

Blow Gun VMG Series

RoHS



How to Order

VMG 1 1 W - 02 - 32 - C

Piping entry

1	Bottom
2	Top

Body color

W	White
BU	Dark blue

Connection size

Symbol	Piping connection method	Size and model no.	
02	Threaded	Thread size	Rc1/4
03			Rc3/8
N02			NPT1/4
N03			NPT3/8
F02			G1/4
F03			G3/8
11	S coupler plug*1	Model no. of coupler used	KK4P-02MS
12			KK130P-02MS
H06	Metric size One-touch fitting*2	Model no. of fitting used	KQ2H06-02AS
H08			KQ2H08-02AS
H10			KQ2H10-02AS
H07	Inch size One-touch fitting*3	Model no. of fitting used	KQ2H07-35AS
H09			KQ2H09-35AS
H11			KQ2H11-35AS

- *1 Port size is Rc1/4 if using the S coupler plug.
 *2 The blow gun port size is Rc1/4 if using the metric size One-touch fitting.
 *3 The blow gun port size is NPT1/4 if using the inch size One-touch fitting.
 * S coupler and fitting are included in the same package.

With nozzle cover (Only for male thread nozzle, ø6 extension nozzle)

Nil	None
C	With nozzle cover/HNBR
CF	With nozzle cover/Fluororubber

Nozzle

Symbol	Type	Nozzle size	Nozzle part no.
Nil	Without nozzle		
01	Male thread nozzle	ø1	KN-R02-100
02		ø1.5	KN-R02-150
03		ø2	KN-R02-200
04		ø2.5	KN-R02-250
05		ø3	VMG1-R02-300
06		ø3.5	VMG1-R02-350
07		ø4	VMG1-R02-400
11	High efficiency nozzle*1, *2	ø1	KNH-R02-100
12		ø1.5	KNH-R02-150
13		ø2	KNH-R02-200
21	Low noise nozzle with male thread*2	ø0.75 x 4	KNS-R02-075-4
22		ø0.9 x 8	KNS-R02-090-8
23		ø1 x 4	KNS-R02-100-4
24		ø1.1 x 8	KNS-R02-110-8
25	Nozzle with flow rate adjustment function	—	KNC-R02-200

- *1 Compliant with OSHA 1910.242B when the operating pressure is 72.5 psi (0.5 MPa) or less
 Even when a nozzle other than the high-efficiency nozzle is used, OSHA 1910.242B compliance is possible so long as the operating pressure is limited to 30 psi (0.2 MPa) or less. However, be aware that the impact effect may change due to the limited pressure. (Refer to page 12.)
 *2 Compliant with OSHA 1910.95 (Excludes the high-efficiency nozzle size ø2) (Refer to page 12.)



Made to Order (⇒p. 7)

Symbol	Specifications
-X54	With flow rate adjustment function

Specifications

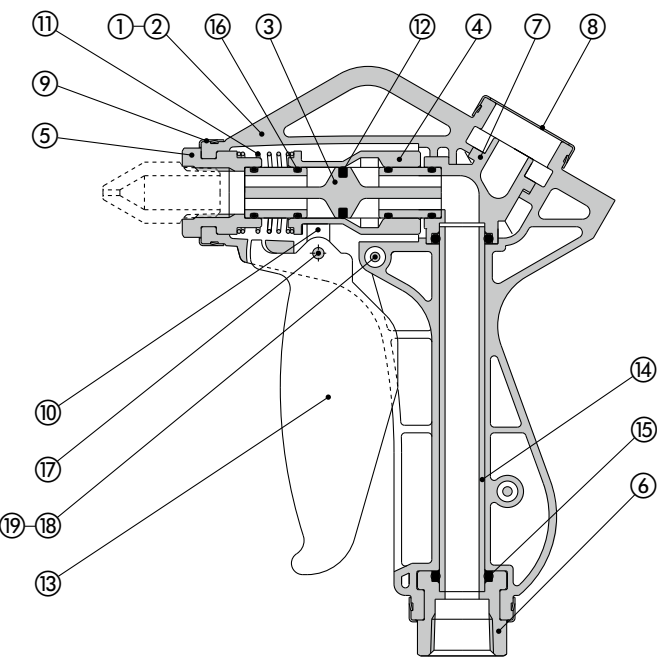
Fluid	Air	
Operating pressure range	0 to 1.0 MPa	
Proof pressure	1.5 MPa	
Ambient and fluid temperatures	-5 to 60°C (No freezing)	
Flow rate characteristics (With nozzle removed)	C (dm³/s·bar): 6.0, b: 0.25 (Effective area: 30 mm²)	
Port size	Rc, NPT, G 1/4, 3/8	
Piping entry	Bottom	Top
Nozzle port size	Rc1/4	
Weight (Main unit only)	165 g	
Operational force (when the valve is fully open)	7 N	

