



FORGED CHECK VALVES

SWING / PISTON / Y-PATTERN



www.smithvalves.com

A REPUTATION FOR QUALITY AND SERVICE
THAT HAS BEEN **FORGED** OVER A SOLID
HALF CENTURY...



CONTENTS

01

02

03

04

05

06

07

08

09





OUR STORY

1956

THE BEGINNING

Smith Valves was founded by James Dewolf Smith in 1956 to produce forged gate, globe, and check valves for use primarily in the petrochemical industry. By the mid-1970s, the company had become one of the industry's largest producers of industrial gate, globe, check and ball valves under the 2.5" size. Soon thereafter, exotic stainless and alloy components were added to the product line.

2011

THE END OF AN ERA

In March of 2000, the Newdell Company bought Smith and moved production to Italy. Six years later operations returned to the United States in Houston, Texas. In 2011, ERIKS acquired the Newdell Company as part of its strategy to build a comprehensive platform for flow technology in North America. CNC Flow Control was created in 2017 as part of this initiative and Smith became a brand under the CNC Flow Control Group.

2020

NEW BEGINNINGS

In October 2020, Smith Valves Company, LLC purchased the trademarks and all assets related to Smith Valves from CNC Flow Control. Smith continues its customer-driven focus as a globally approved brand with a proven reputation of excellence in quality and service.



**GATE • GLOBE • CHECK •
BELLOW SEAL • CRYOGENIC
• Y-PATTERN**

FORGED STEEL

**THREADED ENDS
SOCKETWELD ENDS
FLANGED ENDS
BUTTWELD ENDS**

**RIISING HANDWHEEL
NON-RIISING HANDWHEEL**

SOLID WEDGE DISC

FLEX WEDGE DISC

SPLIT WEDGE DISC

PLUG DISC

TEFLON DISC

**½"–3"
CL150 — CL4500**

**CARBON STEEL
STAINLESS STEEL
ALLOY 20 • DUPLEX
HIGH NICKEL ALLOY
TITANIUM • ZIRCONIUM**

FORGED VALVES

Smith Valves is one of the oldest valve brands for API 602 forged steel valves in the industry today. Producing a broad range of gate, globe and check valves utilized in the oil and gas, refinery, petrochemical and many other industries throughout the world, Smith delivers!



HANDWHEEL COLOR CODING

Unique color coding for gate & globe valves. Handwheel color indicates body-bonnet material or special packing.

BLUE ASTM A105 Carbon Steel
WHITE ASTM 182 F5 5 Cr, 1/2 Mo
PURPLE MONEL
YELLOW ASTM A182 F11 1 1/4, Cr, 1/2 Mo
GREEN ASTM 182 F9 9 Cr, 1 Mo
ORANGE ASTM A350 LF2 Low Temp
PINK F20 (ALLOY 20)
SILVER ASTM A182 F316 ASTM A182 F316L 316 SS
BROWN ASTM A182 F22 2 1/2 Cr, 1 Mo
RED Teflon Packing Gaskets or Seals 500F/250C Max Temp



Stainless steel nameplate color indicates trim material (gate, globe, check)



13 Cr Stainless
Soft Stem, Wedge &
Seats per NACE



316 Stainless Steel Trim



Standard 13 Cr Trim,
Stem, Wedge
Hard-Faced Seat Rings



Special Trim



Monel Trim

CHECK VALVE PORTFOLIO



PISTON CHECK

Styles: 0C80/SC80, 0C87/SC87, 0C81/SC81, 0C83/SC83, 0C86/SC86, 0C89/SC89, C150/C157, SC15/SC17

Smith Forged Gate Valves feature an outside stem and yoke (OS&Y), are available in Class 150-2500, and have conventional or full ports with either threaded, socketweld, buttweld or RF ends. All are manufactured in accordance with API 602 and ASME B16.34 standards.



