

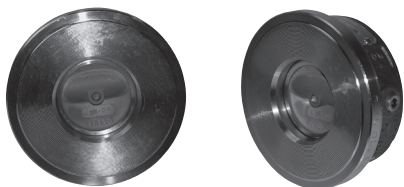
CHEXTER® Check Valve

The CHEXTER® Check Valves are designed to be used economically in a variety of commercial and industrial applications - including commercial construction, industrial, marine, utilities and process industries.

CHEXTER® Check valves meet the requirements of, and are approved for use by:

- General Services Administration
- U.S. Navy, the U.S. Coast Guard, U.S. Air Force and NASA
- Utility industry requirements for performance-Water, gas and compressed air lines

The CHEXTER® Check valve may be outfitted in a broad combination of metal trims allowing quick selection of the right valve for your application.



Model 1600-D

Class 125

Cast Iron body/Buna-N-Seal

Facing: Flat Face Flange Disc: 316SS

- Size: 2" - 36" (50 - 900mm)
- 2" - 12" 200psi WOG @ 150°F
(50 - 300mm) 14 bar @ 66°C
- 14" - 24" 150psi WOG @ 150°F
(350 - 600mm) 10 bar @ 66°C
- 30" & Up 150psi WOG @ 150°F
900mm 10 bar @ 66°C

Model 1600-DE

Class 125

Cast Iron body/Buna-N-Seal

Facing: Flat Face Flange Disc: Alum-Brz

- Size: 2" - 36" (50 - 900mm)
- 2" - 12" 200psi WOG @ 150°F
(50 - 300mm) 14 bar @ 66°C
- 14" - 24" 150psi WOG @ 150°F
(350 - 600mm) 10 bar @ 66°C
- 30" & Up 150psi WOG @ 150°F
900mm 10 bar @ 66°C



Model 1602-D

Class 250

Cast Iron body/Buna-N-Seal

Facing: Raised Flange Disc: Ductile Iron

- Size: 2" - 30" (50 - 760mm)
- 2" - 12" 500psi WOG @ 150°F
(50 - 300mm) 34 bar @ 66°C
- 14" - 24" 300psi WOG @ 150°F
(350 - 600mm) 21 bar @ 66°C
- 30" 300psi WOG @ 150°F
900mm 21 bar @ 66°C

Model 1602-DE

Class 250

Cast Iron body/Buna-N-Seal

Facing: Raised Flange Disc: Alum Brz

- Size: 2" - 24" (50 - 600mm)
- 2" - 12" 500psi WOG @ 150°F
(50 - 300mm) 34 bar @ 66°C
- 14" - 24" 300psi WOG @ 150°F
(350 - 600mm) 21 bar @ 66°C



Model 1601-A

Class 150

Carbon Steel body/Buna-N-Seal

Facing: Raised Flange Disc: Ductile Iron

- Size: 2" - 30" (50 - 750mm)
- 285psi WOG @ 100°F
- 20 bar @ 38°C

Model 1601-AC

Class 150

Carbon Steel body/Teflon Seal

Facing: Raised Flange Disc: 316SS

- Size: 2" - 30" (50 - 750mm)
- 285psi WOG @ 100°F
- 20 bar @ 38°C

Model 1601-AF

Class 150

Carbon Steel body/Metal-to-metal Seal

Facing: Raised Flange Disc: 316SS

- Size: 2" - 30" (50 - 750mm)
- 285psi WOG @ 100°F
- 20 bar @ 38°C

Model 1601-C

Class 150

316 SS body/Teflon Seal

Facing: Raised Flange Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 275psi WOG @ 100°F
- 19 bar @ 38°C

