KM 20/30/60/100-2, KM 20/30/60/100-3

KM 20-2

KM 20-3

Gas mixing systems for 2 or 3 defined gases, designed for a variety of industrial applications for example, welding applications.

Capacity range up to approx. 350 Nl/min.
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Benefits

Easy operation

- a proportional mixing valve (-2) or three single mixing valves (-3), each with a control knob and %-scale, provide infinitely variable mixture settings
- infinitely variable flow setting with scaled control knob

High process reliability

- independent of pressure fluctuations in the gas supply
- independent of withdrawal fluctuations (in permitted range)

Options

- robust stainless steel housing

Other models, options and accessories available upon request.

Please identify the individual gases at the time of enquiring!

Technical Data overleaf

KM 20/30/60/100-2, KM 20/30/60/100-3

Technical Data

Type	KM 20/30/60/100-2, KM 20/30/60/100-3	
Gases	all technical gases (excluding toxic and corrosive gases also mixtures of fuel gas with air, O_2 or N_2O)	
Mixing range	0 – 25% (KM 60/100 only) or 0 – 100% by selection of suitable mixing range the accuracy corresponds to ISO 14175	
Pressure settings	see tables	
Inlet pressure differential between the gases	max. 3 bar	
Mixture output (air)	see tables min. mixture output = 1/5 of the max. mixture output	**Note!** **Flow < 8 Nl/min not possible!**
Setting accuracy	±1% abs. (scale 0 – 25%), ±2% abs. (scale 0 – 100%)	
Mixing precision	better than ±1% abs.	
Gas connections	**KM 20/30/60** G 1/4 RH with cone, hose nipple 6 mm **KM 100** G 3/8 RH with cone, hose nipple 8 mm **For fuel gases** fuel gas connection and outlet at mixer G 3/8 LH with cone, soldering nipple for pipe OD 10 mm	
Housing	steel, powder coated	
Weight	approx. 12 kg (-2), approx. 21 kg (-3)	
Dimensions (HxWxD)	approx. 250 x 165 x 340 mm (9.84 x 6.50 x 13.39 inches) (-2 without connections) approx. 250 x 370 x 340 mm (9.84 x 14.57 x 13.39 inches) (-3 without connections)	
Approvals	Company certified according to ISO 9001 CE-marked according to: - ATEX 95 Directive 2014/34/EU	

Flow KM 20 (in Nl/min) in relation to air — **outlet pressure in barg**
Note: Reduced mixture output in case of higher outlet pressures.

min. inlet pressure in barg (max. 13 bar)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
2	8	–	–	–	–	–	–	–	–	–	–	–
3	–	10	–	–	–	–	–	–	–	–	–	–
4	–	–	13	–	–	–	–	–	–	–	–	–
5	–	–	–	17	–	–	–	–	–	–	–	–
6	–	–	–	–	20	–	–	–	–	–	–	–
7	–	–	–	–	–	24	–	–	–	–	–	–
8	–	–	–	–	–	–	27	–	–	–	–	–
9	–	–	–	–	–	–	–	30	–	–	–	–
10	–	–	–	–	–	–	–	–	34	–	–	–
11	–	–	–	–	–	–	–	–	–	37	–	–
12	–	–	–	–	–	–	–	–	–	–	40	–
13	–	–	–	–	–	–	–	–	–	–	–	44

Flow KM 30 (in Nl/min) in relation to air — **outlet pressure in barg**
Note: Reduced mixture output in case of higher outlet pressures.

min. inlet pressure in barg (max. 13 bar)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
2	13	–	–	–	–	–	–	–	–	–	–	–
3	–	21	–	–	–	–	–	–	–	–	–	–
4	–	–	29	–	–	–	–	–	–	–	–	–
5	–	–	–	36	–	–	–	–	–	–	–	–
6	–	–	–	–	44	–	–	–	–	–	–	–
7	–	–	–	–	–	51	–	–	–	–	–	–
8	–	–	–	–	–	–	59	–	–	–	–	–
9	–	–	–	–	–	–	–	66	–	–	–	–
10	–	–	–	–	–	–	–	–	73	–	–	–
11	–	–	–	–	–	–	–	–	–	81	–	–
12	–	–	–	–	–	–	–	–	–	–	88	–
13	–	–	–	–	–	–	–	–	–	–	–	95

Flow KM 60 (in Nl/min) in relation to air — **outlet pressure in barg**
Note: Reduced mixture output in case of higher outlet pressures.

min. inlet pressure in barg (max. 13 bar)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
2	24	–	–	–	–	–	–	–	–	–	–	–
3	–	39	–	–	–	–	–	–	–	–	–	–
4	–	–	53	–	–	–	–	–	–	–	–	–
5	–	–	–	68	–	–	–	–	–	–	–	–
6	–	–	–	–	82	–	–	–	–	–	–	–
7	–	–	–	–	–	96	–	–	–	–	–	–
8	–	–	–	–	–	–	109	–	–	–	–	–
9	–	–	–	–	–	–	–	123	–	–	–	–
10	–	–	–	–	–	–	–	–	137	–	–	–
11	–	–	–	–	–	–	–	–	–	151	–	–
12	–	–	–	–	–	–	–	–	–	–	165	–
13	–	–	–	–	–	–	–	–	–	–	–	179

Flow KM 100 (in Nl/min) in relation to air — **outlet pressure in barg**
Note: Reduced mixture output in case of higher outlet pressures.

min. inlet pressure in barg (max. 13 bar)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
2	47	–	–	–	–	–	–	–	–	–	–	–
3	–	77	–	–	–	–	–	–	–	–	–	–
4	–	–	105	–	–	–	–	–	–	–	–	–
5	–	–	–	133	–	–	–	–	–	–	–	–
6	–	–	–	–	160	–	–	–	–	–	–	–
7	–	–	–	–	–	188	–	–	–	–	–	–
8	–	–	–	–	–	–	215	–	–	–	–	–
9	–	–	–	–	–	–	–	242	–	–	–	–
10	–	–	–	–	–	–	–	–	269	–	–	–
11	–	–	–	–	–	–	–	–	–	296	–	–
12	–	–	–	–	–	–	–	–	–	–	323	–
13	–	–	–	–	–	–	–	–	–	–	–	350