

Tapping of differential pressure is done by orifice plates with flange taps. So that differential pressure can be tapped from points located 24.5mm away from both sides of the orifice plate, the pressure tapping pipe is equipped to the flange section. Like the standard orifice plates with annular chambers, these plates are used with pipes of 25A to 300A for measuring liquid, steam, gas, etc.

The orifice plates are the same as those of type OPV, but orifice plates with holding rings are employed in the case of ANSI standard flanges of ring joint method.

#### ■ FEATURE

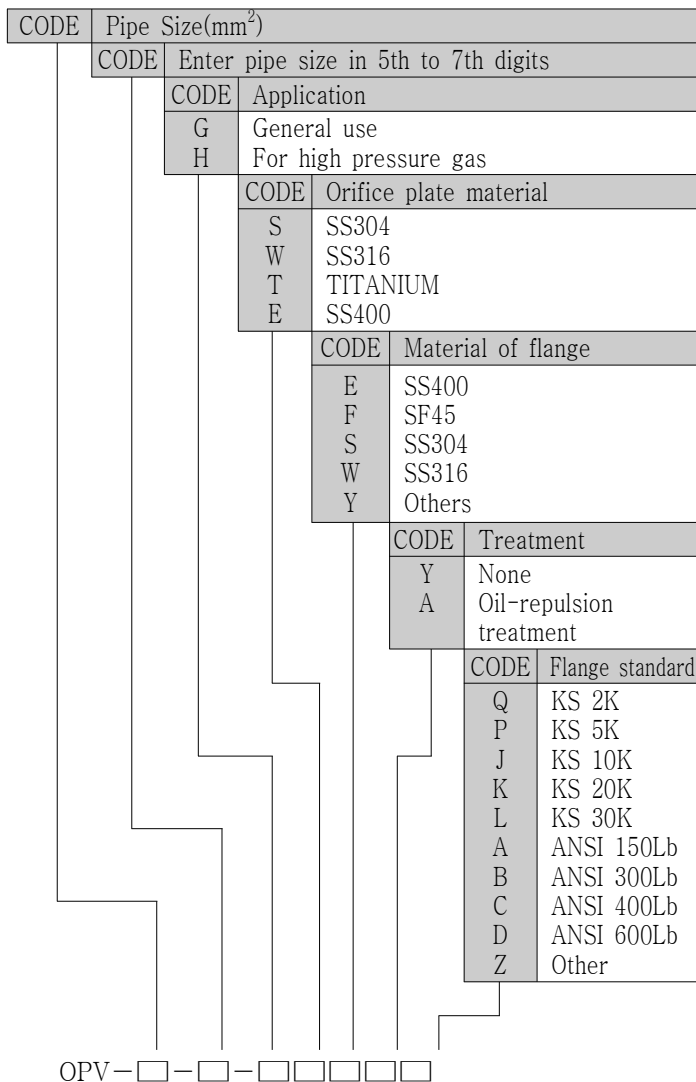
- High pressure gas certified product

WORKING TEMP' RANGE	Constant temp. (-10~350℃)
CONSTANT PRESSURE	50Kg/cm <sup>2</sup> max.
PIPE NOMINAL DIAMETER	25~750A
CERTIFICATION NO	Pressure-resisting airtight test MA39317 structure MB39317

#### ■ SPECIFICATIONS

TYPE	Concentric orifice such as "edge" type
CALIBRATION METHOD	According to ISO5167, 1980
NOMINAL PIPE SIZE	25~300A (These orifice plates can be manufactured for nominal pipe sizes up to 750A.)
MATERIAL	Flange : SS400, SF45, SS304, SS316, SS304L, SS316L
	Plate with tab handle : SS304, SS316, SS410, SS400, Titanium
	Holding ring : Same material as plates
GASKET	Valqua : No. 1500 or No, 7000
CONNECTION METHOD	Connection flange : KS or JIS 10, 20, 30, 40, * 63K RF ANSI 150, 300, 400, 600, * 900Lb RF *900, *1500, 2500Lb RJ
	Differential pressure tapping Holes : PT ½ internal tread.

#### ■ ORDERING



#### ※ Note

- 1) Combination of orifice plates and Flanges,

		Orifice plate			
		S	W	R	E
Flange	E	○	×	○	○
	F	○	×	○	×
	S	○	○	○	×
	W	×	○	×	×

- 2) Standard manufacturing range is for pipe size up to 300mm
- 3) In case of flange material SS400 : Pressure rating for pipe flange 20K. Working temperature 350℃
- 4) Incase for flange material SF45 : Pressure rating for pipe flange 30K. Working temperature 425℃
- 5) Designate material SUS304(code S) for orifice plates and flanges in case of oil-repulsion treatment.



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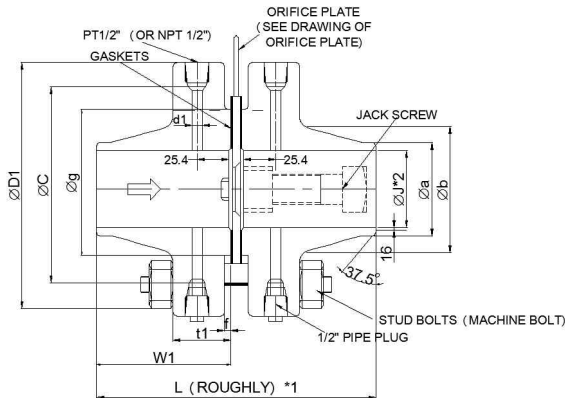
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E-mail: shico007@chol.com Homepage : [www.shico.co.kr](http://www.shico.co.kr)

# SHICO. RAISED FACE WELD NECK ORIFICE FLANGES

MODEL : OPV Series

## EXTERNAL VIEW



- \* 1 L : GASKET THICKNESS 2.5mm
- \* 2 J : REFER TO ORIFICE CALCULATION SHEET

## FOR KS 10K FLANGE

Nominal Pipe Size		Dia of Flange D1	Thickness of Flange t1	D of Hub at Point of Weld'g a	Dia of Hub b	Length Through Hub W1	Dia of Raised Face g	Height of Raised Face f	Dia of Tap Holes d1	Dia of Bolt Circle c	Number of Bolts	Bolt Size	Total Length L
A	B												
1	25	125	38.1	34.0	50	80	70	1	4	90	4	M16	165
1¼	32	135	38.1	42.7	60	80	80	2	4	100	4	M16	165
1½	40	140	38.1	48.6	66	83	85	2	4	105	4	M16	171
2	50	155	38.1	60.5	80	83	100	2	4	120	4	M16	171
2½	65	175	38.1	76.3	98	86	120	2	4	140	4	M16	178
3	80	185	38.1	89.1	112	86	130	2	6	150	8	M16	178
3½	90	195	38.1	101.6	122	86	140	2	6	160	8	M16	178
4	100	210	38.1	114.3	132	90	155	2	6	175	8	M16	186
5	125	250	38.1	139.8	160	95	185	2	8	210	8	M20	196
6	150	280	38.1	165.2	190	100	215	2	8	240	8	M20	206
8	200	330	38.1	216.3	238	110	265	2	12	290	12	M20	227
9	225	350	38.1	241.8	264	110	285	2	12	310	12	M20	227
10	250	400	38.1	267.4	292	115	325	2	12	355	12	M22	237
12	300	445	38.1	318.5	346	120	370	3	12	400	16	M22	247
14	350	490	38.1	355.6	386	130	415	3	12	445	16	M22	267
16	400	560	38.1	406.4	442	130	475	3	12	510	16	M24	267

## FOR KS 20K FLANGE

Nominal Pipe Size		Dia of Flange D1	Thickness of Flange t1	D of Hub at Point of Weld'g a	Dia of Hub b	Length Through Hub W1	Dia of Raised Face g	Height of Raised Face f	Dia of Tap Holes d1	Dia of Bolt Circle c	Number of Bolts	Bolt Size	Total Length L
A	B												
1	25	125	38.1	34.0	50	80	70	1	4	90	4	M16	165
1¼	32	135	38.1	42.7	60	80	80	2	4	100	4	M16	165
1½	40	140	38.1	48.6	66	83	85	2	4	105	4	M16	171
2	50	155	38.1	60.5	80	83	100	2	4	120	8	M16	171
2½	65	175	38.1	76.3	98	86	120	2	4	140	8	M16	178
3	80	200	38.1	89.1	112	86	135	2	6	160	8	M20	178
3½	90	210	38.1	101.6	124	86	145	2	6	170	8	M20	178
4	100	225	38.1	114.3	138	90	160	2	6	185	8	M20	186
5	125	270	38.1	139.8	170	95	195	2	8	225	8	M22	196
6	150	305	38.1	165.2	202	100	230	2	8	260	12	M22	206
8	200	350	38.1	216.3	252	110	275	2	12	305	12	M22	227
10	250	430	38.1	267.4	312	115	345	2	12	380	12	M24	237
12	300	480	38.1	318.5	364	120	395	3	12	430	16	M24	247
14	350	540	40.0	355.6	408	132	440	3	12	480	16	M30	271
15	400	605	46.0	406.4	456	138	495	3	12	540	16	M30	283
18	450	675	48.0	457.2	522	148	560	3	12	605	20	M30	303



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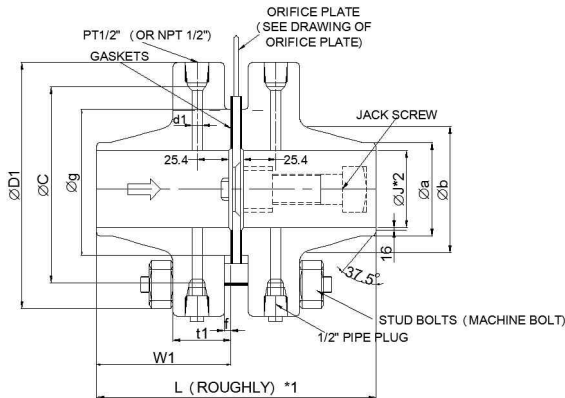
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# SHICO.