Model 1601-E

Class 150

Aluminum bronze body/Teflon Seal

Facing: Raised Flange Disc: Alum-Brz

- Size: 2" - 12" (50 - 300mm)
- 195psi WOG @ 100°F
- 13 bar @ 38°C

CHEXTER® Check Valve

Model 1603-A

Class 300

Carbon Steel Body/Buna-N-Seal
Facing: Raised Flange Disc: Ductile Iron

- Size: 2" - 24" (50 - 600mm)
- 740psi WOG @ 100°F
- 51 bar @ 38°C

Model 1603-AC

Class 300

Carbon Steel Body/Teflon Seal
Facing: Raised Flange Disc: 316SS

- Size: 2" - 24" (50 - 600mm)
- 740psi WOG @ 100°F
- 51 bar @ 38°C

Model 1603-AF

Class 300

Carbon Steel Body/Metal-to-Metal Seal
Facing: Raised Flange Disc: 316SS

- Size: 2" - 24" (50 - 600mm)
- 740psi WOG @ 100°F
- 51 bar @ 38°C

Model 1603-C

Class 300

316 SS Body/Teflon Seal
Facing: Raised Flange Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 720psi WOG @ 100°F
- 50 bar @ 38°C

Model 1603-E

Class 300

Aluminum Bronze Body/Teflon Seal
Facing: Raised Flange Disc: Alum-Brz

- Size: 2" - 12" (50 - 300mm)
- 515psi WOG @ 100°F
- 36 bar @ 38°C

Model 1604-A

Class 400

Carbon Steel Body/Buna-N-Seal
Facing: Raised Flange Disc: Ductile Iron

- Size: 2" - 24" (50 - 600mm)
- 990psi WOG @ 100°F
- 68 bar @ 38°C

Model 1605-A

Class 300

Carbon Steel Body/Buna-N-Seal
Facing: Raised Flange Disc: Ductile Iron

- Size: 2" - 24" (50 - 600mm)
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

Model 1605-AC

Class 600

Carbon Steel Body/Teflon Seal
Facing: Raised Flange Disc: 316SS

- Size: 2" - 24" (50 - 600mm)
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

Model 1605-AF

Class 600

Carbon Steel Body/Metal-to-Metal Seal
Facing: Raised Flange Disc: 316SS

- Size: 2" - 24" (50 - 600mm)
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

Model 1605-C

Class 600

316 SS Body/Teflon Seal
Facing: Raised Flange Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 1480psi WOG @ 100°F
- 99 bar @ 38°C

Model 1606-A

Class 900

Carbon Steel Body/Buna-N-Seal
Facing: Raised Flange Disc: Ductile Iron

- Size: 2" - 12" (50 - 300mm)
- 2120psi WOG @ 100°F
- 146 bar @ 38°C

Model 1606-AC

Class 900

Carbon Steel Body/Teflon Seal
Facing: Raised Flange Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 2120psi WOG @ 100°F
- 146 bar @ 38°C

Model 1606-AF

Class 900

Carbon Steel Body/Metal-to-Metal Seal
Facing: Raised Flange Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 2120psi WOG @ 100°F
- 146 bar @ 38°C

Model 1606-C

Class 900

316 SS Body/Teflon Seal
Facing: Raised Flange Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 2010psi WOG @ 100°F
- 139 bar @ 38°C

How to Order CHEXTER® Check Valve

Size 2" - 30" Pressure Class 150 - 900# Figure 16 = CHEXTER Check Valve 0 - Raised Face Flange Facing 4- Ring Joint Flange Facing Pressure Class 1 - Class 150 3 - Class 300" 5 - Class 600 6 - Class 900 7 - Class 1500	Standard CHEXTER Materials "A" - Carbon Steel Body/BUNA-N Seal "AC" - Carbon Steel Body/TEFLON Seal "AF" - Carbon Steel Body/Metal to Metal Seal "C" - 316SS Body/TEFLON Deals "D" - Cast Iron Body/BUNA-N Seal "DE" - Cast Iron Body/BUNA-N Seal "E" - Aluminum Bronze Body/TEFLON Seal	Abbreviation CHEXTER Check Valve Last 11 Spaces Miscellaneous Information (ie: Material Type, Spft/Hard Seat, etc.)
---	--	---

CHEXTER® Check Valve

Model 1645-A

Class 600

Carbon Steel Body/Buna-N-Seal
Facing: Ring Type Joint Disc: Ductile Iron

- Size: 2" - 12" (50 - 300mm)
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

Model 1645-AC

Class 600

Carbon Steel Body/Teflon Seal
Facing: Ring Type Joint Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

Model 1645-AF

Class 600

Carbon Steel Body/Metal-to-Metal Seal
Facing: Ring Type Joint Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