BALL CHECK

Styles: 0B80/SB80, 0B87/SB87, 0B81/SB81, 0B83/SB83, 0B86/SB86, 0B89/SB89, B150/B157, SB15/SB17

Smith Extended Body Gate Valves feature an outside stem and yoke (OS&Y), are available in Class 800 and have conventional ports with female NPT x buttweld reinforced extended ends. All are manufactured in accordance with API 602 and ASME B16.34 standards.



SWING CHECK

Styles: SW80, SW81, SW83, SW86

Smith Cryogenic Gate Valves feature an outside stem and yoke (OS&Y), are available in Class 150-800 with conventional ports and either threaded, socketweld or RF ends. All are manufactured in accordance with API 602 and ASME B16.34 standards.



Y-PATTERN CHECK

Styles: YC80/YC87, YB80/YB87, YC15/YC17, YB15/YB17, YC16, YC26

Smith Cryogenic Gate Valves feature an outside stem and yoke (OS&Y), are available in Class 150-800 with conventional ports and either threaded, socketweld or RF ends. All are manufactured in accordance with API 602 and ASME B16.34 standards.

OB80
SB80
0380
SC80

DIMENSIONAL DATA

Bolted Cap, Horizontal, Ball, Piston, Swing Type

Sizes: 1/4" - 2"

Pressure Class: 800

End Connections - Threaded or Socketweld



OB80 CLASS 800 BOLTED CAP BALL TYPE CHECK
THREADED or SOCKETWELD - INCHES

VALVE SIZE NPS (DIN)	END TO END	CENTER TO TOP (OPEN)	PORT DIAM- ETER	APROX. WEIGHT LBS (KG)
1/4	3.25	2.00	0.25	2.5
3/8	3.25	2.00	0.25	2.5
1/2	3.25	2.00	0.38	2.3
3/4	3.50	2.25	0.50	3.3
1	4.50	2.25	0.75	5.0
1 1/4	6.25	2.88	1.00	10.5
1 1/2	6.25	2.88	1.19	10.0
2	7.25	3.56/2.5	1.44	18.2

SB80 CLASS 800 BOLTED CAP BALL TYPE CHECK
THREADED or SOCKETWELD - INCHES

VALVE SIZE NPS (DIN)	END TO END	CENTER TO TOP (OPEN)	PORT DIAM- ETER	APROX. WEIGHT LBS (KG)
1/4	3.25	2.00	0.25	2.5
3/8	3.25	2.00	0.25	2.5
1/2	3.25	2.00	0.38	2.3
3/4	3.50	2.25	0.50	3.3
1	4.50	2.25	0.75	5.0
1 1/4	6.25	2.88	1.00	10.5
1 1/2	6.25	2.88	1.19	10.0
2	7.25	3.56	1.44	18.2

**OC80 CLASS 800 BOLTED BONNET CAP PISTON TYPE CHECK
- THREADED or SOCKETWELD - INCHES**

VALVE SIZE NPS (DIN)	END TO END	CENTER TO TOP (OPEN)	PORT DIAM- ETER	APROX. WEIGHT LBS (KG)
1/4	3.25	2.00	0.25	2.5
3/8	3.25	2.00	0.25	2.5
1/2	3.25	2.00	0.38	2.3
3/4	3.50	2.25	0.50	3.3
1	4.50	2.25	0.75	5.0
1 1/4	6.25	2.88	1.00	10.5
1 1/2	6.25	2.88	1.19	10.0
2	7.25	3.56	1.44	18.2

**SC80 CLASS 800 BOLTED BONNET CAP SPRING PISTON TYPE
CHECK - THREADED or SOCKETWELD - INCHES**

VALVE SIZE NPS (DIN)	END TO END	CENTER TO TOP (OPEN)	PORT DIAM- ETER	APROX. WEIGHT LBS (KG)
1/4	3.25	2.00	0.25	2.5
3/8	3.25	2.00	0.25	2.5
1/2	3.25	2.00	0.38	2.3
3/4	3.50	2.25	0.50	3.3
1	4.50	2.25	0.75	5.0
1 1/4	6.25	2.88	1.00	10.5
1 1/2	6.25	2.88	1.19	10.0
2	7.25	3.56	1.44	18.2

