



# Body Material Definition for Check-All Valve Products

To determine the specific material definition, use the following procedure. This grid is the typical designation of body materials. Slight variations may occur due to raw material availability.

- 1) Note the material designation imprinted on the valve body or associated tag. The marking includes the valve style, size letter, and body material. Some examples include:
  - a) F1: F1JSS this means the size is 1-1/2" NPS (J = 1-1/2"), the style is F1 (Flange Insert Valve), it is designed for ANSI class 150 or 300 flanges, or similar and schedule 40 or lighter pipe and the body material code is SS.
  - b) U3: U3JSS this means the style is U3, the size is 1-1/2" NPS (J = 1-1/2", K = 2", etc.) and the body material code is SS.
- 2) Now check the material code in the valve marking in the following material definition table to determine the ASTM (American Society of Testing and Materials) material designation. The style size and material code will be needed to define the material. In general, the material codes are as follows:

A2 - Alloy 20	HB - Alloy B	PV - PVC
BR - Brass or Bronze	HC - Alloy C-276	SS - 316 Stainless Steel
CS - Carbon Steel	MO - MONEL® Alloy	TF - PTFE
		TI - Titanium

**NOTE:** The table below designates the material by valve body style and size range. Cast materials are shaded gray. (▲) Denotes on styles B4 and US only.

		BAR MATERIALS										CAST MATERIALS							
		ASTM B16 H02 TEMPER (C36000)	ASTM B473 (N08020)	ASTM A108 Gr 1215 (G12150)	ASTM A108 Gr 1018 (G10180)	ASTM B164 (N04400 or N04405)	ISO 1163-PVC-U, ED, 078-05-33	ASTM A479 Gr. 316/316L (S31600/S31603)	ASTM D1710 Type 1, Grade 1, Class A or B PTFE	ASTM A351 Gr. 5 (R56400)	ASTM B348 Gr 5 (R56400)	ASTM A494 Gr. CW12MW (N30002)	ASTM A494 Gr. N7M (N30007)	ASTM A216 Gr. WCB (J03002)	ASTM B062 (C83600)	ASTM A494 Gr. M-35-2 (N04020)	ASTM A351 Gr. CF8M (J92900)	ASTM A494 Gr. M-35-2 (N04020)	ASTM A351 Gr. CF8M (J92900)
STYLE	SIZE RANGE	A2	BR	CS	CS	HB	HC	MO	PV	SS	TF	TI	A2	BR	CS	HB	HC	MO	SS
3S (3S)	H - N (1" - 4")									•									
B4 (B4)	D - N (1/2" - 4")	•			▲	•	•	•		•									
BU (BU)	D - M (1/2" x 3/8" to 3" x 2-1/2")	•	•	•		•	•	•		•		•							
CN (CON)	D - N (1/2" - 4")	•	•	•		•	•	•		•		•							
F1 F6 (FIV)	D - I (1/2" - 1-1/4")	•		•		•	•	•		•		•							
F1 (FIV)	D - J (1/2" - 1-1/2")		•									•							
F1 (FIV)	J - W (1-1/2" - 20")											•	•		•	•	•	•	•
F1 (FIV)	K - W (2" - 20")													•					

BAR MATERIALS								CAST MATERIALS											
		ASTM D1710 Type 1, Grade 1, Class A or B PTFE																	
		ASTM A479 Gr. 316/316L (S31600/S31603)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A494 Gr. WCB (J03002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr. N7M (N30007)																	
		ASTM B062 (C83600)																	
		ASTM B062 Gr. 5 (R56400)																	
		ASTM B348 Gr. CN7M (N08007)																	
		ASTM A351 Gr. CF8M (J92900)																	
		ASTM A494 Gr. CW12MW (N30002)																	
		ASTM A216 Gr																	

Other valve materials are available. If you have a valve made of another material, please consult the factory for the material identification. Please supply the style, size, and material code of the valve when contacting the factory.

**Check-All Valve Mfg. Co.** – 1800 Fuller Road – West Des Moines, IA 50265 U.S.A.  
 Phone: 515-224-2301 – Fax: 515-224-2326 – Website: [www.checkall.com](http://www.checkall.com) – Email: [sales@checkall.com](mailto:sales@checkall.com)