Model 1645-C

Class 600

316 SS Body/Teflon Seal
Facing: Ring Type Joint Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 1440psi WOG @ 100°F
- 99 bar @ 38°C

Model 1646-A

Class 900

Carbon Steel Body/Buna-N-Seal
Facing: Ring Type Joint Disc: Ductile Iron

- Size: 2" - 12" (50 - 300mm)
- 2120psi WOG @ 100°F
- 146 bar @ 38°C

Model 1646-AC

Class 900

Carbon Steel Body/Teflon Seal
Facing: Ring Type Joint Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 2120psi WOG @ 100°F
- 146 bar @ 38°C

Model 1646-AF

Class 900

Carbon Steel Body/Metal-to-Metal Seal
Facing: Ring Type Joint Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 2120psi WOG @ 100°F
- 146 bar @ 38°C

Model 1646-C

Class 900

316 SS Body/Teflon Seal
Facing: Ring Type Joint Disc: 316SS

- Size: 2" - 12" (50 - 300mm)
- 2120psi WOG @ 100°F
- 146 bar @ 38°C

Model 1696-A

Class 2000 Lb. API WOG

Carbon Steel Body/Buna-N-Seal
Facing: Ring Type Joint Disc: Ductile Iron
Unibody Style

- Size: 2" - 4" (50 - 100mm)
- 2000psi WOG @ 100°F
- 138 bar @ 38°C

Model 1607-A

Class 1500

Carbon Steel Body/Buna-N-Seal
Facing: Raised Flange Disc: Ductile Iron
Unibody Style

- Size: 2" - 10" (50 - 250mm)
- 3705psi WOG @ 100°F
- 255 bar @ 38°C

Model 1647-A

Class 1500

Carbon Steel Body/Buna-N-Seal
Facing: Ring Type Joint Disc: Ductile Iron
Unibody Style

- Size: 2" - 10" (50 - 250mm)
- 3705psi WOG @ 100°F
- 255 bar @ 38°C

Model 1697-A

Class 300 Lb. API WOG

Carbon Steel Body/Buna-N-Seal
Facing: Ring Type Joint Disc: Ductile Iron
Unibody Style

- Size: 2" - 4" (50 - 100mm)
- 3000psi WOG @ 100°F
- 207 bar @ 38°C

Silent Check Valves - Wafer Style

Lead Free*

Mueller Steam Specialty Silent Check Valves are designed with a spring assisted in-line disc that is guided both upstream and downstream. This design feature allows valve closure at zero flow. Flow reversal does not occur and check valve induced water hammer is eliminated.

The Mueller Wafer Silent Check Valve is designed with a short face-to-face dimension and fits conveniently between two matching flanges. Only a limited amount of space is needed for installation and installation time is reduced. The valves are used in a variety of liquid, air and gas applications. These units are available in cast iron, bronze, carbon steel, stainless steel and other alloys.

Standard Wafer



Model 101 MAT

Class 125

Cast Iron Body/Stainless Steel Trim

- Size: 1" - 10" (25 - 250mm)
- 200psi WOG @ 150°F
- 13 bar @ 65°C

Model 103 MAT

Class 250

Cast Iron Body/Stainless Steel Trim

- Size: 1" - 10" (25 - 600mm)
- 500psi WOG @ 150°F
- 34 bar @ 65°C

Model 101 MDT

Class 150

Carbon Steel Body/316 SS Trim

- Size: 1" - 10" (25 - 250mm)
- 285psi WOG @ 100°F
- 19 bar @ 38°C

Model 103 MDT

Class 300

Carbon Steel Body/316 SS Trim

- Size: 1 - 10" (25 - 250mm)
- 740psi WOG @ 100°F
- 51 bar @ 38°C

Model 131 DT

Class 600

Carbon Steel Body/316 SS Trim

- Size: 1" - 6" (25 - 150mm)
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

