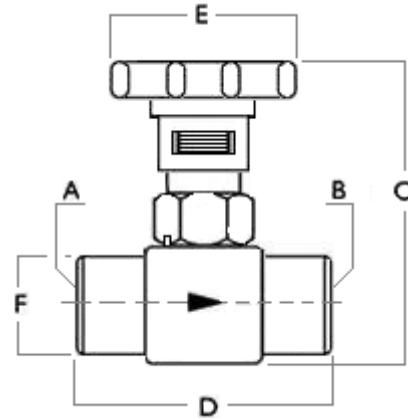




# Needle Valves 1.400 Series

## (Wheel Handle)



ALSO AVAILABLE WITH END CONNECTIONS: MALE, TUBE O.D. OR SW AND FOR PANEL MOUNTING.

PART NUMBER	SS 316	1404 F 316	1404 FB 316	1406 F 316	1406 FB 316	1408 F 316	1408 FB 316	1412 F 316	1412 FB 316	
	CARBON	1404 F S	1404 FB S	1406 F S	1406 FB S	1408 F S	1408 FB S	1412 F S	1412 FB S	
END CONNECTION	INLET (A)	1/4" NPT	1/4" BSP	3/8" NPT	3/8" BSP	1/2" NPT	1/2" BSP	3/4" NPT	3/4" BSP	
	OUTLET (B)	FÊMEA	FÊMEA	FÊMEA	FÊMEA	FÊMEA	FÊMEA	FÊMEA	FÊMEA	
DIMENSIONS*	C	OPEN: 91,00 CLOSED: 88,50						OPEN: 98,00 CLOSED: 94,00		
	D	65,50						67,00		
	E	55,00						55,00		
	F	31,75						38,10		

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

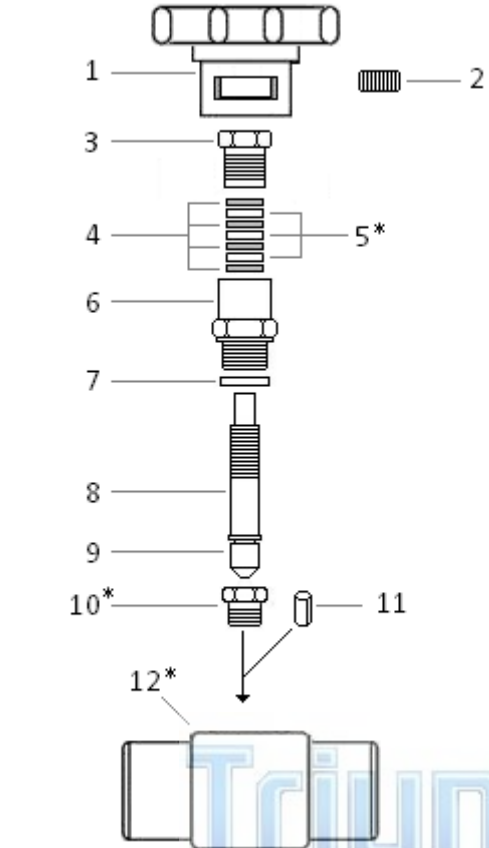
### OPTIONALS & KEY FEATURES

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

# Technical Standards



		STANDARDS – RAW MATERIAL		1.400 F
		DESCRIPTION		
Nº		SS 316 (316)	CARBON (S)	
1	WHEEL HANDLE (CASTING) (CF8M)	WHEEL HANDLE (CASTING) (WCB)		
	ASTM A 351	ASTM A 216		
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	WASHER (316)			
	ASTM A 167			
5*	PTFE 850A (TEFLON®)			
	ASTM D 4894			
	GRAFKOTE (GRAFOIL®)			
	ASTM F 1315			
6	HEX BAR (316)	HEX BAR (316)		
	ASTM A 276	ASTM A 276		
7	PTFE 850A (TEFLON®)			
	ASTM D 4894			
8	ROUND BAR (316)			
	ASTM A 276			
9	ROUND BAR ARMCO 17-4 PH			
	ASTM A 564 TP 630			
10*	HEX BAR(316)			
	ASTM A 276			
11	SPRING PIN (304)	SPRING PIN (304)		
	DIN 1481	DIN 1481		
12*	BODY VALVE (CASTING) (CF8M)	BODY VALVE (CASTING) (WCB)		
	ASTM A 351	ASTM A 216		
	SQUARE BAR (316)	SQUARE BAR (S)		
	ASTM A 276	SAE 1020 / 1045		



\*OPTIONALS

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

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	SEAT	MSS SP 82 BS EN 12266
	9.750 PSI – 15 SEC ROOM TEMPERATURE	7.150 PSI – 15 SEC ROOM TEMPERATURE	



# Technical Information

## Valves 1.400 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 / SAE 1045
		NEEDLE	ARMCO 17-4 PH – ASTM A 564	
		PACKING (OPTIONAL)	GASKETS: CHOICE OF TEFLON® (POLYACETAL) OR GRAFOIL®	
	INTERNAL	ALL SS 316 - ASTM A 276		
CONSTRUCTIVE FORM OF THE STEM		SINGLE PIECE WITHOUT WELDING		
HANDLE		WHEEL HANDLE SS 316 (CF8M)	WHEEL HANDLE CARBON (WCB)	
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 + 200° C GRAFOIL® = (-) 50° C + 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.				