

BROEN LAB

Newsletter

July 2010

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CVR 71172511

BROEN UniFlex

Bench mounted fittings for gases

BROEN UniFlex Bench mounted fittings for gases

BROEN LAB has recently introduced new water fittings from BROEN UniFlex range, which will replace BROEN BOSS and BROEN STANDARD BOSS.

Now it is time to move on and BROEN LAB launches a new range of BROEN UniFlex bench fittings for 2.0 and 4.0 technical as well as burning gases.

This range is available from the 1st of August, 2010, but can be ordered already today.

The main features of the new BROEN UniFlex range are:

- fittings are available in *Basic* and *Premium* lines, suitable for different applications and needs
- modularity within each line, which gives you maximum flexibility when choosing the right configuration
- modern design (height is 60mm)
- anti-rotational installation
- several mounting options based on M30 or G1/2"
- possibility to make installation either with flexible hoses or copper tubes without changing the inlet of the fittings
- several outlets to choose from:
 - o quick release couplings
 - o fixed hose nozzle
 - o removable hose nozzle



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BROEN UniFlex

Bench mounted fittings for gases

The following **BROEN BOSS** fittings will be replaced by BROEN UniFlex Premium range:

Inlet connection for the below mentioned new BROEN UniFlex Premium valves is M30 including a 0,7m hose with OD10mm brass pipe. For other inlet connections please refer to the scheme after the table.

BROEN BOSS item No.	Description	BROEN UniFlex Premium item No.
2.0 Technical gases / vacuum / high flow		
15022009	Bench mounted fitting with 1 valve, needle headwork	253202310xx-52B
15022929	Bench mounted fitting with 1 valve, high flow/vacuum	253202410xx-52B
15021009	Bench mounted fitting with 2 valves, 180°, needle headwork	253202710xx-52B
15021929	Bench mounted fitting with 2 valves, 180°, high flow/vacuum	253202810xx-52B
15025009	Bench mounted fitting with 2 valves, 90°, needle headwork	253203110xx-52B
15025929	Bench mounted fitting with 2 valves, 90°, high flow/vacuum	253203210xx-52B
15011009	Bench mounted fitting with 4 valves, 180°, needle headwork	253203510xx-52B
15011929	Bench mounted fitting with 4 valves, 180°, high flow/vacuum	253203610xx-52B
Burning gases		
15014909	Bench mounted fitting with 1 valve, ceramic headwork, POP-UP handle	253202610xx-52B
15013909	Bench mounted fitting with 2 valves, 180°, ceramic headwork, POP-UP handle	253203010xx-52B
15017909	Bench mounted fitting with 2 valves, 90°, ceramic headwork, POP-UP handle	253203410xx-52B
15016909	Bench mounted fitting with 4 valves, ceramic headwork, POP-UP handle	253203810xx-52B
15022949	Bench mounted fitting with 1 valve, needle headwork	253202510xx-52B
15021949	Bench mounted fitting with 2 valves, 180°, needle headwork	253202910xx-52B
15025949	Bench mounted fitting with 2 valves, 90°, needle headwork	253203310xx-52B
15011949	Bench mounted fitting with 4 valves, needle headwork	253203710xx-52B

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BROEN UniFlex

Bench mounted fittings for gases

4.0 Technical gases / Oxygen		
15055009	Bench mounted fitting with 1 valve, needle headwork	253204010xx-52B
15051009	Bench mounted fitting with 2 valves, 180°, needle headwork	253204110xx-52B
15054009	Bench mounted fitting with 2 valves, 90°, needle headwork	253204210xx-52B
15061009	Bench mounted fitting with 4 valves, needle headwork	253204410xx-52B

The following **BROEN STANDARD BOSS** fittings will be replaced by **BROEN UniFlex Basic** range:

Inlet connection for the below mentioned new BROEN UniFlex Basic valves is M30 including a 0,7m hose with OD10mm brass pipe. For other inlet connections please refer to the scheme after the table.

BROEN Std. BOSS item No.	Description	BROEN UniFlex Premium item No.
2.0 Technical gases / vacuum / high flow		
18022009	Bench mounted fitting with 1 valve, needle headwork	253200110xx-52B
18022929	Bench mounted fitting with 1 valve, high flow/vacuum	253200210xx-52B
18021009	Bench mounted fitting with 2 valves, 180°, needle headwork	253200810xx-52B
18021929	Bench mounted fitting with 2 valves, 180°, high flow/vacuum	253200910xx-52B
18025009	Bench mounted fitting with 2 valves, 90°, needle headwork	253201410xx-52B
18025929	Bench mounted fitting with 2 valves, 90°, high flow/vacuum	253201510xx-52B
18011009	Bench mounted fitting with 4 valves, 180°, needle headwork	253202010xx-52B
18011929	Bench mounted fitting with 4 valves, 180°, high flow/vacuum	253202110xx-52B
Burning gases		
18022949	Bench mounted fitting with 1 valve, needle headwork	253200510xx-52B
18021949	Bench mounted fitting with 2 valves, 180°, needle headwork	253201110xx-52B
18025949	Bench mounted fitting with 2 valves, 90°, needle headwork	253201810xx-52B
18011949	Bench mounted fitting with 4 valves, needle headwork	253202210xx-52B



BROEN UniFlex

Bench mounted fittings for gases

Ordering information

Generally, item number for new UniFlex fittings has the following structure:

2532 XXX 10 XX-XX X

BROEN UniFlex bench mounted fittings

Serial number (refer to the numbers in the table above)

*Country code
10 – International

Hose type

blank - none
B- 0,7m with OD10mm
H- 0,7m with OD15mm
D- 0,7m with G3/8" union nut
E- 0,7m with G1/2" union nut

Inlet type

14 – 60mm, G1/2"-BROEN UniFlex
52 – 60mm, M30x1

Media code

10 - Natural gas (G), POP-UP
21 - Compressed air (CA)
22 - Oxygen (O2)
23 - Nitrogen (N2)
24 - Carbon Dioxide (CO2)
25 - Argon (Ar)
26 - Helium (He)
27 - Nitrous Oxide (N2O)
28 - Vacuum (V)
31 - Natural gas (G), press/turn

* for burning gases national standards may apply therefore contact your local representative for more information.