# MODEL : OPV Series

## RAISED FACE WELD NECK ORIFICE FLANGES

### EXTERNAL VIEW



- \* 1 L : GASKET THICKNESS 2.5mm
- \* 2 J : REFER TO ORIFICE CALCULATION SHEET

### FOR KS 30K FLANGE

Nominal Pipe Size		Dia of Flange D1	Thickness of Flange t1	D of Hub at Point of Weld'g a	Dia of Hub b	Length Through Hub W1	Dia of Raised Face g	Height of Raised Face f	Dia of Tap Holes d1	Dia of Bolt Circle c	Number of Bolts	Bolt Size	Total Length L
A	B												
1	25	130	38.1	34.4	54	83	70	1	4	95	4	M16	171
1 1/4	32	140	38.1	43.1	64	84	80	2	4	105	4	M16	173
1 1/2	40	160	38.1	49.1	70	86	90	2	4	120	4	M20	177
2	50	165	38.1	61.0	86	86	105	2	4	130	8	M16	177
2 1/2	65	200	38.1	76.9	104	90	130	2	4	160	8	M20	186
3	80	210	38.1	89.7	118	90	140	2	6	170	8	M20	186
3 1/2	90	230	38.1	102.3	130	90	150	2	6	185	8	M22	186
4	100	240	38.1	115.1	142	92	160	2	6	195	8	M22	190
5	125	275	38.1	140.7	172	102	195	2	8	230	8	M22	210
6	150	325	38.1	166.2	204	102	235	2	8	275	8	M24	210
8	200	370	42	217.5	256	112	280	2	12	320	12	M24	231
10	250	450	48	268.7	314	118	345	2	12	390	12	M30	243
12	300	515	52	320.0	370	130	405	3	12	450	16	M30	267
14	350	560	54	357.2	412	144	450	3	12	495	16	M30	295
16	400	630	60	408.3	468	150	510	3	12	560	16	M36	307

### FOR KS 40K FLANGE

Nominal Pipe Size		Dia of Flange D1	Thickness of Flange t1	D of Hub at Point of Weld'g a	Dia of Hub b	Length Through Hub W1	Dia of Raised Face g	Height of Raised Face f	Dia of Tap Holes d1	Dia of Bolt Circle c	Number of Bolts	Bolt Size	Total Length L
A	B												
1	25	130	38.1	34.4	54	83	70	1	4	95	4	M16	171
1 1/4	32	140	38.1	43.1	64	84	80	2	4	105	4	M16	173
1 1/2	40	160	38.1	49.1	70	86	90	2	4	120	4	M20	177
2	50	165	38.1	61.0	86	86	105	2	4	130	8	M16	177
2 1/2	65	200	38.1	76.9	104	90	130	2	4	160	8	M20	186
3	80	210	38.1	89.7	118	90	140	2	6	170	8	M20	186
3 1/2	90	230	38.1	102.2	130	90	150	2	6	185	8	M22	186
4	100	250	38.1	115.1	152	92	165	2	6	195	8	M22	190
5	125	300	40	140.7	192	104	200	2	8	250	8	M24	214
6	150	355	44	166.2	220	108	240	2	8	295	12	M30	222
8	200	405	50	217.5	270	120	290	2	12	345	12	M30	247
10	250	475	56	268.7	330	126	355	2	12	410	12	M30	259
12	300	540	60	320.0	380	138	410	3	12	470	16	M36	283
14	350	585	64	357.2	426	154	455	3	12	515	16	M36	315
15	400	645	70	408.3	476	160	515	3	12	570	16	M36	327
18	450	675		457.2	522		560	3	12	605	20	M30	303



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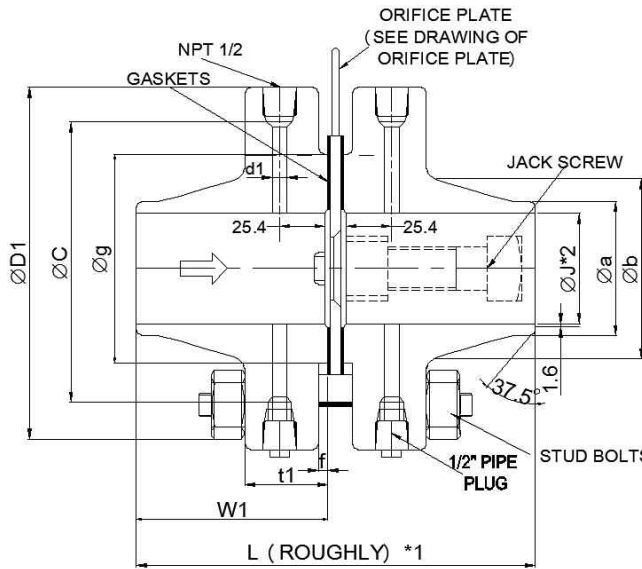
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# SHICO.

MODEL : OPV Series

## RAISED FACE WELD NECK ORIFICE FLANGES

### EXTERNAL VIEW



\* 1 L : GASKET THICKNESS 1/16"

STUD BOLTS (MACHINE BOLT) \* 2 J : REFER TO ORIFICE CALCULATION SHEET

### DIMENSION - 300lb A.N.S.I.

Nominal Pipe Size		Dia of Flange D1	Thickness of Flange t1	D of Hub at Point of Weld g a	Dia of Hub b	Length Through Hub W1	Dia of Raised Face g	Height of Raised Face f	Dia of Tap Holes d1	Dia of Bolt Circle c	Number of Bolts	Bolt Size	Total Length L
A	B												
15	1/2	3 3/4	1 1/2	0.84	1 1/2	3	1 3/8	0.06		2 5/8	4	1/2	
20	3/4	4 5/8	1 1/2	1.05	1 7/8	3 1/8	1 11/16	0.06		3 1/4	4	5/8	
25	1	4 7/8	1 1/2	1.32	2 1/8	3 1/4	2	0.06	1/4	3 1/2	4	5/8	
40	1 1/2	6 1/8	1 1/2	1.90	2 3/4	3 3/8	2 7/8	0.06	1/4	4 1/2	4	3/4	
50	2	6 1/2	1 1/2	2.38	3 5/16	3 3/8	3 5/8	0.06	1/4	5	8	5/8	
65	2 1/2	7 1/2	1 1/2	2.88	3 15/16	3 1/2	4 1/8	0.06	1/4	5 7/8	8	3/4	
80	3	8 1/4	1 1/2	3.50	4 5/8	3 1/2	5	0.06	3/8	6 5/8	8	3/4	
100	4	10	1 1/2	4.50	5 3/4	3 5/8	6 3/16	0.06	1/2	7 7/8	8	3/4	
150	6	12 1/2	1 1/2	6.63	8 1/8	3 15/16	8 1/2	0.06	1/2	10 5/8	12	3/4	
200	8	15	1 5/8	8.63	10 1/4	4 3/8	10 5/8	0.06	1/2	13	12	7/8	
250	10	17 1/2	1 7/8	10.75	12 5/8	4 5/8	12 3/4	0.06	1/2	15 1/4	16	1	
300	12	20 1/2	2	12.75	14 3/4	5 1/8	15	0.06	1/2	17 3/4	20	1 1/8	
350	14	23	2 1/8	14.00	16 3/4	5 5/8	16 1/4	0.06	1/2	20 1/4	20	1 1/8	
400	16	25 1/2	2 1/4	16.00	19	5 3/4	18 1/2	0.06	1/2	22 1/2	20	1 1/4	
450	18	28	2 3/8	18.00	21	6 1/4	21	0.06	1/2	24 3/4	20	1 1/4	
600	20	30 1/2	2 1/2	20.00	23 1/8	6 3/8	23	0.06	1/2	27	24	1 1/4	
700	24	36	2 3/4	24.00	27 5/8	6 5/8	27 1/4	0.06	1/2	32	24	1 1/2	



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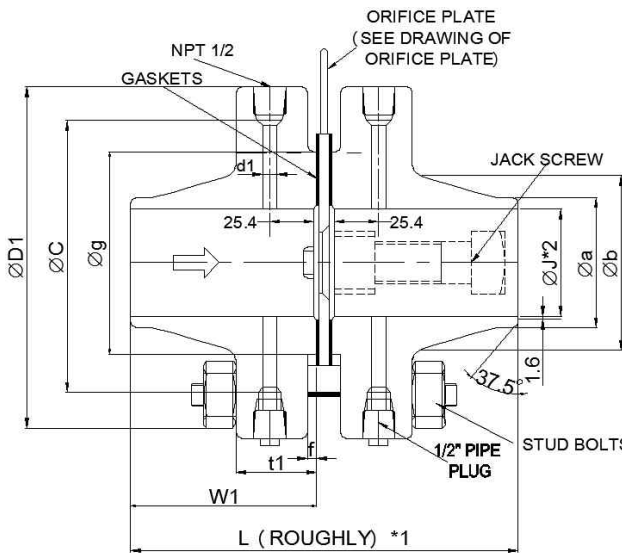
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# SHICO.

MODEL : OPV Series

## RAISED FACE WELD NECK ORIFICE FLANGES

### EXTERNAL VIEW



\* 1 L : GASKET THICKNESS 1/16"  
 \* 2 J : REFER TO ORIFICE CALCULATION SHEET

### DIMENSION - 600lb A.N.S.I.

Nominal Pipe Size		Dia of Flange D1	Thickness of Flange t1	D of Hub at Point of Weld'g a	Dia of Hub b	Length Through Hub W1	Dia of Raised Face g	Height of Raised Face f	Dia of Tap Holes d1	Dia of Bolt Circle c	Number of Bolts	Bolt Size	Total Length L
A	B												
100	4	10 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	4.50	6	4	6 <sup>3</sup> / <sub>16</sub>	0.25	1/2	8 <sup>1</sup> / <sub>2</sub>	8	7/8	
150	6	14	1 <sup>7</sup> / <sub>8</sub>	6.63	8 <sup>3</sup> / <sub>4</sub>	4 <sup>5</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>2</sub>	0.25	1/2	11 <sup>1</sup> / <sub>2</sub>	12	1	
200	8	16 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>16</sub>	8.63	10 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	10 <sup>5</sup> / <sub>8</sub>	0.25	1/2	13 <sup>3</sup> / <sub>4</sub>	12	1 <sup>1</sup> / <sub>8</sub>	
250	10	20	2 <sup>1</sup> / <sub>2</sub>	10.75	13 <sup>1</sup> / <sub>2</sub>	6	12 <sup>3</sup> / <sub>4</sub>	0.25	1/2	17	16	1 <sup>1</sup> / <sub>4</sub>	
300	12	22	2 <sup>5</sup> / <sub>8</sub>	12.75	15 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>8</sub>	15	0.25	1/2	19 <sup>1</sup> / <sub>4</sub>	20	1 <sup>1</sup> / <sub>4</sub>	
350	14	23 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	14.00	17	6 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>4</sub>	0.25	1/2	20 <sup>3</sup> / <sub>4</sub>	20	1 <sup>3</sup> / <sub>8</sub>	
400	16	27	3	16.00	19 <sup>1</sup> / <sub>2</sub>	7	18 <sup>1</sup> / <sub>2</sub>	0.25	1/2	23 <sup>3</sup> / <sub>4</sub>	20	1 <sup>1</sup> / <sub>2</sub>	
450	18	29 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>4</sub>	18.00	21 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	21	0.25	1/2	25 <sup>3</sup> / <sub>4</sub>	20	1 <sup>5</sup> / <sub>8</sub>	
500	20	32	3 <sup>1</sup> / <sub>2</sub>	20.00	24	7 <sup>1</sup> / <sub>2</sub>	23	0.25	1/2	28 <sup>1</sup> / <sub>2</sub>	24	1 <sup>5</sup> / <sub>8</sub>	
600	24	37	4	24.00	28 <sup>1</sup> / <sub>4</sub>	8	27 <sup>1</sup> / <sub>4</sub>	0.06	1/2	33	24	1 <sup>7</sup> / <sub>8</sub>	

