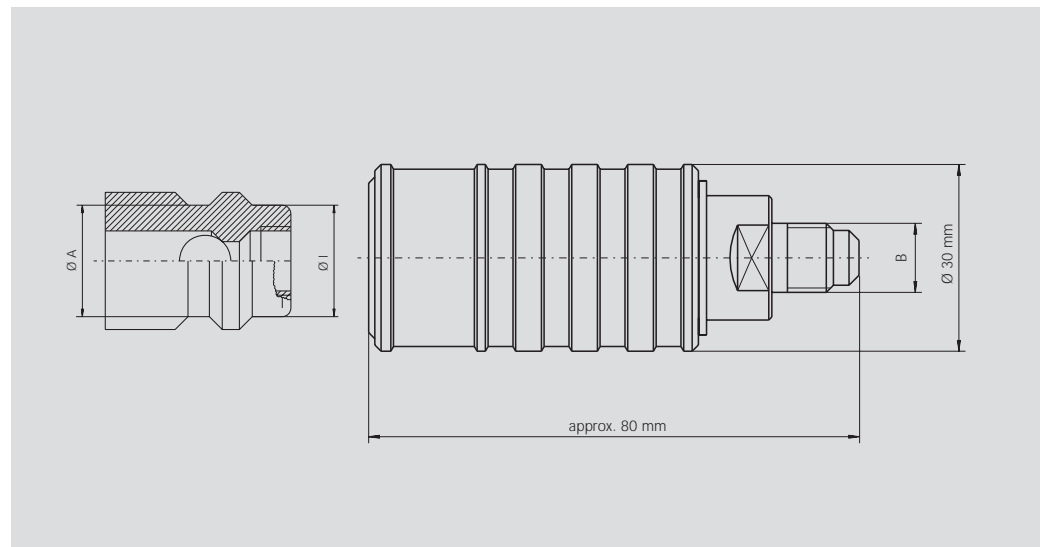
Medium:
Refrigerants
(please indicate when ordering)

Design:
Brass, anodised aluminium.

Sealing material:
Dependant on media




Dimensions (mm):



Ordering:

Pressure	Ø A	Inlet B	Ø C	Ø D	Ø E	Ø F	Ø G	Ø H	Ø I	Part No.
High pressure	13	SAE 7/16" -20 J513	16	7	4,5	9,5	12	7	14	C1-14455
(red)	13	SAE 5/8" -18 J513	16	7	4,5	9,5	12	7	14	C1-14455/1
Low pressure	11	SAE 7/16" -20 J513	13	7	6	9,5	12	7	11	C1-14458
(blue)	11	SAE 5/8" -18 J513	13	7	6	9,5	12	7	11	C1-14458/1

Other sizes A, inlets B, materials and pressure ranges available on request!



WEH®-Connector

Type TW52

Connector for filling CO₂ or refrigerant

The WEH-Connector type TW52 has been developed especially for filling gaseous and liquid CO₂ or refrigerants. Connection to the cylinder is made within seconds without tedious screwing and unscrewing, thus preventing abrasion of joints and inflammation of tendons. TW52 is also suitable for filling one litre cylinders, eg. for soda drinks.

Options:

Linear valve: Our filling connector offers a complete solution for TVCO₂ filling in conjunction with our optional linear valve TVCO₂. Simply connect the filling hose to our linear valve TVCO₂ and pressurize the



system. Filling can proceed. When disconnecting after filling the TW52 vents automatically. The vented gas can be recirculated via a

vent pipe and vented remotely, thus saving the environment.



Connecting Procedure:

1. Pull back the grip sleeve. Place the connector onto the thread. Push the grip sleeve forward. Turn the lever of the optional linear valve TVCO₂ through 90° to start filling, thus securing the TW52 connector against accidental disconnection under pressure.



2. **Depressurize the system.** Turn the lever again through 90° to the original position. The gap between the connector and the valve is vented and the TW52 can be disconnected by pulling back the grip sleeve.

Features:


- Pressure-tight connection in seconds
- Easy operation
- Saves the environment due to a vent pipe and recirculation of the vented gas
- High safety by internal locking system
- Grip sleeve locks automatically and prevents disconnection if a pressure of 5 bar is exceeded.

Info:

WEH-Connectors are available for many types of applications. Please contact us for further information.

Note:

Connections should only be effected according to the installation and operating instructions supplied with the connector.



WEH[®]-Connector

Type TW52

Technical Data:

Application:

Filling CO₂ or refrigerant (please indicate when ordering).