Extension nozzle*3

Symbol	Type	Nozzle length	Nozzle size	Nozzle part no.
31	ø6 copper extension nozzle	300 mm	ø1.5	VMG1-06-150-300
32			ø2	VMG1-06-200-300
33		600 mm	ø1.5	VMG1-06-150-600
34			ø2	VMG1-06-200-600
35		100 mm	ø1.5	VMG1-06-150-100
36			ø2	VMG1-06-200-100
37	ø8 copper extension nozzle	150 mm	ø1.5	VMG1-06-150-150
38			ø2	VMG1-06-200-150
41		100 mm	ø2.5	VMG1-08-250-100
42			ø3	VMG1-08-300-100
43			ø3.5	VMG1-08-350-100
44		150 mm	ø2.5	VMG1-08-250-150
45			ø3	VMG1-08-300-150
46			ø3.5	VMG1-08-350-150
47		300 mm	ø2.5	VMG1-08-250-300
48			ø3	VMG1-08-300-300
49			ø3.5	VMG1-08-350-300
50		600 mm	ø2.5	VMG1-08-250-600
51			ø3	VMG1-08-300-600
52			ø3.5	VMG1-08-350-600

- *3 Part number for set of extension nozzle and fitting. Extension nozzle and fitting are included in the same package.
 Refer to "How to attach extension nozzle" in the operation manual for assembly procedures.

Construction



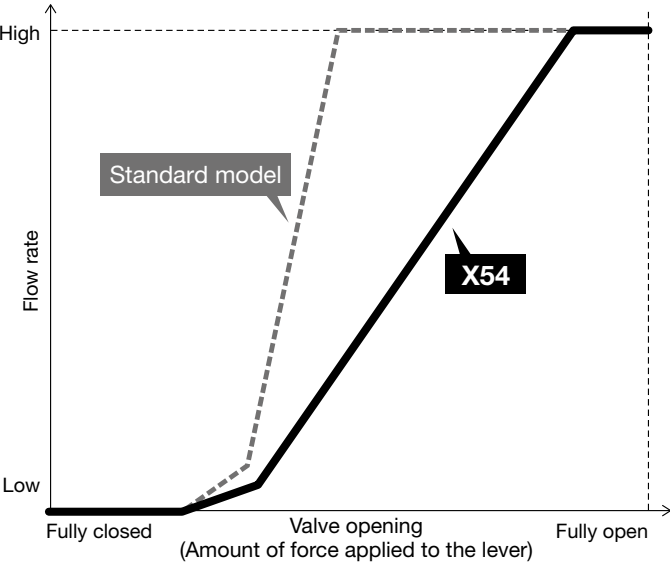
Component Parts

No.	Description	Material	Note
1	Body L	PBT	
2	Body R	PBT	
3	Main valve	PBT	
4	Valve guide	POM	
5	Nozzle holder	Aluminium alloy	Anodized
6	Port	Aluminium alloy	Anodized
7	Elbow	PBT	Only for the VMG12□
8	Cover	Stainless steel	
9	Ring	Stainless steel	
10	Arm	PBT	
11	Spring	Stainless steel	
12	Main valve seal	HNBR	
13	Lever	PBT	
14	Piping (bottom)	POM	Only for the VMG11□ Combined with the elbow ⑦.
15	O-ring	NBR	
16	O-ring	NBR	
17	Parallel pin	Stainless steel	
18	Cross recessed round head screw	Stainless steel	
19	Hexagon nut	Stainless steel	

* Grease is used on rubber and sliding sections.

Made to Order: With Flow Rate Adjustment Function -X54

The flow rate can be easily adjusted according to the amount of force applied to the lever.



