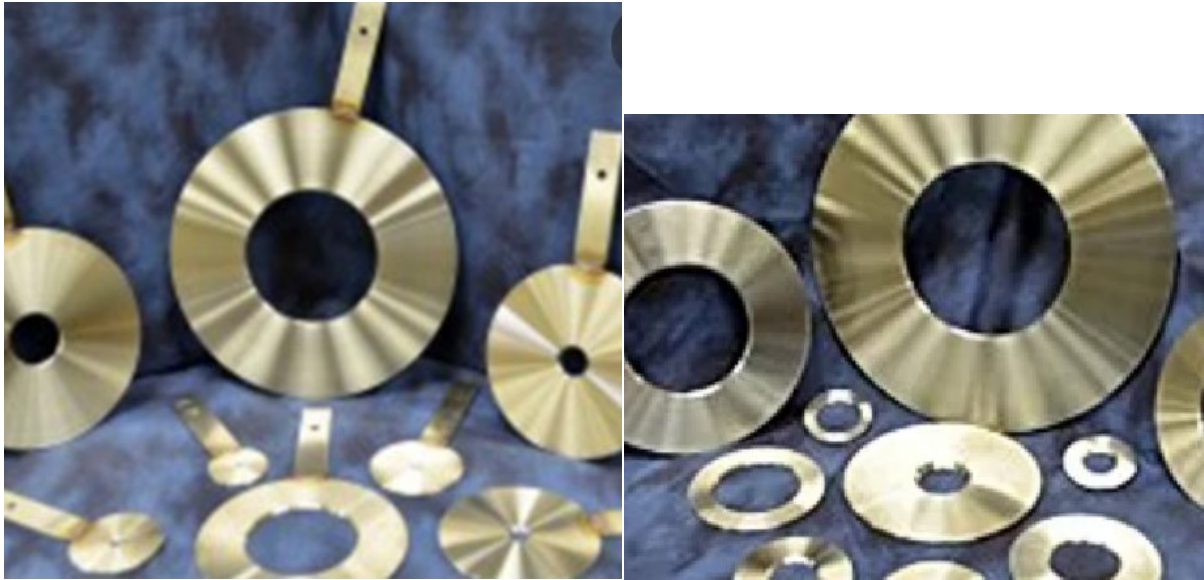
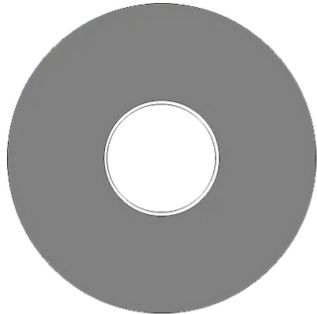


## Orifice Plate Options

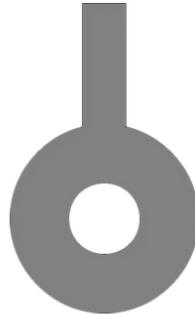


An orifice plate is a device used for measuring flow rate, for reducing pressure, or for restricting flow. Either a volumetric or mass flow rate may be determined, depending on the calculation associated with the orifice plate. It uses the same principle as a Venturi nozzle, namely Bernoulli's principle which states that there is a relationship between the pressure of the fluid and the velocity of the fluid. When the velocity increases, the pressure decreases and vice versa.

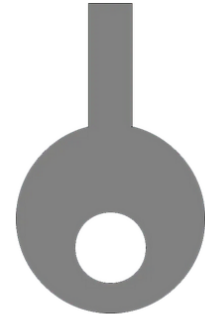
Here at Precision Flow, we consider quality to be the most important factor in producing orifice plates. Orifice plates range in size, type, style, and material.