Pressure range:

Max. 250 bar
TW52 with TVCO₂:
max. 150 bar

Medium:

CO₂, refrigerant (please indicate when ordering!).

Thread size A:

See table below
Other thread sizes on request!

Nominal bore:

5 mm

Design:

Corrosion-resistant steel and brass (CuZn39Pb3).

Inlet B:

See table below

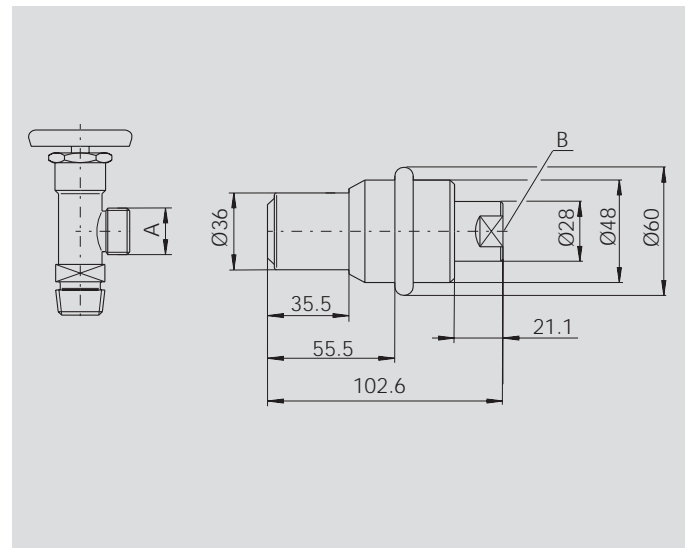
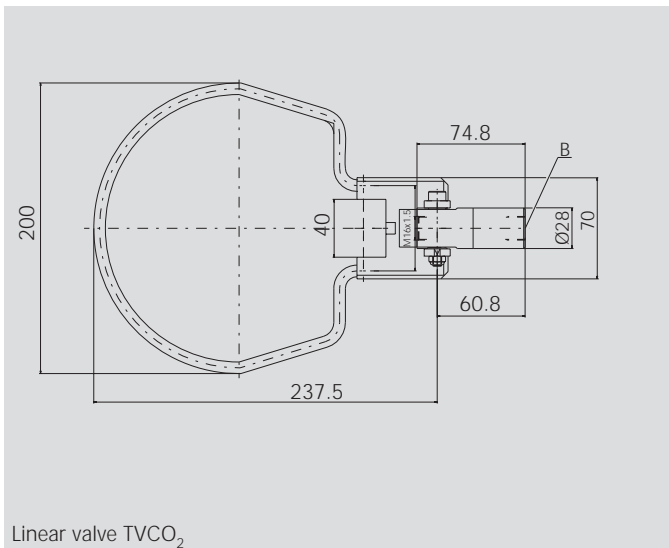
Temperature range:

CO₂: -40°C to +40°C
Refrigerant: -10°C to +80°C

Sealing material:

Dependant on media.

Dimensions (mm):



Ordering:

Type	Thread size A	Inlet B	Part No.
TW52 (R22)	W21.8 x 1/14"	Internal thread G 1/4"	C1-17469
TW52 (CO ₂)	G 1/2"	Internal thread G 1/4"	C1-16560
TW52 (CO ₂)	TR21 x 4,5	Internal thread G 1/4"	C1-17069
TW52 (CO ₂)	W21.8 x 1/14"	Internal thread G 1/4"	C1-16564
TW52 (CO ₂) suitable for TVCO ₂	W21.8 x 1/14"	External thread M16 x 1.5	C1-16563
TVCO ₂	—————	Internal thread G 1/4"	C1-34605



WEH®-Connector

Type TW141

Fill and test connector for straight tubes for vacuum to 100 bar

The WEH TW141 is designed to eliminate lateral forces when connecting to straight tubes and for ease of operation. The design also ensures that disconnection is not possible whilst still pressurised. The connector is constructed of high grade materials and features the WEH pressure assisted sealing system.



Application:

- Production of refrigerators; filling of refrigerants

- Leak testing of heat exchangers, air conditioning components, tube assemblies, automotive fuel systems.



Connecting Procedure:

1. Actuate hand lever of TW141.
2. Slide the connector onto the straight tube until it stops.
3. Release the hand lever. The connection is made.
4. Pressurize or apply vacuum if required.
5. Vent.
6. Actuate hand lever to disconnect.



High safety standard:

Type TW141 is made of high-grade materials minimizing down-time and providing a long life. It is easy to maintain and change seals.

