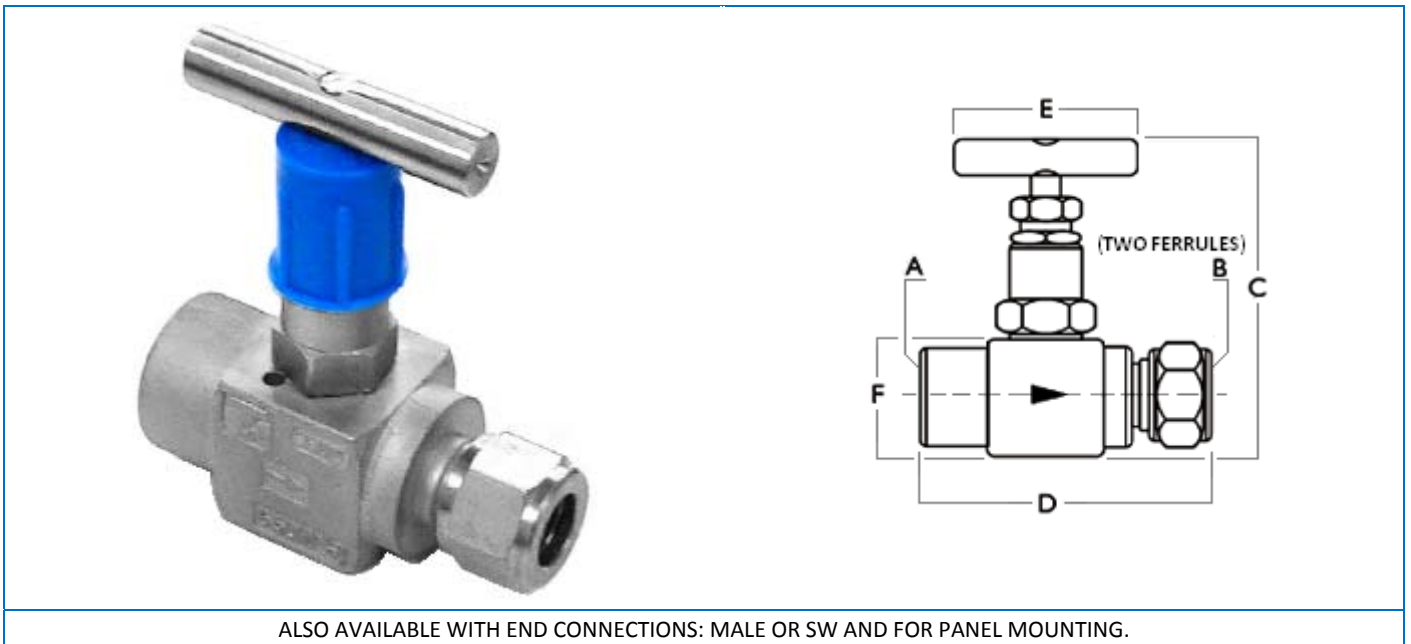




# Needle Valves 400 SWT Series

## SW to Tube O.D. - 1 Way



ALSO AVAILABLE WITH END CONNECTIONS: MALE OR SW AND FOR PANEL MOUNTING.