**B150
SB150
C150
SC15**

DIMENSIONAL DATA

Bolted Cap, Horizontal, Ball & Piston

Sizes: 1/4" - 2"

Pressure Class: 800

End Connections - Threaded or Socketweld



CLASS 1500 BOLTED CAP BALL TYPE CHECK - THREADED or SOCKETWELD - INCHES

VALVE SIZE NPS (DIN)	END TO END	CENTER TO TOP (OPEN)	PORT DIAM- ETER	APROX. WEIGHT LBS (KG)
1/4	3.50	2.38	0.25	4.8
3/8	3.50	2.38	0.25	4.8
1/2	3.50	2.38	0.38	4.5
3/4	4.50	2.44	0.50	7.0
1	6.25	3.13	0.75	12.8
1 1/4	7.25	3.94	1.00	22.5
1 1/2	7.25	3.94	1.19	22.2
2	7.25	4.50	1.44	26.5

CLASS 1500 BOLTED CAP PISTON TYPE CHECK - THREADED or SOCKETWELD - INCHES

VALVE SIZE NPS (DIN)	END TO END	CENTER TO TOP (OPEN)	PORT DIAM- ETER	APROX. WEIGHT LBS (KG)
1/4	3.50	2.38	0.25	4.8
3/8	3.50	2.38	0.25	4.8
1/2	3.50	2.38	0.38	4.5
3/4	4.50	2.44	0.50	7.0
1	6.25	3.13	0.75	12.8
1 1/4	7.25	3.94	1.00	22.5
1 1/2	7.25	3.94	1.19	22.2
2	7.25	4.50	1.44	26.5

YB80 YB80

DIMENSIONAL DATA

Bolted Cap, Y-Pattern, Horizontal, Ball & Piston Type

Sizes: 1/2" - 2"

Pressure Class: 800

End Connections - Threaded or Socketweld

CLASS 800 Y-PATTERN BALL TYPE CHECK - THREADED or SOCKETWELD - INCHES

VALVE SIZE NPS (DIN)	END TO END	CENTER TO TOP (OPEN)	PORT DIAM- ETER	APROX. WEIGHT LBS (KG)
1/2	4.17	3.46	0.38	3.9
3/4	4.17	3.46	0.50	3.9
1	4.72	3.98	0.69	6.2
1 1/2	5.98	4.88	1.12	11.7
2	7.09	5.59	1.38	18.7

CLASS 800 Y-PATTERN PISTON TYPE CHECK - THREADED or SOCKETWELD - INCHES

VALVE SIZE NPS (DIN)	END TO END	CENTER TO TOP (OPEN)	PORT DIAM- ETER	APROX. WEIGHT LBS (KG)
1/2	4.17	3.46	0.38	3.9
3/4	4.17	3.46	0.50	3.9
1	4.72	3.98	0.69	6.2
1 1/2	5.98	4.88	1.12	11.7
2	7.09	5.59	1.38	18.7

OC81
SC81
OC83
SC83
OC86

DIMENSIONAL DATA

Bolted Cap, Horizontal, Ball & Piston

Sizes: 1/2" - 2"

Pressure Class: 150/300/600

End Connections - Threaded or Socketweld



OC81 CLASS 150 BOLTED CAP PISTON TYPE CHECK - FLANGED ENDS - INCHES

VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DI- AMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	4.25	1.88	0.38	3.54	1.38	4	4.4
3/4	4.63	2.00	0.50	3.94	1.69	4	5.5
1	5.00	2.56	0.69	4.25	2.00	4	8.8
1 1/2	6.50	2.94	1.19	5.00	2.88	4	17.6
2	8.00	3.75	1.44	6.00	3.63	4	25.4