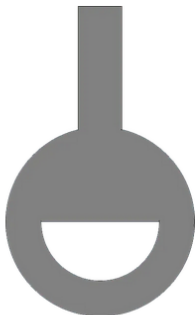
Universal Orifice Plate



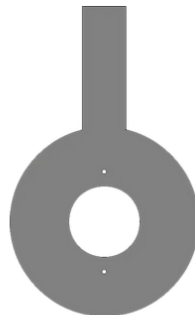
Concentric Orifice Plate



Eccentric Orifice Plate



Segmental Orifice Plate



Vented and/or Drained Orifice Plate

# UNIVERSAL ORIFICE PLATES

UNIVERSAL ORIFICE PLATES ARE THE MOST ECONOMICAL STYLE OF PLATE AVAILABLE BECAUSE OF LOW INITIAL COST, LESS MAINTENANCE, LESS STORAGE REQUIRED, PLUS THE NECESSITY OF STOCKING PLATES FOR VARIOUS PRESSURE RATINGS IS ELIMINATED. UNIVERSAL ORIFICE PLATES ARE INTERCHANGEABLE WITH MANY TYPES OF PLATE HOLDERS.

THREE TYPES OF SEALING UNITS (DUAL SEALS, TEFLON SEALS, METAL SEALS) ARE AVAILABLE FOR USE WITH THE UNIVERSAL ORIFICE PLATES.

REMOVABLE SEALS ARE STANDARD FROM 2" TO 10" SIZES, BUT ARE ALSO AVAILABLE IN LARGER SIZES.

## DIMENSIONS & WEIGHTS—

LINE SIZE A

PLATE O.D.

B

PLATE

THICKNESS

BLANK

WEIGHT (LBS)

2" 2.437 1/8 .17

3" 3.437 1/8 .34

4" 4.406 1/8 .55

6" 6.437 1/8 1.18

8" 8.437 1/4 4.06

10" 10.687 1/4 6.41

12" 12.593 1/4 9.61

14" 14.000 3/8 11.91

16" 16.000 3/8 22.69

18" 18.000 3/8 28.72

20" 20.000 3/8 35.24

24" 24.000 1/2 66.70

26" 26.000 1/2 79.52

30" 30.000 1/2 105.08

"DVS"

“DVS” ORIFICE PLATES INCLUDE A SYNTHETIC RUBBER SEALING UNIT BONDED TO BOTH SIDES OF THE PLATE FOR A NON-METALLIC SEAL IN THE ORIFICE FITTING BODY SEATS. PLATE O.D. (“A” DIMENSION), SHOWN ON THE CHART TO THE RIGHT, INCLUDES THE RUBBER SEAL.

LINE SIZE A

PLATE O.D.

B

PLATE

THICKNESS

BLANK

WEIGHT (LBS)

12” 13.079 1/4 9.61

12” 13.079 3/8 15.50

14” 14.563 1/4 11.91

16” 16.563 3/8 22.69

18” 18.563 3/8 28.72

20” 20.563 3/8 35.24

24” 24.500 1/2 66.70

26” 26.750 1/2 79.52

30” 30.750 1/2 105.08

WHEN ORDERING, PLEASE SPECIFY:

- LINE SIZE
- TYPE OF MATERIAL
- ORIFICE DIAMETER
- THICKNESS
- QUANTITY

## PADDLE TYPE ORIFICE PLATES

PADDLE TYPE ORIFICE PLATES ARE USED WITH ORIFICE FLANGE UNIONS.

CIRCULAR DISCS ARE MACHINED WITH THE SAME PROCESS

AS UNIVERSAL  
TYPE PLATES. NEXT, HANDLES ARE ATTACHED CAREFULLY  
BY HELIARC  
WELDING, AND ARE THEN SANDED TO A POLISHED FINISH.  
PLATE IS THEN  
STAMPED ON THE INLET SIDE WITH THE LINE SIZE, FLANGE  
RATING, ORIFICE  
DIAMETER, AND TYPE OF MATERIAL.

## DIMENSIONS

LINE  
SIZE  
125  
LBS  
&  
150  
LBS  
ANSI  
250  
LBS  
&  
300  
LBS  
ANSI  
400  
LBS  
ANSI  
600  
LBS  
ANSI  
900  
LBS  
ANSI  
1500  
LBS  
ANSI  
2500  
LBS  
ANSI  
FOR ALL PRESSURE  
RATINGS  
125-2500 LBS ANSI  
HANDLE  
DIMENSIONS  
PLATE  
THICKNESS  
A A A A A A B C D

