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Needle Valves - SW Series

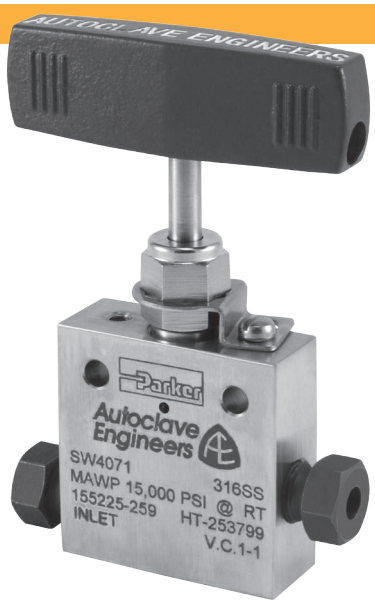
Pressures to 15,000 psi (1034 bar)

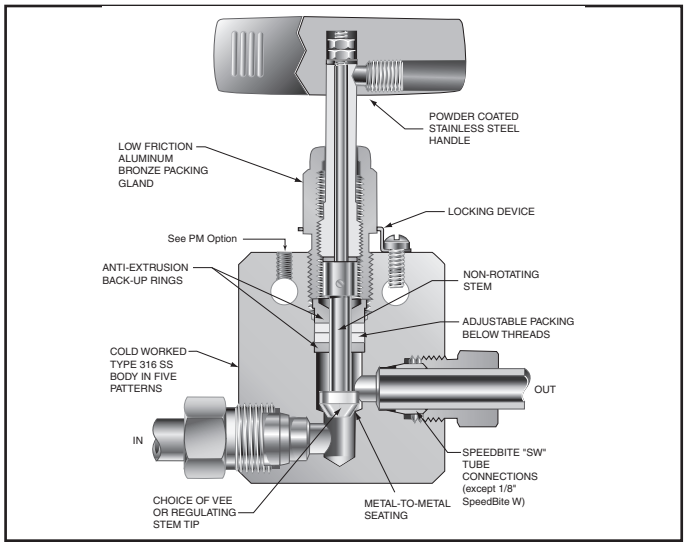
Tube Outside Diameter Size Inches	Connection Type	Orifice Size Inches (mm)	Rated C_V*	Pressure Rating psi (bar) @ Room Temperature**
1/8	W125— Refer to 10V Series Valves —			
1/4	SW250	0.188 (4.77)	0.65	15,000 (1034)
3/8	SW375	0.250 (6.35)	0.95	15,000 (1034)
1/2	SW500	0.375 (9.52)	1.90	10,000 (690)

Notes:

* *C_V values shown are for 2-way straight valve pattern. For 2-way angle patterns, increase C_V value 50%. (Based on water)*

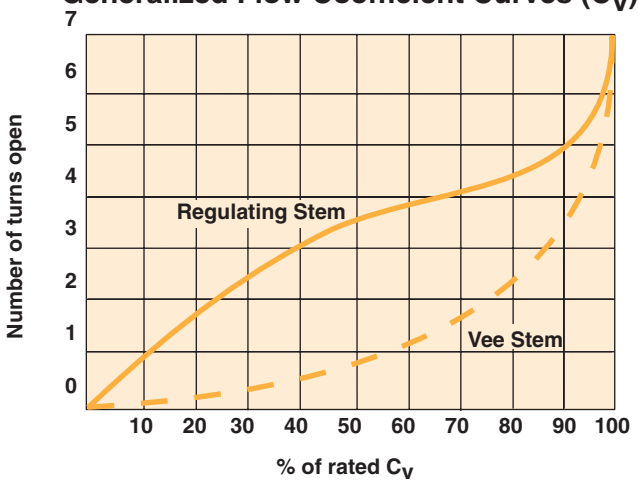
** *For complete temperature ratings see pressure/temperature rating guide in Technical Information section.*





To ensure proper fit use Autoclave tubing

Generalized Flow Coefficient Curves (C_V)



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. SW Series valves are furnished complete with connection components, unless otherwise specified.

