

# SMITH Valve Figure Number System

## Valve Material Option Codes

(PREFIX) **+** STYLE CODE **+** MATERIAL SELECTION PER TABLE BELOW **+** VALVE SIZE **+** SCHEDULE CODE **+** BUTT-WELD END SCHEDULE CODE **+** BELLOWS MATERIAL CODE **+** PROCESS CODE (SUFFIX) **-**

**C E B 8 0 0 S O G W 1 0 0 S C 8 0 E - N P 0 1** <sup>9,10</sup>



BODY/BONNET COVER		API Trim #	STEM	TRIM MATERIAL WEDGE/DISC	SEAT	PACKING	SPRING	GASKET	END CONNECTIONS	BELLOWS
A	A182-F51	10	316	316	316	A GRAPHITE V-RINGS	A INCOLOY 825 + GRAPHITE	A INCOLOY 825 + GRAPHITE	A BUTTWELD (BW)	A 304
B	A182-F347	11	MONEL	MONEL	HF	B CHESTERTON 1800	B MONEL	B INCONEL 600X750 + GRAPHITE	B WELDOLET	B 304L
C	A182-F5	9	MONEL K500	MONEL	MONEL	C GARLOCK EVSP 9000	C MONEL NACE	C INCONEL 600X750 + TFE	C WELDOLET	C 316
D	A182-F316H	9	MONEL NACE	MONEL NACE	MONEL NACE	D GARLOCK EVSP 9000	D MONEL NACE	D INCONEL 600X750 + TFE	D WELDOLET	D 316L
E	B564-N10276	9	MONEL NACE	MONEL NACE	HF	E ALLOY 20	E ALLOY 20	E ALLOY 20 + GRAPHITE	E WELDOLET	E 321
F	B462-N08020	13	ALLOY 20	ALLOY 20	ALLOY 20	F 317L	F ALLOY 20	F ALLOY 20 + GRAPHITE	F WELDOLET	F 347
G	A182-F9	13	317L	317L	HF	G 317L	G HF	G HAST - C276 + GRAPHITE	G WELDOLET	G INCONEL 625
H	A182-F321	13	347H	347H	HF	H 347H	H HF	H HAST - C276 + GRAPHITE	H WELDOLET	H MONEL 400
I	A182-F347H	13	347H	347H	HF	I 347H	I HF	I 347H + GRAPHITE	I WELDOLET	I
J	A182-F316DC	11	316H	316H	HF	J 316H	J HF	J 317L + GRAPHITE	J RING TYPE JOINT (RTJ)	J
K	A182-F11, CL.2	11	410 NACE	420 NACE	HF	K 410 NACE	K HF	K MONEL + GRAPHITE	K RING TYPE JOINT (RTJ)	K
L	A182-F317DC	11	321	321	HF	L 321	L HF	L MONEL + GRAPHITE	L RING TYPE JOINT (RTJ)	L
M	B564-N06625	11	316H	316H	HF	M 316H	M HF	M MONEL + GRAPHITE	M RING TYPE JOINT (RTJ)	M
N	A182-F22, CL.3	11	304L	304L	HF	N 304L	N HF	N MONEL + GRAPHITE	N RING TYPE JOINT (RTJ)	N
O	A105 <sup>2</sup>	8	410	420	HF	O 410	O HF	O 316316L + GRAPHITE OR NO GASKET <sup>1</sup>	O RING TYPE JOINT (RTJ)	O
P	A182-F91	18	INCOLOY 825	HF	HF	P INCOLOY 825	P HF	P X750 + THERMICULITE 835	P RING TYPE JOINT (RTJ)	P
Q	B564-N04400	18	ALLOY 20	HF	HF	Q ALLOY 20	Q HF	Q METAL OCTAGONAL RING	Q RING TYPE JOINT (RTJ)	Q
R	A182-F304DC	12	F51	F51	HF	R F51	R HF	R 316 + TFE	R RING TYPE JOINT (RTJ)	R
S	A105 <sup>2</sup>	5	316	316	HF	S 316	S HF	S 304L + GRAPHITE	S RING TYPE JOINT (RTJ)	S
T	A350-LF2, CL.1 <sup>3</sup>	5	410	HF	HF	T 410	T HF	T 304L + TFE	T RING TYPE JOINT (RTJ)	T
U	A350-LF2, CL.1 <sup>3</sup>	5	F53	HF	HF	U F53	U HF	U 304L + GRAPHITE	U RING TYPE JOINT (RTJ)	U
V	A182-F304H	16	304H	304H	HF	V 304H	V HF	V 304L + GRAPHITE	V RING TYPE JOINT (RTJ)	V
W	B564-N08825	16	316	HF	HF	W 316	W HF	W GARLOCK - GRAPHITE W/ CERAMIC RING	W RING TYPE JOINT (RTJ)	W
X	A182-F53	16	HAST - C276	HAST - C276	HF	X HAST - C276	X HF	X MONEL + TFE	X RING TYPE JOINT (RTJ)	X
Y	A105 <sup>2</sup>	16	304H	HF	HF	Y 304H	Y HF	Y MONEL + TFE	Y RING TYPE JOINT (RTJ)	Y
Z	***	***	***	***	***	Z ***	Z ***	Z ***	Z RING TYPE JOINT (RTJ)	Z ***

\*\*\* For materials not listed above: Smith offers all materials of construction listed in Table 1 of the latest edition of ASME B16.34. Figure Number designation shall be assigned during order placement. Refer to Section 6.0 of EDC 101 for Z number details.

**NOTES:**

- For ASTM material specification, refer to EDC 001 for body/bonnet, EDC 006 for stem, EDC 005 for wedge/disc, EDC 004 for packing, EDC 011 for spring, EDC 003 for gasket, and EDC 013 for Bellows.
- For A105 Body/Bonnet/Cover use O for Standard service, S for HF acid service, and Y for NACE service.
- For A350-LF2, Cl. 1 Body/Bonnet/Cover use T for Standard service, and U for NACE service.
- For all welded valves, use "O" for the gasket code.
- Wedges/discs base material shall be compatible with the pressure/temperature rating and at least equal in corrosion resistance as the body material.
- For spring loaded check valves only, the third digit of the material option code will represent the spring material. The letter "O" may be used for 302 or 316L stainless steel springs. 316L stainless springs will only be used if valve body/bonnet or trim is stainless steel.
- HF = Stellite hardfaced overlay. For seats and wedges/discs where weld deposited facings are used, the base material is equal to the stem material or at least equal in corrosion resistance as the body material.
- For Bellows Seal valves only, Bellows material code shall be added to the valve figure number.
- The grouping may be prefixed by "CE" to indicate compliance with the European Commission Pressure Equipment Directive 2014/68/EU.
- The grouping may also be suffixed with a process code which will be separated from the rest of the valve figure number by a hyphen (-).