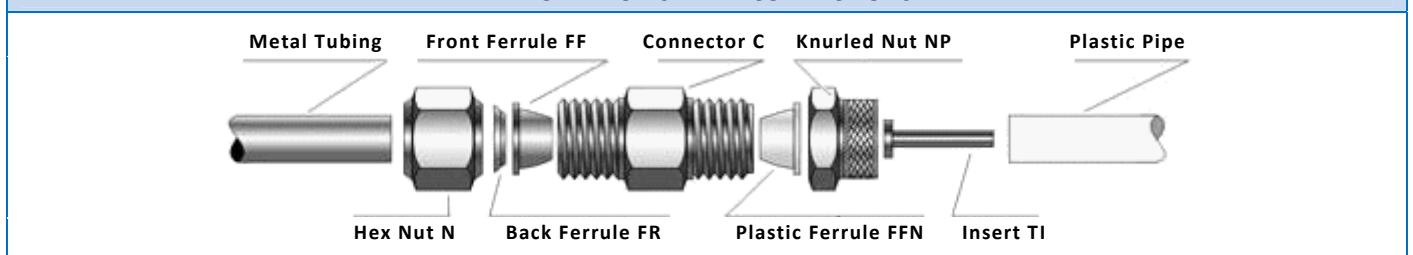
PART NUMBER	SS 316	404 SWT 316	406 SWT 316	408 SWT 316
	CARBON	404 SWT S	406 SWT S	408 SWT S
END CONNECTION	INLET (A)	1/4" SW (14,4 MM)	3/8" SW (17,8 MM)	1/2" SW (22,0 MM)
	OUTLET (B)	1/4" TUBE O.D.	3/8" TUBE O.D.	1/2" TUBE O.D.
DIMENSIONS*	C	OPEN: 91,00 CLOSED: 88,50		
	D	74,00	74,50	78,30
	E	55,00		
	F	31,75		

\* Dimensions are for reference only and are subject to change.

### OPTIONALS & KEY FEATURES

VARIOUS STANDARD END-CONNECTIONS FROM 1/8" TO 1"	17-4 PH STAINLESS STEEL NON-ROTATING STEM TIP
CHOICE OF 316 STAINLESS STEEL (CF8M) OR CARBON (WCB)	NPT THREADS OR BSP THREADS – MM OR INCHES
TEFLON® PACKING OR GRAFOIL® PACKING	MAXIMUM OPERATING PRESSURE: 6.500 PSI
STRAIGHT AND ANGLE PATTERNS	JOINT IS LOCATED ABOVE THE PACKING, PROTECTED FROM SYSTEM.

### TWO FERRULES – END CONNECTIONS



# Technical Standards



		STANDARDS – RAW MATERIAL		400 SWT
		DESCRIPTION		
<p>*OPTIONALS</p>	Nº			
	1	SS 316 (316)	CARBON (S)	
	1	ROUND BAR (316)	ROUND BAR (S)	
		ASTM A 276	SAE 1020 / 1045	
	2	SCREW ALLEN (304)	SCREW ALLEN (S)	
		DIN 915	DIN 915	
	3	HEX BAR (316)	HEX BAR (S)	
		ASTM A 276	SAE 1020 / 1045	
	4	HEX BAR (316)	HEX BAR (S)	
		ASTM A 276	SAE 1020 / 1045	
	5	WASHER (316)		
		ASTM A 167		
	6*	PTFE 850A (TEFLON®)		
		ASTM D 4894		
		GRAFKOTE (GRAFOIL®)		
		ASTM F 1315		
7	HEX BAR (316)	HEX BAR (S)		
	ASTM A 276	SAE 1020 / 1045		
8	PTFE 850A (TEFLON®)			
	ASTM D 4894			
9	ROUND BAR (316)			
	ASTM A 276			
10	ROUND BAR ARMCO 17-4 PH			
	ASTM A 564 TP 630			
11*	HEX BAR(316)			
	ASTM A 276			
12	SPRING PIN (304)	SPRING PIN (S)		
	DIN 1481	DIN 1481		
13	DUST CAP (PEBD 30%)			
	API SPECIFICATION 5CT/ISO 11960			
14*	BODY VALVE (CASTING) (CF8M)	BODY VALVE (CASTING) (WCB)		
	ASTM A 351	ASTM A 216		
	SQUARE BAR (316)	SQUARE BAR (S)		
15	ASTM A 276	SAE 1020 / 1045		
	HEX BAR (316)	HEX BAR (S)		
16	ASTM A 276	SAE 1020 / 1045		
	ROUND BAR (316)	ROUND BAR (S)		
		ASTM A 276		