Model 101 MHT

Class 150

Carbon Steel Body/316 SS Trim

- Size: 1" - 10" (25 - 250mm)
- 275psi WOG @ 100°F
- 19 bar @ 38°C

Model 103 MHT

Class 300

Carbon Steel Body/316 SS Trim

- Size: 1" - 10" (25 - 250mm)
- 720psi WOG @ 100°F
- 49 bar @ 38°C

Model 131 HT

Class 600

Carbon Steel Body/316 SS Trim

- Size: 1" - 6" (25 - 150mm)
- 1440psi WOG @ 100°F
- 99 bar @ 38°C

Compact Wafer



Model 91AT

For use w/Class 125, 150, 250 or 300 flanges

Cast Iron Body/316 SS Trim

- Size: 1 ½" - 6" (40 - 150mm)
- 150psi WOG @ 150°F
- 10 bar @ 65°C

Model 92AT

For use w/Class 125 or 150 flanges

Cast Iron Body/Bronze Trim

- Size: 8" - 12" (200 - 300mm)

Silent Check Valves - Globe Style

Lead Free*

With the same design features as the wafer silent check valves, the Globe style valves offer a more streamlined flow and lower pressure drop figures.

The valves are designed for liquid, air and gas service* and are available in a complete range of sizes, body trim materials and pressure classes.

These valves are engineered to be partially open at 0.5psi and fully open at 1psi differential pressure at a liquid velocity of 8 feet per second.

Mueller Globe Style Silent Check Valves can be installed in horizontal or vertical flow. Each valve is 100% tested in accordance with ANSI, API and MSS standards

Globe Styles

NPT Type

Model 105 MAT

Class 125



Cast Iron Body/316 SS Trim

- Size: 2" - 24" (50 - 600mm)
- 2" - 12"
- 200psi WOG @ 150°F
13 bar @ 65°C
- 14" - 24"
- 150PSI WOG @ 150°F
10 Bar @ 65°C

Model 107 MAT

Class 250



Cast Iron Body/316 SS Trim

- Size: 2" - 24" (50 - 600mm)
- 2" - 12"
- 500 PSI WOG @ 150°F
34 Bar @ 65°C
- 14" - 24"
- 300PSI WOG @ 150°F
20 Bar @ 65°C

Model 105 MDT

Class 150

Carbon Steel Body/316 SS Trim

- Size: 2" - 30" (50 - 750mm)
- 285psi WOG @ 100°F
- 19 bar @ 38°C

Model 109 MDT

Class 300

Carbon Steel Body/316 SS Trim

- Size: 2" - 24" (50 - 600mm)
- 740psi WOG @ 100°F
- 51 bar @ 38°C

Model 113 DT

Class 600

Carbon Steel Body/316 SS Trim

- Size: 2" - 10" (50 - 250mm)
- 1480psi WOG @ 100°F
- 102 bar @ 38°C

Model 117 DT

Class 1500

Carbon Steel Body/316 SS Trim

- Size: 2" - 24" (50 - 600mm)
- 3705psi WOG @ 100°F
- 255 bar @ 38°C

Model 105 MHT

Class 150

316 SS Body/316 SS Trim

- Size: 2" - 30" (50 - 750mm)
- 275psi WOG @ 100°F
- 18 bar @ 38°C

Model 109 MHT

Class 300

316 SS Body/316 SS Trim

- Size: 2" - 24" (50 - 600mm)
- 720psi WOG @ 100°F
- 49 bar @ 38°C

Model 113 HT

Class 600

316 SS Body/316 SS Trim

- Size: 2" - 10" (50 - 250mm)
- 1440psi WOG @ 100°F
- 99 bar @ 38°C

Model 117 HT

Class 1500

316 SS Body/316 SS Trim

- Size: 2" - 24" (50 - 600mm)
- 3600psi WOG @ 100°F
- 248 bar @ 38°C

Model 303 AT

Class 250

Cast Iron Body/316 SS Trim

EPDM Soft Seat Option Available

- Size: ¼" - 2" (8 - 50mm)
- 200psi WOG @ 150°F
- 13 bar @ 65°C

Model 303 HT

Class 300

316 SS Body/316 SS Trim

Optional Viton® Soft Seat Available

- Size: ¼" - 2" (8 - 50mm)
- 600psi WOG @ 100°F
- 41 bar @ 38°C



* Do not use directly on discharge of reciprocating compressors.

