

ASTM A234 WP11 elbow,A234 WP11 180deg Return bend ASME B16.9

C&N is a professional ASTM A234 WP11 90deg elbow,A234 WP11 180deg Return bend ASME B16.9 manufacturer. We can produce high quality steel pipe fittings, ASTM A234 wp11 Pipe fitting,Elbow,Tee,Reducers. We can provide both A234 WP11 Cl 1 pipe fittings and A234 Wp11 Class 2 pipe fittings.

ASTM A234 WP11 Seamless Elbow are produced from [A335 P11 Seamless pipes](#)

A return bend is a pipe fitting which allows a pipe to make a 180 degree change in direction. Return bends also refers to 180deg elbows.This type of fitting can be molded, cast, or made by heating and bending existing pipe.

Alloy Steel A234 WP11 elbows are used in Marine engineering, Chemical processing, Heat exchangers, Valves manufacturing, Pumps manufacturing, Petrochemical plants, Nuclear power projects, Oil & Gas equipment manufacturing. We procure raw materials to

manufacture **Alloy steel A234 WP11 Pipe Fittings** from
ISO and PED approved mills

ASTM A234 WP11 Chemical Composition (%)

Grade	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	Nb
WP11	0.05-	0.30-									
			0.03	0.03	0.50-	1.00-	0.44-	-	-	-	-
CL1	0.15	0.60			1.00	1.50	0.65				
WP11	0.05-	0.30-									
			0.04	0.04	0.50-	1.00-	0.44-	-	-	-	-
CL2/3	0.20	0.80			1.00	1.50	0.65				

Notes:

- For each reduction of 0.01% below the specified C maximum, an increase of 0.06% Mn above the specified maximum will be permitted, up to a maximum of 1.35%.
- The sum of Cu, Ni, Cr, and Mo shall not exceed 1.00%.
- The sum of Cr and Mo shall not exceed 0.32%.
- The maximum carbon equivalent (C.E.) shall be 0.50, based on heat analysis and the formula

$$C.E. = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15.$$

ASTM A234 WP11 PIPE FITTINGS Mechanical properties

Tensile Requirements	WPB	WP11CL1	WP11CL3
Tensile Strength, min, ksi[MPa]	60-85	60-85	75-100
(0.2% offset or 0.5% extension-under-load)	[415-585]	[415-585]	[520-690]
Yield Strength, min, ksi[MPa]	32	30	45
	[240]	[205]	[310]

Alloy Steel Pipe fittings:

ASTM A234 WP5 Pipe fittings,ASME B16.9

ASTM A234 WP9 Pipe fittings

ASTM A234 WP11 Pipe fittings,ASME B16.9

ASTM A234 WP22 Pipe fittings

ASTM A234 WP91 Pipe fittings

SIZES:

1/2" N. B. TO 24" N. B. Seamless Pipe Fittings(BW)

1/2" N. B. TO 72" N. B. Welded BW

Marking:Standard/ As per request

Packing: Wooden case(Fumigation free) Or as per request

Inspection: In house and third party

Document: MTC EN10204-3.1 can be provided prior to shipment

OUR MAIN EXPORT COUNTRIES

- **ASIA** – Thailand, Singapore, Vietnam, South Korea
- **Middle East** – Kuwait, Dubai, Saudi Arabia, Yemen, Qatar,Oman, Bahrain, Jordan
- **Europe** – United Kingdom, Italy, Belgium,
- **South America** – Argentina, Chile, Brazil, Colombia, Venezuela,
- **Africa** – Nigeria, South Africa,Sudan,Libya