Typical catalog number example: **SW4071** (catalog number is created based on customer selection of product parameters, see below for example)

SW	4	07	1	-	XX
Valve Series	**Outside Diameter tube Size**	**Stem/Seat Type**	**Body Pattern**		**Options**
	4-1/4” **6**-3/8” **8**-1/2”	**07** - non-rotating Vee stem (on-off service) **08** - non-rotating regulating stem (tapered tip for regulating and shutoff) **87** - Vee stem with replaceable seat **88** - Regulating stem with replaceable seat	**1** - two-way straight **2** - two-way angle **3** - three-way, two on pressure **4** - three-way, one on pressure **5** - three-way, two stem manifold valve		For extreme temperature and other options, see Valve Options. **PM** - Panel Mount, additional screw is supplied.

Note: Contact Sales for 1/16”tube size or see MVE Series.

Valve Options

Extreme Temperatures
Standard Parker Autoclave valves with PTFE packing may be operated to 450°F (232°C). High temperature packing and/or extended stuffing box are available for service from -100°F (-73°C) to 650°F (343°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 650°F (343°C).
B standard valve with cryogenic trim materials and Telfon packing to -100°F (-73°C).

†*Parker Autoclave Engineers does not recommend compression sleeve connections below -100°F (-73°C) or above 650°F (343°C). For additional valve options, contact your Sales Representative.*

Basic Repair Kits for 316 SS Material

Vee Stem
RSWV407 (1/4"), RSW607 (3/8"), RSW807 (1/2")

Regulating Stem
RSW408 (1/4"), RSW608 (3/8"), RSW808 (1/2")

Two Way Replaceable Seat and Stem
RSW4872 (1/4"), RSW6872 (3/8"), RSW8872 (1/2") - Vee Stem
RSW4882 (1/4"), RSW6882 (3/8"), RSW8882 (1/2") - Regulating Stem

Two Stem Two Way Manifold
RSW4072 (1/4"), RSW6072 (3/8"), RSW8072 (1/2") - Vee Stem
RSW4082 (1/4"), RSW6082 (3/8"), RSW8082 (1/2") - Regulating Stem

Consult your Parker Autoclave Engineers representative for other kit numbers, body part numbers, and pricing.
Visit www.autoclave.com for product Operation manuals.

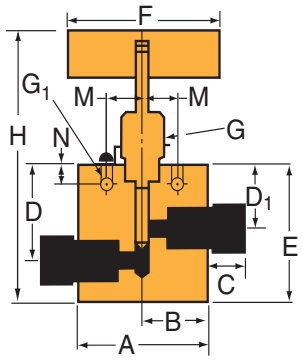
