



PIPE VALVES FITTINGS & FLANGE

VFP INTERNATIONAL SALES CORP.  
 WWW.VFPINT.COM  
 FAX: (956)687-5179  
 TEL: (956)687-5178

MATERIAL COMPATIBILITY CHART  
 (ASTM)

	PIPE	VALVES	BUTTWELD FITTINGS	FORGED FITTINGS (THRD & SW)	FLANGES
<b>CARBON STEEL</b>	A53	A216 WCB A105	A234 WPB A234 WPC	A105	A105 A181
	A106	A216 WCB A105	A234 WPB A234 WPC	A105	A105 A181
<b>HIGH YIELD</b>	API 5L X52		A860 WPHY 52		A694 F52
<b>STAINLESS STEEL</b>	A312 T304 A312 T304L A312 T304H	SS-304 A182 A351	A403 WP304	A182 F304	A182 F304
	A312 T316 A312 T316L A312 T316H	SS-316 A182 A351	A403 WP316	A182 F316	A182 F316
	A312 T317 A312 T317L A312 T317H	SS-317	A403 WP317	A182 F317	A182 F317
	A312 T321 A312 T321H	SS-321	A403 WP321	A182 F321	A182 F321
	A312 T347 A312 T347H	SS-347	A403 WP347	A182 F347	A182 F347
<b>LOW TEMP STEEL</b>	A333 GR. 1/6	A352 LCB A350 LF2	A420 WPL6	A350 LF2	A350 LF2
	A333 GR. 3	A352 LC3 A350 LF3	A420 WPL3	A350 LF3	A350 LF3
<b>ALLOYS ACEROS ALEADOS (ALTA TEMPERATURA) Cr - Mo</b>	A335 P5	A217 C5 A182 F5	A234 WP5	A182 F5	A182 F5
	A335 P7	A217 C12 A182 F7	A234 WP7	A182 F7	A182 F7
	A335 P9	A217 C12 A182 F9	A234 WP9	A182 F9	A182 F9
	A335 P11	A217 WC6 A182 F11	A234 WP11	A182 F11	A182 F11
	A335 P22	A217 WC9 A182 F22	A234 WP22	A182 F22	A182 F22
	A335 P91	A182 F91	A234 WP91	A182 F91	A182 F91
<b>NICKEL ALLOYS ALEACIONES DE NIQUEL</b>	B161	B564	B366 WPN	B564	B564
	B165 (MONEL)	B564	B366 WPNC	B564	B564



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Material	Forgings	Castings	Wrought Fittings
Carbon Steel Cold Temperature Service	A105 A350-LF2	A216-WCB	A234-WPB A420-WPL6
Carbon-1/2 Molybdenum Alloy Steel High Temperature Service	A182-F1	A217-WC1  A352-LC1	A234-WP1
3-1/2 Nickel Alloy Steel  Low Temperature Service	A350-LF3	A352-LC3	A420-WPL3
1/2 Cr-1/2 Mo Alloy Steel 1/2 Cr-1/2 Mo-1 Ni Alloy 3/4 Cr-1 Mo-3/4 Ni Alloy Steel 1 Cr-1/2 Mo Alloy Steel	A182-F2    A182-F12 CL2	A217-WC4  A217-WC5	A234-WP12 CL2
1-1/4 Cr-1/2 Mo Alloy Steel 2-1/4 Cr-1 Mo Alloy Steel 5 Cr-1/2 Mo Alloy Steel  5 Cr-1/2 Mo Alloy Steel  9 Cr-1 Mo Alloy Steel 13 Cr Alloy Steel	A182-F11 CL2 A182-F22 CL3 A182-F5 A182-F5a A182-F9 A182-F6	A217-WC6 A217-WC9  A217-C5 A217-C12 A743-CA15	A234-WP11 CL2 A234-WP22 CL3 A234-WP5  A234-WP9
Type 304 Stainless Steel (18 Cr-8 Ni) Standard Low Carbon High Temperature Service	A182-F304 A182-F304L A182-F304H	A351-CF3  A351-CF8	A403-WP304 A403-WP304L A403-WP304H
Type 310 Stainless Steel (25 Cr-20 Ni) Type 316 Stainless Steel (16 Cr-12 Ni-2 Mo) Standard Low Carbon High Temperature	A182-F310H   A182-F316 A182-F316L A182-F316H	A351-CK20   A351-CF3M A351-CF8M	A403-WP310   A403-WP316 A403-WP316L A403-WP316H



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Type 317 Stainless Steel (18 Cr-13 Ni-3 Mo)			A403-WP317
Type 321 Stainless Steel (18 Cr-10 Ni-Ti)			
Standard	A182-F321		A403-WP321
High Temperature Service	A182-F321H		A403-WP321H
Type 347 Stainless Steel (18 Cr-10 Ni-Cb)			
Standard	A182-F347	A351-CF8C	A403-WP347
High Temperature Service	A182-F347H		A403-WP347H
Type 348 Stainless Steel (18 Cr-10 Ni-Cb)			
Standard	A182-F348		A403-WP348
High Temperature Service	A182-F348H		A403-WP438H