

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

Metering Valve with Silencer
ASN2 Series

RoHS

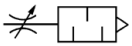
Superior sound reducing performance
Over 20 dB at max. flow rate

Cylinder speed easily set
Shape of needle is the same as that of speed controller

Retainer prevents accidental loss of needle



Symbol



<Example of mounting>



Model

Model	Port size	Sonic conductance dm³/(s·bar)	Critical pressure ratio	Weight (g)
ASN2-M5	M5 x 0.8	0.36	0.15	5
ASN2-U10/32	10-32 UNF	0.36		5
ASN2-01	1/8	0.72	0.35	17
ASN2-02	1/4	1.3		34
ASN2-03	3/8	3.32		55
ASN2-04	1/2	4.9		107

Specifications

Proof pressure	1.5 MPa
Operating pressure range	0 to 1 MPa
Ambient and fluid temperature	– 5 to 60°C (No freezing)

How to Order

ASN2 – □ 03 – □ – □

Thread type

Nil	Metric thread (M5)
	Unified thread (10-32 UNF)
	R
N	NPT

Lock nut option

Nil	Hexagon lock nut
J	Round lock nut

Option Note)

Nil	None
S	With seal

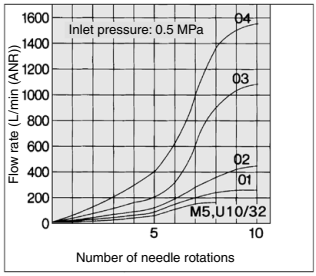
Note) M5 and U10/32 are not available with seals.

Port size

M5	M5 x 0.8
U10/32	10-32 UNF
01	1/8
02	1/4
03	3/8
04	1/2

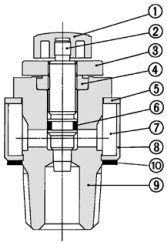
Needle Valve/ Flow Rate Characteristics

Note) The flow rate characteristics are representative values.



SMC

Construction

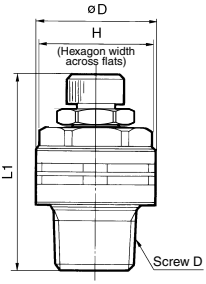


Component Parts

No.	Description	Material	Note
1	**Handle**	PBT	
2	**Needle**	Brass	Electroless nickel plated
3	**Lock nut**	Steel (2)	Zinc chromated (1)
4	**Needle guide**	Brass	Electroless nickel plated
5	**Washer**	Carbon steel	Nickel plated
6	**O-ring**	NBR	
7	**Silencer**	PVA sponge	
8	**Silencer cover**	Soft polyethlene	
9	**Body B**	Brass	Electroless nickel plated
10	**Gasket**	NBR/Stainless steel	M5, U10/32 only

Note 1) The round lock nut is electroless nickel plated.
Note 2) The round lock nut is made of brass. However, note that only the ASN2-□01 and □02 use steel.

Dimensions



Dimensions

Model	Screw **D**	ø**D**	**L1** (2)		**H**
			Min.	Max.	
ASN2-M5	M5 x 0.8	10	20.5	23.3	8
ASN2-U10/32	10-32 UNF	10	20.5	23.3	8
ASN2-01	1/8	15	29.1	34.1	12 (12.7)
ASN2-02	1/4	20	33.7	38.7	17 (17.5)
ASN2-03	3/8	25	35.9	40.9	19
ASN2-04	1/2	30	48.1	53.1	24 (23.8)

Note 1) (in parentheses) are the dimensions of "NPT" screw specifications.
Note 2) L1: Reference dimensions

⚠ Specific Product Precautions

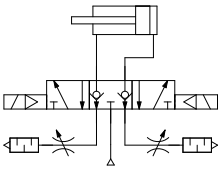
Be sure to read this before handling the products.
Refer to back page 50 for Safety Instructions and pages 543 to 546 for Flow Control Equipment Precautions.

Selection

⚠Warning

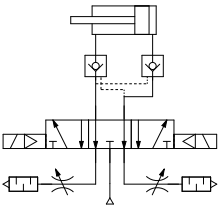
1. Example of inapplicable circuits

(a) Perfect Valve
(VF66□□, VS7-6-FPG, VS7-8-FPG)



Residual pressure behind the exhaust needle may cause check valve malfunction in the Perfect Valve.

(b) Pilot check valve between Actuator and Valve



Residual pressure behind the exhaust needle may cause pilot check valve malfunction.

Installation

⚠Warning

1. If installing flow controls to valve ports, interference may occur with the fittings. Please consult the catalog before installing.

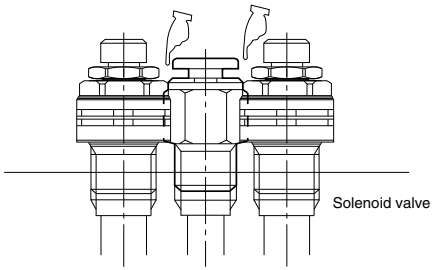


Fig. Example of the interference with fittings

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP