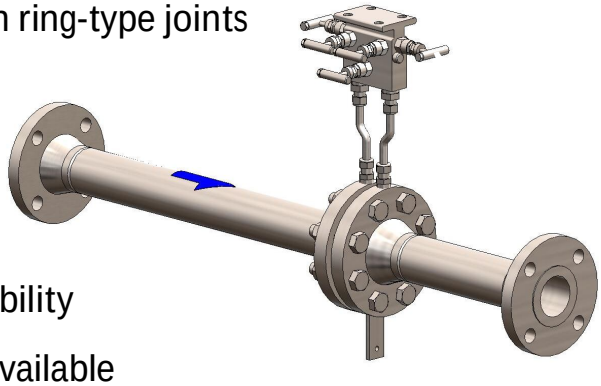
id Flow™

Is a division of id Solutions Automation & Control Products Inc.

Orifice Plate and Flange Assemblies

FEATURES:

- Designed in accordance with client specified standards including AGA, ASME, ISO. B31.1 and B31.3
- Meter Runs with welded or flanged integral orifice plate
- Paddle type, concentric (square edge, quadrant, conic), eccentric, segmental, bore & bevel and bore & counter bore
- 304SS, 316SS, Carbon Steel, Alloy 20, monel, hastelloy, duplex SS
- Pipe size: 1/2” to 60” (DN: 15-1500)
- Orifice assemblies:, ratings from 300# up to 2500#
- RTJ Orifice Plates are available to fit between ring-type joints
- Up to 200 cP (centiPoises) Viscosity
- Repeatability: +/- 0.1% of flow rate
- Accuracy: +/- 1% of flow rate
- Full documentation covering material traceability and compliance to standards and testing is available



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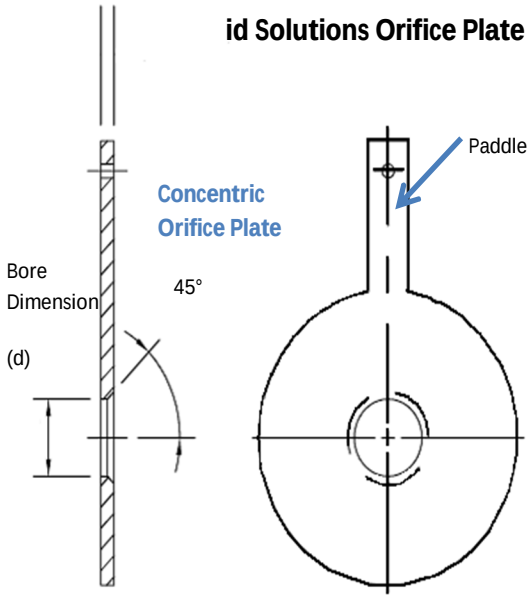
id Solutions Orifice Plate Model Description

Orifice Type	***#1** Model*
Restriction	IDFRP
Concentric	IDFCP
Segmental	IDFSP
Quandrant	IDFQP
Eccentric	IDFEP

***#2** Line Size*	
0.5	***005***
0.75	***075***
1	***010***
1.5	***015***
2	***020***
2.5	***025***
3	***030***
4	***040***
6	***060***
8	***080***
10	***010***
12	***120***
14	***140***
16	***160***
18	***180***
20	***200***
24	***240***



IDFCP3-030-316-18-300RF-XS-00

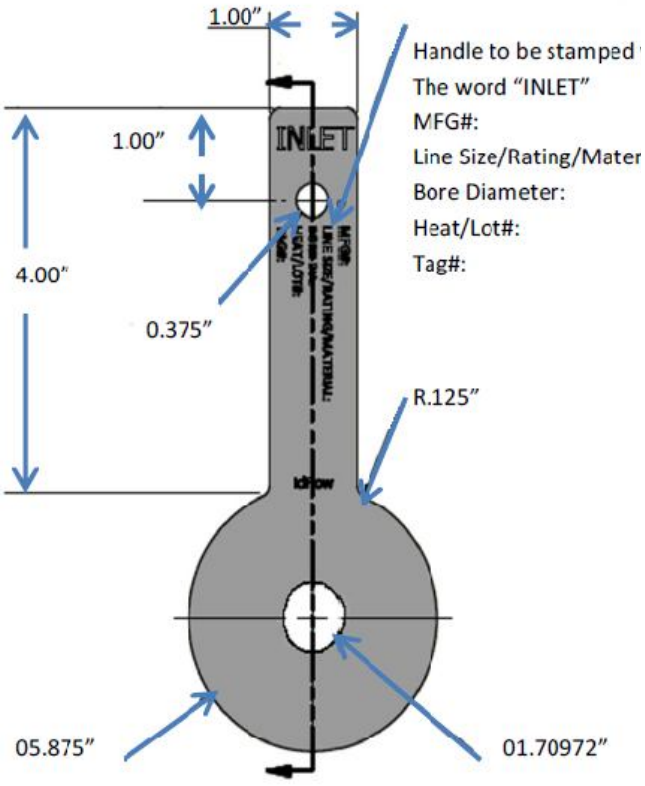
IDFCP3	030	316	18	300RF	XS	00
#1	**#2**	**#3**	**#4**	**#5**	**#6**	**#7**

