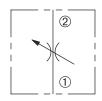
# S-210, S-310 and S-410

Adjustable, High Pressure, Needle Valve 5000 psi (345 bar)



#### **SERIES S**



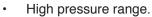
#### **DESCRIPTION**

A cartridge valve designed as a shut-off. The optional SM needle provides fine metering characteristics.

#### **OPERATION**

The S-210, S-310, and S-410 series of valves will allow flow in either direction.

#### **FEATURES and BENEFITS**



- High flow capabilities.
- Fine metering option.
- Positive shut-off.

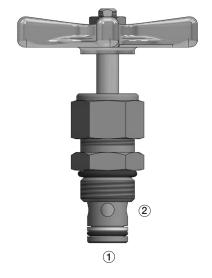


Operating Pressure: 5000 psi (345 bar)
Flow: See FLOW CHARACTERISTICS chart.
Temperature: -30°F to +250°F (-34°C to +121°C)

Recommended Filtration: ISO 20/18/14

Fluids: Mineral-based fluids. For other fluid compatibility, consult factory.

Cavities /Cavity Tools: S210; S310; S410, see page 11.22.1



### **FLOW CHARACTERISTICS**

MODEL	FLOW MAX. RECOMENDED GPM (L/min.)		CV FLOW FACTOR (FULL OPEN)
S-210-S-*	13.5	(51.1)	.85
S-310-S-*	25.0	(94.6)	1.67
S-410-S-*	40.0	(151.4)	1.89
SM-210-S-*	13.5	(51.1)	.85
SM-310-S-*	25.0	(94.6)	1.67
SM-410-S-*	40.0	(151.4)	1.89

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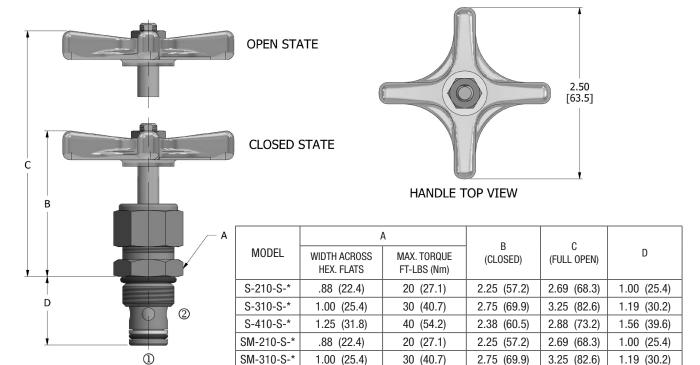


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## **SERIES S**

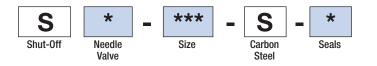
## **DIMENSIONS** Inches [Millimeters]



1.25 (31.8)

40 (54.2)

#### **HOW TO ORDER**



	Needle Valve	
omit	Standard metering	
M	Fine metering	

S	Size	Flow - Maximum	Cavity
210	1/4"	7.0 gpm (26.5 lpm)	S210
310	3/8"	13.5 gpm (51.1 lpm)	S310
410	1/2"	22.5 gpm (85.2 lpm)	S410

SM-410-S-\*

Seals		
3	Viton	

2.38 (60.5)

2.88 (73.2)

1.56 (39.6)