Features:


- Pressure-tight connection in seconds
- Easy connection means no straining of muscles, joints etc.
- Robust design
- O-Ring main seal
- Robust construction
- No lateral forces generated on connection

Note:

The connector should only be used after reading and applying the operating instructions.

Info:

WEH-Connectors are available for many types of applications. Contact us for further information giving details of your specific application.



WEH®-Connector

Type TW141

Technical Data:

Application:

Function and leak testing,
filling of closed cooling
circuits.
Connection on copper
tubes, other tube materials
on request.

Pressure range:

Vacuum to 100 bar,
others on request.

Material hardness of test piece:

min. 20 HRC
max. 28 HRC

Temperature range:

-10 °C up to +80 °C

Medium:

Refrigerant, air, gas, water,
oil, etc.
(Please state medium when
ordering).

Design:

Body: anodized Aluminium.
Clamping jaw assembly:
stainless steel.

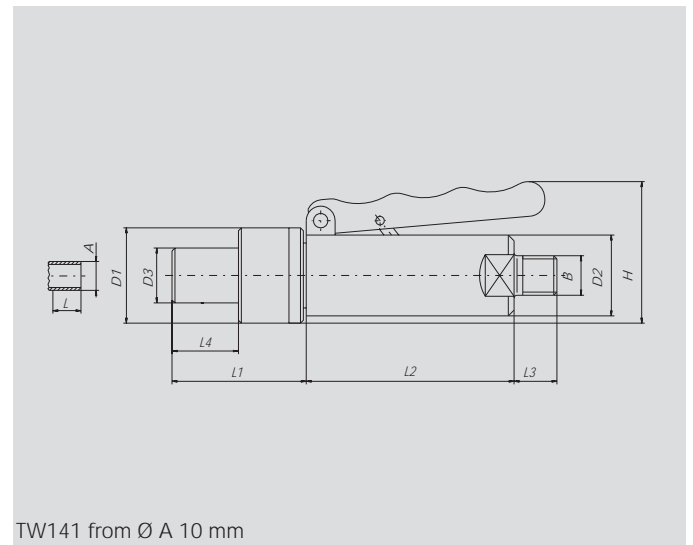
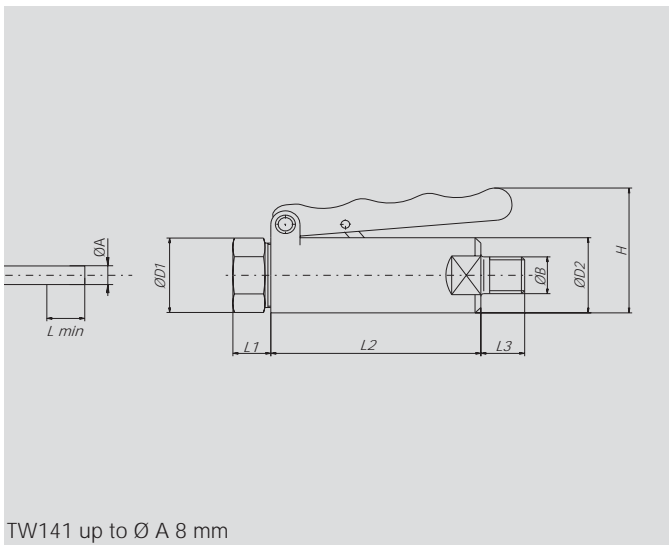
Sealing material:

Dependant on media.

Tolerance of tube diameter:

± 0,1 mm, deviating tolerances are marked by *

Dimensions (mm):



Ordering:

Ø A	Ø B	D1	D2	D3	L1	L2	L3	L4	H	Lmin	Part No.
3/8" * (±0.2)	NPT1/4"	33	28	19	49.5	72	15	26	49	21	C1-17536
6 * (±0.2)	NPT1/4"	24AF	28	—	13	72	15	—	47	21	C1-14967
8 * (±0.2)	NPT1/4"	24AF	28	—	13	72	15	—	47	21	C1-14968
10	NPT1/4"	33	28	19	46.5	72	15	23	49	15	C1-16773
12	NPT1/4"	33	28	19	46.5	72	15	23	49	15	C1-16774
15	NPT1/4"	33	28	19	46.5	72	15	23	49	15	C1-16775
16	NPT1/4"	49	28	34	46.5	72	15	23	57	15	C1-16776
18	NPT1/4"	49	28	34	46.5	72	15	23	57	15	C1-16777
22	NPT1/4"	49	28	34	46.5	72	15	23	57	15	C1-16778

Other sizes A, inlets B, materials and pressure ranges available on request!