### DIMENSION - 900lb A.N.S.I.

Nominal Pipe Size		Dia of Flange D1	Thickness of Flange t1	D of Hub at Point of Weld'g a	Dia of Hub b	Length Through Hub W1	Dia of Raised Face g	Height of Raised Face f	Dia of Tap Holes d1	Dia of Bolt Circle c	Number of Bolts	Bolt Size	Total Length L
A	B												
25	1	5 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	1.32	2 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	2	0.25	1/4	4	4	7/8	
40	1 <sup>1</sup> / <sub>2</sub>	7	1 <sup>3</sup> / <sub>8</sub>	1.90	2 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	0.25	1/4	4 <sup>7</sup> / <sub>8</sub>	4	1	
50	2	8 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	2.38	4 <sup>1</sup> / <sub>8</sub>	4	3 <sup>5</sup> / <sub>8</sub>	0.25	1/4	6 <sup>1</sup> / <sub>2</sub>	8	7/8	
65	2 <sup>1</sup> / <sub>2</sub>	9 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	2.88	4 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	0.25	1/4	7 <sup>1</sup> / <sub>2</sub>	8	1	
80	3	9 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	3.50	5	4	5	0.25	3/8	7 <sup>1</sup> / <sub>2</sub>	8	7/8	
100	4	11 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	4.50	6 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>16</sub>	0.25	1/2	9 <sup>1</sup> / <sub>4</sub>	8	1 <sup>1</sup> / <sub>8</sub>	
150	6	15	2 <sup>3</sup> / <sub>16</sub>	6.63	9 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	0.25	1/2	12 <sup>1</sup> / <sub>2</sub>	12	1 <sup>1</sup> / <sub>8</sub>	
200	8	18 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	8.63	11 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>8</sub>	10 <sup>5</sup> / <sub>8</sub>	0.25	1/2	15 <sup>1</sup> / <sub>2</sub>	12	1 <sup>3</sup> / <sub>8</sub>	
250	10	21 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	10.75	14 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	0.25	1/2	18 <sup>1</sup> / <sub>2</sub>	16	1 <sup>3</sup> / <sub>8</sub>	
300	12	24	3 <sup>1</sup> / <sub>8</sub>	12.75	16 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>	15	0.06	1/2	21	20	1 <sup>3</sup> / <sub>8</sub>	



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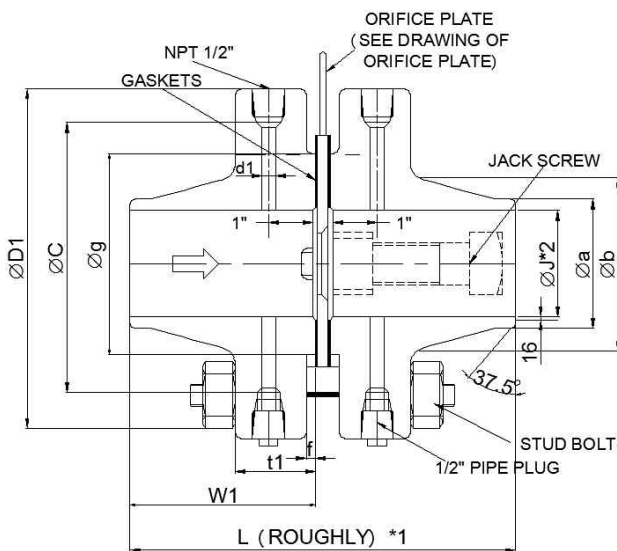
G-16

# SHICO.

MODEL : OPV Series

## RAISED FACE WELD NECK ORIFICE FLANGES

### EXTERNAL VIEW



\* 1 L : GASKET THICKNESS 1/16"

\* 2 J : REFER TO ORIFICE CALCULATION SHEET

### DIMENSION - 1500Lb A.N.S.I.

Nominal Pipe Size		Dia of Flange D1	Thickness of Flange t1	D of Hub at Point of Weld'g a	Dia of Hub b	Length Through Hub W1	Dia of Raised Face g	Height of Raised Face f	Dia of Tap Holes d1	Dia of Bolt Circle c	Number of Bolts	Bolt Size	Total Length L
A	B												
25	1	5 $\frac{7}{8}$	1 $\frac{3}{8}$	1.32	2 $\frac{1}{16}$	3 $\frac{1}{8}$	2	0.25	$\frac{1}{4}$	4	4	$\frac{7}{8}$	
40	1 $\frac{1}{2}$	7	1 $\frac{3}{8}$	1.90	2 $\frac{3}{4}$	3 $\frac{3}{8}$	2 $\frac{7}{8}$	0.25	$\frac{1}{4}$	4 $\frac{7}{8}$	4	1	
50	2	8 $\frac{1}{2}$	1 $\frac{1}{2}$	2.38	4 $\frac{1}{8}$	4	3 $\frac{5}{8}$	0.25	$\frac{1}{4}$	6 $\frac{1}{2}$	8	$\frac{7}{8}$	
65	2 $\frac{1}{2}$	9 $\frac{5}{8}$	1 $\frac{5}{8}$	2.88	4 $\frac{7}{8}$	4 $\frac{1}{8}$	4 $\frac{1}{8}$	0.25	$\frac{1}{4}$	7 $\frac{1}{2}$	8	1	
80	3	10 $\frac{1}{2}$	1 $\frac{7}{8}$	3.50	5 $\frac{1}{4}$	4 $\frac{5}{8}$	5	0.25	$\frac{3}{8}$	8	8	1 $\frac{1}{8}$	
100	4	12 $\frac{1}{4}$	2 $\frac{1}{8}$	4.50	6 $\frac{3}{8}$	4 $\frac{7}{8}$	6 $\frac{3}{16}$	0.25	$\frac{1}{2}$	9 $\frac{1}{2}$	8	1 $\frac{1}{4}$	
150	6	15 $\frac{1}{2}$	3 $\frac{1}{4}$	6.63	9	6 $\frac{3}{4}$	8 $\frac{1}{2}$	0.25	$\frac{1}{2}$	12 $\frac{1}{2}$	12	1 $\frac{3}{8}$	
200	8	19	3 $\frac{5}{8}$	8.63	11 $\frac{1}{2}$	8 $\frac{3}{8}$	10 $\frac{5}{8}$	0.25	$\frac{1}{2}$	15 $\frac{1}{2}$	12	1 $\frac{5}{8}$	
250	10	23	4 $\frac{1}{4}$	10.75	14 $\frac{1}{2}$	10	12 $\frac{3}{4}$	0.25	$\frac{1}{2}$	19	12	1 $\frac{7}{8}$	
300	12	26 $\frac{1}{2}$	4 $\frac{7}{8}$	12.75	17 $\frac{3}{4}$	11 $\frac{1}{8}$	15	0.25	$\frac{1}{2}$	22 $\frac{1}{2}$	16	2	

### DIMENSION - 2500Lb A.N.S.I.

Nominal Pipe Size		Dia of Flange D1	Thickness of Flange t1	D of Hub at Point of Weld'g a	Dia of Hub b	Length Through Hub W1	Dia of Raised Face g	Height of Raised Face f	Dia of Tap Holes d1	Dia of Bolt Circle c	Number of Bolts	Bolt Size	Total Length L
A	B												
25	1	6 $\frac{1}{4}$	1 $\frac{3}{8}$	1.32	2 $\frac{1}{4}$	3 $\frac{1}{2}$	2	0.25	$\frac{1}{4}$	4 $\frac{1}{4}$	4	$\frac{7}{8}$	
40	1 $\frac{1}{2}$	8	1 $\frac{3}{4}$	1.90	3 $\frac{1}{8}$	4 $\frac{3}{8}$	2 $\frac{7}{8}$	0.25	$\frac{1}{4}$	5 $\frac{3}{4}$	4	1 $\frac{1}{8}$	
50	2	9 $\frac{1}{4}$	2	2.38	3 $\frac{3}{4}$	5	3 $\frac{5}{8}$	0.25	$\frac{1}{4}$	6 $\frac{3}{4}$	8	1	
65	2 $\frac{1}{2}$	10 $\frac{1}{2}$	2 $\frac{1}{4}$	2.88	4 $\frac{1}{2}$	5 $\frac{5}{8}$	4 $\frac{1}{8}$	0.25	$\frac{1}{4}$	7 $\frac{3}{4}$	8	1 $\frac{1}{8}$	
80	3	12	2 $\frac{5}{8}$	3.50	5 $\frac{1}{4}$	6 $\frac{5}{8}$	5	0.25	$\frac{3}{8}$	9	8	1 $\frac{1}{4}$	
100	4	14	3	4.50	6 $\frac{1}{2}$	7 $\frac{1}{2}$	6 $\frac{3}{16}$	0.25	$\frac{1}{2}$	10 $\frac{3}{4}$	8	1 $\frac{1}{2}$	
150	6	19	4 $\frac{1}{4}$	6.63	9 $\frac{1}{4}$	10 $\frac{3}{4}$	8 $\frac{1}{2}$	0.25	$\frac{1}{2}$	14 $\frac{1}{2}$	8	2	
200	8	21 $\frac{3}{4}$	5	8.63	12	12 $\frac{1}{2}$	10 $\frac{5}{8}$	0.25	$\frac{1}{2}$	17 $\frac{1}{4}$	12	2	
250	10	26 $\frac{1}{2}$	6 $\frac{1}{2}$	10.75	14 $\frac{3}{4}$	16 $\frac{1}{2}$	12 $\frac{3}{4}$	0.25	$\frac{1}{2}$	21 $\frac{1}{4}$	12	2 $\frac{1}{2}$	
300	12	30	7 $\frac{1}{4}$	12.75	17 $\frac{3}{8}$	18 $\frac{1}{4}$	15	0.06	$\frac{1}{2}$	24 $\frac{3}{8}$	16	2 $\frac{3}{4}$	



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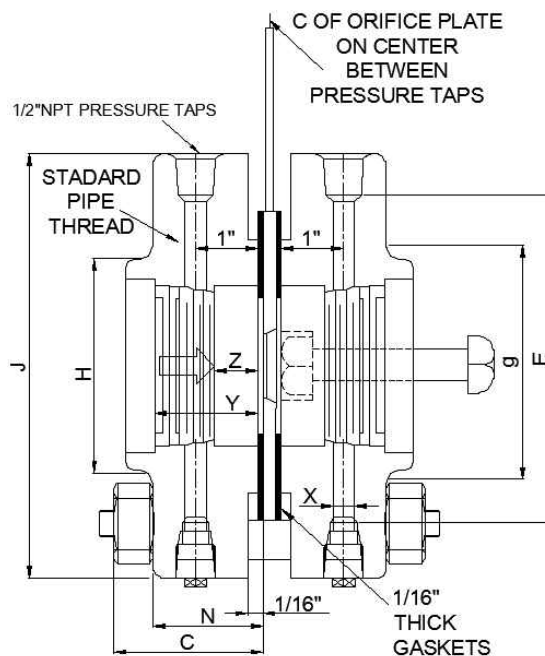
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# SHICO.