SC81 CLASS 150 BOLTED CAP SPRING PISTON TYPE CHECK - FLANGED ENDS - INCHES

VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DI- AMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	4.25	1.88	0.38	3.54	1.38	4	4.4
3/4	4.63	2.00	0.50	3.94	1.69	4	5.5
1	5.00	2.56	0.69	4.25	2.00	4	8.8
1 1/2	6.50	2.94	1.19	5.00	2.88	4	17.6
2	8.00	3.75	1.44	6.00	3.63	4	25.4

OC83 CLASS 300 BOLTED CAP PISTON TYPE CHECK - FLANGED ENDS - INCHES

VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DIAMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	6.00	2.00	0.38	3.75	1.38	4	5.8
3/4	7.00	2.25	0.50	4.63	1.69	4	9.5
1	8.00	2.63	0.75	4.92	2.00	4	13.3
1 1/2	9.00	3.69	1.19	6.13	2.88	4	28.8
2	10.50	4.25	1.44	6.50	3.63	8	37.0

SC83 CLASS 300 BOLTED CAP SPRING PISTON TYPE CHECK - INCHES

VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DIAMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	6.00	2.00	0.38	3.75	1.38	4	5.8
3/4	7.00	2.25	0.50	4.63	1.69	4	9.5
1	8.00	2.63	0.75	4.92	2.00	4	13.3
1 1/2	9.00	3.69	1.19	6.13	2.88	4	28.8
2	10.50	4.25	1.44	6.50	3.63	8	37.0

OC86 CLASS 300 BOLTED CAP PISTON TYPE CHECK - FLANGED ENDS - INCHES

VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DIAMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	6.50	2.00	0.38	3.75	1.38	4	6.3
3/4	7.50	2.25	0.50	4.63	1.69	4	10.5
1	8.50	2.63	0.75	4.94	2.00	4	13.5
1 1/2	9.50	3.69	1.19	6.13	2.88	4	29.5
2	11.50	4.25	1.44	6.50	3.63	8	43.5

SC86 CLASS 300 BOLTED CAP SPRING PISTON TYPE CHECK - FLANGED ENDS - INCHES

VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DIAMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	6.50	2.00	0.38	3.75	1.38	4	6.3
3/4	7.50	2.25	0.50	4.63	1.69	4	10.5
1	8.50	2.63	0.75	4.94	2.00	4	13.5
1 1/2	9.50	3.69	1.19	6.13	2.88	4	29.5
2	11.50	4.25	1.44	6.50	3.63	8	43.5

OB81
SB81
OB83
SB83
OB86

DIMENSIONAL DATA

Bolted Cap, Horizontal, Ball & Piston

Sizes: 1/2" - 2"

Pressure Class: 150/300/600

End Connections - Threaded or Socketweld



OB81 CLASS 150 BOLTED CAP BALL TYPE CHECK VALVE - FLANGED ENDS - INCHES

VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DIAMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	4.25	1.88	0.38	3.54	1.38	4	4.4
3/4	4.63	2.00	0.50	3.94	1.69	4	5.5
1	5.00	2.56	0.69	4.25	2.00	4	8.8
1 1/2	6.50	2.94	1.19	5.00	2.88	4	17.6
2	8.00	3.75	1.44	6.00	3.63	4	25.4

SB81 CLASS 150 BOLTED CAP SPRING BALL TYPE CHECK VALVE - FLANGED ENDS - INCHES

VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DIAMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	4.25	1.88	0.38	3.54	1.38	4	4.4
3/4	4.63	2.00	0.50	3.94	1.69	4	5.5
1	5.00	2.56	0.69	4.25	2.00	4	8.8
1 1/2	6.50	2.94	1.19	5.00	2.88	4	17.6
2	8.00	3.75	1.44	6.00	3.63	4	25.4

OB83 CLASS 300 BOLTED CAP BALL TYPE CHECK VALVE - FLANGED ENDS - INCHES							
VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DI-AMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	6.00	2.00	0.38	3.75	1.38	4	5.8
3/4	7.00	2.25	0.50	4.63	1.69	4	9.5
1	8.00	2.63	0.75	4.92	2.00	4	13.3
1 1/2	9.00	3.69	1.19	6.13	2.88	4	28.8
2	10.50	4.25	1.44	6.50	3.63	8	37.0

