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***“ALL YOUR PIPING MATERIALS  
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**FITTINGS & FLANGES**

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# FITTINGS ASTM A234

*Carbon steel and alloy steel fittings*

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<b>USE</b>	Moderate and high temperature service
<b>STEEL GRADE</b>	WPB – WPC – WP5 – WP9 – WP11 – WP22 – WP91
<b>PROCESSING</b>	<ul style="list-style-type: none"><li>➤ Seamless</li><li>➤ Welded</li></ul>
<b>TOLERANCES</b>	ASME B16.9
<b>DIMENSIONS</b>	ASME B36.10 / ASME B16.9 for Butt-Welding Fittings
<b>MARKING</b>	<p>All fittings shall have the prescribed information stamped or otherwise suitably marked on each fittings:</p> <p><b>BUTT-WELDING FITTINGS</b></p> <ul style="list-style-type: none"><li>➤ Manufacturer's name or trademark</li><li>➤ Schedule number or nominal wall thickness designation</li><li>➤ Size</li><li>➤ Fitting designation in accordance with Annex A1 of ASTM A234</li><li>➤ Heat number</li><li>➤ Specification designation</li><li>➤ Grade and class</li></ul>
<b>CERTIFICATION</b>	UNI EN 10204

# FITTINGS ASTM A420

*Carbon steel and alloy steel fittings*

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<b>USE</b>	Low temperature service
<b>STEEL GRADE</b>	WPL6
<b>PROCESSING</b>	<ul style="list-style-type: none"><li>➤ Seamless</li><li>➤ Welded</li></ul>
<b>TOLERANCES</b>	ASME B16.9
<b>DIMENSIONS</b>	ASME B36.10 / ASME B16.9 for Butt-Welding Fittings
<b>MARKING</b>	<p>All fittings shall have the prescribed information marked by any method which will permanently identify the fittings:</p> <p><b>BUTT-WELDING FITTINGS</b></p> <ul style="list-style-type: none"><li>➤ Manufacturer's name or trademark</li><li>➤ Material designation or grade</li><li>➤ Schedule number or nominal wall thickness</li><li>➤ Heat number</li><li>➤ Certifying organization's name or symbol</li><li>➤ Size</li></ul>
<b>CERTIFICATION</b>	UNI EN 10204

# FITTINGS ASTM A403

*Stainless steel fittings*

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<b>USE</b>	Pressure piping applications
<b>STEEL GRADE</b>	WP304/304L – WP316/316L – WP321/321H - TP347/TP347H
<b>PROCESSING</b>	<ul style="list-style-type: none"><li>➤ Seamless</li><li>➤ Welded</li></ul>
<b>TOLERANCES</b>	ASME B16.9
<b>DIMENSIONS</b>	ASME B36.19 / ASME B16.9 for Butt-Welding Fittings
<b>MARKING</b>	<p>All fittings shall have the prescribed information stamped or otherwise suitably marked on each fittings:</p> <p><b>BUTT-WELDING FITTINGS</b></p> <ul style="list-style-type: none"><li>➤ Manufacturer's name or trademark</li><li>➤ Schedule number or nominal wall thickness</li><li>➤ Size</li><li>➤ Grade and class</li><li>➤ Heat number</li><li>➤ Specification designation</li><li>➤ Certifying organization's name or symbol</li></ul>
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# FITTINGS ASTM A860

*High Strength Low Alloy Steel Fittings*

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<b>USE</b>	High-pressure gas and oil transmission and distribution systems
<b>STEEL GRADE</b>	WPHY52
<b>PROCESSING</b>	<ul style="list-style-type: none"><li>➤ Seamless</li><li>➤ Welded</li></ul>
<b>TOLERANCES</b>	ASME B16.9
<b>DIMENSIONS</b>	ASME B36.19 / ASME B16.9
<b>MARKING</b>	<p>All fittings shall have the prescribed information stamped or otherwise suitably marked on each fittings:</p> <ul style="list-style-type: none"><li>➤ Manufacturer's name or trademark</li><li>➤ Specification number</li><li>➤ Grade symbol</li><li>➤ Size and nominal wall thickness</li><li>➤ Heat number</li></ul>
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# FLANGES AND FORGED FITTINGS ASTM A105

*Forged carbon steel piping components*

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<b>USE</b>	Ambient and higher temperature service in pressure systems
<b>PROCESSING</b>	Forged
<b>TOLERANCES</b>	ASME B16.5
<b>DIMENSION</b>	ASME B16.5 and ANSI B 16.11 Threads if applicable as per ANSI B1.20.1 ( NPT)
<b>MARKING</b>	Each piece shall be legibly marked with the following information: <ul style="list-style-type: none"><li>➤ Specification number</li><li>➤ Grade and class</li><li>➤ Certifying organization's name or symbol</li><li>➤ Heat number</li><li>➤ Size -Service rating ( if applicable)</li></ul>
<b>CERTIFICATION</b>	UNI EN 10204

# FLANGES ASTM A350

*Carbon and alloy steel flanges*

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<b>USE</b>	Low temperature service
<b>STEEL GRADE</b>	LF2
<b>PROCESSING</b>	Forged
<b>TOLERANCES</b>	ASME B16.5
<b>DIMENSIONS</b>	ASME B16.5
<b>MARKING</b>	Each piece shall be legibly marked with the following information: <ul style="list-style-type: none"><li>➤ Specification number</li><li>➤ Grade and class</li><li>➤ Certifying organization's name or symbol</li><li>➤ Heat number</li><li>➤ Size</li><li>➤ Service rating ( if applicable)</li><li>➤ Manufacturer's name</li></ul>
<b>CERTIFICATION</b>	UNI EN 10204

# FLANGES ASTM A182

*Alloy and stainless steel flanges*

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<b>USE</b>	High temperature service
<b>STEEL GRADE</b>	F5 – F9 – F11 – F22 – F91 – F304/F304L – F316/F316L – F321/F321H
<b>PROCESSING</b>	Forged
<b>TOLERANCES</b>	ASME B16.5
<b>DIMENSIONS</b>	ASME B16.5
<b>MARKING</b>	Each piece shall be legibly marked with the following information: <ul style="list-style-type: none"><li>➤ Specification number</li><li>➤ Grade and class</li><li>➤ Certifying organization's name or symbol</li><li>➤ Heat number</li><li>➤ Size</li><li>➤ Service rating ( if applicable)</li><li>➤ Manufacturer's name</li></ul>
<b>CERTIFICATION</b>	UNI EN 10204



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