General Description

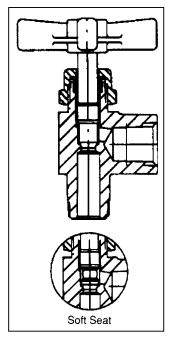
Series 133, 135, 143 and S133, S135, S143 needle valves are capable of metering flow of a wide variety of liquids and gases. A soft seat design can be used when zero leakage is required.

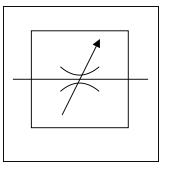
Features

- Low-priced brass needle valves available in metal and soft seat designs.
- Special stem designs offer precision control of small volume flows.
- External pipe threaded ports are counterbored to accept solder-type tube fittings.
- Stops, prevents stems from being screwed out accidentally.
- In the soft seat type the resiliency of the captive thermoplastic nose assures positive shut-off.

Specifications

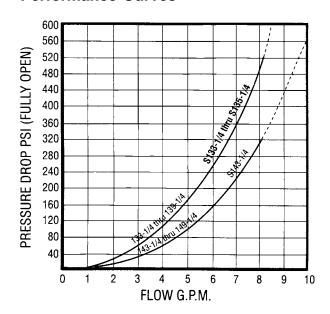
opoomounono						
Service Applications	133, 135, 143: Liquids S133, S135, S143: Gases and liquids					
Maximum Operating Pressure	133, 135, 143: Working: 345 Bar (5000 PSI) Proof: 517.5 Bar (7500 PSI) Burst: 862.5 Bar (12,500 PSI)					
	S133, S135, S143: 207 Bar (3000 PSI)					
Sizes	NPT: 1/4					
Ports	NPT: Pipe threads					
Internal Leakage	Zero					
Mounting	In-line or panel. Maximum panel thickness 1/2". Panel hole diameter 17/32".					
Material	Body:	Brass				
	Cap:	Brass				
	Cap Washer:	316 Stainless Steel				
	Locknut:	Brass				
	Stem:	303 or 316 Stainless Steel				
	Stem Nose Soft Seat:	Thermoplastic				
	Washers:	304Stainless Steel				
	Packing:	PTFE				
	Handle:	Aluminum alloy star (metal seat)				
Operating Temperature	133, 135, 143: Brass: -54°C to 93°C (-65°F to 200°F) Consult factory for special temps.					
	S133, S135, S143: -54°C to 93°C (-65°F to 200°F)					







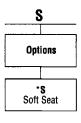
Performance Curves

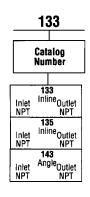


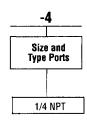
:	CV Fa	Weights		
Size	Inline	(Approx.)		
1/4	.19	.37	.25 Lb.	

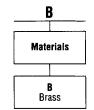
2502-G1.p65, dd

Ordering Information









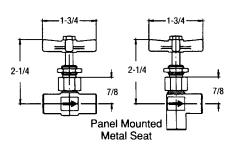


Dimensions

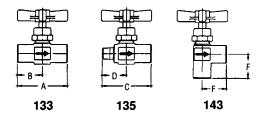
Dimensions are shown in inches

Handle and Centerline





Flow Direction of Soft Seat is Reverse of Arrows Shown Below



Dimensions Apply to Both Regular and Panel-Mounting Types, Metal and Soft Seat

ſ	Dash	Size										
	Number	Tube	Pipe	A	В	C	D	E	F	G	H	J
	1/4	-	1/4	1-7/8	15/16	1-13/16	7/8	1-3/4	7/8	15/16	_	

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