



WEH®-Connector

for the Gas Industry



**Filling
Testing
and more...**

For your safety – WEH

20

Catalogue 20 / Date 08/09

GAS

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

WEH®-Products for your application

WEH – Your connection for the gas industry

Since 1983 WEH have been developing technically advanced quick connectors for filling gas cylinders.

WEH-Connectors are used for applications where gas cylinders have to be filled and tested. They are an excellent choice for applications where continuous connecting and disconnecting is necessary.

WEH filling connectors offer fast connections and ergonomic design giving a cost effective investment. This ease of connection eliminates the strain on muscles and joints associated with screw connections. Place the connector on the valve, move the lever, connection complete!

All WEH-Connectors are manufactured to ISO 9001 quality standard and are also approved for various demanding applications e.g. the BAM adiabatic oxygen test. About 70,000 connectors are used by major gas companies worldwide, let your company take advantage of this technology.

The latest WEH product

is a complete filling rig for small gas cylinders that is designed for economic filling of gas cylinders. The whole filling procedure has been optimised thus reducing connecting and filling times to a minimum. Please ask for our detailed catalogue using the attached fax reply.

World first

We have succeeded in developing a pneumatically operated linear valve needing only about half the space of conventional products. Dependant on the application additional valves are not needed due to its unique design.

WEH High-Performance Check Valves

The WEH product range has been extended with a complete range of check valves which have been developed especially for the gas industry.

Everywhere media flows, the check valve is an indispensable component. The WEH-Check Valves are suitable for liquid and gaseous media.



Quick connectors for filling

-Type TW54/57 200 bar
for filling gas cylinders;
for internal or external
threads
(Page 6)



-Type TW54/57 300 bar
for filling gas cylinders;
for external and internal
threads
(Page 8)



- Type TW52
for filling CO₂
(Page 10)



- Type TW42
for filling gas cylinders
with Pin Index residual/
non-residual pressure valves
(Page 12)



- Type TW49
for filling gas cylinders
with Pin Index connection
(Page 14)



- Type TW53
for filling
acetylene/acetone
(Page 16)



- Type TW59
for filling
propane/butane
(Page 18)



Quick connectors for testing

-Type TW17
for testing gas cylinders
with internal threads
(Page 20)



-Type TW117
for proof testing, filling
and emptying gas cylinders
with internal threads
(Page 22)



-Pressure measuring unit
for filled gas cylinders
(Page 24)



Valves: **-High pressure valve TV17**
4 different configurations
(Page 25)



-Check Valve TVR2
nominal bores from
3 to 50 mm
(Page 26)



Accessories: **-Swivel joint TD1**
swivels at zero pressure/
locks under pressure
(Page 27)





WEH®-Connector

Type TW54/57 for 200 bar

Connector for filling gas cylinders

Connects the filling hose to the gas cylinder in seconds

The WEH-Connectors, **TW54 for internal threads** and **TW57 for external threads**, make a pressure-tight connections in seconds. The split collet design system locks securely and seals tightly the cylinder valve thread.

Reduces Stress Injuries

Continuous screwing and unscrewing of threaded joints causes inflammation of tendons and abrasion of joints. The WEH-Connector eliminates these movements and generates substantial savings in filling and handling time.



Options:

The WEH-Connectors type TW54/57 are also available with pin probes for residual pressure valves.



Connecting Procedure:

1. Ensure that the operating loop is completely moved upwards. Then place the WEH-Connector onto/into the cylinder valve until it stops.



2. Lower the operating loop by 90°.



3. To disconnect, lift up the operating loop by 90°.

Features:

- Pressure-tight connection in seconds
- High safety standard
- Easy to connect
- Reduces stress injuries
- Operation with either hand
- Compact design
- Can be used in pallet filling

Note:

High Pressure Gases are potentially dangerous. Do not use WEH-Connectors without first reading and following the operating instructions included with the product. Additional copies of these instructions may be obtained from the distributor or manufacturer.

High safety standard

WEH-Connectors are made out of high-grade materials, under strict quality control. Special seal design ensures reliable seal. A fully developed design with simple actuation controlling the function of the gas connector.

Safety feature:

The WEH-Connector cannot be disconnected under pressure, as the safety peg protrudes and locks the connector against removal.

Type TW54/57 for 200 bar

Technical Data:

Application:

Filling gaseous media:
TW54: for internal threads
TW57: for external threads

Thread size A:

- Connections acc. to the corresponding national standard, e.g. DIN 477, CGA etc.
- Special connections available
- Also for residual pressure valves

Inlet B:

M16x1.5

Pressure range:

Acc. to the medium,
vacuum and
PN = 200 bar max.
PS = 250 bar
PT = 375 bar
Other pressure ranges on request.

Temperature range:

See page 29

Medium:

Oxygen, nitrogen, inert gases, CO₂, air, medical gases and others.

Design:

Brass and corrosion resistant steel. Different designs available, e.g. operating loop, wire, additional locking device etc.
Sealing material acc. to gas type.

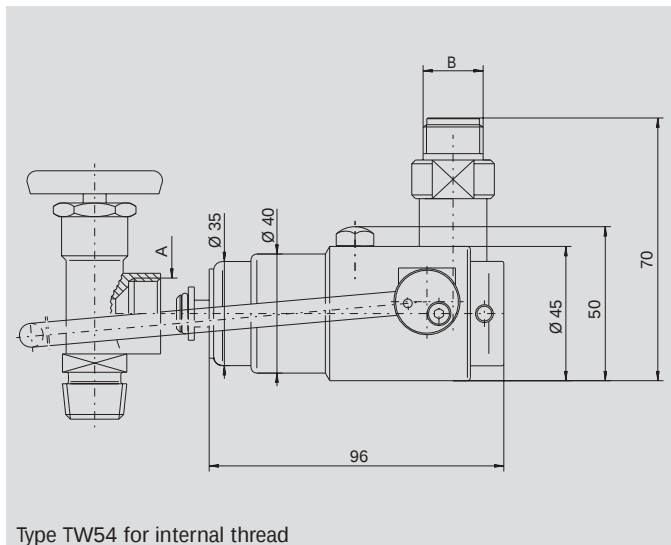
Adiabatic oxygen approval:

Type TW54/57 - 200 bar

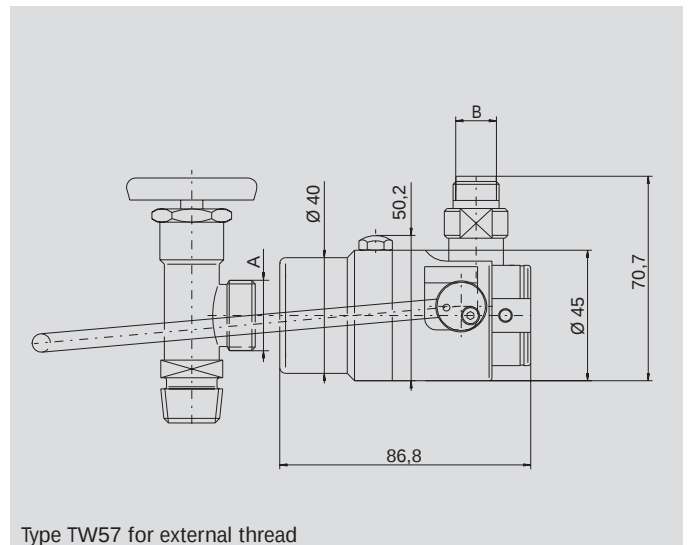
Registration:

PED 97/23/EC: CE 0036

Dimensions (mm):



Type TW54 for internal thread



Type TW57 for external thread

Ordering:

Please indicate the following information when requesting an offer/order:

- Dimensions or DIN-Number
- Typ of gas
- Pressure range

Options:

- Actuator in various sizes and forms
- Pin probes for residual pressure valves

Accessories:

Swivel Joint Type TD1:

The swivel joint TD1 helps to connect the WEH-Connector to the valve when the valve is not in line with the connector. This eliminates hose twist / stress.
See page 26.

Adaptors:

A large variety of adaptors are available to connect the WEH-Connector to the hose. Please contact us.

WEH®-Connector

Type TW54/57 for 300 bar

Connector for filling gas cylinders

The WEH-Connector types TW57 for external threads and TW54 for internal threads have the same quick-connect properties as the connector for 200 bar and seal the cylinder valve thread pressure-tight in seconds.

Reduces Stress Injuries

Continuous screwing and unscrewing of threaded joints causes inflammation of tendons and abrasion of joints. The WEH-Gas Connector eliminates these movements and helps the operators to do their jobs more effectively.



Options:

The WEH-Connector types TW57 and TW54 are also

available with pin probes for residual pressure valves.



Connecting procedure:

1. Ensure that the operating loop is completely moved upwards. Then place the WEH-Connector onto/into the cylinder valve until it stops.



2. Lift up the operating loop until it stops, thus lowering the wire over the valve (standard operating loop also possible; see type TW54/57 for 200 bar, page 6)



3. To disconnect, lower the operating loop, thus lifting up the wire by 90°.

Features:

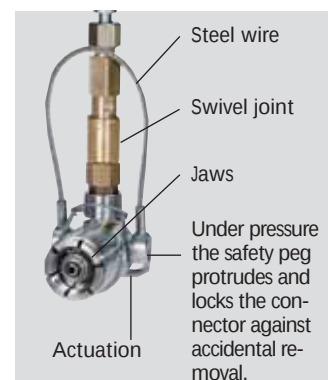
- Pressure-tight connections in seconds
- High safety standard
- Easy to connect
- Reduces stress injuries
- Operation with either hand
- Compact design
- Can be used in pallet filling

Note:

High Pressure Gases are potentially dangerous. Do not use WEH-Connectors without first reading and following the Operating Instructions included with the product. Additional copies of these instructions may be obtained from the distributor or manufacturer.

High safety standard

WEH-Connectors are made out of high-grade materials under strict quality control. Special seal design ensures a reliable seal. A fully developed design with simple actuation controlling the function of the gas connector.



Type TW54/57 for 300 bar

Technical Data:

Application:

Filling of gaseous media
TW54: for internal thread
TW57: for external thread
on request

Thread size A TW57:

- W30x2 external thread
- Special connections available
- Also for residual pressure valves
- CEN-Norm: oxygen:
CEN-No. 7FTSC-Code 4170
nitrogen, argon:
CEN-No. 1FTSC-Code 0170

Thread size A TW54:

- On request

Inlet B:

M16x1.5

Pressure range:

Acc. to the medium,
vacuum and
PN = 300 bar max.
PS = 380 bar
PT = 565 bar
Other pressure ranges on
request.

Temperature range:

See page 29

Medium:

Oxygen, nitrogen and argon

Design:

Brass and corrosion resistant
steel. Different designs
available, e.g. operating
loop, rope, additional
locking device etc.
Sealing material acc. to gas
type.

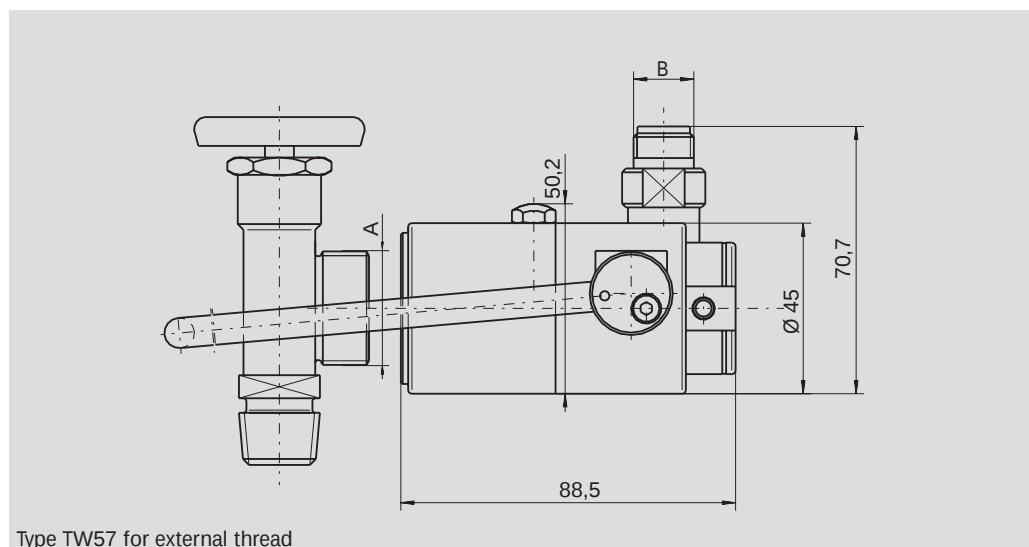
Adiabatic oxygen approval:

Type TW54/57 - 300 bar

Registration:

PED 97/23/EC: CE 0036

Dimensions (mm):



Ordering:

Please indicate the
following information when
requesting an offer/order:

- Dimension of connector
or DIN-No.
- Type of gas
- Pressure range

Options:

- Actuator in various sizes
and forms
- Pin coding for residual
pressure valves

Accessories:

Swivel Joint TD1:

The swivel joint TD1 helps
to connect the WEH-Con-
nector to the valve when
the valve is not in line with
the connector. This elimi-
nates hose twist / stress.
See page 26.