MODEL : OPV Series

## RAISED FACE WELD NECK ORIFICE FLANGES

### EXTERNAL VIEW



ORIFICE PLATE NOT INCLUDED

### DIMENSION (in inches) - 300Lb A.N.S.I.

Nominal Pipe Size		Dia of Flange J	Thickness of Flange N	Diam of Raised Face g	Length Through Hub C	Height to Counter Bore Y	Face Counter Bore Height Z	Dia of Hub H	Pressure Top Hole Size X	Dia of Bolt Circle E	Number of Bolts	Bolt Size	Total Length L
A	B												
15	1/2	3 3/4	1 1/2	1 3/8	1 13/16	1 1/8	1/2	1 1/2	1/8	2 5/8	4	1/2	
20	3/4	4 5/8	1 1/2	1 11/16	1 7/8	1 1/8	1/2	1 7/8	1/8	3 1/4	4	5/8	
25	1	4 7/8	1 1/2	2	1 7/8	1 3/8	1/2	2 1/8	1/8	3 1/2	4	5/8	
40	1 1/2	6 1/8	1 1/2	2 7/8	1 7/8	1 3/8	1/2	2 3/4	3/16	4 1/2	4	3/4	
50	2	6 1/2	1 1/2	3 3/8	1 15/16	1 9/16	7/16	3 5/16	3/8	5	8	5/8	
65	2 1/2	7 1/2	1 1/2	4 1/8	2	1 11/16	7/16	3 15/16	3/8	5 7/8	8	3/4	
80	3	8 1/4	1 1/2	5	2 1/16	1 11/16	7/16	4 5/8	3/8	6 5/8	8	3/4	
100	4	10	1 1/2	6 3/16	2 1/8	1 7/8	7/16	5 3/4	1/2	7 7/8	7	3/4	

### DIMENSION (in inches) - 400Lb A.N.S.I.

Nominal Pipe Size		Dia of Flange J	Thickness of Flange N	Diam of Raised Face g	Length Through Hub C	Height to Counter Bore Y	Face Counter Bore Height Z	Dia of Hub H	Pressure Top Hole Size X	Dia of Bolt Circle E	Number of Bolts	Bolt Size	Total Length L
A	B												
100	4	10	1 3/8	6 3/16	2	1 11/16	.	5 3/4	1/2	7 7/8	8	7/8	

### DIMENSION (in inches) - 600Lb A.N.S.I.

Nominal Pipe Size		Dia of Flange J	Thickness of Flange N	Diam of Raised Face g	Length Through Hub C	Height to Counter Bore Y	Face Counter Bore Height Z	Dia of Hub H	Pressure Top Hole Size X	Dia of Bolt Circle E	Number of Bolts	Bolt Size	Total Length L
A	B												
100	4	10 3/4	1 1/2	6 3/16	2 1/8	1 7/8	.	6	1/2	8 1/2	8	7/8	



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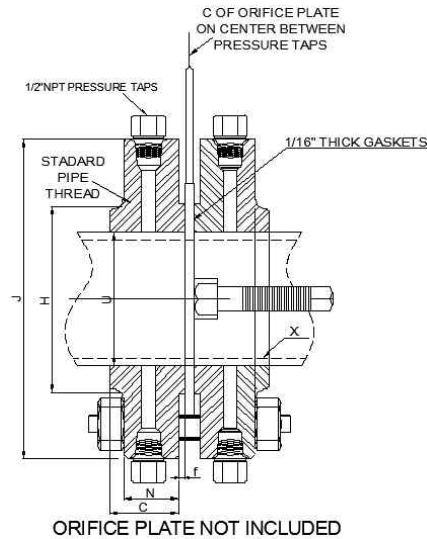
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# SHICO. RAISED FACE SLIP-ON ORIFICE FLANGES

MODEL : OPV Series

## EXTERNAL VIEW



## DIMENSION (in inches) - 300Lb A.N.S.I.

Nominal Pipe Size		Bore of Flange U	Dia of Flange J	Thickness of Flange N	Dia of Raised Face G	Length Through Hub C	Dia of Hub H	Pressure Top Hole Size X	Dia of Bolt Circle E	Number of Bolts	Bolt Size	Height of Raised Face 'f'	Total Length
A	B												
15	1/2	7/8	3 3/4	1 1/2	1 3/8	1 13/16	1 1/2	1/8	5 5/8	4	1/2	0.06	
20	3/4	1 3/32	4 5/8	1 1/2	1 11/16	1 7/8	1 7/8	1/8	3 1/4	4	5/8	0.06	
25	1	1 3/8	4 7/8	1 1/2	2	1 7/8	2 1/8	1/8	3 1/2	4	5/8	0.06	
40	1 1/2	1 31/32	6 1/8	1 1/2	2 5/8	1 5/8	2 3/4	3/16	4 1/2	4	3/4	0.06	
50	2	2 7/16	6 1/2	1 1/2	3 15/16	1 15/16	3 5/16	3/8	5	8	5/8	0.06	
65	2 1/2	2 15/16	7 1/2	1 1/2	4 1/8	2	3 5/16	3/8	5 5/8	8	3/4	0.06	
80	3	3 19/32	8 1/4	1 1/2	5	2 1/16	4 5/8	3/8	6 5/8	8	3/4	0.06	
100	4	4 19/32	10	1 1/2	6 3/16	2 5/8	5 3/4	1/2	7 5/8	8	3/4	0.06	
150	6	6 23/32	12 1/2	1 1/2	8 1/2	2 5/8	8 5/8	1/2	10 5/8	12	3/4	0.06	
200	8	8 23/32	15	1 5/8	10 5/8	2 17/16	10 1/4	1/2	13	12	7/8	0.06	
250	10	10 7/8	17 1/2	1 7/8	12 3/4	2 5/8	12 5/8	1/2	15 1/4	16	1	0.06	
300	12	12 7/8	20 1/2	2	15	2 7/8	14 3/4	1/2	17 3/4	16	1 1/8	0.06	
350	14	14 5/32	23	2 1/8	16 1/4	3	16 3/4	1/2	20 1/4	20	1 1/8	0.06	
400	16	16 5/32	25 1/2	2 1/4	18 1/2	3 1/4	19	1/2	22 1/2	20	1 1/4	0.06	
450	18	18 3/16	28	2 3/8	21	3 1/2	21	1/2	24 3/4	24	1 1/4	0.06	
500	20	20 7/32	30 1/2	2 1/2	23	3 3/4	23 1/8	1/2	27	24	1 1/4	0.06	
600	24	24 1/4	36	2 3/4	27 1/4	4 3/16	27 5/8	1/2	32	24	1 1/2	0.06	

## DIMENSION (in inches) - 400Lb A.N.S.I.

100	4	4 19/32	10	1 3/8	6 3/16	2	5 3/4	1/2	7 7/8	8	7/8	0.25	
150	6	6 23/32	12 1/2	1 5/8	8 1/2	2 1/4	8 1/8	1/2	10 5/8	12	7/8	0.25	
200	8	8 23/32	15	1 7/8	10 5/8	2 17/16	10 1/4	1/2	13	12	1	0.25	
250	10	10 7/8	17 1/2	2 1/8	12 3/4	2 7/8	12 5/8	1/2	15 1/4	16	1 1/8	0.25	
300	12	12 7/8	20 1/2	2 1/4	15	3 1/8	14 3/4	1/2	17 3/4	16	1 1/4	0.25	

## DIMENSION (in inches) - 600Lb A.N.S.I.

100	4 19/32	4	10 3/4	1 1/2	6 3/16	2 1/8	6	1/2	8 1/2	8	7/8	0.25	
150	6 23/32	6	14	1 7/8	8 1/2	2 5/8	8 3/4	1/2	11 1/2	12	1	0.25	
200	8 23/32	8	16 1/2	2 3/16	10 5/8	3	10 3/4	1/2	13 3/4	12	1 1/8	0.25	
250	10 7/8	10	20	2 1/2	12 3/4	3 3/8	13 1/2	1/2	17	16	1 1/4	0.25	
300	12 7/8	12	22	2 5/8	15 5/8	3 5/8	15 3/4	1/2	19 1/4	20	1 1/4	0.25	



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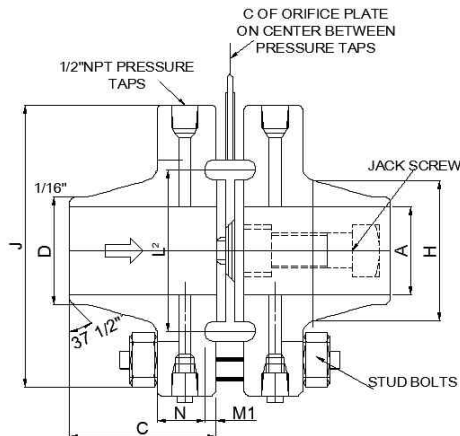
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## RING-TYPE JOINT WELD NECK ORIFICE FLANGES

### EXTERNAL VIEW



### DIMENSION (in inches) - 300Lb A.N.S.I.

Nominal Pipe Size		A.P.I Ring Number	Dia of Flange J	Thickness of Flange N	Length Through Hub C	Dia of Hub H	D of Hub at Point of Weld'g O	Pitch D. of Ring & Groove L2	Depth of Groove M1	Pressure Tap Hole Size X	Dia of Bolt Circle E	Number of Bolts	Bolt Size
A	B												
15	1/2	R-11	3 3/4	1 1/4	2 3/4	1 1/2	0.84	1 11/32	7/32	1/8	2 5/8	4	1/2
20	3/4	R-13	4 5/8	1 1/4	2 7/8	1 7/8	1.05	1 11/16	1/4	1/8	3 1/4	4	5/8
25	1	R-16	4 7/8	1 1/4	3	2 1/8	1.32	2	1/4	1/8	3 1/2	4	5/8
40	1 1/2	R-20	6 1/8	1 1/4	3 1/8	2 3/4	1.90	2 11/16	1/4	3/16	4 1/2	4	3/4
50	2	R-23	6 1/2	1 1/4	3 1/8	3 5/16	2.38	3 1/4	5/16	3/8	5	8	5/8
65	2 1/2	R-26	7 1/2	1 1/4	3 1/4	3 5/16	2.88	4	5/16	3/8	5 7/8	8	3/4
80	3	R-31	8 1/4	1 1/4	3 1/4	4 5/8	3.50	4 7/8	5/16	3/8	6 5/8	8	3/4
100	4	R-37	10	1 1/4	3 3/8	5 3/4	4.50	5 7/8	5/16	1/2	7 7/8	8	3/4
150	6	R-45	12 1/2	1 7/16	3 7/8	8 1/8	6.63	8 5/16	5/16	1/2	10 5/8	12	3/4
200	8	R-49	15	1 5/8	4 3/8	10 1/4	8.63	10 5/8	5/16	1/2	13	12	7/8
250	10	R-53	17 1/2	1 7/8	4 5/8	12 5/8	10.75	12 3/4	5/16	1/2	15 1/4	16	1
300	12	R-57	20 1/2	2	5 5/8	14 3/4	12.75	15	5/16	1/2	17 3/4	16	1 1/8
350	14	R-61	23	2 1/8	5 5/8	16 3/4	14.00	16 1/2	5/16	1/2	20 1/4	20	1 1/8
400	16	R-65	25 1/2	2 1/4	5 3/4	19	16.00	18 1/2	5/16	1/2	22 1/2	20	1 1/4
450	18	R-69	28	2 3/8	6 1/4	21	18.00	21	5/16	1/2	24 3/4	24	1 1/4
500	20	R-73	30 1/2	2 1/2	6 3/8	23 1/8	20.00	23	3/8	1/2	27	24	1 1/4
600	24	R-77	36	2 3/4	6 5/8	27 5/8	24.00	27 1/4	7/16	1/2	32	24	1 1/2

