NP Series High Precision Needle Valves





High Precision Needle Valves - NP Series

The NP series needle precisely adjusts flow to the desired flow rate. It features a 20 turn highresolution needle mechanism. It is the industry's first (and only) high purity type high-precision needle valve.

The series has an array of orifice sizes (nonremovable) to select from to precisely adjust flow in the required range. There are nine standard orifice sizes. Custom orifice sizes for higher flow rates available upon request.

It has a user-friendly push lock handle. The locking mechanism prevents the handle (and shaft) from rotating.

The series comes with 1/4", 3/8" or 1/2" connections (Pillar-S300, flare etc.). The port position for stand-alone models are offered in either angle or straight (step-up) type; manifold configurations available as well.

ADVANCE





Dimensions - Angle type



	Pillar	S-300		Flare		
Dim.	1/4"	3/8"	1	/4"	3/8"	
Α	φ 30	-		-	-	
В	φ 22	-		-	-	
С	35	-	-		-	
D	38	-		-	-	
E	14	-		-	-	
F	5	-		-	-	
G	55	-		-	-	
Н	84	80	9	3.4	95.4	
Ι	11	15	2	4.4	26.4	
J	□30	-		-	-	
К	11	15	2	4.4	26.4	
L	41	45	5	4.4	56.4	
М	12	-		-	-	

Dimensions in millimeters.

All PTFE flow path.

- Common dimension for each fitting size unless specified otherwise.

ADVANCE

Dimensions - Angle type PFA Body w/ 3/8" S-300 fittings



	Pillar S-300
Dim.	PFA Body 3/8" fttgs
Α	φ 30
В	φ 22
С	35
D	38
E	14
F	5
G	55
Н	87
I	15
J	□30
K	17
L	47
М	43

Dimensions in millimeters. PFA/PTFE flow path.

ADVANCE

Dimensions - straight type (step-up)



Dimensions in millimeters.

All PTFE flow path.

- Common dimension for each fitting size unless specified otherwise.

ADVANCE

Model Code Selection (for stand-alone models)



- #1 The following specifications are fixed for PFA body type:
 - a. Port position Angel
 - b. Fitting size/type 3/8" Nippon Pillar S-300
 - c. Orifice code $401 \mbox{ and } 402$
 - (model #: NP360A-3B-401 and NP360A-3B-402)
- #2 Bottom mount can be applied as well to straight (step-up) type models. Panel mount only for angle type models.
- #3 Flow ranges listed in above table are approximate. Max flow depends on the amount of delta pressure. See individual flow graphs for details.
- #4 Inquire with Advance for product drawings/spec sheets, as well as for manifold configurations.

ADVANCE_____

Orifice Code "201" performance data @ various ΔP



ADVANCE

Orifice Code "202" performance data @ various ΔP



ADVANCE

Orifice Code "203" performance data @ various ΔP



ADVANCE

Orifice Code "251" performance data @ various ΔP



ADVANCE

Orifice Code "252" performance data @ various ΔP





Orifice Code "301" performance data @ various ΔP



ADVANCE

Orifice Code "302" performance data @ various ΔP



ADVANCE

Orifice Code "401" performance data @ various ΔP



ADVANCE

Orifice Code "402" performance data @ various ΔP



ADVANCE

Technical Support

Advance Electric America

3350 Scott Blvd #46-01 Santa Clara, CA 94089 Phone: 408-988-8082 FAX: 408-988-8094 Contact: Dan Boyer (email: boyer@advance-e.co.jp)