How to Order

VMG11

C

 -X54

• With flow rate adjustment function

• With nozzle cover (Only for male thread nozzle, ø6 extension nozzle)

Nil	None
C	With nozzle cover/HNBR
CF	With nozzle cover/Fluororubber

Specifications

Flow rate characteristics (With nozzle removed)	C (dm³/s·bar): 3.3 *1 (Effective area: 16.5 mm²)
Piping entry	Bottom
Operational force (when the valve is fully open)	9 N *2

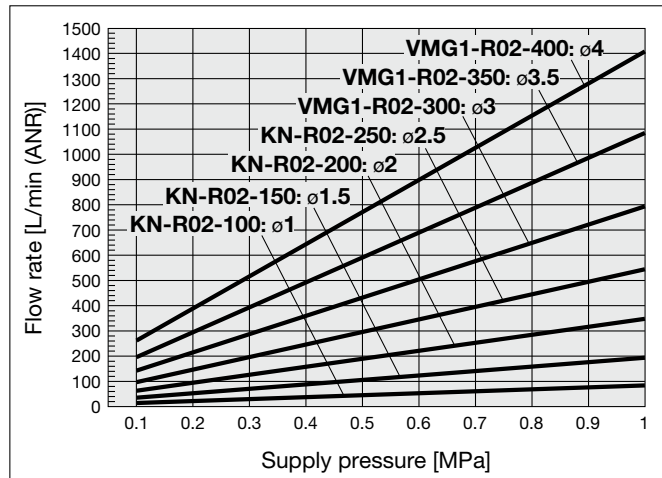
*1 Though the value is smaller than that of the standard model, the flow rate characteristics when a nozzle is mounted are the same as those of the standard model.

*2 The operational force is higher than that of the standard model for ease of flow adjustment with the lever.

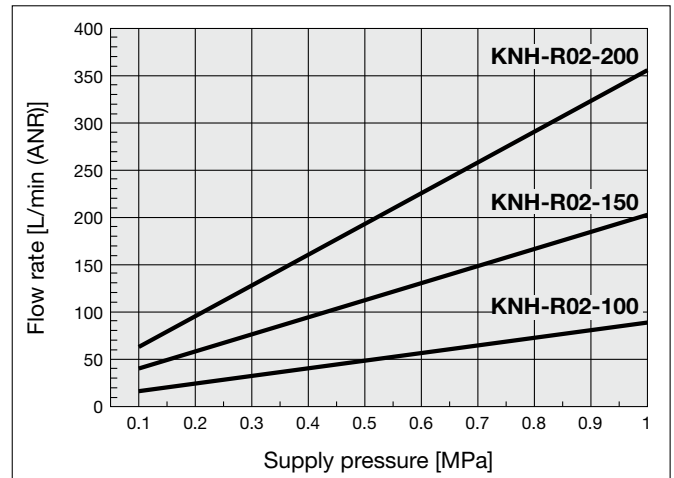
Flow Rate Characteristics

* Values when the main valve is fully open

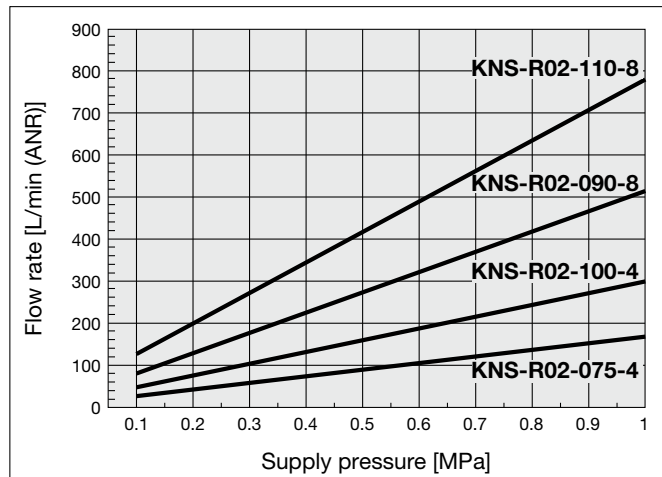
Male thread nozzle



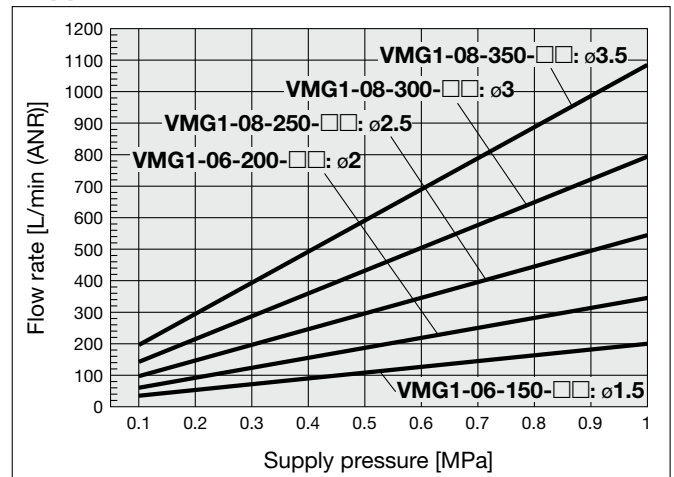
High efficiency nozzle



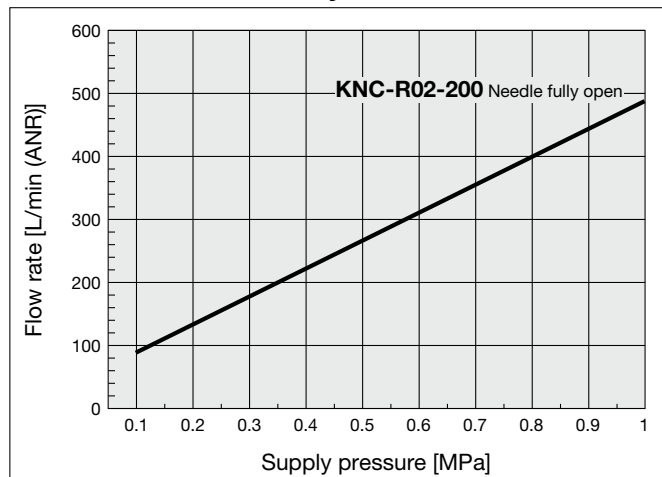
Low noise nozzle with male thread



Copper extension nozzle



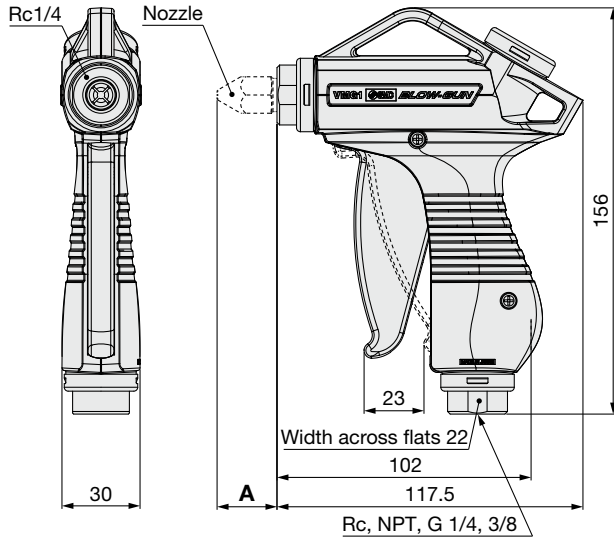
Nozzle with flow rate adjustment function



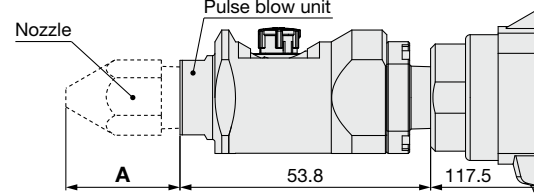
VMG Series

Dimensions

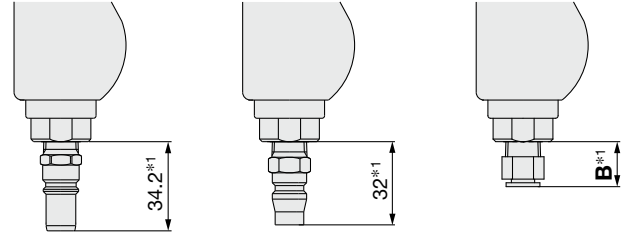
VMG11/Piping entry: Bottom



VMG1□-P/With pulse blow unit



* The pulse blow unit dimensions are reference dimensions after installation.
Refer to page 6 for applicable nozzles.

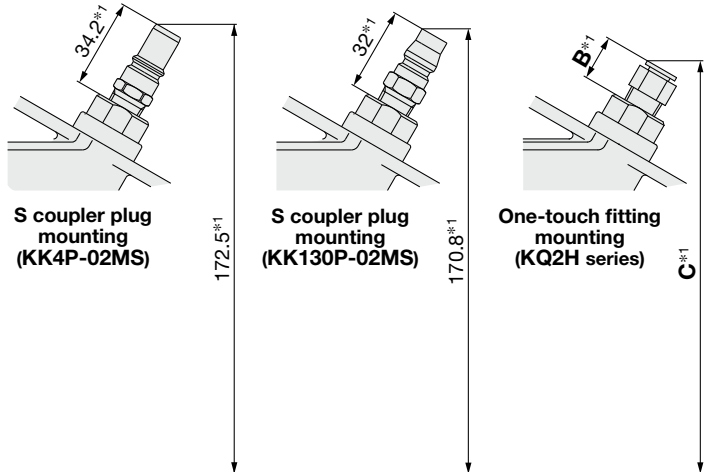
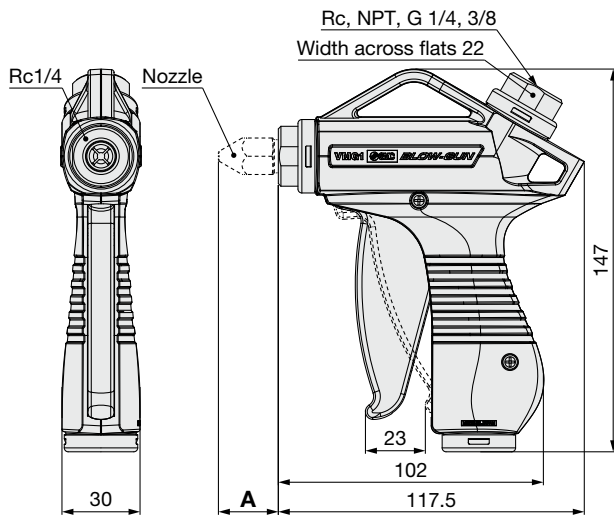


S coupler plug
mounting
(KK4P-02MS)

S coupler plug
mounting
(KK130P-02MS)

One-touch fitting
mounting
(KQ2H series)

VMG12/Piping entry: Top



S coupler plug
mounting
(KK4P-02MS)

S coupler plug
mounting
(KK130P-02MS)

One-touch fitting
mounting
(KQ2H series)

*1 Reference dimensions after installation

Symbol	Type	Nozzle part no.	Nozzle size	A*2
01	Male thread nozzle	KN-R02-100	ø1	23.4
02		KN-R02-150	ø1.5	23
03		KN-R02-200	ø2	22.5
04		KN-R02-250	ø2.5	22.1
05		VMG1-R02-300	ø3	22
06		VMG1-R02-350	ø3.5	21.5
07		VMG1-R02-400	ø4	
11	High efficiency nozzle	KNH-R02-100	ø1	44
12		KNH-R02-150	ø1.5	
13		KNH-R02-200	ø2	
21	Low noise nozzle with male thread	KNS-R02-075-4	ø0.75 x 4	12
22		KNS-R02-090-8	ø0.9 x 8	
23		KNS-R02-100-4	ø1 x 4	
24		KNS-R02-110-8	ø1.1 x 8	
25	Nozzle with flow rate adjustment function	KNC-R02-200	—	
31	ø6 copper extension nozzle*2	Nozzle length: VMG1-06-150-300	ø1.5	298
32		Nozzle length: VMG1-06-200-300	ø2	
33		Nozzle length: VMG1-06-150-600	ø1.5	598
34		Nozzle length: VMG1-06-200-600	ø2	
35		Nozzle length: VMG1-06-150-100	ø1.5	98
36		Nozzle length: VMG1-06-200-100	ø2	
37	Nozzle length: 150 mm	VMG1-06-150-150	ø1.5	148
38		VMG1-06-200-150	ø2	

