

Type **TW42**

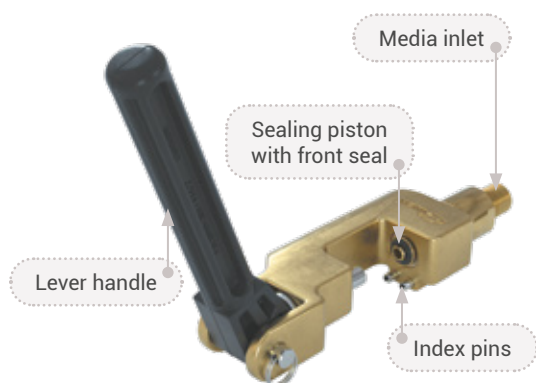
WEH[®] Quick connector for filling of gas cylinders

with Pin-Index system (with or without a residual pressure valve)



General

DESCRIPTION


Features

- For Pin-Index connections acc. to CGA 870 (others on request)
- Version for cylinder valves **with or without a residual pressure valve**
- Super light ➔ only 700 grams
- Open bow body for connection in seconds
- Pressure-assisted piston prevents accidental disconnection under pressure
- High-grade materials

The WEH® TW42 Quick connector is especially designed for filling gas cylinders with Pin-Index system (with or without a residual pressure valve). The connector is very light in weight and therefore easy to operate. Being open at one side the quick connector is easy to connect, especially to cylinder valves with large hand wheel and lateral gauge.

Simply place the connector body of the TW42 quick connector over the cylinder valve, align it with the index pins and move upwards. The pressure-tight connection is made.

The pressure-assisted piston prevents accidental disconnection under pressure and provides additional safety.

For gas cylinders with residual pressure valve the TW42 quick connector is additionally equipped with a RPV pin (see opposite picture) for opening the residual pressure valve.

This quick connector is available for gas cylinder valves acc. to CGA 870, others on request. Connectors for oxygen applications are oxygen cleaned and free of oil and grease.


Application

Quick connector for filling of gas cylinders with Pin-Index system (with or without a residual pressure valve).

TECHNICAL DATA

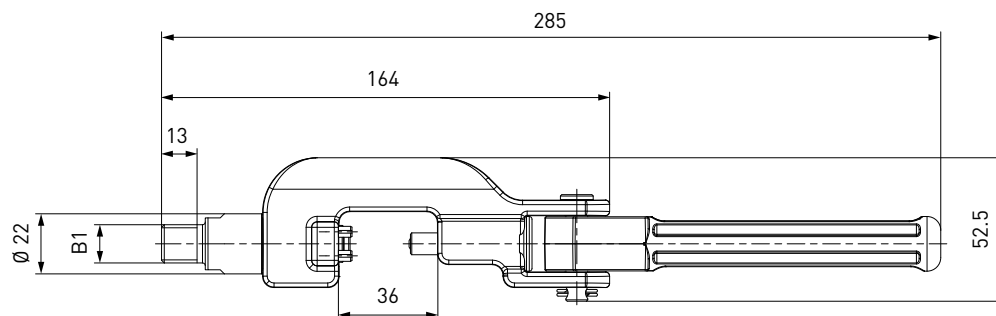
Characteristics	Basic version
Nominal bore (DN)	5 mm
Max. allowable operating pressure PS	250 bar
Temperature range	+5 °C up to +60 °C (O ₂)
Leak rate	1 x 10 ⁻³ mbar x l/s
Connection A	Pin-Index connection acc. to CGA 870 (others on request)
Medium	Medical oxygen (others on request)
Actuation	Manual actuation via lever handle
Material	Corrosion resistant stainless steel, brass
Sealing material	EPDM (others on request)
Design	With or without RPV pin
Conformity / Tests / Approvals	Type approval for suitability against adiabatic compression available

Example of use:


Ordering / Accessories

ORDERING | WEH® TW42 Quick connector

approx. dimensions (mm)



Part No.	Description	A	B1 (male thread)
C1-117833-X01	TW42	CGA 870	NPT 1/4"
C1-117834-X01*	TW42	CGA 870	NPT 1/4"

* with RPV pin

Other connection sizes and types on request.

Required information for ordering see page 7, catalog no. 20.

ACCESSORIES

The following accessories are available for the WEH® TW42 Quick connector:

WEH® TD1 Swivel joint

The WEH® TD1 prevents twisting of the filling hose and and simplifies radial alignment of the connector.



Part no.	Description	B1	B2
On request	TD1	On request	On request

WEH® THP40 Pressure hose

Pressure hose for connection of technical gas plants, such as gas filling plants, with WEH® Connectors.



Part no.	Description	B1	B2
On request	THP40	On request	On request

Adaptors

Adaptors for connecting the quick connector to the filling hose are available on request.

Monel® construction

All pressurized parts are also available in Monel®. Please contact us!

Spare parts

SPARE PARTS

Various parts are available as spares for the WEH® TW42 Quick connector.

Part No.	Description
E50-55668	O-ring

Technical explanations

TECHNICAL EXPLANATIONS

Abbreviations/Definitions

For explanation of abbreviations, definitions of terms and further explanations, see the applicable Technical Appendix of the corresponding catalog or visit www.weh.com

Illustrations

The illustrations and/or images used in these data sheet are particularly provided for illustrative purposes only and may differ in some details from the actual product. For binding information, please refer to your individual orders.

Safe product selection

Our WEH® Products are designed to be operated by qualified professional users (insofar as WEH® Products are also designed to be operated by other users in individual cases, this is explicitly stated in the corresponding operating instructions). Please note that WEH does not know your system and therefore - also due to the large number of different potential applications of WEH® Products - cannot perform tests on all potential types of application. You alone are responsible for the selection, configuration and suitability of WEH® Products, especially according to the requirements of your system. Before purchasing WEH® Products, please particularly ensure that our products are compatible with your intended use, your performance data, your material and fluids, your system concept and your system limits according to our product specifications. Please also consider your technical and legal requirements for operation, handling and maintenance. The quality and safety of WEH® Products is our highest priority. For this reason, WEH® Products may not be used outside the specifications in the relevant data sheets and product descriptions. If you are not sure whether the WEH® Product is suitable for your system and intended use, please contact us in advance. We also strongly recommend that you refrain from using third-party spare parts or a combination of WEH® Products with unsuitable third-party products. You alone are responsible for reviewing the suitability of third-party products. WEH® Products and WEH® Spare parts comply with our quality and safety standards.

Service life

WEH® Products are generally products which may be subject to wear and fatigue during operation and depending on your individual application/use. For details - in particular regarding the corresponding minimum inspection and maintenance intervals - please refer to the respective operating instructions for the WEH® Product.

Explanation on the Pressure Equipment Directive

These WEH® Products are generally classified as pressure accessories in accordance with Article 2 (5) of the Pressure Equipment Directive 2014/68/EU and are considered to be similar to piping. These WEH® Products may not be used as safety accessories. Furthermore, it is pointed out, that these WEH® Products are designed and placed on the market in accordance with the requirements of Article 4 (3) of the Pressure Equipment Directive 2014/68/EU. The assessment with regard to a different classification can, however, be made on request.

External change management

WEH reserves the right to update, optimise and adjust its products continuously. This may result in corresponding changes of the product. Customers will be informed proactively or unsolicited by WEH only in individual cases about product updates, product optimisations and/or product adaptations that have been carried out. You are free to contact WEH at any time to request information about any product updates, product optimisations and/or product adjustments.

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We do not accept any General Terms and Conditions of the purchaser.

» Contact

More questions? – Great! Don't hesitate to contact our experts.

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