

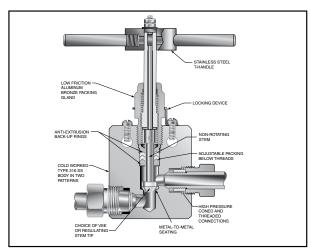
# Needle Valves - SC Series

# Pressures to 43.000 psi (2965 bar)

Tube Outside Diameter Size Inches	Connection Type	Orifice Size Inches (mm)	Rated C <sub>v</sub> *	Pressure Rating psi (bar) @ Room Temperature**
Series 30SC	F1000C43	.438 (11.12)	2.6	30,000 (2068)
Series 43SC 1	F1000C43	.438 (11.12)	2.6	43,000 (2965)

### Notac:

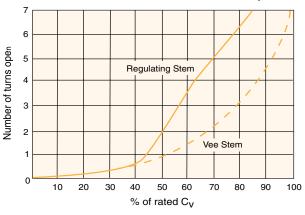
- \*  $C_V$  values shown are for 2-way straight valve pattern. For 2-way angle patterns, increase  $C_V$  value 50%.
- \*\* For complete temperature ratings see pressure/temperature rating guide in Technical Information section.



To ensure proper fit use Autoclave tubing

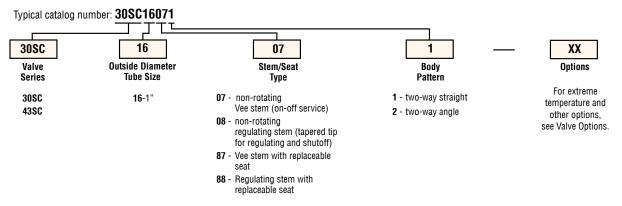
# Autociave Engineers Autociave Engineers MANNE 2017- SSSPW 318-SS MANNE 2017- SSSPW 318-SSSPW 318-SS MANNE 2017- SSSPW 318-SS MANNE 2017- SSSPW 3

### Generalized Flow Coefficient Curves (C<sub>V</sub>)



# **Ordering Procedure**

For complete information on available stem types, optional connections and additional valve options, see Needle Valve Options section or contact your Sales Representative. The 30SC Series valves are furnished complete with connection components, unless otherwise specified.



All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.



# Valve Options

### **Extreme Temperatures**

Standard Parker Autoclave Engineers valves with PTFE packing may be operated from 0°F (-17.8°C) to 450°F (232°C). High temperature packing is available for service from -423°F (-252°C) to 1200°F (649°C) by adding the following suffixes to catalog order number.

TG - standard valve with PTFE glass packing to 600°F (316°C).

**GY** - standard valve with graphite braided yarn packing to 800°F (427°C). 8.000 psi (569 bar) max.

HT - extended stuffing box valve with graphite braided yarn packing to 1200°F (649°C).

**B** - standard valve with cryogenic trim material and PTFE packing to -100°F (-73°C).

LT - extended stuffing box valve with PTFE packing & Cryogenic trim materials to -423°F (-252°C).

**K** - anti-vibration collet and gland assembly.

# **Valve Maintenance**

Repair Kits: add "R" to the front of valve catalog

number for proper repair kit. (Example: **R30SC16071**)

Valve Bodies: Valve bodies are available. Order using the eight (8)

digit part number found in the valve drawing or contact your Sales Representative for information.

Consult your Parker Autoclave Engineers representative for pricing on repair kits and valve bodies. Refer to the Tools, Installation, Operation and Maintenance section for proper maintenance procedures.

Catalog	Stem	Outside	eter Diameter	Dimensions - inches (mm)													Valve
Number	Туре	Diameter Tube		A	В	C	D	D <sub>1</sub>	E	F	G	G <sub>1</sub>	Н*	М	N	Thick- ness	Pattern

### 2-Way Straight

		,															
30SC16071	VEE	1"	0.438	4.13	2.06	0.72	3.50	2.75	4.44	10.25	1.62	0.56	8.42	1.25	1.12	1.75	
30SC16081	REG	(25.40)	(11.12)	(104.90)	(52.32)	(18.28)	(88.90)	(69.85)	(112.77)	(260.35)	(41.14)	(14.22)	(213.86)	(31.75)	(28.44)	(44.45)	See
43SC16071	VEE	1"	0.438	4.88	2.44	0.72	3.50	2.75	4.44	10.25	1.62	0.56	8.42	1.25	1.12	2.25	Figure 1
43SC16081	REG	(25.40)	(11.12)	(123.96)	(61.96)	(18.28)	(88.90)	(69.85)	(112.77)	(260.35)	(41.14)	(14.22)	(213.86)	(31.75)	(28.44)	(57.15)	

## 2-Way Angle

30SC16072	VEE	1"	0.438	4.13	2.06	0.72	2.75	5.12	10.25	1.62	0.56	9.35	1.25	1.12	1.75	
30SC16082	REG	(25.40)	(11.12)	(104.90)	(52.32)	(18.28)	(69.85)	(130.04)	(260.35)	(41.14)	(14.22)	(237.49)	(31.75)	(28.44)	(44.45)	See
43SC16072	VEE	1"	0.438	4.88	2.44	0.72	2.75	5.12	10.25	1.62	0.56	9.35	1.25	1.12	2.25	Figure 2
43SC16082	REG	(25.40)	(11.12)	(123.96)	(61.96)	(18.28)	(69.85)	(130.04)	(260.35)	(41.14)	(14.22)	(237.49)	(31.75)	(28.44)	(57.15)	

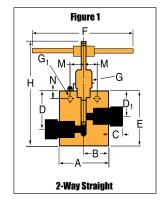
# 2-Way Angle/Replaceable Seat

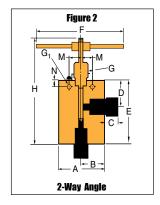
30SC16872	VEE	1"	0.438	4.13	2.06	0.72	2.75	4.31	5.24	10.25	1.62	0.56	10.56	1.25	1.12	1.75	
30SC16882	REG	(25.40)	(11.12)	(104.90)	(52.32)	(18.28)	(71.37)	(109.47)	(133.35)	(260.35)	(41.14)	(14.22)	(268.22)	(31.75)	(28.44)	(44.45)	See
43SC16872	VEE	1"	0.438	4.88	2.44	0.72	2.75	4.31	5.24	10.25	1.62	0.56	10.56	1.25	1.12	2.25	Figure 3
43SC16882	REG	(25.40)	(11.12)	(123.96)	(61.96)	(18.28)	(71.37)	(109.47)	(133.35)	(260.35)	(41.14)	(14.22)	(268.22)	(31.75)	(28.44)	(57.15)	

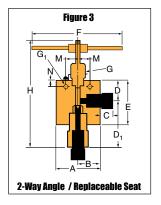
G - Packing gland mounting hole drill size

Panel mounting drill size: 0.22" all valves.

\* H Dimension is with stem in closed position. All dimensions for reference only and subject to change. For prompt service, Parker Autoclave Engineers stock select products. Consult factory.







All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

G<sub>1</sub> - Bracket mounting hole size