*2 Reference dimensions after installation

Symbol	Type	Nozzle part no.	Nozzle size	A*2
41	Nozzle length: 100 mm	VMG1-08-250-100	ø2.5	98
42		VMG1-08-300-100	ø3	
43		VMG1-08-350-100	ø3.5	
44	Nozzle length: 150 mm	VMG1-08-250-150	ø2.5	148
45		VMG1-08-300-150	ø3	
46		VMG1-08-350-150	ø3.5	
47	Nozzle length: 300 mm	VMG1-08-250-300	ø2.5	298
48		VMG1-08-300-300	ø3	
49		VMG1-08-350-300	ø3.5	
50	Nozzle length: 600 mm	VMG1-08-250-600	ø2.5	598
51		VMG1-08-300-600	ø3	
52		VMG1-08-350-600	ø3.5	

Type	One-touch fitting model	B*3	C*3
Metric size One-touch fitting	KQ2H06-02AS	12	153.2
	KQ2H08-02AS	17.3	158.6
	KQ2H10-02AS	22.6	163.8
Inch size One-touch fitting	KQ2H07-35AS	12.3	153.2
	KQ2H09-35AS	17.7	158.9
	KQ2H11-35AS	20.7	162

*3 Reference dimensions after installation

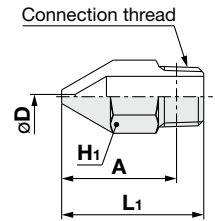
Dimensions: Nozzles

Male thread nozzle: KN

[mm]



Part no.	Nozzle size D	Connection thread	Width across flats H₁	L₁	A*₁
KN-R02-100	ø1	R1/4	14	31.4	25.4
KN-R02-150	ø1.5			31	25
KN-R02-200	ø2			30.5	24.5
KN-R02-250	ø2.5			30.1	24.1
VMG1-R02-300	ø3			30	24
VMG1-R02-350	ø3.5			29.5	23.5
VMG1-R02-400	ø4			29.5	23.5



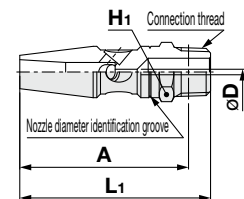
*1 Reference dimensions after R thread installation

High efficiency nozzle: KNH (Compliant with OSHA Standards: Operating pressure at 0.5 MPa or less.)

[mm]



Part no.	Nozzle size D	Connection thread	Width across flats H₁	L₁	A*₂	Nozzle diameter identification groove
KNH-R02-100	ø1	R1/4	14	52	46	—
KNH-R02-150	ø1.5					1 pc.
KNH-R02-200	ø2					2 pcs.



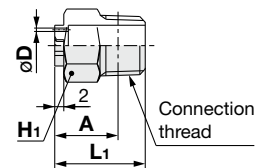
*2 Reference dimensions after R thread installation

Low noise nozzle with male thread: KNS

[mm]



Part no.	Nozzle size D	Connection thread	Width across flats H₁	L₁	A*₃
KNS-R02-075-4	ø0.75 x 4	R1/4	14	20	14
KNS-R02-090-8	ø0.9 x 8				
KNS-R02-100-4	ø1 x 4				
KNS-R02-110-8	ø1.1 x 8				



*3 Reference dimensions after R thread installation

Copper extension nozzle set

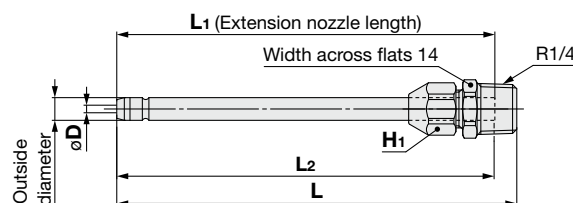
[mm]



Part no.	Nozzle size D	Outside diameter	L₁	L₂*₄	L*₄	Width across flats H₁
VMG1-06-150-100	ø1.5	ø6	100	100	106	12
VMG1-06-200-100	ø2		150	150	156	
VMG1-06-150-150	ø1.5		300	300	306	
VMG1-06-200-150	ø2		600	600	606	
VMG1-06-150-300	ø1.5		100	100	106	
VMG1-06-200-300	ø2		150	150	156	
VMG1-06-150-600	ø1.5	ø8	300	300	306	14
VMG1-06-200-600	ø2		600	600	606	
VMG1-08-250-100	ø2.5		100	100	106	
VMG1-08-300-100	ø3		150	150	156	
VMG1-08-350-100	ø3.5		300	300	306	
VMG1-08-250-150	ø2.5		600	600	606	
VMG1-08-300-150	ø3		100	100	106	
VMG1-08-350-150	ø3.5		150	150	156	
VMG1-08-250-300	ø2.5	ø3	300	300	306	14
VMG1-08-300-300	ø3		600	600	606	
VMG1-08-350-300	ø3.5		100	100	106	
VMG1-08-250-600	ø2.5		150	150	156	
VMG1-08-300-600	ø3	ø3.5	300	300	306	14
VMG1-08-350-600	ø3.5		600	600	606	

*4 Reference dimensions after installation

* Copper extension nozzle and self-align fitting are included in the same package, (but unassembled).
Refer to "How to attach extension nozzle" in the operation manual for assembly procedures.