WEH®-Connector Type TW141L

Connector TW141 long version

The WEH-Connector type TW141L has been developed for difficult to access test pieces. The extended construction makes even difficult to reach tubes in narrow spaces, easy to connect, e.g. heat exchangers. The design ensures that disconnection is not possible whilst still connected.




Connecting Procedure:

1. Actuate hand lever of TW141L.
2. Slide the connector onto the straight tube until it stops.
3. Release the hand lever. The connection is made.



4. Pressurize or apply vacuum as required.
5. Vent.
6. Actuate hand lever to disconnect.

Type TW141L simplifies connections to difficult to access tubes.



WEH®-Connector

Type TW141L

Technical Data:

Application:

Function and leak testing of tubular products.
Connection on copper tubes, other tube materials on request.

Pressure range:

Vacuum to 100 bar, others on request.

Material hardness of test piece:

min. 20 HRC
max. 28 HRC

Temperature range:

-10 °C up to +80 °C

Medium:

Refrigerants, air, gas, water, oil etc.
(Please state medium when ordering).

Design:

Body: anodized Aluminium.
Clamping jaw assembly: stainless steel.

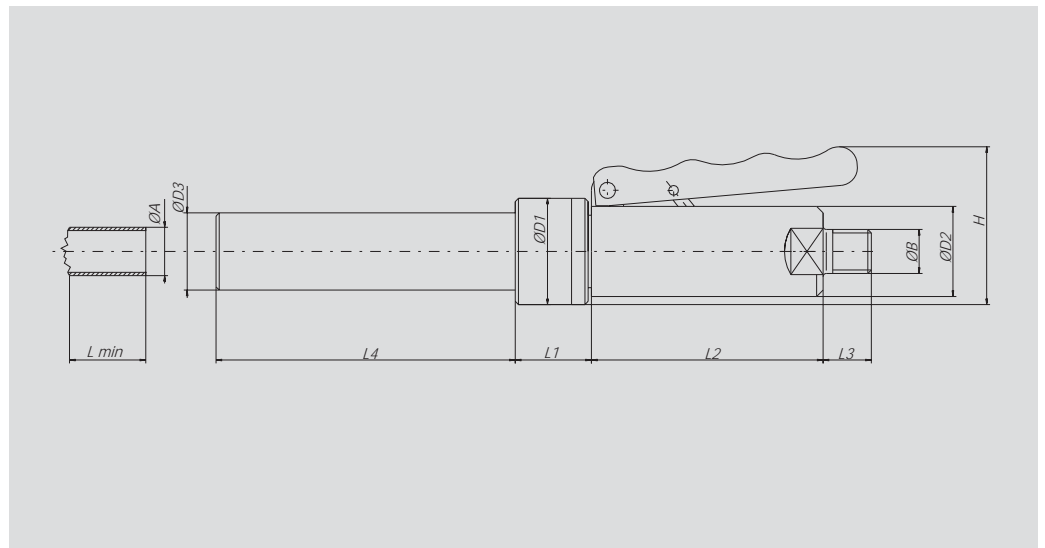
Sealing material:

Dependant on media

Tolerance tube ø:

± 0.1 mm


Dimensions (mm):



Ordering:

Other sizes on request.

Ø A	Ø B	Ø D1	Ø D2	Ø D3	L1	L2	L3	L4	H	Lmin	Part No.
15	NPT 1/4"	33	28	24	24	72	15	93	50	20	C1-16422



WEH[®]-Connector

Type JXL

Patented quick connector for pressure-tight connections on straight tubes from vacuum to 70 bar

The Type JXL Connector of the FasTest Series is suitable for filling and evacuating, for pressure and vacuum tests and for underwater, pressure decay and helium testing. Safety, the design prevents accidental disconnection under pressure. The radial seal works reliably and accepts dimensional variation without adjustment.



Application:

For charging, evacuating, pressure testing up to 70 bar and vacuum testing with Helium.