### DIMENSION (in inches) - 400Lb A.N.S.I.

100	4	R-37	10	1 3/8	3 1/2	5 3/4	4.50	5 7/8	5/16	1/2	7 7/8	8	7/8
150	6	R-45	12 1/2	1 5/8	4 1/16	8 1/8	6.63	8 5/16	5/16	1/2	10 5/8	12	7/8
200	8	R-49	15	1 7/8	4 5/8	10 1/4	8.63	10 5/8	5/16	1/2	13	12	1
250	10	R-53	17 1/2	2 1/8	4 7/8	12 5/8	10.75	12 3/4	5/16	1/2	15 1/4	16	1 1/8
300	12	R-57	20 1/2	2 1/4	5 3/8	14 3/4	12.75	15	5/16	1/2	17 3/4	16	1 1/4
350	14	R-61	23	2 3/8	5 5/8	16 3/4	14.00	16 1/2	5/16	1/2	20 1/4	20	1 1/4
400	16	R-65	25 1/2	2 1/2	6	19	16.00	18 1/2	5/16	1/2	22 1/2	20	1 3/8
450	18	R-69	28	2 5/8	6 1/2	21	18.00	21	5/16	1/2	24 3/4	24	1 3/8
500	20	R-73	30 1/2	2 3/4	6 5/8	23 1/8	20.00	23	3/8	1/2	27	24	1 1/2
600	24	R-77	36	3	6 7/8	27 5/8	24.00	27 1/4	7/16	1/2	32	24	1 3/4

\* Does not include depth of ring groove  
 \*\* 3" and smaller, same as 300lb A.N.S.I



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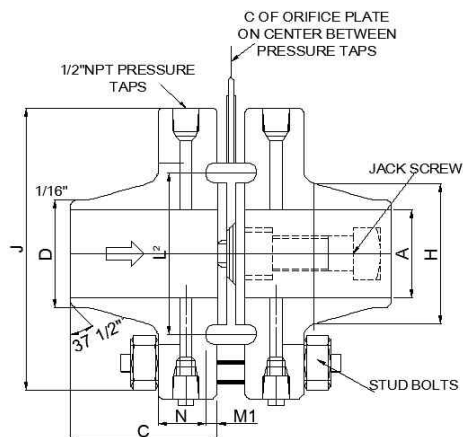
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# SHICO.

MODEL : OPV Series

## RING-TYPE JOINT WELD NECK ORIFICE FLANGES

### EXTERNAL VIEW



ORIFICE PLATE AND RTJ HOLDER NOT INCLUDED

### DIMENSION (in inches) - 600Lb A.N.S.I.

Nominal Pipe Size		A.P.I Ring Number	Dia of Flange J	Thickness of Flange N	Length Through Hub C	Dia of Hub H	D of Hub at Point of Weld'g O	Pitch D. of Ring & Groove L2	Depth of Groove M1	Pressure Tap Hole Size X	Dia of Bolt Circle E	Number of Bolts	Bolt Size
A	B												
100	4	R-37	10 $\frac{3}{4}$	1 $\frac{1}{2}$	4	6	4.50	5 $\frac{7}{8}$	$\frac{5}{16}$	$\frac{1}{2}$	8 $\frac{1}{2}$	8	$\frac{7}{8}$
150	6	R-45	14	1 $\frac{7}{8}$	4 $\frac{5}{8}$	8 $\frac{3}{4}$	6.63	8 $\frac{5}{16}$	$\frac{5}{16}$	$\frac{1}{2}$	11 $\frac{1}{2}$	12	1
200	8	R-49	16 $\frac{1}{2}$	2 $\frac{3}{16}$	5 $\frac{1}{4}$	10 $\frac{3}{4}$	8.63	10 $\frac{5}{8}$	$\frac{5}{16}$	$\frac{1}{2}$	13 $\frac{3}{4}$	12	1 $\frac{1}{8}$
250	10	R-53	20	2 $\frac{1}{2}$	6	13 $\frac{1}{2}$	10.75	12 $\frac{3}{4}$	$\frac{5}{16}$	$\frac{1}{2}$	17	16	1 $\frac{1}{4}$
300	12	R-57	22	2 $\frac{3}{8}$	6 $\frac{1}{8}$	15 $\frac{3}{4}$	12.75	15	$\frac{5}{16}$	$\frac{1}{2}$	19 $\frac{1}{4}$	20	1 $\frac{1}{4}$
350	14	R-61	23 $\frac{3}{4}$	2 $\frac{3}{4}$	6 $\frac{1}{2}$	17	14.00	16 $\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{2}$	20 $\frac{3}{4}$	20	1 $\frac{3}{8}$
400	16	R-65	27	3	7	19 $\frac{1}{2}$	16.00	18 $\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{2}$	23 $\frac{3}{4}$	20	1 $\frac{1}{2}$
450	18	R-69	29 $\frac{1}{4}$	3 $\frac{1}{4}$	7 $\frac{1}{4}$	21 $\frac{1}{2}$	18.00	21	$\frac{5}{16}$	$\frac{1}{2}$	25 $\frac{3}{4}$	20	1 $\frac{5}{8}$
500	20	R-73	32	3 $\frac{1}{2}$	7 $\frac{1}{2}$	24	20.00	23	$\frac{3}{8}$	$\frac{1}{2}$	28 $\frac{1}{2}$	24	1 $\frac{5}{8}$
600	24	R-77	37	4	8	28 $\frac{1}{4}$	24.00	27 $\frac{1}{4}$	$\frac{7}{16}$	$\frac{1}{2}$	33	24	1 $\frac{7}{8}$

### DIMENSION (in inches) - 900Lb A.N.S.I.

25	1	R-16	5 $\frac{7}{8}$	1 $\frac{1}{4}$	3	2 $\frac{1}{16}$	1.32	2	$\frac{1}{4}$	$\frac{1}{8}$	4	4	$\frac{7}{8}$
40	1 $\frac{1}{2}$	R-20	7	1 $\frac{1}{4}$	3 $\frac{1}{4}$	2 $\frac{3}{4}$	1.90	2 $\frac{11}{16}$	$\frac{1}{4}$	$\frac{3}{16}$	4 $\frac{7}{8}$	4	1
50	2	R-24	8 $\frac{1}{2}$	1 $\frac{1}{2}$	4	4 $\frac{1}{8}$	2.38	3 $\frac{3}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	6 $\frac{1}{2}$	8	$\frac{7}{8}$
65	2 $\frac{1}{2}$	R-27	9 $\frac{5}{8}$	1 $\frac{5}{8}$	4 $\frac{1}{8}$	4 $\frac{1}{8}$	2.88	4 $\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	7 $\frac{1}{2}$	8	1
80	3	R-31	9 $\frac{1}{2}$	1 $\frac{1}{2}$	4	5	3.50	4 $\frac{7}{8}$	$\frac{5}{16}$	$\frac{3}{8}$	7 $\frac{1}{2}$	8	$\frac{7}{8}$
100	4	R-37	11	1 $\frac{3}{4}$	4 $\frac{1}{2}$	6 $\frac{1}{4}$	4.50	5 $\frac{7}{8}$	$\frac{5}{16}$	$\frac{1}{2}$	9 $\frac{1}{4}$	8	1 $\frac{1}{8}$
150	6	R-45	15	2 $\frac{3}{16}$	5 $\frac{1}{2}$	9 $\frac{1}{4}$	6.63	8 $\frac{5}{16}$	$\frac{5}{16}$	$\frac{1}{2}$	12 $\frac{1}{2}$	12	1 $\frac{1}{8}$
200	8	R-49	18 $\frac{1}{2}$	2 $\frac{1}{2}$	6 $\frac{3}{8}$	11 $\frac{3}{4}$	8.63	10 $\frac{5}{8}$	$\frac{5}{16}$	$\frac{1}{2}$	15 $\frac{1}{2}$	12	1 $\frac{3}{8}$
250	10	R-53	21 $\frac{1}{2}$	2 $\frac{3}{4}$	7 $\frac{1}{4}$	14 $\frac{1}{2}$	10.75	12 $\frac{3}{4}$	$\frac{5}{16}$	$\frac{1}{2}$	18 $\frac{1}{2}$	16	1 $\frac{3}{8}$
300	12	R-57	24	3 $\frac{1}{8}$	7 $\frac{3}{8}$	16 $\frac{1}{2}$	12.75	15	$\frac{5}{16}$	$\frac{1}{2}$	21	20	1 $\frac{3}{8}$

\* Does not include depth of ring groove

\*\* 3" and smaller, same as 300lb A.N.S.I



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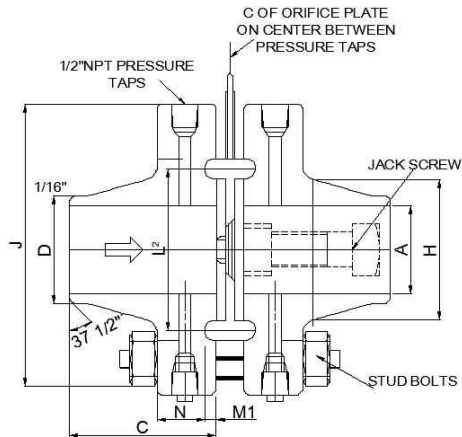
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## RING-TYPE JOINT WELD NECK ORIFICE FLANGES

### EXTERNAL VIEW



ORIFICE PLATE AND RTJ HOLDER NOT INCLUDED

### DIMENSION (in inches) - 1500Lb A.N.S.I.

Nominal Pipe Size		A.P.I Ring Number	Dia of Flange J	Thickness of Flange N	Length Through Hub C	Dia of Hub H	D of Hub at Point of Weld'g O	Pitch D. of Ring & Groove L2	Depth of Groove M1	Pressure Tap Hole Size X	Dia of Bolt Circle E	Number of Bolts	Bolt Size
A	B												
25	1	R-16	5 $\frac{7}{8}$	1 $\frac{1}{4}$	3	2 $\frac{1}{16}$	1.32	2	$\frac{1}{4}$	$\frac{1}{8}$	4	4	$\frac{7}{8}$
40	1 $\frac{1}{2}$	R-20	7	1 $\frac{1}{4}$	3 $\frac{1}{4}$	2 $\frac{3}{4}$	1.90	2 $\frac{11}{16}$	$\frac{1}{4}$	$\frac{3}{16}$	4 $\frac{7}{8}$	4	1
50	2	R-24	8 $\frac{1}{2}$	1 $\frac{1}{2}$	4	4 $\frac{1}{8}$	2.38	3 $\frac{3}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	6 $\frac{1}{2}$	8	$\frac{7}{8}$
65	2 $\frac{1}{2}$	R-27	9 $\frac{5}{8}$	1 $\frac{5}{8}$	4 $\frac{1}{8}$	4 $\frac{7}{8}$	2.88	4 $\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	7 $\frac{1}{2}$	8	1
80	3	R-35	10 $\frac{1}{2}$	1 $\frac{7}{8}$	4 $\frac{5}{8}$	5 $\frac{1}{4}$	3.50	5 $\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$	8	8	1 $\frac{1}{8}$
100	4	R-39	12 $\frac{1}{4}$	2 $\frac{1}{8}$	4 $\frac{7}{8}$	6 $\frac{3}{8}$	4.50	6 $\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{2}$	9 $\frac{1}{2}$	8	1 $\frac{1}{4}$
150	6	R-46	15 $\frac{1}{2}$	3 $\frac{1}{4}$	6 $\frac{3}{4}$	9	6.63	8 $\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	12 $\frac{1}{2}$	12	1 $\frac{3}{8}$
200	8	R-50	19	3 $\frac{5}{8}$	8 $\frac{3}{8}$	11 $\frac{1}{2}$	8.63	10 $\frac{5}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	15 $\frac{1}{2}$	12	1 $\frac{5}{8}$
250	10	R-54	23	4 $\frac{1}{4}$	10	14 $\frac{1}{2}$	10.75	12 $\frac{3}{4}$	$\frac{7}{16}$	$\frac{1}{2}$	19	12	1 $\frac{7}{8}$
300	12	R-58	26 $\frac{1}{2}$	4 $\frac{7}{8}$	11 $\frac{1}{8}$	17 $\frac{3}{4}$	12.75	15	$\frac{9}{16}$	$\frac{1}{2}$	22 $\frac{1}{2}$	16	2