Please note that all old type BROEN BOSS and STANDARD BOSS valves will be available as long as we have components on stock. It will still be possible to supply some fittings for ongoing projects and as spare parts for a period of time (please contact your BROEN LAB representative for more information).

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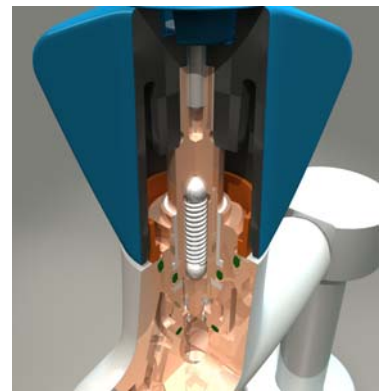
Micro flow headwork

BROEN LAB Micro flow headwork

BROEN LAB GROUP also has solutions where microscopic flow rates are required. The micro flow headwork offers excellent flow regulation characteristics especially where the flow of gas is close to zero. As all other BROEN LAB products the headwork offers excellent durability and easy operation.

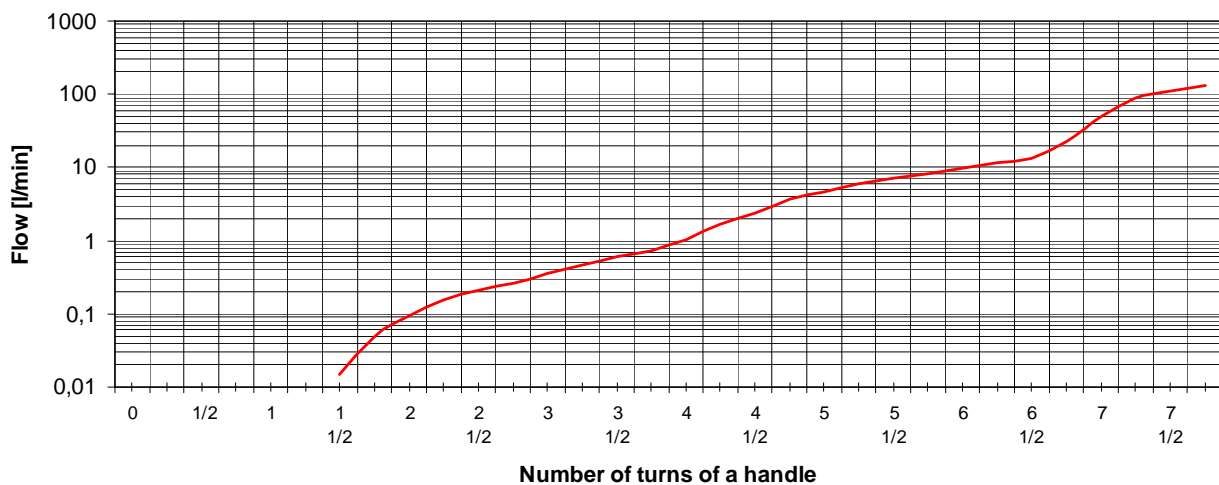
The headwork is a standard option for new BROEN UniFlex Premium fittings for 2.0 and 4.0 technical gases. On special requests it is also possible to get it for 5.0 gases.

If you want to upgrade existing 2.0 valves then you can order it separately as a spare part as it fits standard BROEN valve housing. For ordering please refer to item number 19 154.400.



Flow characteristics of a micro flow headwork

(Compressed Air at 6 bar)



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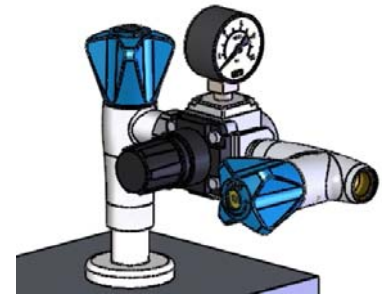
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2.0 fittings with pressure regulator

BROEN LAB 2.0 fittings with pressure regulator

BROEN LAB has optimized the construction of a pressure regulator that is available in combination with 2.0 fittings and can be used for the following technical gases:

- Compressed air (CA)
- Argon (Ar)
- Nitrogen (N₂)
- Carbon Dioxide (CO₂)



For avoidance of any doubt and possible failures, these regulators must not be applied with Vacuum, Oxygen, Hydrogen or Helium.

Due to the modified design and construction of new regulators some of the old products are taken out of production and substituted by new ones:

Old model	Description	Substitute (available in new design)
15 730.009	Pressure regulator only	15 730.009
15 731.009	Bench mounted regulator with shut-off and flow regulation valve	15 731.009
15 734.009	Wall mounted regulator with shut-off and flow regulation valve	
15 737.009	Suspended regulator with shut-off and flow regulation valve	
15 732.009	Bench mounted regulator with shut-off valve	15 732.009
15 735.009	Wall mounted regulator with shut-off valve	
15 738.009	Suspended regulator with shut-off valve	
15 736.009	Wall mounted regulator with flow regulation valve	-
15 739.009	Suspended regulator with flow regulation valve	15 733.009

The same item number can be applied to bench, wall or suspended models – just mention on the order how it should be mounted.

There is also an option for a regulator mounted in the front panel of the fume hood – F9156. Please contact your BROEN LAB representative for more information.

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