Especially for:


- Heat exchangers
- Pressure vessels
- Valves, transducers
- Compressors
- Condensers
- Evaporation coils
- Component and tubing systems
- Air conditioning
- Heating systems



Easy connection and disconnection due to ergonomic lever action

Features:

- Seals vacuum to 70 bar
 - ⇒ only one connector required for the entire process
- Radial sealing system
 - ⇒ low wear/high performance means greatly reduced maintenance requirement
- Pressure assisted clamping jaws
 - ⇒ cannot be disconnected accidentally under pressure
- Durable low wear jaws
 - ⇒ low maintenance/replacement cost
- Leak tight to 10^{-7} cc/sec.
 - ⇒ meets highly demanding mass spectrometer test
- ± 0.25 mm tolerance band
 - ⇒ no jaw or seal adjustment required therefore less downtime with improved productivity



WEH®-Connector

Type JXL

Technical Data:

Application:

Filling and evacuating of refrigerants, pressure and vacuum tests, underwater, pressure decay and helium testing. Connection on copper tubes, other tube materials on request.

Vacuum:

up to 10 millitorr.

Temperature range:

-10°C to 80°C.

Contact factory for extreme temperature applications!

Design:

- Body: anodized Aluminium.
- Clamping jaw assembly: hardened steel, stainless.

WEH Connectors are available for all kinds of applications. Ask for further information giving details of your specific application.

Pressure range:

up to 70 bar

Leak-tightness:

10⁻⁷ cc/sec.

Material hardness of test piece:

min. 20 HRC
max. 28 HRC

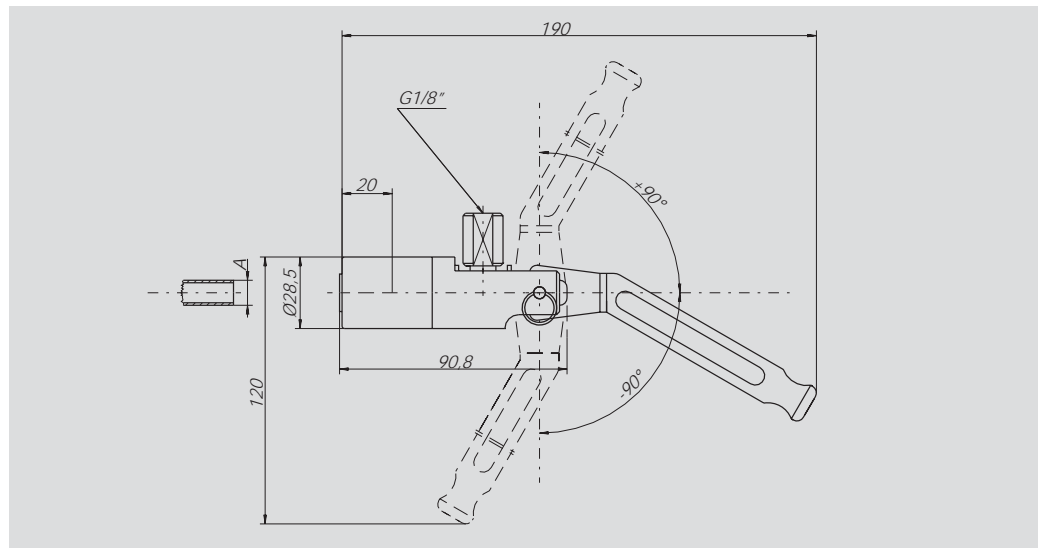
Medium:

Water, air, for a large variety of refrigerants and oils (please indicate when ordering).

Sealing material:

Seals Neopren, others on request.

Dimensions (mm):



Ordering:

For other sizes please add 'M' and the nominal bore (mm) x 10 to the standard part number.


Example: Exterior pipe ø 7.5mm
→ Part number F-JXL0-M075.

Connecting seal sets:

To order main seal sets replace 'J' in standard part number with a 'S', e.g. part number of seal set for F-JXL0-0312 is F-SXL0-0312.

Body size	Sealing range ("A"±0.25 mm*)	Part No.
0	3.2 mm (1/8")	F-JXL0-0125
	4.0 mm	F-JXL0-M040
	4.7 mm (3/16")	F-JXL0-0187
	6.0 mm	F-JXL0-M060
	6.4 mm (1/4")	F-JXL0-0250
	7.9 mm (5/16")	F-JXL0-0312
	8.0* mm +0.2/-0.3 mm	F-JXL0-0312
	9.5 mm (3/8")	F-JXL0-0375
	10.0 mm	F-JXL0-M100
	11.1 mm (7/16")	F-JXL0-0437
	12.0 mm	F-JXL0-M120
	12.7 mm (1/2")	F-JXL0-0500

Please note the special tolerances for sizes marked thus *.