SB83 CLASS 300 BOLTED CAP SPRING BALL TYPE CHECK VALVE - FLANGED ENDS - INCHES							
VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DI-AMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	6.00	2.00	0.38	3.75	1.38	4	5.8
3/4	7.00	2.25	0.50	4.63	1.69	4	9.5
1	8.00	2.63	0.75	4.92	2.00	4	13.3
1 1/2	9.00	3.69	1.19	6.13	2.88	4	28.8
2	10.50	4.25	1.44	6.50	3.63	8	37.0

OB86 CLASS 600 BOLTED CAP BALL TYPE CHECK VALVE - FLANGED ENDS - INCHES							
VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DI-AMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	6.50	2.00	0.38	3.75	1.38	4	6.3
3/4	7.50	2.25	0.50	4.63	1.69	4	10.5
1	8.50	2.63	0.75	4.94	2.00	4	13.5
1 1/2	9.50	3.69	1.19	6.13	2.88	4	29.5
2	11.50	4.25	1.44	6.50	3.63	8	43.5

SB86 CLASS 600 BOLTED CAP SPRING BALL TYPE CHECK VALVE - FLANGED ENDS - INCHES							
VALVE SIZE NPS (DIN)	FACE TO FACE	CENTER TO TOP (OPEN)	PORT DI-AMETER	FLANGE DIAMETER	RAISED DIAMETER	BOLT HOLE	APPROX. WEIGHT LBS
1/2	6.50	2.00	0.38	3.75	1.38	4	6.3
3/4	7.50	2.25	0.50	4.63	1.69	4	10.5
1	8.50	2.63	0.75	4.94	2.00	4	13.5
1 1/2	9.50	3.69	1.19	6.13	2.88	4	29.5
2	11.50	4.25	1.44	6.50	3.63	8	43.5

Part Numbering System

Valve Material Option Codes

(PREFIX) + STYLE CODE + MATERIAL SELECTION PER TABLE BELOW

C E B 8 0 0 O S O

	BODY/BONNET COVER	API TRIM #	TRIM MATERIAL			PACKING	SPRING ⁶
			STEM	WEDGE/DISC ⁷	SEAT ⁷		
A	A182-F51	A	10	316	316	A	GRAPHITE V-RINGS
B	A182-F347	B	11	MONEL	MONEL	B	
C	A182-F5	C		MONEL K500	MONEL	C	CHESTERTON 1600
D	A182-F316H	D	9	MONEL NACE	MONEL NACE	D	
E	B564-N10276	E		INCONEL 625	HF	E	GARLOCK EVSP 9000
F	B462-N08020	F	13	ALLOY 20	ALLOY 20	F	
G	A182-F9	G		317L	317L	G	
H	A182-F321	H		347H	HF	H	
I	A182-F347H	I		347H	347H	I	INCONEL X-750 ⁶
J	A182-F316DC	J		316H	316H	J	
K	A182-F11, CL.2	K		410 NACE	420 NACE	K	
L	A182-F317DC	L		321	HF	L	
M	B564-N06625	M		316H	HF	M	BRAIDED TFE
N	A182-F22, CL.3	N		304L	304L	N	
O	A105 ²	O	8	410	420	O	GRAPHITE W/BRAIDED ENDS ⁶ 302/316L ⁶
P	A182-F91	P		INCOLOY 825	HF	P	
Q	B564-N04400	Q	18	ALLOY 20	HF	Q	
R	A182-F304DC	R		F51	F51	R	
S	A105 ²	S	12	316	316	S	SLADE 3300G
T	A350-LF2, CL.1 ³	T	5	410	HF	T	
U	A350-LF2, CL.1 ³	U		F53	HF	U	
V	A182-F304H	V		304H	304H	V	TFE V-RINGS VACUUM
W	B564-N08825	W	16	316	HF	W	GARLOCK - GRAPHITE W/ CERAMIC RING
X	A182-F53	X		HAST - C276	HAST - C276	X	TFE V-RINGS
Y	A105 ²	Y		304H	HF	Y	
Z	***	Z	***	***	***	Z	***