***#3** Material*	
316SS	***316***
304SS	***304***
Carbon Steel	***WCB***
Hastelloy	***HST***

#4 Plate Thickness	
1/8"	***18***
¼"	***14***
½"	***12***

#5 Process Connection	
ANSI 150 RF	***150 RF***
ANSI 300 RF	***300 RF***
ANSI 600 RF	***600 RF***
ANSI 900 RF	***900 RF***
ANSI 1500 RF	***1500 RF***
ANSI 150 RTJ	***150 RTJ***
ANSI 300 RTJ	***300 RTJ***
ANSI 600 RTJ	***600 RTJ***
ANSI 900 RTJ	***900 RTJ***
ANSI 1500 RTJ	***1500 RTJ***

#6 Schedule / ID	
Schedule 10	***010***
Schedule 10S	***010S***
Schedule 40	***040***
Schedule 40S	***040S***
Schedule 80	***080***
Schedule 80S	***080S***
Standard	***STD***
Extra Strong	***XS***
ID	***value***
#7	
Drain Hole	***DRN***
Vent Hole	***VNT***



Additional options include bore calculation, drain or vent hole sizing, oxygen cleaning, Material Traceability Certificate, NACE, Canadian Registration, drawing, flange assembly, specified inspection and testing, etcetera.

The Concentric orifice is the most commonly used plate where the orifice bore is positioned in the center of the plate.

Should the plate require a bevel it is machined on the downstream side of the calculated bore dimension.

$\beta = \frac{d}{D}$ d orifice diameter, D pipe diameter

The Quadrant bored Orifice Plate is machined with a rounded inlet edge. The thickness of the plate must be at least equal to the radius. Any excess material is removed with a counter-bore on the downstream side of the plate.

The Eccentric bored Orifice Plate is machined off center. With the bottom of the bore setting inscribed within a circle equal to 98% of the pipe diameter.

The Segmental bored Orifice Plate is machined by removing a segment of a circle. With the bottom of the bore setting inscribed within a circle equal to 98% of the pipe diameter.

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id Flow Orifice Flange Model Description

Flange Model	
Weld Neck	IDFWNF
Slip On	IDFSOF
Threaded	IDFTF

#2 Line Size	
0.5	***005***
0.75	***075***
1	***010***
1.5	***015***
2	***020***
2.5	***025***
3	***030***
4	***040***
6	***060***
8	***080***
10	***100***
12	***120***
14	***140***
16	***160***
18	***180***
20	***200***
24	***240***

#3 Flange Material	
316SS	***316***
304SS	***304***
Carbon Steel	***WCB***
Hastelloy	***HST***

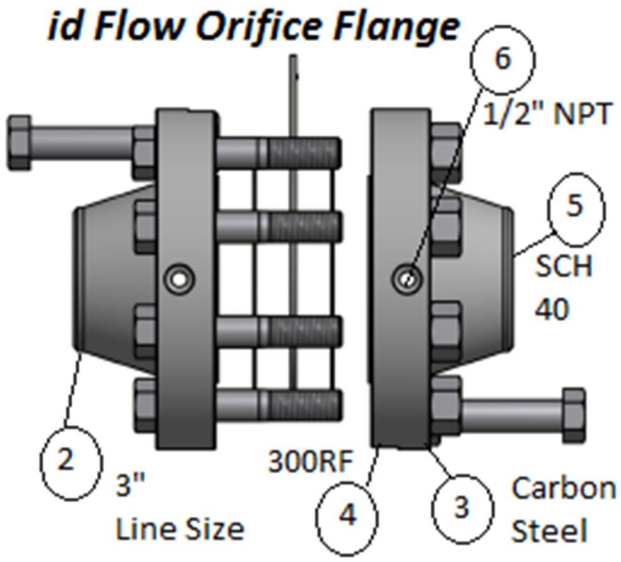
#4 Process Connection Type	
ANSI 300RF	***300RF***
ANSI 600RF	***600RF***
ANSI 900RF	***900RF***
ANSI 1500RF	***1500RF***
ANSI 2500RF	***2500RF***
ANSI 300 RTJ	***300RTJ***
ANSI 600 RTJ	***600RTJ***
ANSI 900 RTJ	***900RTJ***
ANSI 1500 RTJ	***1500RTJ***
ANSI 2500 RTJ	***2500RTJ***
Others on Application	

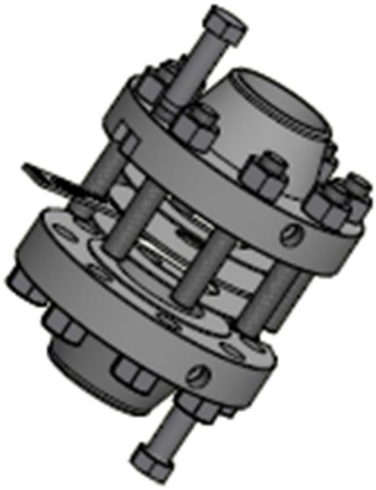
#5 Schedule / ID	
SCH 10	*010*
SCH 10S	*010S*
SCH 40	*040*
SCH 40S	*040S*
SCH 80	*080*
SCH 80S	*080S*
SCH 120	*120*
SCH 160	*160*
Standard	*STD*
X Strong	*XS*
XX Strong	*XXS*
ID	*Value*