WEH®-Connector

Type JNL

Patented quick connector for pressure-tight connections in straight tubes and bores from vacuum to 70 bar

Safe and functional
Type JNL lever action connectors of the FasTest Series provide pressure-tight connections to straight tubes and bores in seconds for:

- Charging
- Evacuating
- Pressure, vacuum test
- underwater, pressure decay and helium testing

The lever actuated connector with the patented jaw design with an intrinsically safe grip onto the test piece.

Safety, the design prevents accidental disconnection under pressure.



The radial seal works reliably and accepts dimensional variation (± 0.25 mm) without adjustment.



Applications:

- Underwater, pressure decay and helium testing
- Pressure and vacuum testing
- Seals straight tubes
- Seals straight bore, step bore, smooth or cast surfaces.


Especially for:

- Heat exchangers
- Pressure vessels
- Valves, transducers
- Compressors
- Condensers
- Evaporation coils
- Component and tubing systems
- Air conditioning
- Heating systems



Features:

- Seals vacuum to 70 bar
⇒ only one connector required for the entire process
- Radial sealing system
⇒ low wear/high performance means greatly reduced maintenance requirement
- Pressure assisted clamping jaws
⇒ cannot be disconnected accidentally under pressure
- Durable low wear jaws
⇒ low maintenance/replacement cost
- Leak tight to 10^{-7} cc/sec
⇒ meets highly demanding mass spectrometer tests
- ± 0.25 mm tolerance band
⇒ no jaw or seal adjustment required therefore less downtime with improved productivity



WEH®-Connector

Type JNL

Technical Data:

Application:

Filling and evacuating of refrigerants, pressure and vacuum tests, underwater, pressure decay and helium testing. Connection on copper tubes, other tube materials on request.

Pressure range:

up to 70 bar

Material hardness of test piece:

min. 20 HRC
max. 28 HRC

Vacuum:

up to 10 millitorr

Temperature range:

-10°C up to 80°C.
Contact factory for extreme temperature applications!

Leak-tightness:

10⁻⁷ cc/sec.

Medium:

Water, air for a large variety of refrigerants and oils (please indicate when ordering).

Design:

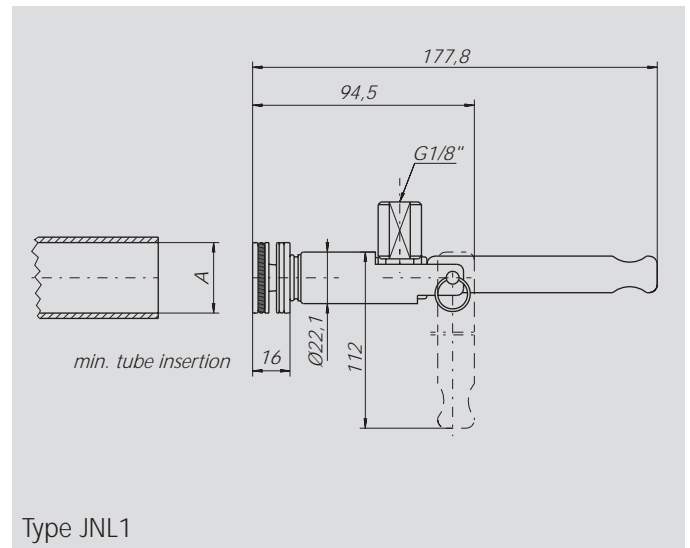
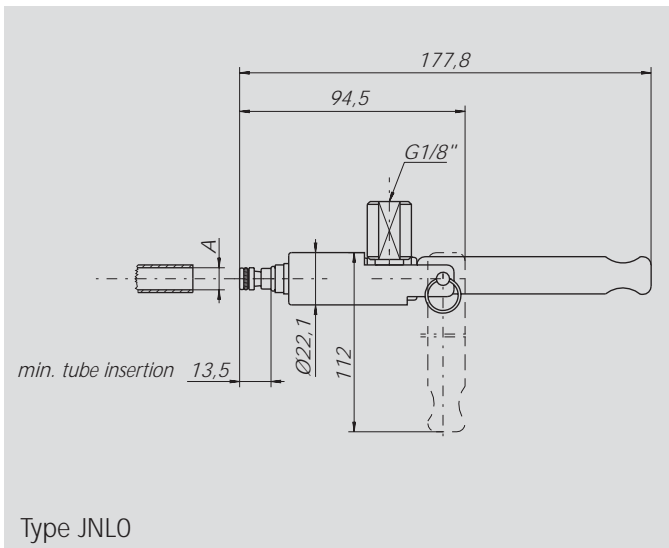
- Body: anodized aluminium
- Clamping jaw assembly: hardened rust-resistant steel

WEH have a wide range of connectors for many applications. Send for further information giving details of your specific application.