1. For ASTM material specification, refer to EDC 001 for body/bonnet, EDC 006 for stem, EDC 005 for wedge/disc, EDC 004 for seat, EDC 019 for packing, EDC 011 for spring

2. For A105 Body/Bonnet/Cover use O for Standard service, S for HF acid service, and Y for NACE service.

3. For A350-LF2, Cl. 1 Body/Bonnet/Cover use T for Standard service, and U for NACE service.

4. For all welded valves, use "O" for the gasket code.

5. Wedges/discs base material shall be compatible with the pressure/temperature rating and at least equal in corrosion resistance as the body material.

6. 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

+ VALVE SIZE - MANUFACTURING CODE (SUFFIX)

G W 1 0 0 - # # # #

GASKET		END CONNECTIONS		SIZE		MODIFICATION CODE ¹⁰	
A	INCOLOY 825 + GRAPHITE	A	BWE SCH. 10	025	1/4 NPS / 8 DN	0A00	Bellows: 304
B	INCONEL 600/X750 + GRAPHITE	B	BWE SCH.20	037	3/8 NPS / 10 DN	0B00	Bellows: 304L
C		C	BWE SCH. 40	050	1/2 NPS / 15 DN	0C00	Bellows: 316
D	INCONEL 600/X750 + TFE	D	BWE SCH. 80	075	3/4 NPS / 20 DN	0D00	Bellows: 316L
E		E	BWE SCH.100	100	(1 NPS / 25 DN	0E00	Bellows: 321
F	ALLOY 20 + GRAPHITE	F	BWE SCH.160	125	1 1/4 NPS 40 DN	0F00	Bellows: 347
G	316 + GRAPHITE	G	BWE SCH. 180	150	1 1/2 / 40 DN	0G00	Bellows: Inconel 625
H	HAST - C276 + GRAPHITE	H	BWE SCH. XXS	200	2 NPS / 50 DN	0H00	Bellows: Monel 400
I	347H + GRAPHITE	I		300	3 NPS / 80 DN)	000B	Special Clean (oxygen cleaned)
J		J	RING TYPE JOINT (RTJ)			000G	Gear operated
K		K				000H	RF to FF conversion
L	317L + GRAPHITE	L				000K	Actuator Operated
M	MONEL + GRAPHITE	M				000L	Live Loaded Packing
N		N				000M	Acid Shield
O	316/316L + GRAPHITE OR NO GASKET ⁴	O	F- NPT THD RAISED FACE MALE EXTENSIONS			000R	RT 100% Critical Area
P	X750 + THERMICULITE 835	P	PLAIN END FLANGE			000T	Vented Wedge & Gear Operator
Q		Q	BRITISH (ISO 228) PARALLEL THD			000V	Vented Wedge
R		R	SW X REDUCED NPT			000W	Chain Wheel Operated
S	METAL OCTAGONAL RING	S	NPT x REDUCED NPT			000X	Xylan Coated Fasteners
T	316 + TFE	T				00AA	Trim: Inconel 625 Stem with Full Stellite 6 Seats and Wedge
U	304 + TFE	U	SOCKETWELD X F-NPT			00AB	***
V	304L + GRAPHITE	V				00AC	***
W		W	SOCKETWELD (SW)			00AD	***
X	MONEL + TFE	X				00AE	***
Y		Y	F-NPT X BUTTWELD			00AF	***
Z	***	Z	***			00AG	***

7. 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

8. The grouping may be prefixed by "CE" to indicate compliance with the European Commission Pressure Equipment Directive 2014/68/EU.

9. The grouping may also be suffixed with a MANUFACTURING CODE, for special requests which will be separated from the rest of the valve figure number by a hyphen (-).