Adaptors:

A large variety of adaptors
in different sizes and
dimensions are available to
connect the WEH connector
to the hose.
Please contact us.

WEH®-Connector Type TW52

Connector for filling CO₂ or refrigerant (DN = 5 mm)

The WEH-Connector type TW52 has been developed especially for filling gaseous and liquid CO₂. 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 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).

Temperature range:

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

Pressure range:

Acc. to the media

TW52:

PN = 200 bar
 PS = 250 bar
 PT = 375 bar

TW52 with TVCO₂:

PN = 120 bar
 PS = 150 bar
 PT = 230 bar

Medium:

CO₂, refrigerant (please indicate when ordering!).

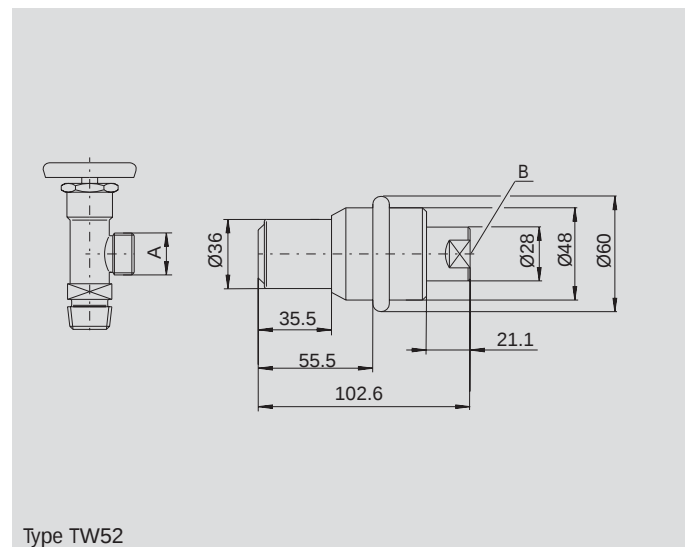
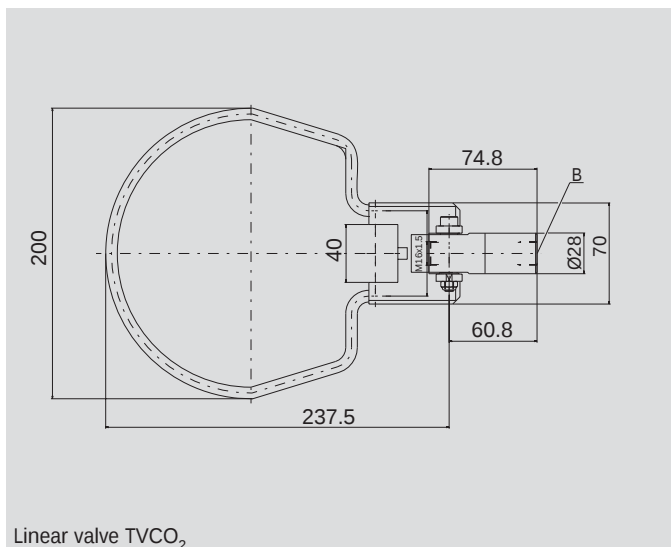
Design:

Steel and brass (CuZn39Pb3).
 Sealing material acc. to gas type.

Registration:

PED 97/23/EC: CE 0036
 (not valid for TVCO₂)

Dimensions (mm):



Ordering:

Other connector sizes and versions on request.

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 G1/4"	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® Pin-Index Connector

Type TW42

Connector for filling of gas cylinders with Pin Index residual and non-residual pressure valves

WEH has extended its range of connectors with the launch of a new connector for filling gas cylinders with Pin Index residual and non-residual pressure valves. Designing the connector bow to be open at one side the type TW42 makes easy to connect. Especially cylinder valves with large hand wheels. The internal construction prevents accidental disconnection under pressure and provides additional safety.



Connection within seconds

Simply place the connector bow around the valve profile and

turn the operating handle – the pressure-tight connection is established. The sealing piston is designed with variable travel to

overcome differences in counterbores on the connection side of the valve.



Connecting Procedure:

1. Place the connector bow around the cylinder valve so that the location pins can be inserted in the counterbores of the valve.
2. Turn operating handle upwards through 90° to connect.

Features:

- For residual and non-residual pressure valves
- Open bow for quick connection
- Sealing piston with variable travel to prevent accidental disconnection under pressure

High safety standard

WEH-Connectors are made out of high-grade materials under strict quality control. Special seal designs ensure a reliable seal. The user-friendly design virtually reduces the possibility of incorrect connection.



After depressurization of the system:
Turn the operating handle downwards through 90° to disconnect.

Note:

This connector is not designed to carry the weight of the gas cylinder so do not suspend the cylinder from the connector. Use filling rig TS200 or TS250 for this application.



WEH®-Pin-Index Connector **Type TW42**

Technical Data:

Application:

Filling of gas cylinders with valves with/without residual pressure valve acc. to PIN-INDEX coding system.

Pressure range:

PN = 200 bar
PS = 250 bar
PT = 375 bar

Temperature range:

See page 29

Medium:

Medical oxygen, other media on request.

Adiabatic oxygen

approval:
Available

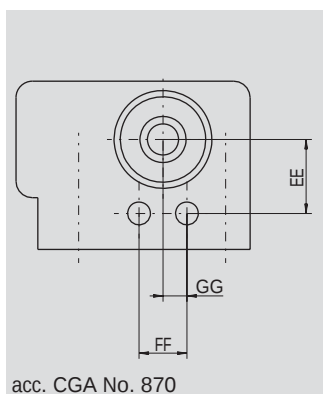
Design:

Housing brass, all other parts corrosion-resistant steel. The location pins code gas medium and prevent use with the wrong media. On request all parts in contact with the gas flow can be made out of brass. Sealing material acc. to gas type.