Silent Check Valves

Lead Free*

How to Order

Model Numbers

These numbers describe valves furnished with standard trim. For any other type of trim refer to "Body Materials" table and "Trim Materials" table on this page. Substitute the correct letter indicating the trim materials which you require.

Body Material	Trim	ANSI Class	Compact Wafer Type	Full Face Wafer Type	Globe Type	NPT
Cast Iron	Stainless Steel	125	91AT*		105MAT	
Cast Iron	Stainless Steel	250			107MAT	303AT
Carbon Steel	Stainless Steel	150		101MDT	105MDT	
Carbon Steel	Stainless Steel	300		103MDT	109MDT	
Carbon Steel	Stainless Steel	600		131DT	113DT	
Carbon Steel	Stainless Steel	1500			117DT	
316 SS	Stainless Steel	150		101MHT	105MHT	
316 SS	Stainless Steel	300		103MHT	109MHT	303HT
316 SS	Stainless Steel	600		131HT	113HT	
316 SS	Stainless Steel	1500			117HT	

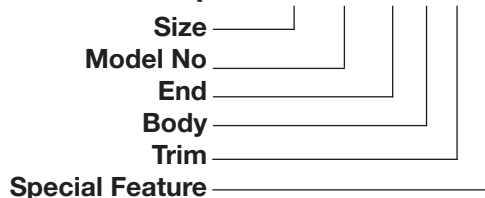
* Sizes 1½" - 6" (40 - 150mm)

+ Sizes 8" - 12" (200 - 300mm)

** DuPont Trademark

	Description	Code
Body Material	Cast Iron (Semi-Steel)	A
	Bronze, 85-5-5-5	B
	Bronze, "M" Metal	C
	Carbon Steel, Gr. WCB	D
	Carbon Moly, Gr. WCI	E
	Stainless, Type 410	F
	Stainless, Type 304	G
	Stainless, Type 316	H
	Ductile Iron	I
	Aluminum	J
	Other - Specify	X
Trim Material	Stainless, Type 410	R
	Stainless, Type 304	S
	Stainless, Type 316	T
	Monel	U
	Carbon Steel	V
	Other - Specify	X
Soft Seat available in EPDM, Buna-N and Viton®. Consult Factory.		

Model # Code Example 8 105 M D T X



Consult factory for all special features. If no special features are required use "O" in place of "X" in the ordering and tagging number.

Ordering Information

Important! To assist you in ordering the proper product for your application, the following information is necessary: operating pressure, temperature, flow rates and/or velocity and the type of service used.

Double Disc Check Valves - SURE CHECK®

Lead Free*

The unique torsion spring arrangement on this valve forces the heel of the discs against the seat for a complete seal. It also helps close the disc on flow stoppage, minimizing flow reversal and water hammer.

Elastomer seats for each disc are molded to the body allowing complete sealing. Metal-to-metal seating is also available on request. The dual shaft design provides a positive disc stop. This feature minimizes flutter and wear at the disc hinge and maximizes the life of the valve.

All steel, stainless steel and alloy models conform to API 594 and API 6D specifications. (Also available as LOCXEND. See pages 27 & 28)

The Sure Check valves are designed for horizontal and vertical flow applications. Units are available in cast iron, ductile iron, carbon steel, stainless steel and other alloys.

316 stainless steel disc is standard on all models with the exception of the 71U (UL certified) check valve.



Model 71

Class 125

Cast Iron Body/SS Disc

- Size: 2" - 54" (50 - 1350mm)
- 2" - 12" 200psi @ 150°F
- (50 - 300mm) 13 bar @ 65°C
- 14" - 54" 150psi @ 150°F
- (350 - 7350mm) 10 bar @ 65°C

Model 71U

Ductile Iron Body/Aluminum/Bronze Disc

U.L. FM Approved

- Size: 4" - 12" (100 - 300mm)
- 175psi WOG @ 150°F
- 12 bar @ 65°C

Model 72

Class 150

Bronze, 2" - 54" (50 - 1350mm)