### DIMENSION (in inches) - 2500Lb A.N.S.I.

25	1	R-16	5 $\frac{7}{8}$	1 $\frac{1}{4}$	3	2 $\frac{1}{16}$	1.32	2	$\frac{1}{4}$	$\frac{1}{8}$	4	4	$\frac{7}{8}$
40	1 $\frac{1}{2}$	R-20	7	1 $\frac{1}{4}$	3 $\frac{1}{4}$	2 $\frac{3}{4}$	1.90	2 $\frac{11}{16}$	$\frac{1}{4}$	$\frac{3}{16}$	4 $\frac{7}{8}$	4	1
50	2	R-24	8 $\frac{1}{2}$	1 $\frac{1}{2}$	4	4 $\frac{1}{8}$	2.38	3 $\frac{3}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	6 $\frac{1}{2}$	8	$\frac{7}{8}$
65	2 $\frac{1}{2}$	R-27	9 $\frac{5}{8}$	1 $\frac{5}{8}$	4 $\frac{1}{8}$	4 $\frac{1}{8}$	2.88	4 $\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	7 $\frac{1}{2}$	8	1
80	3	R-31	9 $\frac{1}{2}$	1 $\frac{1}{2}$	4	5	3.50	4 $\frac{7}{8}$	$\frac{5}{16}$	$\frac{3}{8}$	7 $\frac{1}{2}$	8	$\frac{7}{8}$
100	4	R-37	11	1 $\frac{3}{4}$	4 $\frac{1}{2}$	6 $\frac{1}{4}$	4.50	5 $\frac{7}{8}$	$\frac{5}{16}$	$\frac{1}{2}$	9 $\frac{1}{4}$	8	1 $\frac{1}{8}$
150	6	R-45	15	2 $\frac{3}{16}$	5 $\frac{1}{2}$	9 $\frac{1}{4}$	6.63	8 $\frac{5}{16}$	$\frac{5}{16}$	$\frac{1}{2}$	12 $\frac{1}{2}$	12	1 $\frac{1}{8}$
200	8	R-49	18 $\frac{1}{2}$	2 $\frac{1}{2}$	6 $\frac{3}{8}$	11 $\frac{3}{4}$	8.63	10 $\frac{5}{8}$	$\frac{5}{16}$	$\frac{1}{2}$	15 $\frac{1}{2}$	12	1 $\frac{3}{8}$
250	10	R-53	21 $\frac{1}{2}$	2 $\frac{3}{4}$	7 $\frac{1}{4}$	14 $\frac{1}{2}$	10.75	12 $\frac{3}{4}$	$\frac{5}{16}$	$\frac{1}{2}$	18 $\frac{1}{2}$	16	1 $\frac{3}{8}$
300	12	R-57	24	3 $\frac{1}{8}$	7 $\frac{3}{8}$	16 $\frac{1}{2}$	12.75	15	$\frac{5}{16}$	$\frac{1}{2}$	21	20	1 $\frac{3}{8}$

\* Does not include depth of ring groove

\*\* 3" and smaller, same as 300lb A.N.S.I



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# SHICO. ORIFICE FLANGE PLATES

MODEL : OPV Series

## ■ STANDARD SPECIFICATIONS

(For the Concentric Bore Orifice Plate)

- **Accuracy** : Typical flow rate measurement accuracy, including the transmitter but without flow calibration, is  $\pm 1\%$  to  $\pm 2\%$  of upper range value
- **Application** : Concentric square inlet-edged bore orifice plates are the most commonly used differential pressure producing primary devices for clean liquids, gases, and low-velocity vapor(steam) flow applications. The recommended application pipe Reynolds Number for these plates is 2000, and for best accuracy 1000.
- **Nominal Line Size** : 15 to 900mm (1/2 to 36inch) is standard. "Refer to Optional Specifications" section for other available line sizes
- **Outside Diameter** : Standard concentric-bore orifice plates are suitable for use with ANSI Class 150, 300, 400 and 600 angles. Refer to "Optional Specifications" section for others.
- **Legend** : The upstream side of the tab handle is indelibly marked "INLET" along with the bore size, flange size and class. The downstream side of the tab handle is stamped with the SHICO logo and indelibly marked with the plate material.
- **Orifice Computation** : When an orifice plate is purchased with a SHICO measuring instrument, SHICO will calculate the orifice plate bore diameter at no charge. The computation is based on KSA 0612 and ISO 5167, 1980.
- **Orifice Plate Material** : The material for the standard concentric-bore orifice plate can be either AISI Type 304 or 316 stainless steel (304SS or 316SS). These plates conform to National Association of Corrosion Engineer's (NACE) Standard MR-01-75. Refer to "Optional Specifications" section for larger line size.

※ Flow Calibration standards  
: ISO 5167  
AGA report

## ■ Tap Handle Specification

- **Width** : SHICO Orifice Plates, have a tab handle width of 25mm(1.0 in) for line sizes up to 350mm (14 inch), and 38mm(1.5 inch) for larger line size.
- **Hole Size** : Varies with line size. Refer to "Dimension-Nominal" section.

## ■ ORDERING NUMBER

CODE	Pipe Diameter(mm)
CODE	Enter pipe size (A)
CODE	
0	Pressure equalizing pipe None
1	For Steel Pipe above 500mm diameter
CODE	Orifice plate material
S	SUS304
W	SUS316
T	TITANIUM
E	SS400
CODE	Treatment
Y	None
A	Oil repulsion treatment
CODE	Flange standard
Q	KS 2K
P	KS 5K
J	KS 10K
K	KS 20K
L	KS 30K
A	ANSI 150Lb
B	ANSI 300Lb
C	ANSI 400Lb
D	ANSI 600Lb
Z	Other

OPV-□-□-□□□□□



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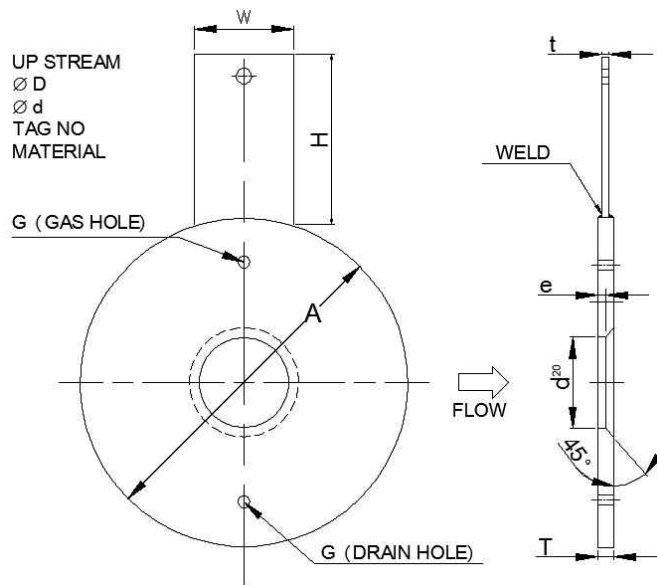
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# SHICO. ORIFICE FLANGE PLATES

MODEL : OPV Series

## ORIFICE FLANGE PLATE (FOR KS AND JIS FLANGE)



\* $d^{20}$  : ORIFICE DIAMETER AT 20°C  
 REFER TO ORIFICE CALCULATED SHEET

## DIMENSIONS(mm)

Nominal Pipe Size		Outside Diam of Plate(A)						Thickness of Edge (e)	Thickness of Pipe (T)	Tab Handle		
A	B	2K, 5K	10K	20K	30K	40K	63K			Width (W)	High (H)	Thickness (t)
15	1/2	50	58	58	64	64	69	0.2-0.3	2	25	95	2
20	3/4	55	63	63	69	69	75	0.2-0.4	2	25	95	2
25	1	63	71	71	76	76	77	0.2-0.4	2	25	95	2
32	1 1/4	75	81	81	86	86	87	0.3-0.5	2	25	95	2
40	1 1/2	80	86	86	97	97	105	0.3-0.5	2	25	95	2
50	2	90	101	101	111	111	122	0.5-0.8	2	25	95	2
65	2 1/2	115	121	121	137	137	150	0.5-0.8	3	32	95	2
80	3	125	131	137	147	147	160	0.5-0.8	3	32	95	2
100	4	146	156	162	170	180	193	0.8-1.2	3	38	105	2
125	5	181	187	200	205	223	232	0.8-1.2	3	38	105	2
150	6	211	217	235	248	262	272	0.8-1.2	3	38	105	2
200	8	257	267	280	293	312	327	1.5-2.0	4	38	105	2
250	10	322	330	353	357	377	391	4	4	44	120	3
300	12	367	375	403	417	431	446	4	4	44	120	3
350	14	410	420	447	462	476	484	4	4	44	120	3
400	16	470	483	507	521	531	544	4	4	44	120	3
450	18	532	538	572				5	5	44	160	5
500	20	582	593	627				5	5	60	160	5
550	22	640	647	681				5	5	60	160	5
600	24	690	697	731				5	5	60	160	5
750	30	853	867					6	5	60	160	6
900	36	1003	1017					8	8	60	180	8



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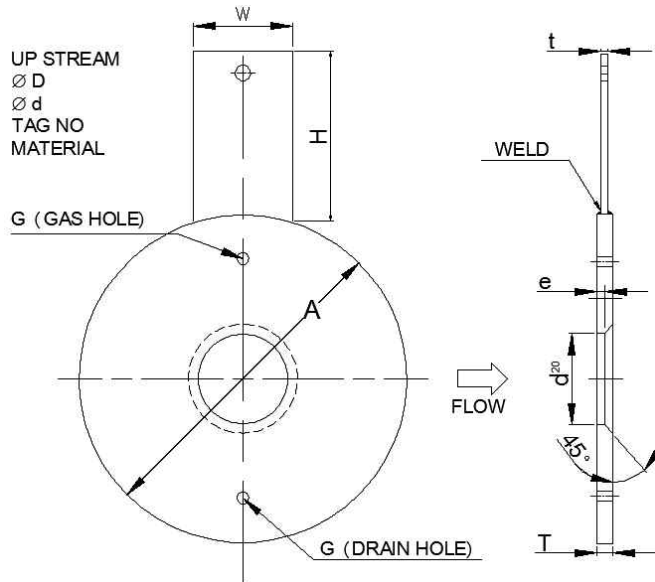
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# SHICO. ORIFICE FLANGE PLATES