1/2 1 7/8 2 1/8 2 1/8 2 1/8 2 1/2 2 1/2 2 3/4 4 1 1/8  
 3/4 2 1/4 2 5/8 2 5/8 2 5/8 2 3/4 2 3/4 3 4 1 1/8  
 1 2 5/8 2 7/8 2 7/8 2 7/8 3 1/8 3 1/8 3 3/8 4 1 1/8  
 1 1/4 3 3 1/4 3 1/4 3 1/4 3 1/2 3 1/2 4 1/8 4 1 1/8  
 1 1/2 3 3/8 3 3/4 3 3/4 3 3/4 3 7/8 3 7/8 4 5/8 4 1 1/8  
 2 4 1/8 4 3/8 4 3/8 4 3/8 5 5/8 5 5/8 5 3/4 4 1 1/8  
 2 1/2 4 7/8 5 1/8 5 1/8 5 1/8 6 1/2 6 1/2 6 5/8 4 1 1/4 1/8  
 3 5 3/8 5 7/8 5 7/8 5 7/8 6 5/8 6 7/8 7 3/4 4 1 1/4 1/8  
 4 6 7/8 7 1/8 7 7 5/8 8 1/8 8 1/4 9 1/4 4 1 1/4 1/8  
 5 7 3/4 8 1/2 8 3/8 9 1/2 9 3/4 10 11 5 1 1/2 1/8  
 6 8 3/4 9 7/8 9 3/4 10 1/2 11 3/8 11 1/8 12 1/2 5 1 1/2 1/8  
 8 11 12 1/8 12 12 5/8 14 1/8 13 7/8 15 1/4 5 1 1/2 1/8  
 10 13 3/8 14 1/4 14 1/8 15 3/4 17 1/8 17 1/8 18 3/4 6 1 1/2 1/4  
 12 16 1/8 16 5/8 16 1/2 18 19 5/8 20 1/2 21 5/8 6 1 1/2 3/8  
 14 17 3/4 19 1/8 19 19 3/8 20 1/2 22 3/4 — 6 1 1/2 1/4  
 16 20 1/4 21 1/4 21 1/8 22 1/4 22 5/8 25 1/4 — 6 1 1/2 3/8  
 18 21 1/2 23 3/8 23 1/4 24 25 27 5/8 — 6 1 1/2 3/8  
 20 23 3/4 25 5/8 25 3/8 26 3/4 27 3/8 29 5/8 — 6 1 1/2 3/8  
 22 26 27 3/4 27 1/2 28 7/8 — — — 6 1 1/2 3/8  
 24 28 1/8 30 3/8 30 1/8 31 32 7/8 35 1/2 — 6 1 1/2 1/2  
 30 34 5/8 37 5/8 37 1/8 38 1/8 — — — 6 1 1/2 1/2  
 36 41 1/8 43 7/8 43 7/8 44 3/8 — — — 6 1 1/2 1/2

## WEIGHTS

LINE SIZE ANSI CLASS

125 & 150

ANSI CLASS

250 & 300

ANSI CLASS

600

ANSI CLASS

900

PLATE

THICKNESS

1/2 0.09 0.12 0.12 0.12 1/8

3/4 0.16 0.21 0.21 0.21 1/8

1 0.31 0.36 0.36 0.42 1/8

1 1/2 0.43 0.52 0.52 0.56 1/8

2 0.59 0.66 0.66 1.03 1/8

3 0.93 1.10 1.10 1.37 1/8

4 1.46 1.57 1.78 2.01 1/8

6 2.34 2.94 3.33 3.87 1/8

8 7.22 8.72 9.46 11.78 1/4

10 10.37 11.73 14.25 16.79 1/4

12 14.92 15.84 18.52 21.95 3/8

14 18.01 20.86 21.40 23.92 1/4

16 35.03 38.52 42.18 43.61 3/8

18 35.60 47.37 49.95 54.20 3/8

20 48.81 56.81 61.88 64.86 3/8

24 90.94 106.12 110.52 125.20 1/2

WHEN ORDERING, PLEASE

**SPECIFY:**

- **LINE SIZE**
- **TYPE OF MATERIAL**
- **FLANGE ANSI RATING**
- **ORIFICE DIAMETER**
- **THICKNESS**
- **QUANTITY**