

Over Critical Isolation Valves

Engineered specifically for high-pressure and high-temperature power applications.



Demanding pressure & temperature? Demand Parker.

Our Over Critical Isolation valves were engineered with robust F91 pressure boundary parts to meet the severe service requirements of power applications. With 14mm through 25mm end connectors, these U Series needle valves are **pressure-rated at up to 8000 psig/551 bar**, and **temperature-rated from -65°F to 1100°F (-54°C to 593°C)** with Grafoil® packing and our high temperature option. A non-rotating lower stem helps extend packing life by removing rotation from the packing area. In addition, stem packing below the threads isolates the thread lubricant from the flow, ensuring adequate lubrication regardless of the media.



Contact Information:

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Product Features:

- Union bonnet design
- Packing below the power threads
- Stem swivel above the packing
- Grafoil® packing
- Choice of regulating or blunt stem types
- F91 alloy steel
- Wide variety of US customary socket weld and butt weld connections available
- Panel mountable
- 100% factory tested

Product Benefits:

- High integrity seal under severe service
- Protects and isolates thread lubricants from the media
- Eliminates entrapment area and increases packing life
- High temperature resistance
- Blunt stem type helps combat wire draw in the presence of steam
- Ideal for rigorous boiler applications
- Flexible for a wide variety of plumbing designs
- Suitable for high vibration applications
- Quality-assured



ENGINEERING YOUR SUCCESS.

Product Specifications:

Pressure Rating:

8000 psig (551 bar) CWP

Temperature Rating:

Grafoil® packing with HT option:
-65° F to 1100° F (-54° C to 593° C)

Orifice: .312" (7.9mm)

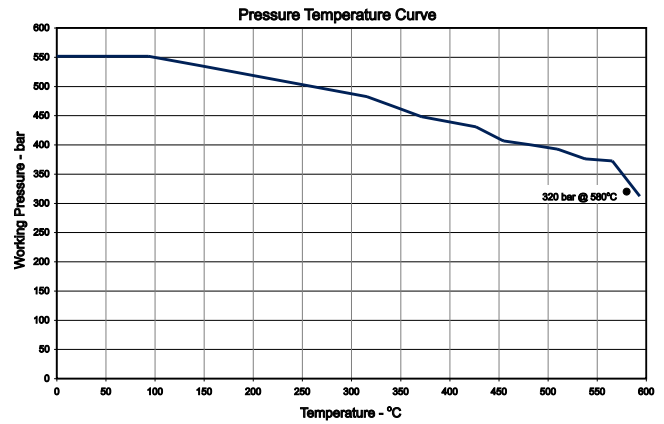
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End Connection Types:

- Pipe socket weld
- Tube socket weld

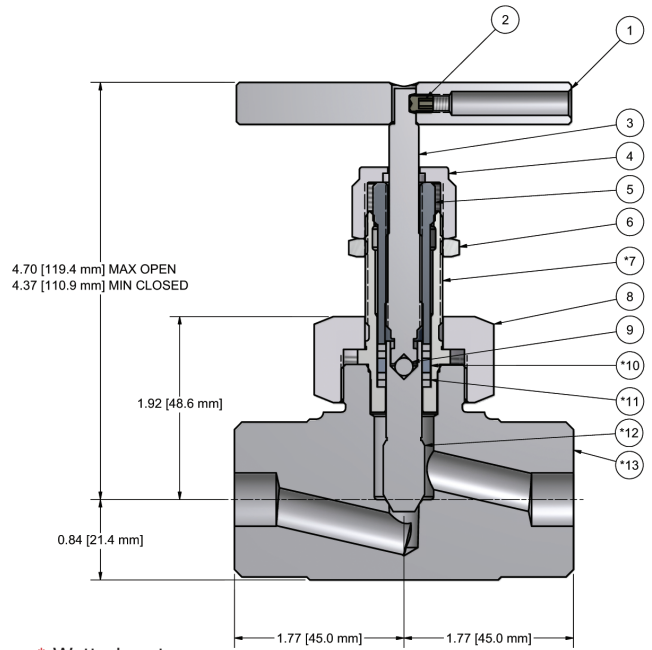
Example Part # - 14mm ends:

M14W-U12LB-G-F91-OC



Materials of Construction:

Item #	Qty	Description	Material
1	1	Handle	316 Stainless Steel
2	1	Handle Screw	Stainless Steel
3	1	Upper Stem	ASTM A564, Type 630
4	1	Packing Nut	ASTM A479, Type 316
5	1	Stem Guide	ASTM A581, Type 416
6	1	Locking Nut	Stainless Steel
*7	1	Bonnet	ASTM A182, Type F91
8	1	Bonnet Nut	ASTM A182, Type F91
9	1	Ball	440C Stainless Steel
*10	1	Packing	Grafoil® Grade GTJ
*11	4	Packing Washer	ASTM A479, Type 347
*12	1	Lower Stem	ASTM A479, Type 316
*13	1	Body	ASTM A182, Type F91



* Wetted parts
Lubrication: Molybdenum disulfide with soft metallic fillers

Questions on severe service valves?

Contact your authorized Parker Instrumentation distributor, or the Parker Instrumentation Division at **256-435-2130**.

Grafoil® is a registered trademark of GrafTech International LTD.

