Restriction Orifice Unions

FLOW METERING

Description

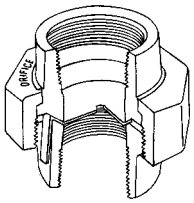
Restriction unions contain an easily replaceable orifice plate and are available in carbon steel or stainless steel. The assembly is used in liquid or gas piping systems to meter flow rate of the fluid. The all metal assembly is capable of a wide range of pressure and temperature variables.

Applications

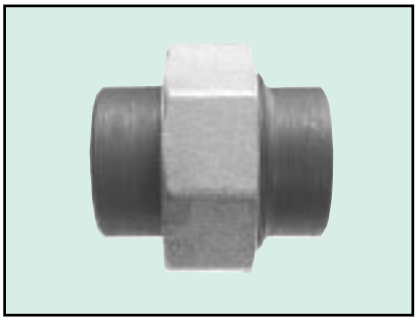
Restriction orifice unions are used in setting flow rates of a wide variety of fluids.

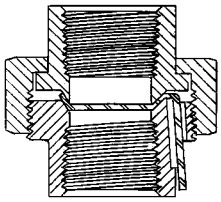
- Compressed Air
- Water
- Steam
- Hydraulic Fluids
- Gases
- Chemicals
- Coolants

Flow rates can be easily changed by inserting other replaceable metering plates.



Restriction Orifice Union has SS plate with precision metering orifice.





Restriction Orifice Unions are threaded or socket weld.

Specifications

Materials

Orifice Plate – 316 Stainless Steel
Union – A105 Carbon Steel or 316 SS

Sizes – 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

Connections – NPT or Socket Weld

Pressure Rating

Carbon Steel – 3000 psig
Stainless Steel – 3000 psig

Part Numbers – Type ROU

PIPE SIZE	
Size Code	**Size**
2	1/4"
3	3/8"
4	1/2"
6	3/4"
8	1"
10	1-1/4"
12	1-1/2"
16	2"

ENDS
N – NPT
S – SOCKET WELD

MATERIAL
CS – CARBON STEEL
SS – 316 STAINLESS STEEL

Known Orifice Size

If orifice size is known provide

- Orifice Diameter
- Nominal Pipe Size
- End Connections
- Union Material

"Part Number"

TYPE	ORIFICE	PIPE SIZE CODE	UNION ENDS	UNION MATERIAL
ROU	.060 (.060")	4 (1/2" NPT)	N (NPT)	SS (316 SS)

3 decimal places eg. *.060", .210", 1.250"*

Unknown Orifice Size

If orifice size is unknown provide

- Nominal Pipe Size
- Data for Orifice Calculation
- End Connections
- Union Material

"Part Number"

TYPE	ORIFICE	PIPE SIZE CODE	UNION ENDS	UNION MATERIAL
ROU	xx (calculate)	8 (1")	S (Socket Weld)	CS (Carbon Steel)

Data Required for Calculation

- Fluid Type (Air, Water, Steam, etc.)
- Fluid Supply Pressure and Temperature
- Pressure Differential Across Orifice
- Required Flow Rate
- Pipe ID or Pipe Schedule
- Specific Gravity, if not air or water

With the above data the orifice size can be calculated.

To order plates only, consult factory.

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