Sealing material:

Seals Neopren, o-rings of NBR, others on request.

Dimensions (mm):



Ordering:

*Please note the special tolerances for sizes marked thus.

For other sizes please add 'M' and the nominal bore (mm) x 10 to the standard part number. Example: Interior pipe Ø 11.5mm

→ Part Number F-JNL0-M115.

Connecting seal sets: to order main seal sets replace 'J' in standard part number with a 'S', e.g. part number of seal set for F-JNL1-0687 is F-SNL1-0687.

Sealing range "A" ± 0.25mm*	Part Number Type JNL	Body size	Sealing range "A" ± 0.25mm*	Part Number Type JNL	Body size
9.5 mm (3/8")	F-JNL0-0375	0	20.0 mm	F-JNL1-M200	1
10.0 mm	F-JNL0-M100		20.6 mm (13/16")	F-JNL1-0812	
11.0 mm (7/16")	F-JNL0-0437		22.0 mm* +0.45/-0.05 mm	F-JNL1-0875	
12.7 mm (1/2")	F-JNL0-0500		22.2 mm (7/8")	F-JNL1-0875	
13.0 mm	F-JNL0-M130		23.8 mm (15/16")	F-JNL1-0937	
14.3 mm (9/16")	F-JNL1-0562		24.0 mm* +0.05/-0.45 mm	F-JNL1-0937	
15.0 mm	F-JNL1-M150	1	25.4 mm (1")	F-JNL1-1000	
15.9 mm (5/8")	F-JNL1-0625		27.0 mm (1 1/16")	F-JNL1-1062	
16.0 mm* +0.2/-0.3 mm	F-JNL1-0625		28.0 mm	F-JNL1-M280	
17.4 mm (11/16")	F-JNL1-0687		28.6 mm (1 1/8")	F-JNL1-1125	
18.0 mm	F-JNL1-M180		31.0 mm	F-JNL1-M310	
19.0 mm (3/4")	F-JNL1-0750		31.8 mm (1 1/4")	F-JNL1-1250	

WEH®-Check Valve Type TVR2

WEH is offering low-cost, high-performance check valves for use with liquid and gaseous media. The check valve system is designed to minimize the effect that dirt particles have on the components. Due to the sleek, internal aero-dynamic design of the check valve, chatter and loss of media are greatly reduced.

Nominal bore:
3 mm to 50 mm

Cracking pressure:
up to nominal bore 8 mm:
approx. 0.1 bar
up to nominal bore 14 mm:
approx. 0.5 bar
greater than nominal bore
16 mm: approx. 1 bar.
other cracking pressures on
request.



Seals:
Standard valve with FKM
seals, NBR, EPDM, PTFE and
others on request.

Temperature:
FKM: -20 °C to + 140 °C,
other temperatures on
request.

Info:

Please ask for our catalogue
45 High-Performance
Check Valves TVR2 using
the attached fax reply.



WEH®-Product line

Other WEH product lines

Catalogue 35:

Quick connectors for leak-testing on components with threads, tubes, etc.



Catalogue 20:

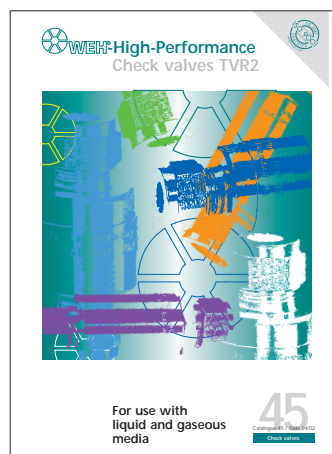
Quick connectors for the gas industry, check valves, swivel joints, etc.



Catalogue TS200/250:
Radial Filling Rigs for small gas bottles

Catalogue 45:

Complete line of check valves from 4 mm to 50 mm nominal bore.



On request WEH will also develop **special connectors** for your specific needs. Describe your application and we will try to solve it. Ask us!

Technical Information

Pressure definition:

Abbreviation	Pressure type	Description/Explanation
PN	Nominal pressure	This is a standardised term
PS	Operating pressure	The max. pressure to which the component is subjected (1.25 x PN)
PT	Test pressure	The pressure to which the component is tested by the manufacturer ('once only' test, 1.43 – 1.5 x PS)
P1, P2, P3	Pilot pressure	For pneumatically actuated connectors. P1 – P3 is normally air pressure.

Admissible operating pressure:

The admissible operating pressure has been determined as follows: 100,000 x cycles impacting the component with 125 % of PN.