VALVES BODIES TREATMENT			
COMPONENT		TREATMENT	STANDARD
ALL (EXTERNALS)	316 (CF8M)	GLASS BEAD BLASTING	TRIUNION'S STANDARD
	CARBON (WCB)	CHROMATE NON-HEXAVALENT (COLORLESS)	
NUT (N)	15	SS 316	

OXYGEN CLEANING			
COMPONENT		TREATMENT	STANDARD
ALL	SS 316 (CF8M)	ROCOL® FLUOR CLEAN OR SIMILAR	ASTM G 93
	CARBON (WCB)		

PRESSURE TESTING			
PRODUCTS	TESTING PROCEDURES		STANDARD
VALVES	SHELL		MSS SP 82 BS EN 12266
	9.750 PSI – 15 SEC ROOM TEMPERATURE		
	SEAT		
	7.150 PSI – 15 SEC ROOM TEMPERATURE		



# Technical Information

## Valves 400 Series – 1 Way

TECHNICAL DATA		SS 316	CARBON	
S T A N D A R D S	CONSTRUCTION		BODY: ASME B 16.34	
			END CONNECTION: ASME B 16.11	
	RAW MATERIAL (ASME B 31.1)	BODY (OPTIONAL)	SS 316 - CASTING (CF8M) – ASTM A 351	CARBON - CASTING (WCB) – ASTM A 216
			BAR ASTM A 276 TP 316	BAR SAE 1020 / 1045
		NEEDLE	ARMCO 17-4 PH – ASTM A 564	
		PACKING (OPTIONAL)	GASKETS: CHOICE OF TEFLON® (POLYACETAL) OU GRAFOIL®	
INTERNAL	ALL SS 316 - ASTM A 276			
CONSTRUCTIVE FORM OF THE STEM		SINGLE PIECE WITHOUT WELDING		
HANDLE		T-BAR SS 304 / SS 316 Ø – ASTM A 276	T-BAR CARBON Ø – SAE 1020 / 1045	
ACTUATOR		DIRECT BY HANDLE		
TYPE		NEEDLE TYPE GLOBE VALVE		
SEAT		METAL SEAL BETWEEN BODY AND BONNET REPLACEABLE		
NEEDLE TIP		NON ROTATING TIP – SELF CENTERING AND ANTI-GALLING		
END CONNECTIONS FOR TUBE O.D.		TWO FERRULES SYSTEM		
WORKING PRESSURE		6.500 PSI (MAXIMUM)		
ORIFICE SIZE / CV		Ø 4 MM / CV 0.36 (MAXIMUM)		
BURST PRESSURE		DESIGNED WITH 4 : 1		
TEMPERATURE RANGE (OPTIONAL PACKING)		TEFLON® = (-) 50° C A + 200° C GRAFOIL® = (-) 50° C A + 600° C		
TESTING PROCEDURES		STANDARDS BS EN 12266-1:2003 / BS EN 1266-2:2003 / MSS-SP-82  100% FACTORY TESTED 9.750 PSI – 15 SEC – ROOM TEMPERATURE		
<b>KEY FEATURES</b>				
HIGH PRESSURE CAPABILITY, 316 STAINLESS STEEL OR CARBON VALVE MAXIMUM WORKING PRESSURE IS 6.500 PSI (448 BAR) AT ROOM TEMPERATURE.				
PACKING STEM SEATS BELOW STEM THREADS, TO PROTECT STEM THREADS FROM ABRASIVE FLUIDS.				
REPAIR SEAT KIT ON AVAILABLE TO EXCHANGE				
100% FACTORY TESTED, ALL VALVES HAVE NEEDLE NON-ROTATING HARDNED (17-4 PH) TIPS AS STANDARD.				
DIFERENT TYPE OF THE END CONNECTIONS: DOUBLE FERRULE TYPE, SW, MALE, FEMALE, NPT OR BSP THREADS, INCHES AND MM.				