



## Type: iMixcompact

Flow capacity in l/min related to Nitrogen:

Outlet pressure [bar] →	0,5	1	2	3	4	5	6	7	8
Inlet pressure [bar] ↓									
4	75.0	68.8	50.0	-	-	-	-	-	-
5	114.6	106.3	89.6	62.5	-	-	-	-	-
6	139.6	135.4	125.0	104.2	77.1	-	-	-	-
7	175.0	166.7	158.3	141.7	118.8	87.5	-	-	-
8	208.3	200.0	193.8	181.3	160.4	135.4	100.0	-	-
9	237.5	231.3	225.0	216.7	197.9	177.1	143.8	110.4	-
10	262.5	258.3	250.0	245.8	237.5	208.3	195.8	158.3	118.8

The following table shows the correction factors as an example for different gas mixtures.

When selecting another gas mixture, the flow capacity will be different and can be calculated by a correction factor.

### Application table:

Gas mixture		
Vol.% CO <sub>2</sub>	Vol.% Ar	Correction factor
18	82	0,8812
4	96	0,8336
25	75	0,9050
Vol.% CO <sub>2</sub>	Vol.% N <sub>2</sub>	Correction factor
30	70	1,048
5	95	1,008
80	20	1,128
Vol.% He	Vol.% Ar	Correction factor
20	80	0,866
60	40	0,958
Vol.% He	Vol.% N <sub>2</sub>	Correction factor
10	90	1,005

### Application table:

Gas mixture		
% O <sub>2</sub>	% Ar	Correction factor
4	96	0.8224
10	90	0.826
% O <sub>2</sub>	% N <sub>2</sub>	Correction factor
4	96	0.9952
25	75	0.9700
% O <sub>2</sub>	% CO <sub>2</sub>	Correction factor
50	50	1.020
85	15	0.922

### Application example:

Gas mixture setting:	
Gas mixture:	18 % CO <sub>2</sub> in Ar
Correction factor:	0,8812
Consumption:	18 l/min
Flow regulator:	18 : 0,8812 = 20 l/min

### 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)