The pressure wave is sinusoidal.

Pressure/Temperature:

For higher temperatures the max. operating pressure needs to be reduced dependant on the application. Possible values therefore are: 50 °C – 5 %, 100 °C – 10 %, 150 °C – 20 %.

Notice:

Maximum care has been taken compiling this catalogue based on many years of experience. However we must point out, that all catalogue data is only valid, if it was expressly confirmed in the individual order. We cannot guarantee the veracity of the data and the introductions in individual cases due to the large variety of applications for WEH products, and the unknown parameters and conditions of use. We have to refer to the individual order.

The limits of use for pressure, temperature etc. in this catalogue are theoretical data calculated on the basis of tests. Because of different operating conditions we cannot guarantee that the data do accord with the special use of the client. It has to be considered, that in the practical use interactive interferences of data parameters can cause the change of the maximum values. Especially if the operating conditions are extreme, the WEH Company must be consulted before the use of the products.

Therefore the requested values should be stated in the individual order, especially for extreme operating conditions.

Furthermore we point out, that we cannot guarantee for misprints, uncompleted data or misinterpretation. The illustration of the products is for demonstration only.

The exact form and design of the product is only defined by the individual order. The brochure is only an integral part of the contract, if it is agreed expressly. Dimensions and other technical data in this catalogue are without obligation.

Technical Information

Temperature ranges: (if no other values indicated)

Standard range:
+5 °C up to +80 °C, special range: on request

The temperatures stated as standard cover most common applications. The seal material used has higher or lower temperature limits dependant on material (e.g. NBR -30 °C up to +100 °C, FKM -20 °C up to +200 °C, EPDM -40 °C up to +150 °C).

Under such extreme temperature conditions the suitability of WEH products to the application has to be checked specifically. If necessary, we can develop special solutions.

Seals:

The seal materials are stated with each type. For seals that are not being directly exposed to the media - NBR is used, if not otherwise stated.

Seal material	suited for	Note
NBR (e.g. Perbunan)	Mineral oils, air, water	Not for water over 80 °C!
FPM, FKM	Mineral oils, petrol, super petrol, diesel oils, air	
EPDM	Hot water, steam, brake fluid	Not resistant for mineral oils!
Urethane	Mineral oils, air	Not for water over 50 °C

This list only contains a small selection of suitable media. If your media is not listed, please contact us. Other seal materials can be specified on request.

Conversion table of temperature ranges:

Unit abbreviation	Conversion to K	Conversion to °C	Conversion to °F	Conversion to °R
Kelvin (K)	1	Kelvin temperature - 273.15	(Kelvin temperature - 273.15) x 1.8 + 32	Kelvin temperature x 1.8
Celsius (°C)	Celsius temperature + 273.15	1	(Celsius temperature x 1.8) + 32	(Celsius temperature + 273.15) x 1.8
Fahrenheit (°F)	(Fahrenheit temperature - 32) x 5/9 + 273.15	(Fahrenheit temperature - 32) x 5/9	1	Fahrenheit temperature + 459.67
Rankine (°R)	Rankine temperature x 5/9	Rankine temperature x 5/9 - 273.15	Rankine temperature - 459.67	1

Fax reply

Inquiry Order

Please make a copy of this form
and fax your inquiry/order to:

+49 7303 9609-9999



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Fax: +49 7303 9609-9999
E-mail: sales@weh.com
http://www.weh.com

Name	_____	Position	_____
Company	_____	Department	_____
Address	_____	Phone	_____
Postcode/City	_____	Fax	_____
Country	_____	E-mail	_____

Part No.	Article	Quantity	Price/Unit	Price

Date Signature Stamp

Fax reply

Refrigeration and Air Conditioning

Please make a copy of this form
and fax it to:

+49 7303 9609-9999

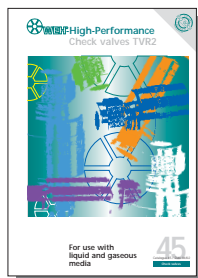


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Address	_____	Phone	_____
Postcode/City	_____	Fax	_____
Country	_____	E-mail	_____

We are manufacturers of: _____

Yes, I want to have more details



- Catalogue 35
(Main Catalogue)
- Catalogue 20
(Connectors for the gas industry)
- Catalogue 45
(High-Performance Check Valves TVR2)
- Catalogue TS200/TS250
(Radial Filling Rigs for small bottles)
- Offer (Please describe your application)
- Please contact us
- Visit

Remarks _____
