

# ASTM A234 WP91 Elbow A234 WP91 Fittings,Elbow,Tee,Reducer Data sheet

**We are a professional ASTM A234 WP91 Pipe  
fitting 90 Deg Elbow LR SR, 45Deg Elbow  
manufacturer in China**

Based on our deep and professional experience, and as one of the most professional chrome moly manufacturer in china ,we can produce high quality Chrome Moly Alloy steel pipe fittings,A234 WP91 Pipe fittings.WP91 is one of the steel grade in ASTM A234,which is made of A335 P91 Pipes, W means weldable, P means pressure,91 is grade 91. While Digital 9 is referring to the Cr content 8-9.5%.

**A234 WP91 pipe fittings are produced from [A335 P91 Seamless pipes](#),and it connects with A182 F91 Flange,and A335 P91 Pipes in the pipeline connections.**

Alloy Steel A234 WP91 Buttweld Fittings	A234 WP91 Buttweld Fittings
9Cr-1Mo-V-Nb Pipe Fittings	Alloy Steel A234 WP91 Reducers
A234 WP91 Buttweld Pipe Fittings	A234 WP91 Alloy Steel Pipe Bend
ASTM A234 WP91 Butt weld Fittings	Alloy Steel ASTM A234 WP91 Fittings
Alloy Steel A234 WP91 butt weld elbow	ASME B16.9 AS WP91 Buttweld 90° Elbow
Alloy Steel WP91 Pipe Elbow Manufacturer	A234 WP91 Butt weld Elbows
A234 WP91 Alloy Steel Concentric Reducers	A234 WP91 Equal Tee
ASTM A234 Alloy Steel WP91 Eccentric Reducer	A234 Alloy Steel WP91 Short Radius Elbow

WP91 Alloy Steel Seamless Pipe Fittings    ANSI B16.9 WP91 Butt weld Fittings

ASME SA234 Alloy WP91 Butt weld Equal Tee    Alloy Steel A234 WP91 seamless Pipe Fittings

Wrought Alloy Steel WP91 Piping Fittings    Alloy Steel WP91 Long Radius Elbow Stockiest

A234 Alloy Steel WP91 End Pipe Cap Exporter    ASTM A234M Alloy Steel WP91 Fittings

**ASTM A234 WP91 3D Pipe bend,**

**ASTM A234 WP91 5D Pipe bend,**

**China ASTM A234 WP91 Pipe fitting**

**[ASME B16.9 A234 WP91 Pipe fittings dimension](#)**

A234 WP91 is one of the steel grade in ASTM A234 standard.W means weldable,P means pressure,91 is grade 91.the starting material is ASTM A335 Gr P91 Seamless pipes,widely used for POWER PLANT FABRICATION,**Chemical & Fertilizers, Power Generation and Nuclear Industries.**

According to the standard [Astm A234 A234M](#)  
[2018](#) latest edition,

There are type 1 and type 2 in A234 WP91 grade.

**We can provide Bevel end according to ASME B16.25** Buttwelding  
Ends

*Figure 2(a) Figure 3(a) Figure 3(a), Figure 3(C)*

This Standard covers the preparation of buttwelding ends of piping components to be joined into a piping system by welding. It includes requirements for welding bevels, for external and internal shaping of heavy-wall components, and for preparation of internal ends (including dimensions and tolerances). Coverage includes preparation for joints with the following: no backing rings; split or noncontinuous backing rings; solid or continuous backing rings; consumable insert rings; gas tungsten arc welding (GTAW) of the root pass.

# Chemical Composition of ASTM A234 WP91 Pipe fittings:

Grade	C	Mn	P	S	Si	Cr	Mo	Ni
A234	0.08-	0.3-			0.2-	8-	0.85-	
WP91	0.12	0.6	≤0.02	≤0.01	0.5	9.5	1.05	≤0.4

# Mechanical properties of ASTM A234 WP91 Pipe fittings:

Item	Tensile Strength KSI(MPa)	Yield Strength KSI(MPa)
A234 WP91	85-110(585-760)	≥60(415)

# ASTM A234 WP91 Heat Treatment

Except when Supplementary Requirement S1 is specified by the purchaser, Grade WP91 Type 1 and Type 2 shall be normalized at 1900 °F [1040 °C] minimum, and 1975 °F [1080°C] maximum, and tempered in the temperature range of 1350°F [730 °C] to 1470 °F [800 °C] as a final heat treatment. 7.3.6

# ASTM A234 WP91 Hardness

All fittings of Grade WP91 Type 1 and Type 2 shall be hardness tested and shall have a hardness of 190 HBW-250 HBW.

## Material:

**Alloy Steel: ASTM A234 / WP5/ WP9/ WP11/ WP22/ WP91**

Stainless Steel: ASTM A403 WP 304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 904L/ etc.

Carbon Steel: ASTM A234 WPB / A420 WPL3/ A420 WPL6/ MSS-SP-75 WPHY 42/46/52/56/60/65/70 etc.

## 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

How to order the ASTM A234 WP 91 Pipe fittings?

Example#1, ELBOW ASTM A234 WP 91 type 2, 90 DEG, SMLS  
BW Sch160 MM, 12 INCH

Example#2, ASTM A234 WP91 90 Degree Elbow, LR 8 Inch, SCH  
160,

Example#3, ASTM A234 WP91 90 Deg. Elbow SR, Seamless, 6 Inch  
SchXXS