#6 Flange Tap Connections	
1/2 inch NPT	***NPT12***
Included	
Two 1/16" thick non-asbestos gaskets	
Required number of number & size of Jackscrew nuts , studs & bolts	

IDFWNF-030-WCB-300RF-040-NPT12

IDFWNF	*030*	*WCB*	*300RF*	*040*	*NPT12*
#1	**#2**	**#3**	**#4**	**#5**	**#6**





Options include bore calculation, oxygen cleaning, Material Traceability Certificate, NACE, Canadian Registration, drawing, flange assembly, specified inspection and testing, etcetera.

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Type	***#1** Model*
Meter Run	IDFMR

id Solutions Meter Run Model Description

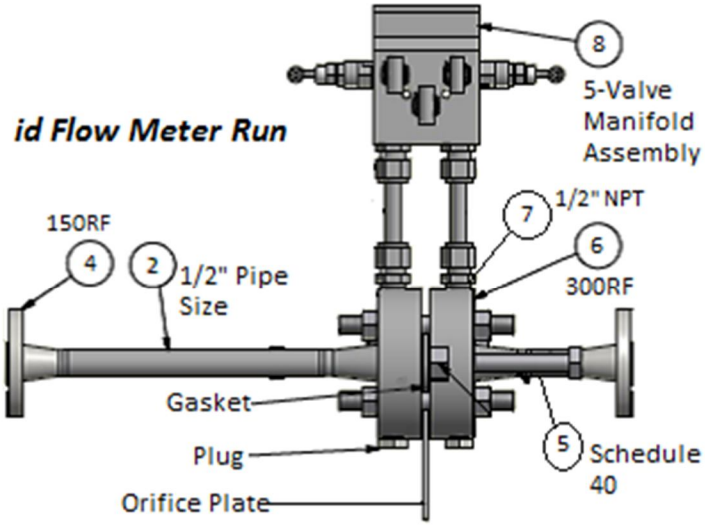
IDFMR-005-WCB-150RF-040-300RF-NPT12

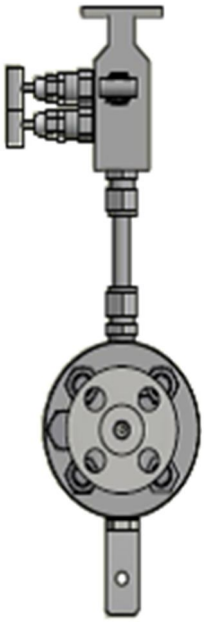
IDFMR	*005*	*WCB*	*150RF*	*040*	*300RF*	*NPT12*
#1	**#2**	**#3**	**#4**	**#5**	**#6**	**#7**

#2Pipe	
0.5	***005***
0.75	***075***
1	***010***
1.5	***015***
2	***020***
2.5	***025***
3	***030***
4	***040***
6	***060***
8	***080***
10	***100***
12	***120***
14	***140***
16	***160***
18	***180***
20	***200***
24	***240***

#3 Material	
316SS	***316***
304SS	***304***
Carbon Steel	***WCB***
Hastelloy	***HST***

#4 Process Connection	
Weld In	***000***
ANSI 150 RF	***150RF***
ANSI 300 RF	***300RF***
ANSI 600 RF	***600RF***
ANSI 900 RF	***900RF***
ANSI 1500 RF	***1500RF***
ANSI 150 RTJ	***150RTJ***
ANSI 300 RTJ	***300RTJ***
ANSI 600 RTJ	***600RTJ***
ANSI 900 RTJ	***900RTJ***
ANSI 1500 RTJ	***1500RTJ***





#5 Schedule	
Schedule 10	***010***
Schedule 10S	***010S***
Schedule 40	***040***
Schedule 40S	***040S***
Schedule 80	***080***
Schedule 80S	***080S***
Schedule 120	***120***
Schedule 160	***160***
Others	

#6 Orifice Flange	
ANSI 150 RF	***150RF***
ANSI 300 RF	***300RF***
ANSI 600 RF	***600RF***
ANSI 900 RF	***900RF***
ANSI 1500 RF	***1500RF***
ANSI 150 RTJ	***150RTJ***
ANSI 300 RTJ	***300RTJ***
ANSI 600 RTJ	***600RTJ***
ANSI 900 RTJ	***900RTJ***
ANSI 1500 RTJ	***1500RTJ***

#7 Instrument Connection	
1/2 inch NPT	***NPT12***
¾ inch NPT	***NPT34***
Socket weld 1/2 inch	***SO12***
#8 Options	

Additional options include bore calculation, oxygen cleaning, Material Traceability Certificate, NACE, Canadian Registration, drawing, flange assembly, specified inspection and testing, integral manifolds, secondary electronics, flow conditioners, etcetera.

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