

## Gas mixer: iMixduo

### Compact gas mixer with integrated constant pressure regulators and diffusion mixing system

Gas mixer iMixduo for the production of up to two mixtures of two gases

#### Highlights

- Gas mixer iMixduo for the production of up to two predefined and pre-adjusted gas mixtures of two gases
- Integrated flowmeter for an infinitely withdrawal of 2 x 5 – 30 l/min
- Integrated coupling for parallel or alternate use
- Gas supply with two standard cylinder pressure regulators with bar scale
- Easy attachment
- Optimal factory calibration according to customer's requirement (within the permissible range)
- **High accuracy, according to ISO 14175**  
(For example M20 92/8 and M21 82/18 or I3 85/15 and 70/30)
- No accidental mixture changes
- Mixture production stops automatically when gas supply is interrupted
- **Does not depend on gas withdrawal variations**
- No additional buffer vessel needed for discontinuous withdrawal of gas
- Integrated constant pressure regulation
- Sturdy and compact design, low maintenance
- No power supply required



#### Maintenance:

Gas mixers are to be tested for leaks at least once a month.

Gas mixers are only to be opened and repaired by the manufacturer.

#### Technical Data:

<b>Carrier gas:</b>	Argon (Ar)			
<b>Additive gas:</b>	Carbon dioxide (CO <sub>2</sub> ) Helium (He) Nitrogen (N <sub>2</sub> )			
<b>Mixing range:</b>	5 – 95 Vol. %			
<b>Inlet pressure:</b>	65,3 psig fix			
<b>Mixed gas capacity:</b>	2 x 5 – 30 l/min, infinitely variable (related to Nitrogen)			
<b>Mixing precision:</b>	± 0,5 % abs: 1-5 Vol. % additive gas ± 10 % of nominal value: >5-20 Vol. % additive gas ± 2 % abs: > 20 Vol. % additive gas			
<b>Temperature:</b>	-50 to +122°F			
<b>Gas inlet:</b>	G 1/4RH-M, EN560			
<b>Gas outlet:</b>	G 1/4RH-M, EN560			
<b>Material:</b>	Housing: aluminum, anodised;		In-built parts: brass, stainless steel, Elastomer	
<b>Measure and weight:</b>	height:	width:	depth:	weight:
<b>without cylinder connection</b>	7.87 inch	9.25 inch	4.13 inch	approx. 4.85 lb

Two hoses G1/4 F/F can be used for connection to the cylinder pressure regulators (optionally available).  
Further gas mixer versions for the production of gas mixtures of two gases are available on request.

#### Certification/ Technical Standards/ Rules

TRBS German Technical rules for operation safety, DVS German Association for Welding, Cutting and Allied Processes, DGUV German Employer's liability insurance association rules and regulations.

#### Standards/ Approvals

Company certified according to ISO 9001:2015 and ISO 14001:2015,  
CE-marking according to: Pressure Equipment Directive 2014/68/EU

(Subject to change without notice)