Catalog Number	Stem Type	Outside Diameter Tube	Orifice Diameter	Dimensions - inches (mm) A	B	C	D	D_1	E	F	G	G_1	H*	M	N	Block Thickness	Valve Pattern
2-Way Straight																	
SW4071	VEE	1/4	0.187	2.00	1.00	0.38	1.62	1.19	2.00	3.00	0.75	0.22	4.50	0.62	0.38	0.75	See Figure 1
SW4081	REG	(6.35)	(4.75)	(50.80)	(25.40)	(9.65)	(41.15)	(30.23)	(50.80)	(76.20)	(19.05)	(5.59)	(114.30)	(15.75)	(9.65)	(19.05)	
SW6071	VEE	3/8	0.250	2.00	1.00	0.47	1.62	1.19	2.00	3.00	0.75	0.22	4.50	0.62	0.38	0.75	
SW6081	REG	(9.53)	(6.35)	(50.80)	(25.40)	(11.94)	(41.15)	(30.23)	(50.80)	(76.20)	(19.05)	(5.59)	(114.30)	(15.75)	(9.65)	(19.05)	
SW8071	VEE	1/2	0.375	2.50	1.25	0.53	2.38	1.75	2.88	4.00	1.00	0.34	5.95	0.69	0.50	1.00	
SW8081	REG	(12.70)	(9.53)	(63.50)	(31.75)	(13.46)	(60.45)	(44.45)	(73.15)	(101.60)	(25.40)	(8.64)	(151.37)	(17.53)	(12.70)	(25.40)	
2-Way Angle																	
SW4072	VEE	1/4	0.187	2.00	1.00	0.38	1.19		2.43	3.00	0.75	0.22	5.00	0.62	0.38	0.75	See Figure 2
SW4082	REG	(6.35)	(4.75)	(50.80)	(25.40)	(9.65)	(30.23)		(61.72)	(76.20)	(19.05)	(5.59)	(127.00)	(15.75)	(9.65)	(19.05)	
SW6072	VEE	3/8	0.250	2.00	1.00	0.47	1.19		2.19	3.00	0.75	0.22	5.00	0.62	0.38	0.75	
SW6082	REG	(9.53)	(6.35)	(50.80)	(25.40)	(11.94)	(30.23)		(55.63)	(76.20)	(19.05)	(5.59)	(127.00)	(15.75)	(9.65)	(19.05)	
SW8072	VEE	1/2	0.375	2.50	1.25	0.53	1.75		3.38	4.00	1.00	0.34	6.45	0.69	0.50	1.00	
SW8082	REG	(12.70)	(9.53)	(63.50)	(31.75)	(13.46)	(44.45)		(85.85)	(101.60)	(25.40)	(8.64)	(163.83)	(17.53)	(12.70)	(25.40)	
3-Way / 2 on Pressure																	
SW4073	VEE	1/4	0.187	2.00	1.00	0.38	1.62	1.19	2.62	3.00	0.75	0.22	5.18	0.62	0.38	0.75	See Figure 3
SW4083	REG	(6.35)	(4.75)	(50.80)	(25.40)	(9.65)	(41.15)	(30.23)	(66.55)	(76.20)	(19.05)	(5.59)	(131.57)	(15.75)	(9.65)	(19.05)	
SW6073	VEE	3/8	0.250	2.00	1.00	0.47	1.62	1.19	2.62	3.00	0.75	0.22	5.13	0.62	0.38	0.75	
SW6083	REG	(9.53)	(6.35)	(50.80)	(25.40)	(11.94)	(41.15)	(30.23)	(66.55)	(76.20)	(19.05)	(5.59)	(130.30)	(15.75)	(9.65)	(19.05)	
SW8073	VEE	1/2	0.375	2.50	1.25	0.53	2.38	1.75	3.62	4.00	1.00	0.34	6.70	0.69	0.50	1.00	
SW8083	REG	(12.70)	(9.53)	(63.50)	(31.75)	(13.46)	(60.45)	(44.45)	(91.95)	(101.60)	(25.40)	(8.64)	(170.18)	(17.53)	(12.70)	(25.40)	