Ductile Iron,
Carbon Steel, Stainless Steel Bodies Available

- Size: 2" - 56" (50 - 1400mm)
- 285psi WOG @ 100°F
- 19 bar @ 38°C

Model 74

Class 300

Bronze, Carbon Steel, Stainless Steel Bodies Available

- Size: 2" - 48" (50 - 1200mm)
- 740psi WOG @ 100°F
- 51 bar @ 38°C

Model 76

Class 600

Carbon Steel, Stainless Steel Bodies Available

- Size: 2" - 42" (50 - 1050mm)
- 1480psi @ 100°F
- 102 bar @ 38°C

Model 77

Class 900

Carbon Steel, Stainless Steel Bodies Available

- Size: 2" - 24" (50 - 600mm)
- 2220psi WOG @ 100°F
- 151 bar @ 38°C*

Model 78

Class 1500

Carbon Steel, Stainless Steel Bodies Available

- Size: 2" - 18" (50 - 450mm)
- 3705psi WOG @ 100°F
- 255 bar @ 38°C*

Model 79

Class 2500

Carbon Steel, Stainless Steel Bodies Available

- Size: 2" - 12" (50 - 300mm)
- 6170psi WOG @ 100°F
- 425 bar @ 38°C

*** Pressure-Temperature Rating for Carbon Steel Models only**

Consult factory for Stainless Steel or other materials.

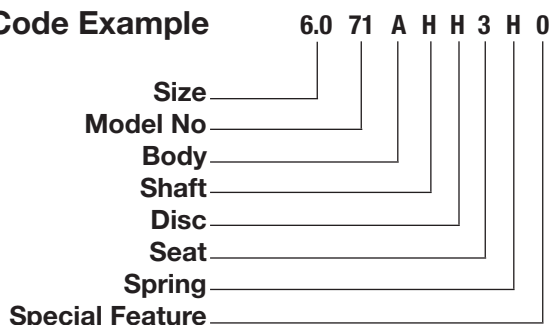
Double Disc Check Valves - SURE CHECK®

Lead Free*

Example

Six inch, Model 71, cast iron body, 316 SS shaft, ductile iron disc, Buna-N seat, 316 SS spring, no special features.

Model # Code Example



Consult factory for all special features. If no special features are required, use "O" in place of "X" in the ordering and tagging number.

Ordering Information

Important: To assist you in ordering the proper product for your application, the following information is necessary: operating pressure, temperature, flow rates and/or velocity and the type of service used.

Material Specifications

Body

Cast Iron ASTM A126-B (Semi-Steel)
Carbon Steel ASTM A216 WCB
316 SS (CF8M) ASTM A351
Bronze (85-5-5-5) ASTM B62
Aluminum ASTM B26-52T Gr. SG 70A
Ductile Iron ASTM A536

Shaft

316 SS ASTM A479
Monel ASTM B164

Discs

Ductile Iron ASTM A536
Bronze (85-5-5-5) ASTM B62
316 SS (CF8M) ASTM A351
Carbon Steel ASTM A216 WCB
Aluminum ASTM B26-52T Gr. SG 70A

Elastometer Seats

Buna-N
Neoprene
EPDM
Viton®

Special Features

Welded Metal Overlays
Micron Smooth Finished Ends
Ring Joint Ends
Epoxy Coated
Drain Connections

Consult Factory, we can overlay with weldable materials.

	Material	Code	Material	Code
Body	Carbon Steel	D	Bronze B-62	B
	Cast Iron	A	Aluminum	J
	316 SS	H	Ductile Iron	I
Shaft	316 SS	H	Monel	Q
Disc	Carbon Steel	D	316 SS	H
	Ductile Iron	I	Aluminum	J
	Bronze B-62	B	Overlay -See "Special Feature"	X
Seat	Buna-N (-20° TO 250° F)	3	Monel Overlay	Q
	Neoprene (-40° TO 250° F)	8	316L SS Overlay	T
	EPDM (-40° TO 300° F)	6	410 SS Overlay	F
	Viton®* (-20° TO 400° F)	4	Aluminum-Bronze Overlay	K
			Stellite #6 Overlay	V
Repeat Body Material code in this position for metal-to-metal seat without overlay.				
Spring	316 SS (up to 250° F)	H	Inconel 600 (up to 650° F)	W
	Inconel X (up to 1000° F)	X	Monel	Q