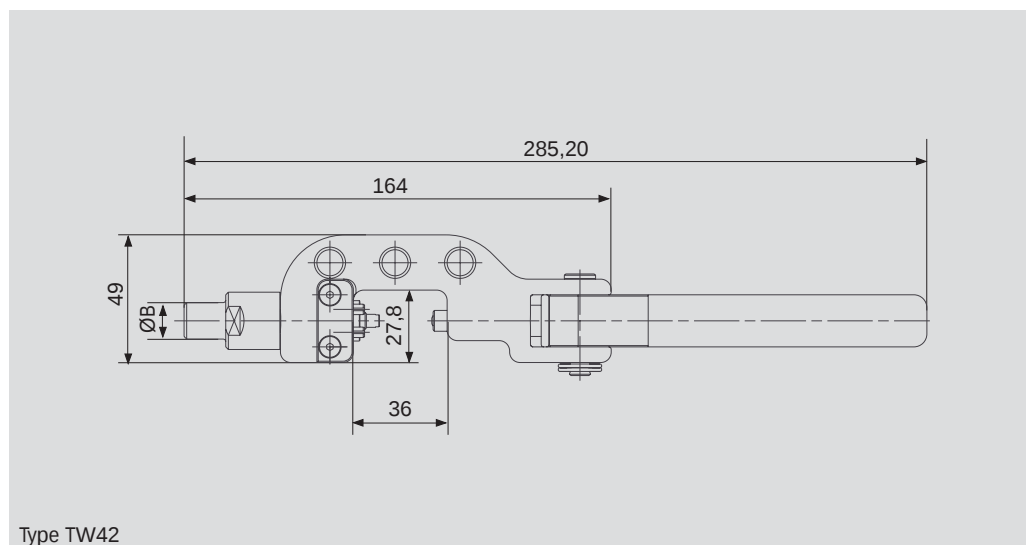
Registration:

PED 97/23/EC: CE 0036

Dimension (mm):



Dimensions	mm
EE	13.6 ± 0.07
FF	8.8 ± 0.07
GG	4.4 ± 0.15



Ordering:

Other connector sizes and versions on request.

Type	Inlet B	Part No.
TW42, suitable for Neriki valve *	NPT 1/4" external thread	C1-4738

* other valves on request



WEH® Pin-Index Connector

Type TW49

Filling connector for valves with Pin Index connection

Sophisticated Connection System

WEH-Connection systems eliminate bolt clamping and save time, when connecting medium lines. The type TW49 has been developed explicitly for the worldwide Pin Index Standard.

Connection within seconds

Simply insert the locator pins into the counterbores of the valve and turn the operating handle in either direction until it clicks into place. The pressure-tight connection is established. The sealing piston is equipped with variable piston travel to overcome differences in counterbores on the



connection side of the valve. Type TW49 can easily be adjusted from right-hand to left-hand operation if required.

Note:

Type **TW49** is **not** suitable for use with **residual pressure valves**!



Connecting procedure:

1. Place the connector over the valve.
2. Insert the location pins into the counterbores of the valve
3. Turn operating handle in either direction until it clicks into position.

After depressurization of the system:
Turn the operating handle in opposite direction to disconnect the connector.



Features:

- Pressure-tight connection in seconds
- Operation with either hand
- Sealing piston with variable travel to prevent accidental disconnection under pressure.

High safety standard

WEH-Connectors are made out of high-grade materials under strict quality control. Special seal designs ensure a reliable seal. The user-friendly design virtually reduces the possibility of incorrect connection.

Medium port



Location pins

Sealing piston with variable travel

WEH®-Pin-Index Connector Type TW49

Technical Data:

Application:

Filling of gas cylinders with valves without residual pressure valve acc. to PIN-INDEX coding system

Pressure range:

PN = 200 bar
PS = 250 bar
PT = 375 bar

Temperature range:

See page 29

Medium:

Medical oxygen, other media on request.

Adiabatic oxygen approval:

Available

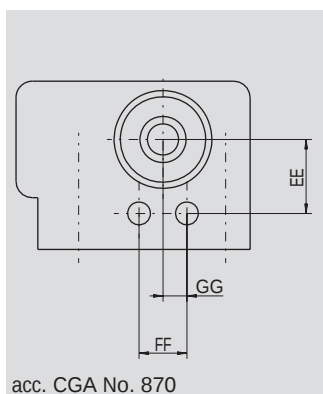
Design:

Housing brass, all other parts corrosion-resistant steel. The location pins code gas medium and prevent use with the wrong media. On request all parts in contact with the gas flow can be made out of brass. Sealing material acc. to gas type.

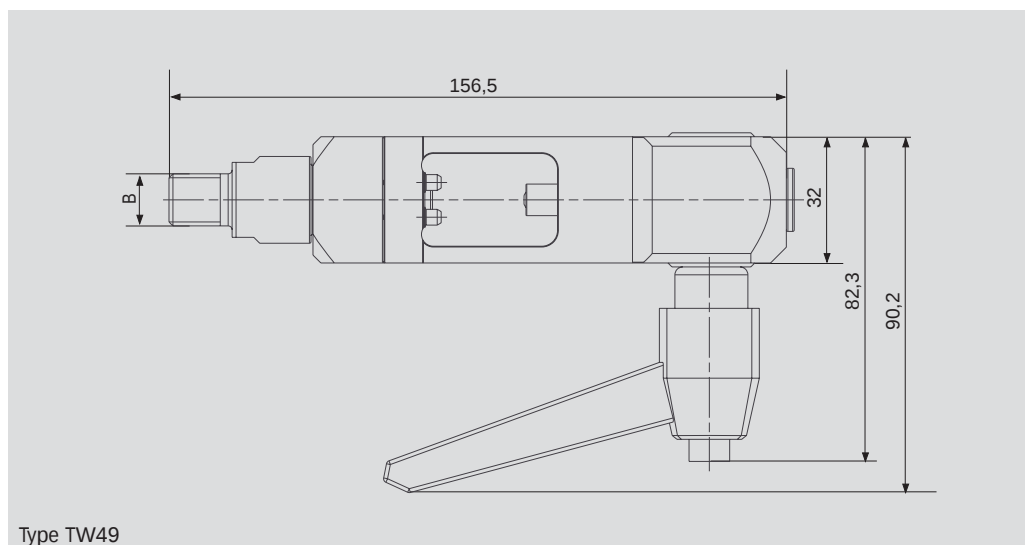
Registration:

PED 97/23/EC: CE 0036

Dimensions (mm):



Dimension	mm
EE	13.6 ± 0.07
FF	8.8 ± 0.07
GG	4.4 ± 0.15



Ordering:

Other connector sizes and versions on request.

Type	Inlet B	Part No.
TW49	NPT 1/4" A	C1-4439

WEH®-Connector Type TW53

Connector for filling of Acetylene/Acetone

User-friendly application and safety features

The WEH acetylene/acetone filling connector introduces a new generation of connector systems for the industrial filling of acetylene and acetone.

The type TW53 is connected to the gas cylinder valve like a conventional filling device but eliminates bolt tightening. An optional swiveling joint at the gas inlet port supports ease of handling. With a turn of the handle the pressure-tight connection is established. The amount of vented gas is always less than 1 cm³ at 1 bar.



Connecting procedure:

1. Connect WEH-Connector type TW53 to the valve and actuate the handle until it clicks into position.

→ the pressure-tight connection is accomplished and the filling procedure can be started.



