

# ASTM A234 WP5 elbow LR SR,Tee,Reducer,A234 WP5 pipe fittings, 5Cr-1/2Mo Pipe fittings specification

We are is a professional **A234 WP5 Pipe fittings,Elbow,Tee,Reducer,** chrome moly pipe fittings manufacturer in China.As a experienced **A234 WP5 Pipe fittings manufacturer in China** We can produce high quality steel pipe fittings,

**Astm A234 wp5 elbow,A234 WP5 LR elbow,Wp5 pipe fitting ,A234 WP5 Tee,A234 WP5 Reducer, 5Cr-1/2Mo Pipe fittings,**

**A234 WP5 butt weld Pipe fittings matches ASTM A335 chrome-moly Gr [P5 pipes](#). and [A182 F5 Flanges](#),A182 F5 Forged fittings**

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1.7362 12 CrMo 19 5

X11CrMo5

A 234 Grade WP5

We perform strict quality control,MT,UT,PMI will be conducted for the A234 WP5 Pipe fittings.

## Manufacturing process of ASTM A234 WP5 steel pipe fittings:

The process of A234 WP5 pipe fittings manufacturing is called “wrought” which means it is casted or forged. Usually the ASTM A234 WP5 elbows, tees, reducers are made from A335 Gr P5 Seamless steel pipes, the caps are made from plates.

**A234 WP5 Pipe fittings is made of A335 Grade P5 Seamless pipes, which is widely used in oil refineries applications.**

**People uses A182 F5 Flanges, A182 F5 forged fittings to match the A234 WP5 Pipe fittings**

### ASTM A234 WP5 Pipe Fittings Chemical Composition

Grade	C	Mn	Si	S	P	Cr	Mo
A234 WP5	≤0.15	≤0.6	≤0.5	≤0.04	≤0.03	4-6	0.44-0.65

## Mechanical properties of ASTM A234 WP5 Pipe fittings

Class                      Tensile Strength KSI (MPa)                      Yield Strength KSI (MPa)

WP5 Class1      60-85(415-585)       $\geq 30(205)$

WP5 Class3      75-100(520-690)       $\geq 45(310)$

## ASTM A234 WP5 Pipe fittings Heat treatment

All **alloy steel fittings (including WP5)** must be **heat treated** according to the specification.

Heat Treatment Type: **Normalized and Tempered** or **Annealed**

### Detailed Procedure:

- **Normalizing Temperature:**

1030 – 1200 °C (1885 – 2190 °F)

→ Air cool.

- **Tempering Temperature:**

Minimum 675 °C (1250 °F)

→ Hold sufficiently to ensure uniform tempering.

## ASTM A234 WP5 Pipe fittings hardness

Grade	Heat Treatment	Max (HB)	Hardness	Typical (HB)	Range
ASTM	A234 Normalized	+ <b>197</b>		<b>150–180</b>	

Grade	Heat Treatment	Max (HB)	Hardness	Typical (HB)	Range
WP5	Tempered				

## [Astm A234](#) / A234M – 19

Standard Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service

### **ASTM A234 WP5 BW Pipe fittings according to [ASME B16.9 dimension](#)**

**Alloy Steel A234 WP5 Elbows – Short Radius**

**Alloy Steel A234 WP5 45° Elbows**

**Alloy Steel A234 WP5 180° LR Return Bends**

**Alloy Steel A234 WP5 Tees**

**Alloy Steel A234 WP5 Reducing Tees**

**Alloy Steel A234 WP5 180° SR Return Bends**

**Alloy Steel A234 WP5 Concentric Reducers**

**Alloy Steel A234 WP5 Eccentric Reducers**

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

Inspect ASTM A234 WP5 Pipe fittings, Elbow, Reducer, Tee, all according to ASME B16.9 Standard

Quality controller check the diameter, thickness, tolerance and marking

Third party inspection: BV, SGS, LR, DNV, ABS and approve inspection certificate.

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

## **How to order our ASTM A234 WP5 pipe fittings?**

Example#1 ASTM A234 WP5 90° Seamless *Elbow* LR, with butt weld ends, Sch. XS, 8 inch, according to ANSI B16.9

Example#2 ,ASTM A234 WP5 180° Seamless *Elbow* LR, Sch. 80, 12 inch, ASME B16.9

Example#3, ASTM A234 WP5 90 Deg. Elbow SR, Seamless, 6 Inch, Sch 160