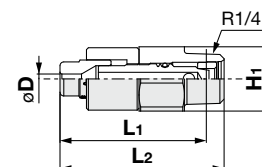
Dimensions

Nozzle with flow rate adjustment function/KNC

[mm]



Model	Nozzle dia. øD	Width across flats H ₁	L ₁	L ₂	Weight [g]
KNC-R02-200	ø2.6	17	38.7 (Max. 41.2)	43.4 (Max. 45.9)	42.4



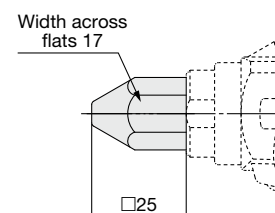
* Please refer to the operation manual for the specific product precautions.

Cover for male thread nozzle

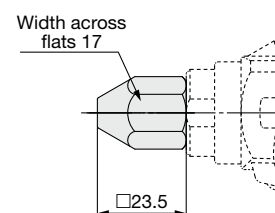
[mm]



Nozzle cover part no.	Material	Applicable blow gun model	
		Model	Nozzle type
P5670129-01	HNBR	VMG1□□-□-01 to 04	Male thread nozzle ø1 to ø2.5
P5670129-01F	Fluororubber		
P5670129-02	HNBR	VMG1□□-□-05 to 07	Male thread nozzle ø3 to ø4
P5670129-02F	Fluororubber		



VMG1□□-□-01 to 04



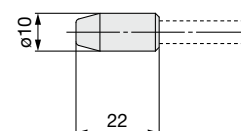
VMG1□□-□-05 to 07

Cover for copper extension nozzle

[mm]



Nozzle cover part no.	Material	Applicable blow gun model	
		Model	Nozzle type
P5670129-11	HNBR	VMG1□□-□-31 to 38	ø6 copper extension nozzle
P5670129-11F	Fluororubber		



VMG1□□-□-31 to 38

Compliant with OSHA Standards

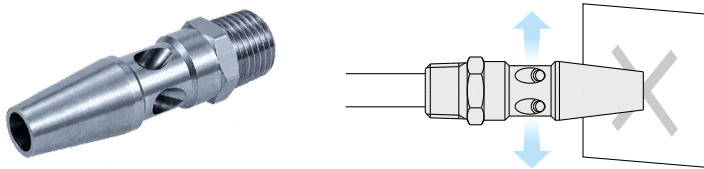
1910.242B

Safety standard when using compressed air for cleaning

For OSHA 1910.242B compliance, the operating pressure must not exceed 72.5 psi (0.5 MPa).

The structure prevents closing of the discharge port. This is a safety design that limits the pressure to 30 psi even when an operator is touching the nozzle. (Operating pressure: 0.5 MPa or less)

High efficiency nozzle KNH Series



Even when a nozzle other than a KNH series nozzle is used, compliance is possible so long as the operating pressure is limited to 30 psi (0.21 MPa) or less.

However, be sure to take into consideration that the blow impact/blow pattern may change due to the limited operating pressure.

1910.95

For the hearing protection of operators, there is a set daily permissible exposure limit for noise (based on working hours).

The limit only applies when the noise level exceeds 90 dB (A).

For OSHA 1910.95 compliance, the operating pressure must not exceed 72.5 psi (0.5 MPa).

For further details on the permissible exposure limit, refer to OSHA standard 1910.95.

For the noise level of each nozzle, refer to the nozzles for blowing catalog.

Blow nozzle
KN Series



Scan or click
here for
details.

Low noise nozzle KNS Series



ø1 x 4 low noise nozzles 80 dB or less
Operating pressure: 0.5 MPa, Measured at a 45
degree angle according to JIS B 8379

High efficiency nozzle KNH Series



Excludes nozzle size ø2