### **General Description**

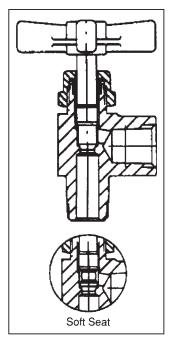
Series 133, 135, 143 and S133, S135, S143 needle valves are capable of metering flow of a wide variety of liquids and gases. A soft seat design can be used when zero leakage is required.

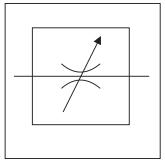
#### **Features**

- 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.



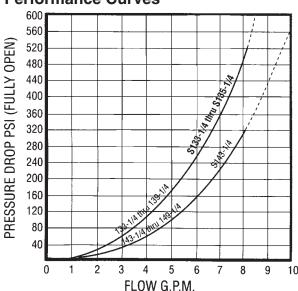
Service Applications	133, 135, 143: Liquids S133, S135, S143: Gases and liquids					
Maximum Operating Pressure	133, 135, 143: Working: 345 Bar (5000 PSI) Proof: 517.5 Bar (7500 PSI) Burst: 862.5 Bar (12,500 PSI)					
Sizes	S133, S135, S143: 207 Bar (3000 PSI)  NPT: 1/4					
Ports	NPT: Pipe threads	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







#### **Performance Curves**

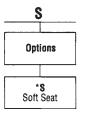


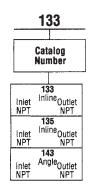
	CV Fa	Weights		
Size	Inline	Angle	(Approx.)	
1/4	.19	.37	.25 Lb.	

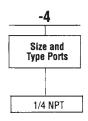


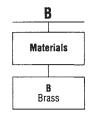
## **Technical Information**

# **Ordering Information**





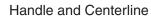


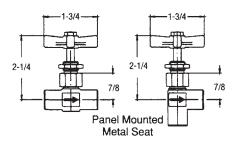




#### **Dimensions**

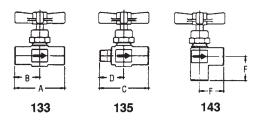
Dimensions are shown in inches







Flow Direction of Soft Seat is Reverse of Arrows Shown Below



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

Dash	Si	ze									
Number	Tube	Pipe	Α	В	C	D	E	F	G	Н	J
1/4	_	1/4	1-7/8	15/16	1-13/16	7/8	1-3/4	7/8	15/16	_	

D3