2. When filling is completed the type TW53 is disconnected by pressing the unlocking button and turning the handle back into the initial position.

→ The integrated shut off valve prevents the escape of gas.



Features:

- Pressure-tight connection in seconds
- No spanners or threaded connectors
- Easy connection means no straining of muscles, joints etc.
- Shut off valve ensures that gas flows only if connected to cylinder
- Filling of acetylene and acetone with the same connector
- Robust design
- Corrosion-resistant steel

Safety Tested

The WEH connector type TW53 is BAM tested and meets the requirements of the technical rules for acetylene plants (TRAC).

No additional valves required

The integrated shut off valve prevents the leakage of gas. An optional check valve prevents the loss of gas in case of damage to the filling base. The WEH-Connector type TW53 combines ease of operation with maximum safety.

Information:

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

WEH®-Connector Type TW53

Technical Data:

Application:

Filling of gas cylinders with acetylene/acetone, thread acc. to DIN 477 part 1, No 3, others on request.

Pressure range:

PN = 30 bar
 PS = 37,5 bar
 PT = 57 bar

Temperature range:

See page 29

Medium:

Acetylene, acetone

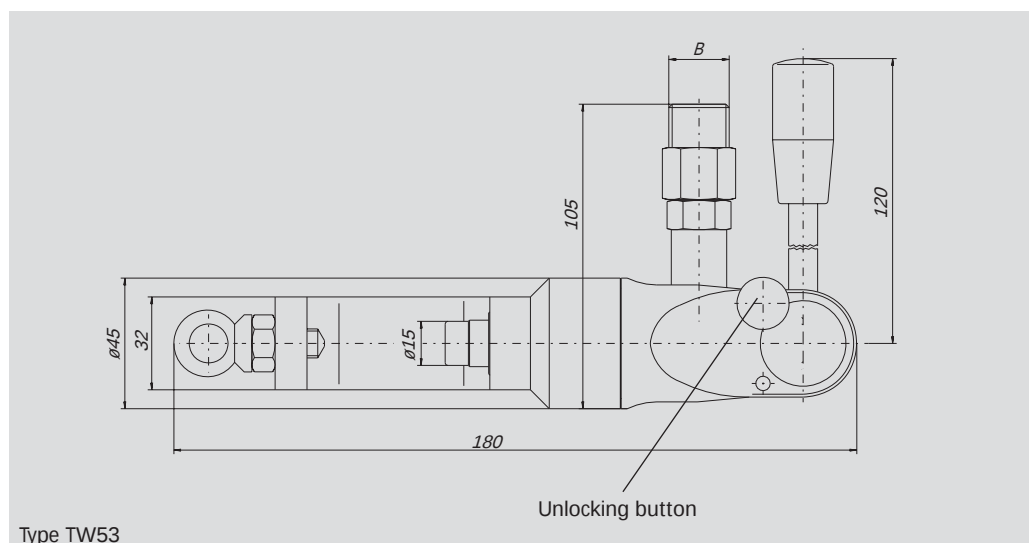
Registration:

BAM-approval
 Burst pressure test up to 315 bar

Design:

All parts in corrosion-resistant steel, inlet adaptator in brass. Sealing material acc. to gas type.

Dimensions (mm):



Ordering:

Other connector sizes and versions on request.

Type	Inlet B	Part No.
TW53	G 1/2" external thread with or without check valve	C1-4419

Accessories:

Adaptator

With integrated check valve

Swivel joint TD1:

The swivel joint helps to connect the WEH-Connector to the valve, when the valve is not in line with the connector. There is no twisting of the hose. See page 26.

WEH®-Connector Type TW59

A WEH Connector for filling of propane/butane

The WEH filling connector type TW59 is specifically designed for the filling of propane and butane cylinders and represents a major step in the technology of safe application, economy, ergonomics and flexibility. The WEH filling connector meets the requirements of technical rules for gases and provides an intrinsically safe connection. The seal between the WEH-Connector and the gas cylinder valve is mechanically actuated and the sealing force is increased by the gas filling pressure. This means that there is no need for a compressed air safety reservoir, the air supply is used to withdraw the seal when connecting / disconnecting in order to



achieve effortless operation. If needed, a second pneumatic tapping is provided for pilot pressure. This can be used to indicate the operational condition of the connector, that is connected

or disconnected and could for example be used to automatically pilot the loading and unloading of the gas cylinders from the filling station.



Connecting procedure:

1. Push the WEH-Connector type TW59 onto the threaded outlet of the gas cylinder valve.
→ The WEH clamping jaws collapse and the pressure-tight connection is established; filling can now proceed.



2. When disconnecting after filling, first close the cylinder valve. Then pull back the WEH-Connector.
→ The integrated shut off valve automatically prevents the escape of gas from the connector when disconnecting.

Features:

- Intrinsically safe
- Pressure-tight connection in seconds
- No spanners or threaded connectors
- Easy connection means no straining of muscles, joints etc.
- Shut off valve ensures that gas flows only if connected to cylinder
- Single handed operation
- Robust design
- Corrosion resistant material

Safety Tested

The WEH connector type TW59 is TÜV tested and meets the requirements of the technical rules for gas (TRG).

No additional valves required

The integrated shut off valve prevents the leakage of gas when connecting and disconnecting. The gas flow is immediately interrupted when disengaging the pressurized connector.

Information:

WEH-Connectors are available for all kinds of applications. Ask for further information giving details of your specific application using the attached fax reply.

WEH®-Connector Type TW59

Technical Data:

Application:

Filling of propane/butane for connections acc. to DIN 477 part 1 no. 1 and 2, others on request.

Pressure range:

PN = 24 bar
PS = 30 bar
PT = 45 bar

Temperature range:

See page 29

Medium:

Propane, butane

Actuation:

Pilot pressure:

5 – 8 bar,

Pilot Circuit:

S1 M5-thread

Pressure assistance:

S2 M5-thread

If this feature is not required the port must be fitted with a blanking plug (factory fitted)

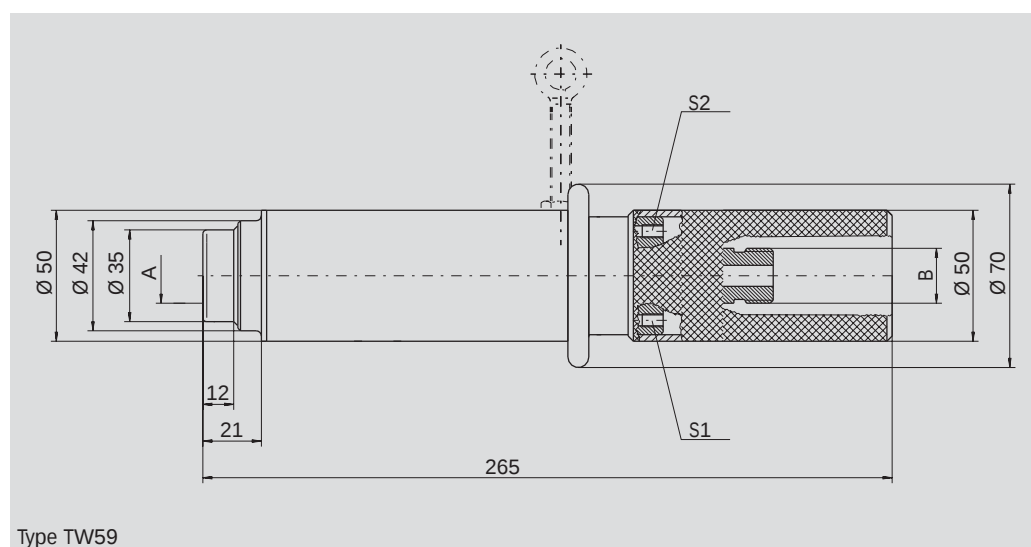
Design:

All parts in aluminium or corrosion-resistant steel. Sealing material acc. to gas type.

Registration:

TÜV-Approval

Dimensions (mm):



Ordering:

Other connector sizes and versions on request.

Type	Connection A	Inlet B	Part No.
TW59	W 21,8 1/14" external thread left	W 21,8 1/14" external thread left	C1-10291

WEH®-Connector Type TW17

Connector for water pressure testing of gas cylinders up to 350 bar

Ergonomical and safe design

The WEH-Connector type TW17 offers time saving on pressure testing of gas cylinders by eliminating tedious manual threading. A pressure-tight connection is made in seconds and water to 350 bar can be supplied for pressure testing. Actuation is made by an integrated pneumatic valve. No external valve for the pilot pressure is required.



Connecting Procedure:

1. Make sure that the pilot pressure line is connected. Press the push button of the pneumatic valve.
2. Insert the WEH clamping jaws into the thread of the gas cylinder. Release the push button.

→ The clamping jaws are spread apart and grip and the pressure-tight connection is made.



Features:

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

High safety standard

WEH-Connectors are made of high-grade materials, minimize down time and provide a long tool life.

Information:

WEH-Connectors are available for all kinds of applications. Ask for further information giving details of your specific application using the attached fax reply.

Conical jaws grip in the connection thread of the gas cylinder



WEH®-Connector Type TW17

Technical Data:

Application:

Pressure testing of gas cylinders with water.

Actuation pressure:

Air: 6 to 8 bar,
Thread size G1/8"

Pressure range:

PN = 280 bar
PS = 350 bar
PT = 525 bar

Temperature range:

See page 29

Medium:

Water

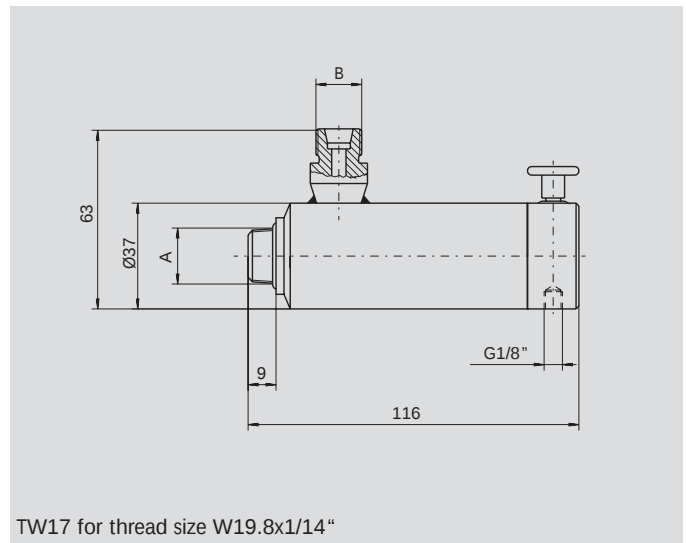
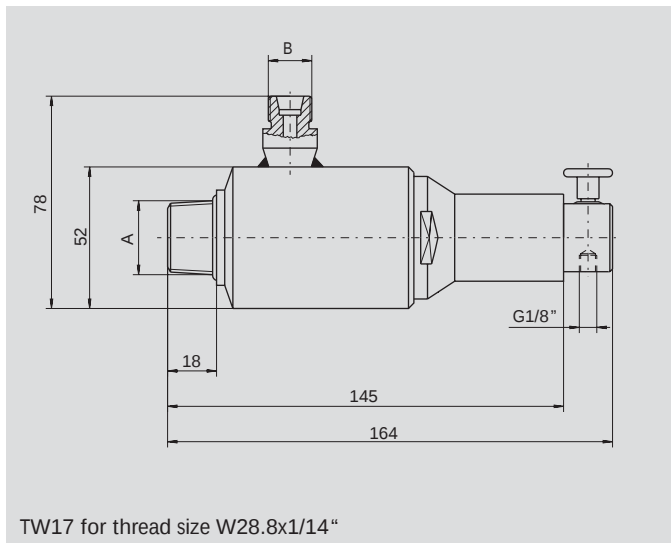
Design:

All parts corrosion-resistant steel, pneumatic actuation. Other designs on request (e.g. with lever actuation). Sealing material NBR.

Registration:

PED 97/23/EC: CE 0036

Dimensions (mm):



Ordering:

Other connector sizes and versions on request.

Type	Connection A	Inlet B	Part No.
TW17	W19,8 x 1/14"	M16 x 1,5 *	C1-33210
TW17	W28,8 x 1/14"	M16 x 1,5 *	C1-30341

WEH®-Connector Type TW117

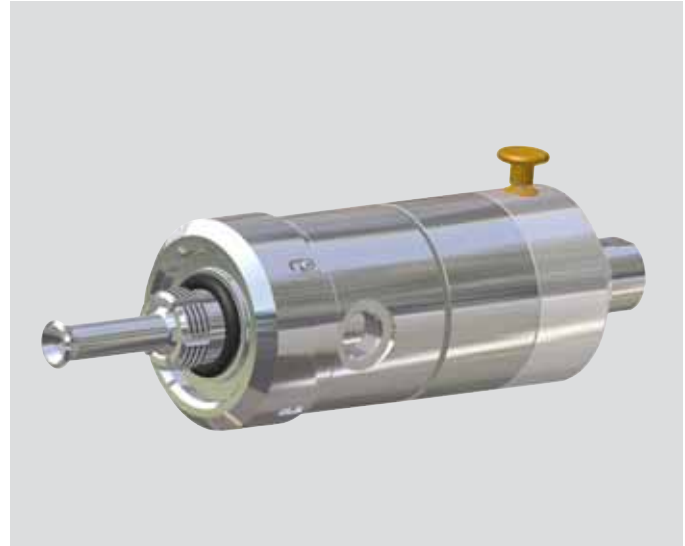
Connector for proof testing, filling and emptying gas cylinders with water

The new WEH Type TW117 connector simplifies testing gas cylinders. Eliminating repetitive screwing and unscrewing of threaded parts saves time and money and also spares the employees muscles and joints.

