

КМ-...G, КМ-...А, WK, WP, WT

Редукторы-ограничители расхода

GHM MESSTECHNIK



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Flow limiter KM-...A

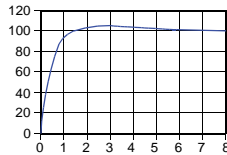


- Male thread
- Metal construction
- Installation location as desired
- No need for auxiliary power

Characteristics

The constant flow is created by two crossways stainless steel spring plates which close or open an annular gap located behind them to a greater or lesser degree, according to the flow value. The controlled value results from the addition of the individual control inputs.

Flow value%
of controlled value

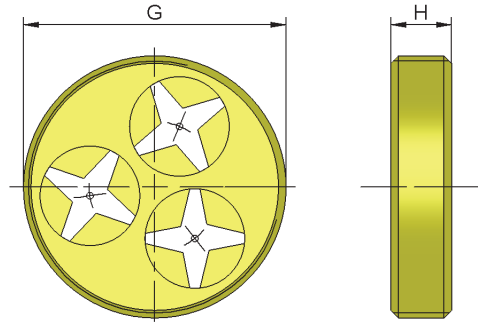


Technical data

Nominal width	DN 32..80		
Process connection	male thread G ³ / ₄ A..G 3 A		
Controlled values	Connection	Controlled value	Control inputs
	G ³ / ₄ A	1.. 30 l/min	1
	G 1 ¹ / ₂ A	2.. 90 l/min	2..3
	G 2 A	3..120 l/min	3..4
	G 2 ¹ / ₂ A	5..150 l/min	5
	G 3 A	6..210 l/min	6..7
	Example: The controlled value of 55 l/min is achieved using a limiter with two control inputs of 30 l/min + 25 l/min.		
Control inputs	individual controlled values for the control inputs		
	1 l/min	6 l/min	16 l/min
	2 l/min	8 l/min	20 l/min
	3 l/min	10 l/min	25 l/min
	4 l/min	12 l/min	30 l/min
Tolerance	to 2 l/min: ±15 % of nominal value from 3 l/min: ±10 % of nominal value		
Differential pressure	2..10 bar		
Media temperature	0..200 °C		
Ambient temperature	0..200 °C		

Medium	water	
Materials medium-contact	<i>Brass construction:</i> CW614N nickelled, 1.4310, 1.4301; 1.4121	<i>Stainless steel construction:</i> 1.4571, 1.4310, 1.4301; 1.4121
Weight	see table "Dimensions and weights"	
Installation location	as desired	

Dimensions and weights



G	Nominal width	Type	H	Control inputs	Weight kg
G ³ / ₄ A	DN 20	KM-020A.	12	1	0.04
G 1 ¹ / ₂ A	DN 40	KM-040A.	12	2..3	0.11
G 2 A	DN 50	KM-050A.	15	3..4	0.20
G 2 ¹ / ₂ A	DN 65	KM-065A.	15	5	0.30
G 3 A	DN 80	KM-080A.	15	6..7	0.38

Ordering code

1. 2. 3. 4.
KM - A

1. Nominal width	
020	DN 20 - G ³ / ₄ A
040	DN 40 - G 1 ¹ / ₂ A
050	DN 50 - G 2 A
065	DN 65 - G 2 ¹ / ₂ A
080	DN 80 - G 3 A
2. Process connection	
A	male thread
3. Connection material	
M	brass
K	stainless steel
4. Controlled value H ₂ O	
001	001..030 l/min
	002..090 l/min
	003..120 l/min
	005..150 l/min
..	
210	006..210 l/min

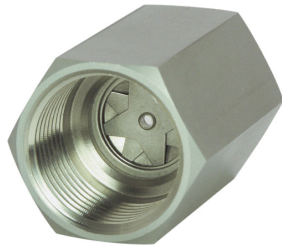
Options

- Special values

Ordering information

- Specify direction of flow, medium, and controlled value.
- For viscous media specify viscosity, temperature, and medium (e.g. ISO VG 10) (enquire about controlled value).

Flow limiter KM-...G

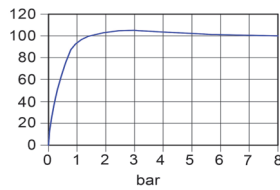


- Metal construction
- Installation location as desired
- No need for auxiliary power

Characteristics

The constant flow is created by two crossways stainless steel spring plates which close or open an annular gap located behind them to a greater or lesser degree, according to the flow value.

Flow value%
of controlled value



Technical data

Nominal width	DN 15..20			
Process connection	female thread G 1/2..G 3/4			
Controlled values Tolerance	Controlled value	G 1/2	G 3/4	Tolerance
	1 l/min	●		±0.2 l/min
	2 l/min	●		±0.2 l/min
	3 l/min	●		±0.4 l/min
	4 l/min	●	●	±0.4 l/min
	6 l/min	●	●	±0.5 l/min
	8 l/min	●	●	±0.5 l/min
	10 l/min	●	●	±0.7 l/min
	12 l/min	●	●	±0.7 l/min
	16 l/min	●	●	±1.2 l/min
	20 l/min		●	±1.2 l/min
	25 l/min		●	±1.5 l/min
30 l/min		●	±1.5 l/min	
Differential pressure	1.5..10 bar			
Pressure resistance	PS 200 bar			
Media temperature	0..300 °C			
Ambient temperature	0..300 °C			
Medium	water, viscous media up to 30 mm ² /s			
Materials medium-contact	<i>Brass construction:</i>		<i>Stainless steel construction:</i>	
	CW614N nickelled, 1.4310, 1.4122		1.4301, 1.4310, 1.4122	
Weight	see table "Dimensions and weights"			
Installation location	as desired			

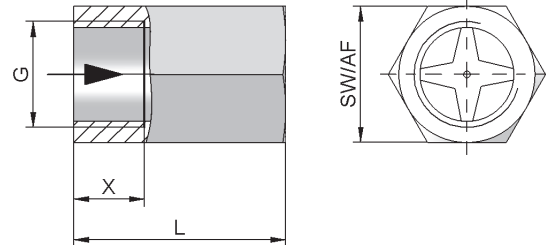
HONSBERG

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KM-020..080GM / K

Dimensions and weights

G	Nominal width	Type	L	SW	X	Weight kg
G 1/2	DN 15	KM-015G.	40	27	14	0.13
G 3/4	DN 20	KM-020G.	50	36	16	0.30



Ordering code

KM - 1. 2. 3. 4. G

For combination option, see table "Technical data"

1. Nominal width		
015	DN 15 - G 1/2	
020	DN 20 - G 3/4	
2. Process connection		
G	female thread	
3. Connection material		
M	brass	
K	stainless steel	
4. Controlled value H ₂ O		
001	1 l/min	●
002	2 l/min	●
003	3 l/min	●
004	4 l/min	● ●
006	6 l/min	● ●
008	8 l/min	● ●
010	10 l/min	● ●
012	12 l/min	● ●
016	16 l/min	● ●
020	20 l/min	●
025	25 l/min	●
030	30 l/min	●

Options

- Inlet side, female thread / outlet side male thread
- Special values
- Selection
- Bypass

Ordering information

- Specify direction of flow, medium, and controlled value.
- For viscous media specify viscosity, temperature, and medium (e.g. ISO VG 10) (enquire about controlled value).

Flow limiter WK

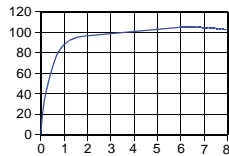


- Installation location as desired
- No need for auxiliary power

Characteristics

Mechanical flow limiter for fluid media. If the volume flow is tending to increase, an elastomer is compressed. This achieves an almost constant flow value.

Flow value%
of controlled value

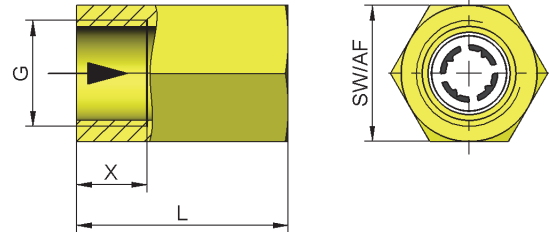


Technical data

Nominal width	DN 15..25	
Connection type	internal thread G 1/2..G 1	
Controlled values	1 l/min	5 l/min 10 l/min
	2 l/min	6 l/min 12 l/min
	3 l/min	8 l/min 15 l/min
Differential pressure	2..10 bar	
Tolerance	±15 % (3,0 l/min ±20 %, 2,0 l/min ±30 %, 1,0 l/min ±50 %)	
Pressure resistance	PN 100 bar	
Media temperature	0..65 °C	
Ambient temperature	0..65 °C	
Medium	water	
Materials media-contact	<i>Brass construction:</i> CW614N, POM, NBR, 1.4571	<i>Stainless steel construction:</i> 1.4305, POM, NBR, 1.4571
Weight	see table "Dimensions and weights"	
Installation location	as desired	

Dimensions and weights

G	Nominal width	Type	L	SW	X	Weight kg
G 1/2	DN 15	WK-015G.	40	30	12	0.18
G 3/4	DN 20	WK-020G.	40	36	12	0.18
G 1	DN 25	WK-025G.	60	46	20	0.70



Ordering code

1. 2. 3. 4.
WK -

1. Nominal width	
015	DN 15 - G 1/2
020	DN 20 - G 3/4
025	DN 25 - G 1
2. Process connection	
G	female thread
3. Connection material	
M	brass
K	stainless steel
4. Controlled value H₂O	
001	1 l/min
002	2 l/min
003	3 l/min
005	5 l/min
006	6 l/min
008	8 l/min
010	10 l/min
012	12 l/min
015	15 l/min

Options

- Inlet side, internal thread / outlet side external thread
- Special values
- Selection
- Bypass

Ordering information

- Specify direction of flow, medium, and controlled value

Flow limiter WP

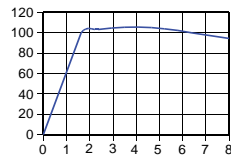


- Installation location as desired
- No need for auxiliary power

Characteristics

Mechanical flow limiter for fluid media. If the volume flow is tending to increase, an elastomer is compressed. This achieves an almost constant flow value.

