

AXIS

ORIFICE PLATES



ORIFICE PLATES

RJ Machine orifice plates fit all commercially available meters and orifice fittings. We have done an extensive engineering study and tolerance analysis of commercially available meters and orifice fittings. All RJ orifice plates will meet or exceed the requirements of AGA 3 and API 14.3 standards.

Specifications and options:

Line sizes	2 – 24" Universal 1 – 24" Paddle 10 – 24" Bonded
Pressure class	Up to 2500# ANSI class
Material	Domestic US 316 SS
Bevel	Standard or no bevel
Plate thickness	1/8" to 1/2"
Bore	Standard bores in stock, specific bores made to order
Design	According to API 14.3, Part 2

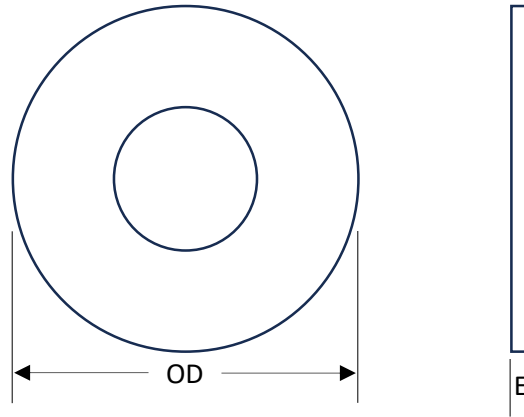
Other options available:

- CMM measurement report
- Positive material identification
- Custom tagging
- d_r stamping

Example comparison of API 14.3, Part 2 specifications to RJ Machine specifications:

Specification	API 14.3, Part 2 (inches)	RJ Machine (inches)
Bore Diameter	±0.0005 up to 1.00, then ±0.0005/inch	±0.0005 up to 2.00, then ±0.0005/inch
Bore Roundness (example: 0.875" bore)	±0.0005	±0.0002
Flatness (example: 0.875" bore)	0.011	0.005
Plate Thickness	0.115/0.130	.125±0.005
Bore Concentricity	No Specification	0.002
Bevel Angle Tolerance	±15°	±2°

Universal style plates



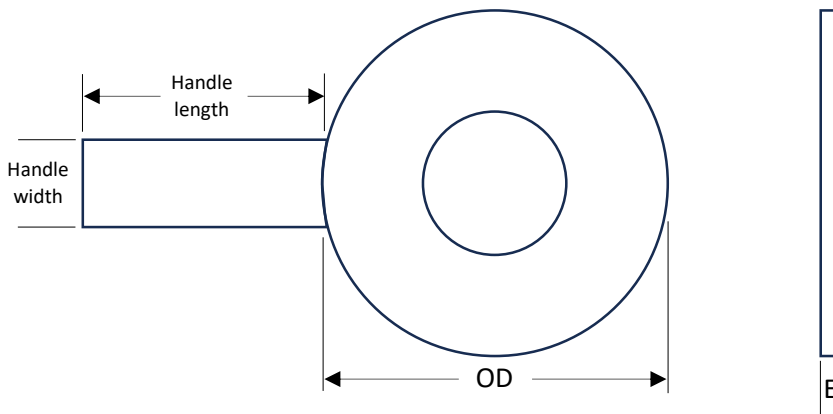
Orifice plate	Line size										
	2	3	4	6	8	10	12	14	16	20	24
NPS	2	3	4	6	8	10	12	14	16	20	24
OD	2.437	3.437	4.406	6.437	8.437	10.687	12.593	14.00	16.000	20.000	24.000
Thickness (E)	0.125	0.125	0.125	0.125	0.25	0.25	0.25	0.25	0.375	0.375	0.500
Approx. wt	0.1	0.3	0.6	1.2	4.1	6.4	9.6	12	23	35	67

Model numbers

PU-002-1-0750

- PU¹: Universal style
- 002²: Line size (002=2 inch to 024=24 inch)
- 1³: Thickness (1=1/8", 2=1/4", 3=3/8", 4=1/2")
- 0750⁴: Bore size 0.750" (0000=blank)

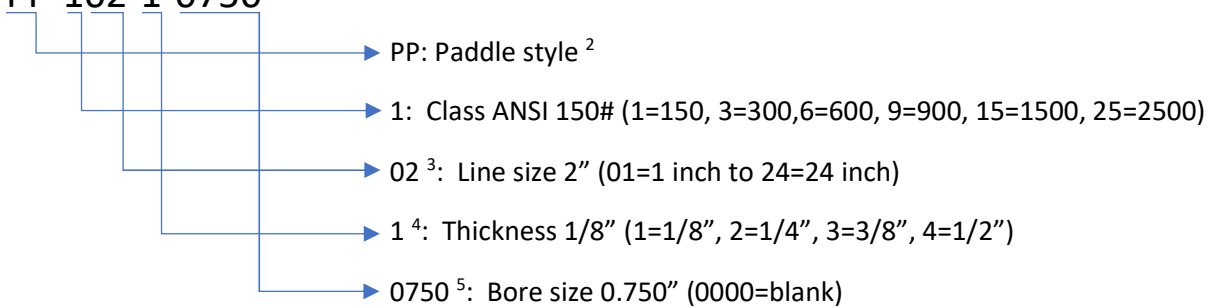
Paddle style plates



Orifice plate	Line size											
NPS	1	1½	2	3	4	6	8	10	12	14	16	20
Thickness (E)	0.125	0.125	0.125	0.125	0.125	0.125	0.25	0.25	0.25	0.25	0.375	0.375
Handle length	4	4	4	4	4	4	5	5	5	5	5	5
Handle width	1	1	1	1	1	1	1	1	1.25	1.25	1.25	1.25
ANSI 150												
Approx. wt	0.1	0.4	0.6	0.9	1.5	2.3	7.2	10.4	14.9	18.0	35.0	48.8
OD	2.625	3.375	4.125	5.375	6.875	8.75	11.00	13.375	16.13	17.75	20.25	23.88
ANSI 300												
Approx. wt	0.4	0.5	0.7	1.1	1.6	2.9	8.7	11.7	15.8	20.9	40.7	58.2
OD	2.875	3.75	4.375	5.875	7.125	9.875	12.13	14.25	16.63	19.13	21.25	25.75
ANSI 600												
Approx. wt	0.4	0.5	0.7	1.1	1.8	3.3	9.5	14.3	18.5	21.4	42.2	61.9
OD	2.875	3.75	4.375	5.875	7.625	10.50	12.63	15.75	18.00	19.38	22.25	26.88
ANSI 900												
Approx. wt	0.4	0.6	1.0	1.4	2.0	3.9	11.8	16.8	22.0	23.9	43.6	64.9
OD	3.125	3.875	5.625	6.625	8.125	11.38	14.13	17.125	19.63	20.5	22.63	27.50

Model numbers

PP-102-1-0750



Notes:

Dimension in inches, weight in lbs

¹ Model BPS bonded plates are available in sizes 10 – 24". Bonded plate elastomers available in Nitrile, HNBR, FKM

² Paddle style up to 12" are made from single piece material, no welding of the handle.

³ Other line sizes available on request

⁴ Standard thickness shown, other thicknesses available

⁵ Standard bore increments of 0.125" in sizes ≤12", increments of 0.25" in larger sizes, specific bores available



For all your natural gas measurement needs:

- Orifice Plates
- Flow Conditioners
- Companion Flanges
- 5 Valve Manifolds
- Seal Rings
- Leveling Saddles
- Thermowells
- Full Port Ball Valves
- Complete Refurb Kits
- Replacement parts
- Mini Needle Valves
- Gauges