The TW117 WEH Connector is highly cost effective because of its multifunction capabilities.

Three functions with one connection:

1. Filling the cylinder with water
2. High-pressure test
3. Discharging the cylinder



The TW117 WEH Connector is easy to connect and disconnect with a single-handed operation. The ergonomic design ensures

ease of use. The WEH Connector is available for test pressures up to 450 bar as standard.



Test procedure:

1. Make sure that the pilot pressure line is connected. Push the button of the pneumatic valve → the jaws collapse.



2. Plug the type TW117 into the thread of the gas cylinder. Release the button → the clamping jaws are spread apart; the pressure-tight connection is established.

3. Now you can fill, pressure test or discharge the cylinder.



High safety standard

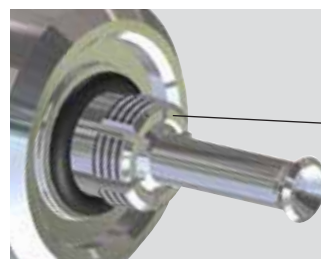
WEH-Connectors are made of high-grade materials under strict quality control. Special seal designs ensure a reliable sealing. A user-friendly design virtually excludes the possibility of incorrect connection.

Features:

- Pressure-tight connection instantly
- No screwing, eliminates repetitive strain injuries
- Robust construction
- High quality, stainless steel design
- Application versatility (three functions)

Information:

WEH-Connectors are available for all kinds of applications. Please enquire giving details of your specific application.



WEH®-Connector Type TW117

Technical Data:

Application:

Gas cylinder testing, filling and discharging.

Pressure range:

PN = 450 bar
PS = 565 bar
PT = 850 bar

Pilot pressure:

Connection P: M5
6 to 8 bar air

Thread Size A:

W28,8 x 1/14"

Media Inlet:

B: M16 x 1,5 internal thread
C: G3/8" internal thread

Temperature range:

+10°C up to +50 °C

Design:

All parts corrosion resistant, pneumatic actuation, other versions on request.

Seals NBR

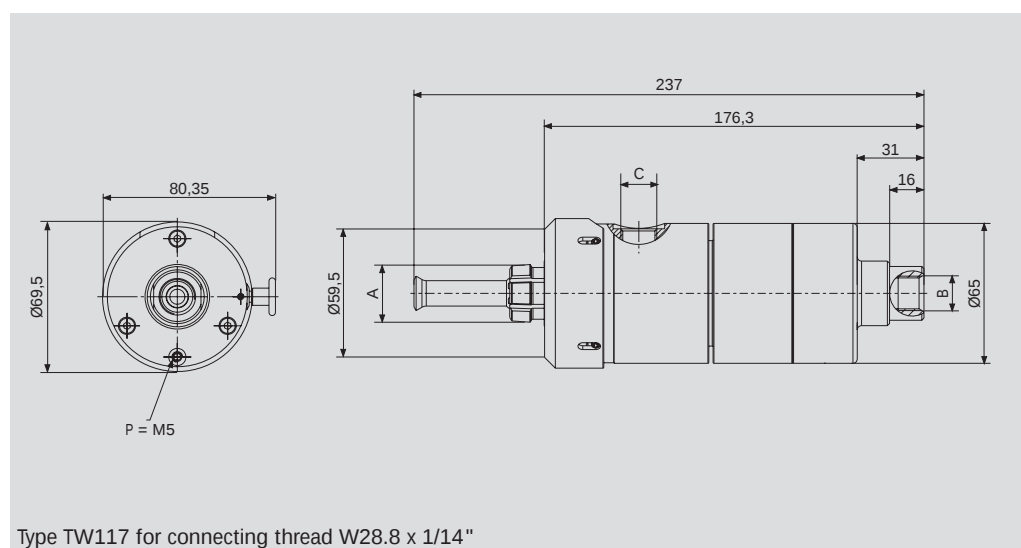
Medium:

Water

Registration:

PED 97/23/EC: CE 0036

Dimensions (mm):



Ordering:

Other connector sizes and versions on request.

Type	Connection A	Inlet B	Part No.
TW117	W28.8 x 1/14"	M16 x 1.5 internal thread	C1-11673

Accessories:



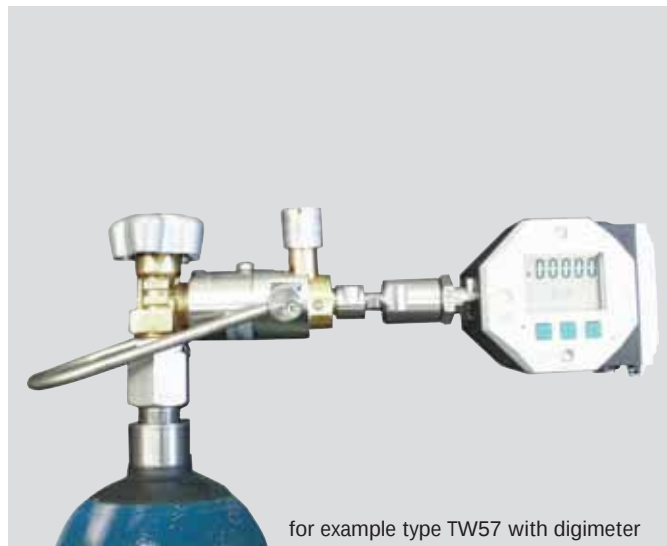
Screw plug:

Screw plugs are available on request.

WEH®-Pressure measuring unit

Pressure measuring unit for filled gas cylinders

This pressure measuring unit has been designed to speed up pressure measuring of filled gas cylinders. The WEH-Connector snaps into the cylinder valve thread and by opening the cylinder valve the pressure may be read at the pressure gauge. The WEH-Connector has an integrated venting valve to safely dissipate the pressure for rapid connector removal. The pressure measuring unit can be supplied with different connectors to suit most standard cylinder valve threads. Please contact us.



for example type TW57 with digimeter

Technical Data:

Application:

Pressure measuring of filled gas cylinders.

Thread size:

- Connections acc. to the corresponding national standard for example, DIN 477, CGA etc.
- Special connections available
- Also for residual pressure valves

Pressure range:

Dependant on connector used

Temperature range:

See page 29

Medium:

Most industrial and medical gases - please contact us!

