

CROSS-REFERENCE OF ASTM MATERIAL SPECIFICATIONS COVERING CAST/FORGED VALVES, FITTINGS, FLANGES & PIPE

| Material | Forgings | Castings | Butt Weld Fittings | Pipe |
|--|-----------------|--------------------------|--------------------|-----------------------|
| Carbon Steel | | | | |
| Standard Service | ASTM A105/A105N | A216-WCB, WCC | A234-WPB | A106-Gr.B/API5LB |
| Low-Temp Service | A350-LF2 | A352-LCB, LCC | A420-WPL6 | A333-Gr.6 |
| Carbon - 1/2 Moly Alloy Steel | | | | |
| High-Temp Service | A182-F1 | A217-WC1 | A234-WP1 | A335-Gr.P1/A691 CM-70 |
| Low-Temp Service | | A352-LC1 | | |
| 1/2Cr-1/2Mo Alloy Steel | A182-F2 | | | A691 CM-75 |
| 1Cr-1/2Mo Alloy Steel | A182-F12 CL2 | | A234-WP12 CL2 | A335-Gr.P12 |
| 1-1/4Cr-1/2Mo Alloy Steel | A182-F11 CL2 | A217-WC6 | A234-WP11 CL2 | A335-Gr.P11 |
| 2-1/4Cr-1/2Mo-Vd Alloy Steel | A182-F22 CL3 | 217-WC9 | A234-WP22 CL3 | A335-Gr.P22 |
| 5Cr-1/2Mo Alloy Steel | A182-F5 | | A234-WP5 | A335-Gr.P5 |
| 5Cr-1/2Mo Alloy Steel | A182-F5a | A217-C5 | | |
| 9Cr-1Mo Alloy Steel | A182-F9 | A217-GR.C12 | A234-WP9 | A335-Gr.9 |
| 9Cr-1Mo Alloy Steel | A182-F91 | A217-C12A | | A335-Gr.91 |
| Type 410 13Cr Alloy Stainless Steel | A182-F6 | A351-CA15 | | A268 |
| Type 304 Stainless Steel 18Cr-8Ni | | | | |
| Standard | A182-F304 | A351-Gr.CF8 | A403-WP304 | A312-TP304 |
| Low Carbon | A182-F304L | A351-Gr.CF3, CF3A | A403-WP304L | A312-TP304L |
| High Temp Service | A182-F304H | A351-Gr.CF10 | A403-WP304H | A312-TP304H |
| Type 310 Stainless Steel 25Cr-20Ni | A182-F310H | A351-CK20 | A403-WP310 | A312-TP310 |
| Type 316 Stainless Steel 16Cr-12Ni-2Mo | | | | |
| Standard | A182-F316 | A351-Gr.CF8M | A403-WP316 | A312-TP316 |
| Low Carbon | A182-F316L | A351-Gr.CF3M | A403-WP316L | A312-TP316L |
| High Temp Service | A182-F316H | A351-Gr.CF10M | A403-WP316H | A312-TP316H |
| Type 317 Stainless Steel 18Cr-13Ni-3Mo | | | | |
| Standard | A182-F317 | A351-Gr.CG8M** | A403-WP317 | A312-TP317 |
| High Temp Service | A182-F317H | A351-Gr.CF8A | | |
| Type 321 Stainless Steel 18Cr.-10Ni-Ti | | | | |
| Standard | A182-F321 | | A403-WP321 | A312-TP321 |
| High Temp Service | A182-F321H | | A403-WP321H | A312-TP321H |
| Type 347 Stainless Steel 18Cr-10Ni-Cb | | | | |
| Standard | A182-F347 | A351-Gr.CF8C | A403-WP347 | A312-TP347 |
| High Temp Service | A182-F347H | A351-Gr.CF8C | A403-WP347H | A312-TP347H |
| Type 348 Stainless Steel 18Cr-10Ni-Cb | | | | |
| Standard | A182-F348 | | A403-WP348 | A312-TP348 |
| High Temp Service | A182-F348H | | A403-WP348H | A312-TP348H |
| 2-1/2 Nickel Alloy Steel | | | | |
| Low Temp Service | | A352-LC2 | | |
| 3-1/2 Nickel Alloy Steel | | | | |
| Low Temp Service | A350-LF3 | A352-LC3 | A420-WPL3 | A333-Gr.3 |
| 20Cr-18Ni-6Mo Duplex Steel | A182-F44 | A351-CK3MCuN | S31254 | A312-UNS S31254 |
| 22Cr-5Ni-3Mo-N Duplex Steel | A182-F51 | A351-CD3MN*/A890/A995 4A | S31803/S32205† | A789/A790-UNS31803 |
| 25Cr-7Ni-4Mo-N Duplex Steel | A182-F53 | CD4MCu**/CE3MN*/A995 5A | S32750 | A789/A790-UNS32750 |
| 24Cr-10Ni-4Mo-V Duplex Steel | | A351-CE8MN | | |
| | | A351-CD4MCuN/1B | | |
| 25Cr-5Ni-2Mo-3Cu Duplex Steel | | A995-CD3MWCuN/6A | S32760 | A789/A790-UNS32760 |
| 25Cr-7.5Ni-3.5Mo-N-Cu-W Duplex Steel | A182-F55 | SEE ABOVE (6A) | | |

† S31803 has been supplemented by S32205 (F60) which dual conforms to S31803 but has a higher minimum N, Mo, Ni and Cr which guarantees a better corrosion resistance.

* A351 CD3MN/CE3MN replaced by A995 4A/5A (A890 still in use).

** ASTM CG8M and CD4MCu no longer referenced 2009 ASTM addition of ASME B16.34.

Data provided on this chart is extracted from ASME B16.34 2009 and is for informational purposes only. Always consult current ASME or API official publications. These are a rough guide for estimating purposes only, subject to change.

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