MODEL : OPV Series

## ORIFICE FLANGE PLATE (FOR ANSI FLANGE)



$d^{20}$ : Orifice diam at 20°C

Refer to Orifice Calculated sheet

Diameter of holes in Tap Handles are follows

Plate Size	Hole Diameter
½" thru 2"	¼"
2½ thru 12"	¾"
14" thru 24"	½"
26 and larger	¾"

## DIMENSIONS(in inches)

Nominal Pipe Size		Outside Diam of Plate(A)							Thickness of Edge (e)	Thickness of Pipe (T)	Tab Handle		
A	B	125Lbs. and 150Lbs ANSI	250Lbs. and 300Lbs ANSI	400Lbs ANSI	600Lbs ANSI	900Lbs ANSI	1500 Lbs ANSI	2500 Lbs ANSI			Width (W)	High (H)	Thickness (t)
15	½	1 7/8	2 1/8	2 1/8	2 1/8	2 1/2	2 1/2	2 3/4		1/8	4	1	1/8
20	¾	2 1/4	2 5/8	2 5/8	2 5/8	2 3/4	2 3/4	3		1/8	4	1	1/8
25	1	2 5/8	2 7/8	2 7/8	2 7/8	3 1/8	3 1/8	3 3/8		1/8	4	1	1/8
32	1 1/4	3	3 1/4	3 1/4	3 1/4	3 1/2	3 1/2	4 1/8		1/8	4	1	1/8
40	1 1/2	3 3/8	3 3/4	3 3/4	3 3/4	3 7/8	3 7/8	4 5/8		1/8	4	1	1/8
50	2	4 1/8	4 3/8	4 3/8	4 3/8	5 5/8	5 5/8	5 3/8		1/8	4	1	1/8
65	2 1/2	4 7/8	5 1/8	5 1/8	5 1/8	6 1/2	6 1/2	6 5/8		1/8	4	1 1/4	1/8
80	3	5 3/8	5 7/8	5 7/8	5 7/8	6 5/8	6 7/8	7 3/4		1/8	4	1 1/4	1/8
100	4	6 7/8	7 1/8	7	7 5/8	8 1/8	8 1/4	9 1/4		1/8	4	1 1/4	1/8
125	5	7 3/4	8 1/2	8 3/8	9 1/2	9 3/4	10	11		1/8	5	1 1/2	1/8
150	6	8 3/4	9 7/8	9 3/4	10 1/2	11 3/8	11 1/8	12 1/2		1/8	5	1 1/2	1/8
200	8	11	12 1/8	12	12 5/8	14 1/8	13 7/8	15 1/4		1/8	5	1 1/2	1/8
250	10	13 3/8	14 1/4	14 1/8	15 3/4	17 1/8	17 1/8	18 3/4		1/4	6	1 1/2	1/8
300	12	16 1/8	16 5/8	16 1/2	18	19 5/8	20 1/2	21 5/8		1/4	6	1 1/2	1/8
350	14	17 3/4	19 1/8	19	19 3/8	20 1/2	22 3/4	-		1/4	6	1 1/2	1/8
400	16	20 1/4	21 1/4	21 1/8	22 1/4	22 5/8	25 1/4	-		3/8	6	1 1/2	1/8
450	18	21 1/2	23 3/8	23 1/2	24	25	27 5/8	-		3/8	6	1 1/2	1/8
500	20	23 3/4	25 5/8	25 3/8	26 3/4	27 3/8	29 5/8	-		3/8	6	1 1/2	1/8
550	22	26	27 3/4	27 1/2	28 5/8	-	-	-		3/8	6	1 1/2	1/8
600	24	28 1/8	30 3/8	30 1/8	31	32 7/8	35 1/2	-		3/8	6	1 1/2	1/8
750	30	34 5/8	37 3/8	37 1/4	38 1/8	-	-	-		1/2	6	1 1/2	1/8
900	36	41 1/8	43 3/8	47 7/8	44 3/8	-	-	-		1/2	6	1 1/2	1/8



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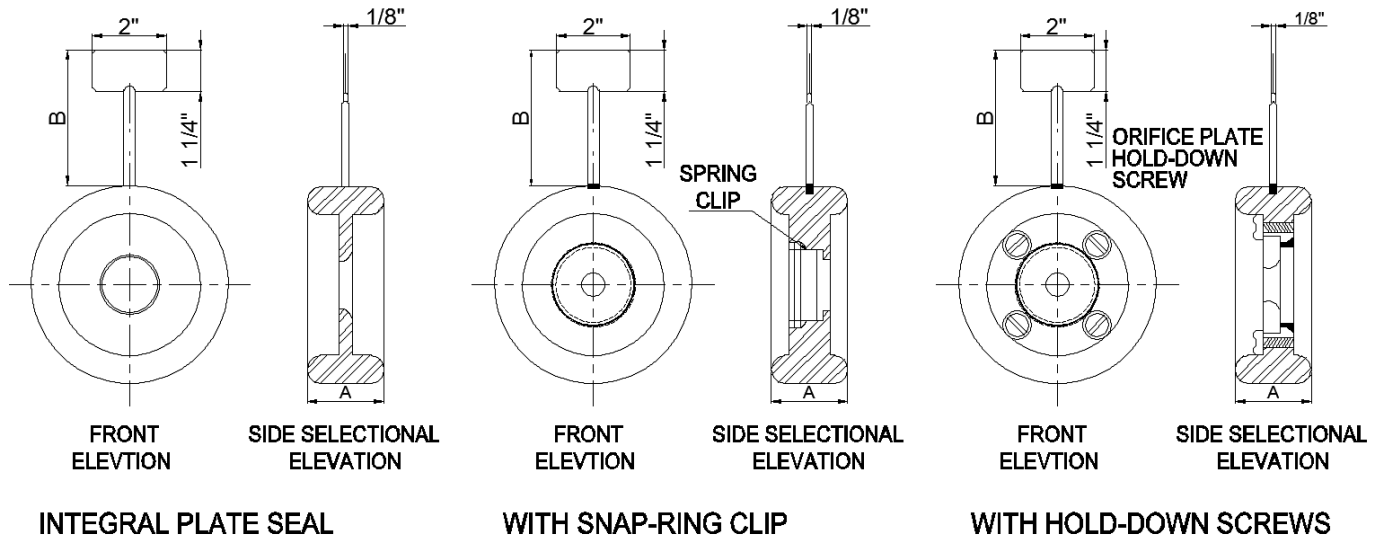
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# SHICO. ORIFICE FLANGE PLATES

MODEL : OPV Series

## ■ RING TYPE JOINT ORIFICE PLATE (FOR ANSI FLANGE)



INTEGRAL PLATE SEAL

WITH SNAP-RING CLIP

WITH HOLD-DOWN SCREWS

## ■ DIMENSIONS(in inches) AND A.P.I RING NUMBERS

Nominal Pipe Size		300-600 Lbs ANSI				900 Lbs ANSI				1500 Lbs ANSI				2500 Lbs ANSI			
A	B	A.P.I Ring Nos	A	B	Approx GAP*	A.P.I Ring Nos	A	B	Approx GAP*	A.P.I Ring Nos	A	B	Approx GAP*	A.P.I Ring Nos	A	B	Approx GAP*
15	1/2	R-11	29/32	4 1/4	19/32	R-12	1	4 1/4	19/32	R-12	1	4 1/4	19/32	R-13	1	4 1/4	19/32
20	3/4	R-13	1	4 1/4	19/32	R-14	1	4 1/4	19/32	R-14	1	4 1/4	19/32	R-16	1	4 1/4	19/32
25	1	R-16	1	4 1/4	19/32	R-16	1	4 1/4	19/32	R-16	1	4 1/4	19/32	R-18	1	4 1/4	19/32
32	1 1/4	R-20	1	4 1/4	19/32	R-20	1	4 1/4	19/32	R-20	1	4 1/4	19/32	R-23	1 1/16	5 1/4	1/2
40	1 1/2	R-23	1 1/16	4 1/4	19/32	R-24	1 1/16	5 1/4	17/32	R-24	1 1/16	5 1/4	1/2	R-26	1 1/16	5 1/4	1/2
50	2	R-26	1 1/16	5 1/4	19/32	R-27	1 1/16	5 1/4	17/32	R-27	1 1/16	5 1/4	1/2	R-28	1 3/16	5 1/4	9/16
65	2 1/2	R-31	1 1/16	5 1/4	19/32	R-31	1 1/16	5 1/4	17/32	R-35	1 1/16	5 1/4	1/2	R-32	1 3/16	6 1/4	9/16
80	3	R-34	1 1/16	4 1/4	19/32	-	-	-	-	-	-	-	-	-	-	-	-
100	4	R-37	1 1/16	5 1/4	19/32	R-37	1 1/16	5 1/4	17/32	R-39	1 1/16	5 1/4	1/2	R-38	1 5/16	6 1/4	19/32
125	5	R-41	1 1/16	6 1/4	19/32	R-41	1 1/16	6 1/4	17/32	R-44	1 1/16	6 1/4	1/2	R-42	1 7/16	7 1/4	19/32
150	6	R-45	1 1/16	6 1/4	19/32	R-45	1 1/16	6 1/4	17/32	R-46	1 3/16	6 1/4	9/16	R-47	1 7/16	7 1/4	19/32
200	8	R-49	1 1/16	6 1/4	19/32	R-49	1 1/16	6 1/4	17/32	R-50	1 5/16	6 1/4	19/32	R-51	1 9/16	8 1/4	5/8
250	10	R-53	1 3/16	7 1/4	23/32	R-53	1 3/16	7 1/4	21/32	R-54	1 7/16	7 1/4	23/32	R-55	2	8 1/4	13/16
300	12	R-57	1 3/16	7 1/4	23/32	R-57	1 3/16	7 1/4	21/32	R-58	1 11/16	8 1/4	3/4	R-60	2 3/8	9 1/4	7/8
350	14	R-61	1 3/16	7 1/4	23/32	R-62	1 7/16	7 1/4	23/32	R-63	1 7/8	8 1/4	25/32	-	-	-	-
400	16	R-65	1 5/16	7 1/4	23/32	R-66	1 9/16	7 1/4	27/32	R-67	2 1/8	9 1/4	1	-	-	-	-
450	18	R-69	1 5/16	7 1/4	23/32	R-70	1 11/16	7 1/4	7/8	R-71	2 1/8	9 1/4	1	-	-	-	-
500	20	R-73	1 1/4	7 1/4	23/32	R-74	1 9/16	7 1/4	3/4	R-75	2 1/8	10 1/4	7/8	-	-	-	-
600	24	R-	1 7/16	7 1/4	13/16	R-78	1 7/8	9 1/4	25/32	R-79	2 5/16	11 1/4	1	-	-	-	-