Design:

All parts brass and corrosion-resistant stainless steel.

Sealing material:

Dependant on type of gas.

Registration:

Dependant on connector

WEH®-High pressure valve **Type TV17**

High pressure valve for filling, evacuating and mixing of gases

With the TV17 WEH have simplified the construction of gas process plants. The high pressure valves are used in gas process plants and are suitable for filling, mixing and controlling all kinds of gaseous media, e.g. air, nitrogen, argon, helium, carbon dioxide, refrigerants, oxygen, nitrous oxide, hydrogen and methane (others on request).



Different types are available:

- Stop valve
- Stop valve with automatic venting
- Stop valve with integrated check valve
- Stop valve with automatic venting and integrated check valve

Please ask for our catalogue 55 High pressure valves for gas applications type TV17 using the fax reply.



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



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

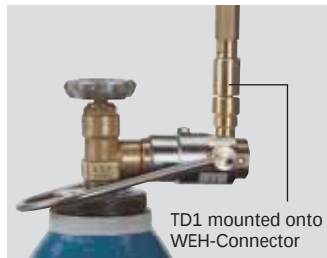
Temperature:
FKM: - 20 °C to + 120 °C,
other temperatures on request.

Information:

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



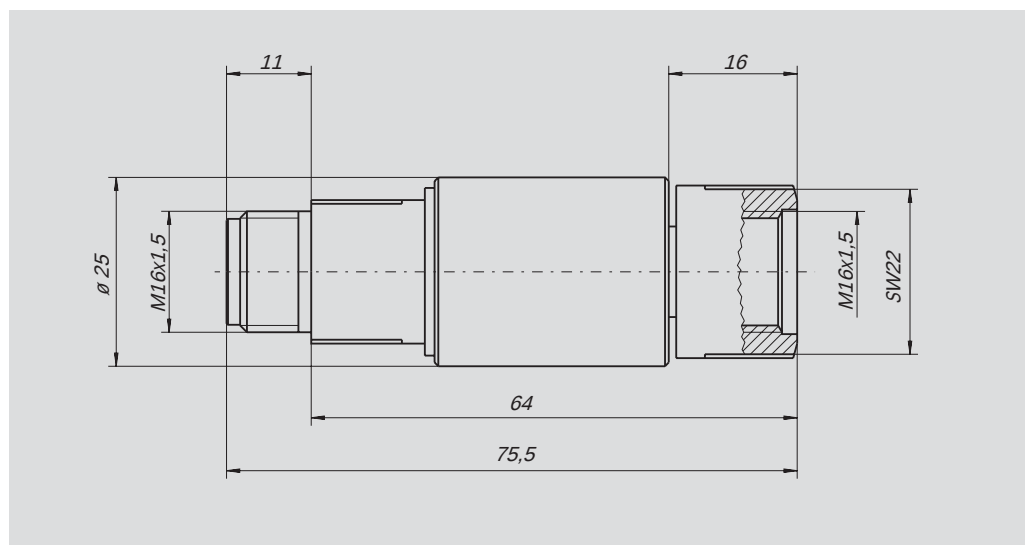
WEH®-Swivel Joint Type TD1



If a filling connector has to be turned at zero pressure into the most convenient filling position, the TD1 swivel joint is the ideal option. The WEH TD1 swivel joint is simply screwed into the thread of the connector.



Dimensions (mm):



Technical Data:

Application:
Swivel joint for gaseous media.

Thread size A, B:
M16x1.5

Design:
All parts out of brass.

Registration:
Adiabatic oxygen approval

Pressure range:

Oxygen:	Inert Gases:
PN = 320 bar	PN = 340 bar
PS = 400 bar	PS = 420 bar
PT = 600 bar	PT = 630 bar

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.

Temperature ranges:

Standard range:

+5 °C up to +80 °C

+5 °C up to +60 °C (O₂); 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).

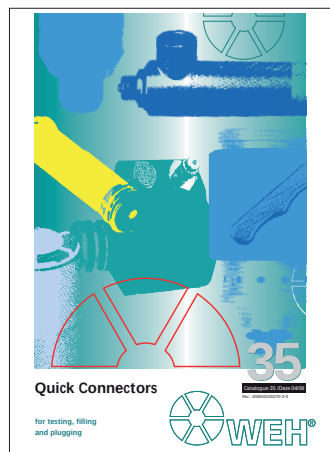
Under such extreme temperature conditions the suitability of WEH products to the application has to be checked specifically. If necessary, we can develop special solutions.

Other WEH-Product lines

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



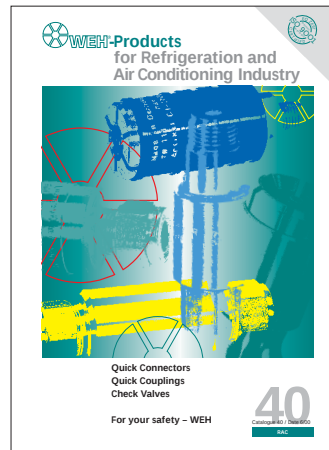
Catalogue 35:
Quick connectors for leak-testing on components with threads, tubes, etc.



Catalogue 55:
High pressure valves for gas applications type TV17



Catalogue 40:
Quick Connectors for Refrigerating and Air Conditioning Industry.



Catalogue 45:
Complete line of check valves from 3 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!

Fax reply

Catalogue 20



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Tel.: +49 7303 9609-0
Fax: +49 7303 9609-9999
E-mail: sales@weh.com
http://www.weh.com

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

+49 7303 9609-9999

Originator	_____	Position	_____
Company	_____	Department	_____
Address	_____	Phone	_____
Postcode/City	_____	Fax	_____
Country	_____	Date	_____

We are manufacturers of: _____

Yes, I want to have more details

- ☐ **Catalogue TS200/250**
Radial Filling Rigs
- ☐ **Catalogue 45**
High-Performance Check Valves TVR2
- ☐ **Catalogue 35**
Quick Connectors for testing, filling and
plugging
- ☐ **Catalogue 40**
Refrigeration and Air Conditioning
- ☐ **Catalogue 55**
High pressure valves for gas applications
- ☐ Please contact us
- ☐ Offer

Remarks _____

Please complete the following details when requesting an offer:

Type of gas / Medium _____

Pressure range _____

Vacuum _____

Cylinder valve _____
(connection dimensions;
please send drawing and sample or specify if to DIN standard)

Swivel joint ☐ Yes ☐ No

Filling hose _____
thread termination

Valve protection guard ☐ Yes ☐ No
(if yes, which one? Please send drawing and sample)