G - Packing gland mounting hole drill size
G_1 - Bracket mounting hole 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.

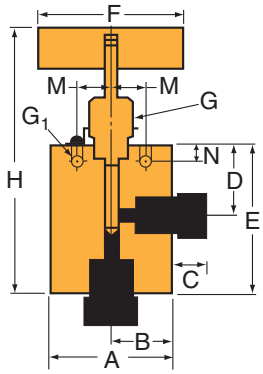
For prompt service, Autoclave stocks select products. Consult factory.

Figure 1



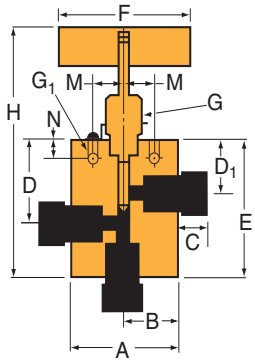
2-Way Straight

Figure 2



2-Way Angle

Figure 3



3-Way / 2 on Pressure

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

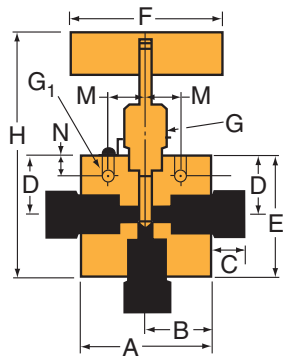
Catalog Number	Stem Type	Outside Diameter Tube	Orifice Diameter	Dimensions -inches (mm)												Block Thick-ness	Valve Pattern
				A	B	C	D	D_1	E	F	G	G_1	H*	M	N		
3-Way / 1 on Pressure																	
SW4074	VEE	1/4	0.187	2.00	1.00	0.38	1.19		2.43	3.00	0.75	0.22	5.00	0.62	0.38	0.75	See Figure 4
SW4084	REG	(6.35)	(4.75)	(50.80)	(25.40)	(9.65)	(30.23)		(61.72)	(76.20)	(19.05)	(5.59)	(127.00)	(15.75)	(9.65)	(19.05)	
SW6074	VEE	3/8	0.250	2.00	1.00	0.47	1.19		2.43	3.00	0.75	0.22	5.00	0.62	0.38	0.75	
SW6084	REG	(9.53)	(6.35)	(50.80)	(25.40)	(11.94)	(30.23)		(61.72)	(76.20)	(19.05)	(5.59)	(127.00)	(15.75)	(9.65)	(19.05)	
SW8074	VEE	1/2	0.375	2.50	1.25	0.53	1.75		3.38	4.00	1.00	0.34	6.45	0.69	0.50	1.00	
SW8084	REG	(12.70)	(9.53)	(63.50)	(31.75)	(13.46)	(44.45)		(85.85)	(101.60)	(25.40)	(8.64)	(163.83)	(17.53)	(12.70)	(25.40)	
2-Way Angle / Replaceable Seat																	
SW4872	VEE	1/4	0.187	2.00	1.00	0.38	1.19	1.88	2.25	3.00	0.75	0.22	5.75	0.62	0.38	0.75	See Figure 5
SW4882	REG	(6.35)	(4.75)	(50.80)	(25.40)	(9.65)	(30.23)	(47.75)	(57.15)	(76.20)	(19.05)	(5.59)	(146.05)	(15.75)	(9.65)	(19.05)	
SW6872	VEE	3/8	0.250	2.00	1.00	0.47	1.19	2.19	2.25	3.00	0.75	0.22	5.75	0.62	0.38	0.75	
SW6882	REG	(9.53)	(6.35)	(50.80)	(25.40)	(11.94)	(30.23)	(55.62)	(57.15)	(76.20)	(19.05)	(5.59)	(146.05)	(15.75)	(9.65)	(19.05)	
SW8872	VEE	1/2	0.375	2.50	1.25	0.53	1.75	2.50	3.25	4.00	1.00	0.34	7.51	0.69	0.50	1.00	
SW8882	REG	(12.70)	(9.53)	(63.50)	(31.75)	(13.46)	(44.45)	(63.50)	(82.55)	(101.60)	(25.40)	(8.64)	(190.75)	(17.53)	(12.70)	(25.40)	
3-Way / 2-Stem Manifold																	
SW4075	VEE	1/4	0.187	2.00	1.00	0.38	1.68	1.19	3.38	3.00	0.75	0.22	5.94	0.62	0.38	0.75	See Figure 6
SW4085	REG	(6.35)	(4.75)	(50.80)	(25.40)	(9.65)	(42.67)	(30.23)	(85.85)	(76.20)	(19.05)	(5.59)	(150.88)	(15.75)	(9.65)	(19.05)	
SW6075	VEE	3/8	0.250	2.00	1.00	0.47	1.68	1.19	3.38	3.00	0.75	0.22	5.94	0.62	0.38	0.75	
SW6085	REG	(9.53)	(6.35)	(50.80)	(25.40)	(11.94)	(42.67)	(30.23)	(85.85)	(76.20)	(19.05)	(5.59)	(150.88)	(15.75)	(9.65)	(19.05)	
SW8075	VEE	1/2	0.375	2.50	1.25	0.53	2.56	1.75	5.12	4.00	1.00	0.34	8.20	0.69	0.50	1.00	
SW8085	REG	(12.70)	(9.53)	(63.50)	(31.75)	(13.46)	(65.02)	(44.45)	(130.05)	(101.60)	(25.40)	(8.64)	(208.28)	(17.53)	(12.70)	(25.40)	

G - Packing gland mounting hole drill size
G_1 - Bracket mounting hole 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.

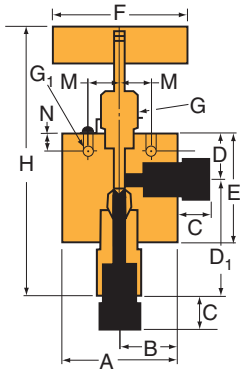
For prompt service, Autoclave stocks select products. Consult factory.

Figure 4



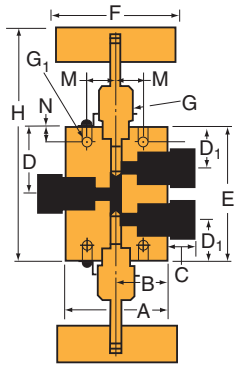
3-Way / 1 on Pressure

Figure 5



2-Way Angle / Replaceable Seat

Figure 6



3-Way / 2-Stem Manifold

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