\* Approximate Distance Between Flanges



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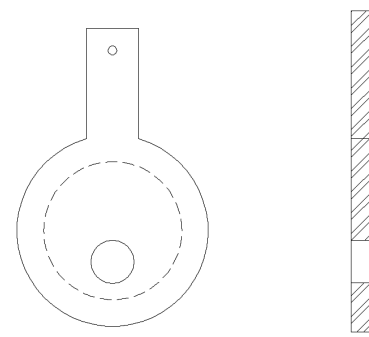
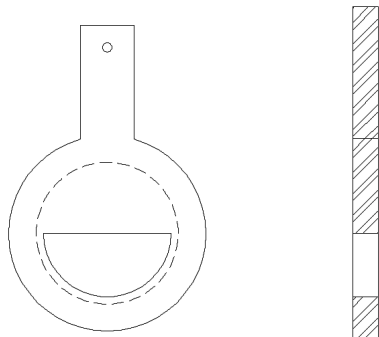
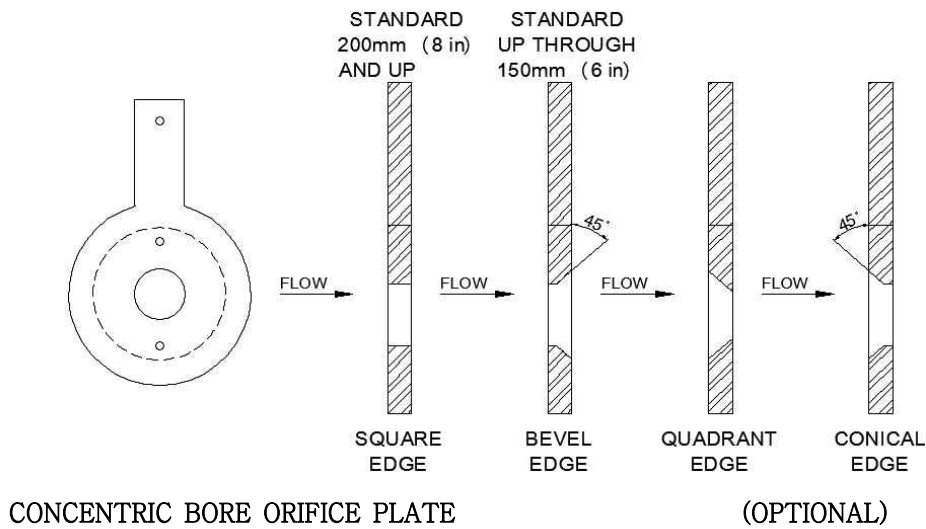
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## ORIFICE PLATE CONFIGURATIONS



## ORIFICE PLATE APPLICATION SUMMARY

Orifice Type	Fluid Type						Reynolds Number Range	Nominal Line Size Normally Used	
	Gas(Vapor)		Liquid					mm	in
	Clean	Dirth	Clean	Dirty	Viscous	Corrosive			
Concentric-Square Edge	▨	□	▨	▨	□	▨	200	15 to 1500	½ to 60
Concentric-Quadrant Edge	□	□	▨	▨	▨	▨	200 to 10000	25 to 150	1 to 6.
Concentric-Conical Edge	□	□	▨	▨	▨	▨	200 to 1000	25 to 150	1 to 6
Eccentric-Square Edge	▨	▨	▨	▨	□	▨	>10000	100 to 350	4 to 14
Segmental-Square Edge	▨	▨	▨	▨	□	▨	>1000	100 to 350	4 to 14

- Notes :
- ▨ Designed for this application
  - ▨ Normally applicable for this application
  - Not designed for this application



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# SHICO. ORIFICE FLANGE PLATES

MODEL : OPV Series

## ■ OPTIONAL FEATURES

- Concentric Bore for Revers Flow : For nominal line size up through 150mm(6 in), plate is broad and finished equally on both faces and without bevel. The plate must be used with symmetrical pressure tap connections. For line sizes above 150mm (6 in), plates are provided without a down-stream bevel as standard, and may be used for revers-flow applications with no further considerations.
- Oxygen Service Preparation : Orifice plates are cleaned and packaged in a Class 10,000 Clean Room, or acceptable alternative facility. For 304SS 316SS concentric bore plates, 25 through 500mm (1through 20 in) line size, For other line sizes, types, and materials, refer to SHICO.
- Blank Orifice Plate : Provided for boring by user. Available in line sizes up through 750mm (30 in) for 304SS and 316SS.
- Legend : Legends to satisfy specific user requirements can be provided.
- Correction Curves for Process Variations. Available to provide corrected flow readings for viscosity, temperature, pressure, specific gravity, or density variations from original process design conditions.
- High Differential Pressure and Temperature Operation : The Orifice Plate may warp if the temperature of the process fluid exceeds 200°C (400°F) and the differential pressure is greater than 50 kPa (200 inH<sub>2</sub>O, 0.5 bar kg/cm<sup>2</sup>P). Refer to SHICO for determination of the plate thickness for these conditions.
- Drain or Vent Hole : Offered for concentric-bore orifice plates. Plate drilled with recommended maximum diameter hole to applicable standard. See table below.

Nominal Orifice Bore		Drain/Vent Hole Dia. Max.	
mm	inch	mm	inch
Less than 25	Less than 1.000	Not Used	Not Used
25 to 89	1.000 to 3.500	2.4	0.093
89 to 104	3.500 to 4.125	3.2	0.125
104 to 127	4.125 to 5.000	4.0	0.156
127 to 152	5.000 to 6.000	4.8	0.188
152 to 171	6.000 to 6.750	5.6	0.219
171 to 190	6.750 to 7.500	6.4	0.250
190 to 212	7.500 to 8.375	7.1	0.281
212 to 234	8.375 to 9.250	7.9	0.312
234 to 254	9.250 to 10.000	8.7	0.344
254 to 276	10.000 to 10.875	9.5	0.375
276 to 295	10.875 to 11.625	10.3	0.406
295 to 317	11.625 to 12.500	11.1	0.438
317 to 336	12.500 to 13.250	11.9	0.468
336 to larger	13.250 or larger	12.7	0.500



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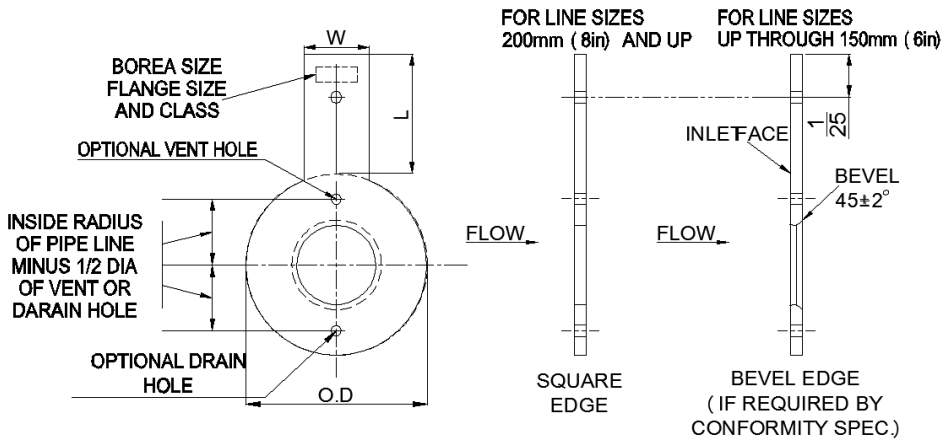
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# SHICO. ORIFICE FLANGE PLATES

MODEL : OPV Series

## ■ DIMENSION-NOMINAL



## ■ ORDERING INSTRUCTIONS

1. Model Code
2. Nominal Line(Pipe Size and Schedule Number)
3. If SHICO is to calculate the bore diameter, provide completed Flow Data Sheet
4. Optional Features
5. Tag(Identification)

Nominal Line Size	Outside Diameter "O.D" - Inches ANSI Flange Class				Nominal Dimensions			
	150	300	400	600	D	L	T	W
$\frac{25}{1}$	2.625	2.875	2,875	2,875	$\frac{6.3}{0.25}$	$\frac{76}{3.0}$	$\frac{3.0}{0.118}$	$\frac{25}{1.0}$
$\frac{40}{1\frac{1}{2}}$	3.375	3.750	3,750	3,750	$\frac{6.3}{0.25}$	$\frac{76}{3.0}$	$\frac{3.0}{0.118}$	$\frac{25}{1.0}$
$\frac{50}{2}$	4.125	4.375	4,375	4,375	$\frac{6.3}{0.25}$	$\frac{76}{3.0}$	$\frac{3.0}{0.118}$	$\frac{25}{1.0}$
$\frac{65}{2\frac{1}{2}}$	4.875	5.125	5,125	5,125	$\frac{9.4}{0.37}$	$\frac{76}{3.0}$	$\frac{3.0}{0.118}$	$\frac{25}{1.0}$
$\frac{80}{3}$	5.375	5.875	5,875	5,875	$\frac{9.4}{0.37}$	$\frac{76}{3.0}$	$\frac{3.0}{0.118}$	$\frac{25}{1.0}$
$\frac{100}{4}$	6.875	7,125	-	-	$\frac{9.4}{0.37}$	$\frac{76}{3.0}$	$\frac{3.0}{0.118}$	$\frac{25}{1.0}$
$\frac{125}{5}$	7.750	8,500	-	-	$\frac{9.4}{0.37}$	$\frac{76}{3.0}$	$\frac{3.0}{0.118}$	$\frac{25}{1.0}$
$\frac{150}{6}$	8.750	9,875	-	-	$\frac{9.4}{0.37}$	$\frac{76}{3.0}$	$\frac{3.0}{0.118}$	$\frac{25}{1.0}$
$\frac{200}{8}$	11.00	12,125	-	-	$\frac{9.4}{0.37}$	$\frac{76}{3.0}$	$\frac{4.0}{0.157}$	$\frac{25}{1.0}$
$\frac{250}{10}$	13.375	14,250	-	-	$\frac{9.4}{0.37}$	$\frac{76}{3.0}$	$\frac{4.0}{0.157}$	$\frac{25}{1.0}$
$\frac{300}{12}$	16.125	16,625	-	-	$\frac{9.4}{0.37}$	$\frac{76}{3.0}$	$\frac{4.0}{0.157}$	$\frac{25}{1.0}$
$\frac{350}{14}$	17.750	19,125	-	-	$\frac{12.7}{0.50}$	$\frac{76}{3.0}$	$\frac{4.0}{0.157}$	$\frac{25}{1.0}$
$\frac{400}{16}$	20.250	21,250	-	-	$\frac{12.7}{0.50}$	$\frac{89}{3.5}$	$\frac{4.0}{0.157}$	$\frac{38}{1.0}$
$\frac{450}{18}$	21.625	23,500	-	-	$\frac{12.7}{0.50}$	$\frac{89}{3.5}$	$\frac{5.0}{0.196}$	$\frac{38}{1.5}$
$\frac{500}{20}$	23.875	25.750	-	-	$\frac{12.7}{0.50}$	$\frac{89}{3.5}$	$\frac{5.0}{0.196}$	$\frac{38}{1.5}$



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