Flow value%
of controlled value

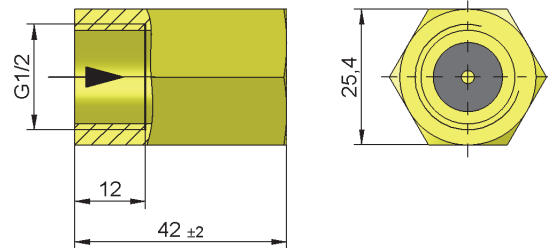


Technical data

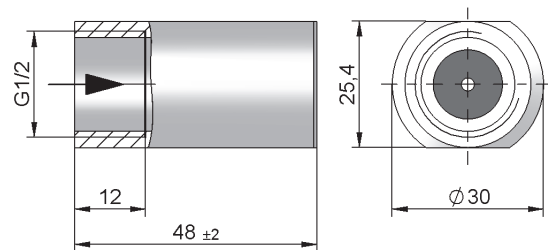
Nominal width	DN 15															
Process connection	female thread G 1/2															
Controlled values	<table border="1"> <tr> <td>0.5 l/min</td> <td>4.0 l/min</td> <td>12.0 l/min</td> </tr> <tr> <td>1.0 l/min</td> <td>5.0 l/min</td> <td>15.0 l/min</td> </tr> <tr> <td>1.5 l/min</td> <td>7.0 l/min</td> <td>18.0 l/min</td> </tr> <tr> <td>2.0 l/min</td> <td>8.0 l/min</td> <td>20.0 l/min</td> </tr> <tr> <td>3.2 l/min</td> <td>10.0 l/min</td> <td></td> </tr> </table>	0.5 l/min	4.0 l/min	12.0 l/min	1.0 l/min	5.0 l/min	15.0 l/min	1.5 l/min	7.0 l/min	18.0 l/min	2.0 l/min	8.0 l/min	20.0 l/min	3.2 l/min	10.0 l/min	
0.5 l/min	4.0 l/min	12.0 l/min														
1.0 l/min	5.0 l/min	15.0 l/min														
1.5 l/min	7.0 l/min	18.0 l/min														
2.0 l/min	8.0 l/min	20.0 l/min														
3.2 l/min	10.0 l/min															
Differential pressure	1..10 bar															
Tolerance	±10 %															
Pressure resistance	PN 16 bar															
Media temperature	0..+70 °C															
Ambient temperature	0..+70 °C															
Medium	water															
Materials medium-contact	CW614N, NBR															
Weight	0.2 kg															
Installation location	as desired															

Dimensions

Brass



Stainless steel



Ordering code

1. 2. 3. 4.
WP - 015 G

= Special option

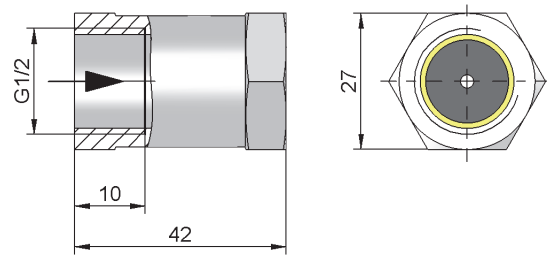
1. Nominal width	015	DN 15 - G 1/2
2. Process connection	G	female thread
3. Connection material	M	brass
	K	<input type="checkbox"/> stainless steel
4. Controlled value H₂O	005	0.5 l/min
	010	1.0 l/min
	015	1.5 l/min
	020	2.0 l/min
	032	3.2 l/min
	040	4.0 l/min
	050	5.0 l/min
	070	7.0 l/min
	080	8.0 l/min
	100	10.0 l/min
	120	12.0 l/min
	150	15.0 l/min

Ordering information

- Specify direction of flow, medium, and controlled value

Flow limiter WT

Dimensions

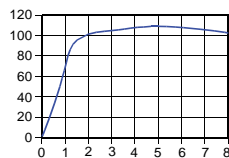


- Installation location as desired
- No need for auxiliary power

Characteristics

Mechanical flow limiter for fluid media. If the volume flow is tending to increase, an elastomer is compressed. This achieves an almost constant flow value.

Flow value%
of controlled value



Ordering code

WT -

1.	Nominal width	
	015	DN 15 - G 1/2
2.	Process connection	
	G	female thread
3.	Connection material	
	M	brass
4.	Controlled value H ₂ O	
	050	5.0 l/min H ₂ O
	075	7.5 l/min H ₂ O
	135	13.5 l/min H ₂ O

Ordering information

- Specify direction of flow, medium, and controlled value.

Technical data

Nominal width	DN 15
Process connection	female thread G 1/2
Controlled values	5.0 l/min 7.5 l/min 13.5 l/min
Differential pressure	1.5..8 bar
Tolerance	±15 %
Pressure resistance	PN 100 bar
Media temperature	0..100 °C
Ambient temperature	0..70 °C
Medium	water
Materials medium-contact	CW614N nickelled NBR
Weight	0.2 kg
Installation location	as desired

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