



### Flange Engineering Data For Exhaust Assemblies

#### ASA 125# / 150# Carbon Steel Plate Flanges

Pipe Size	Flange I.D.	Flange O.D.	Bolt Circle	Bolt Holes	Hole Diameter	Thickness	Weight (Lbs.)
2"	2.44"	6.00"	4.75"	4	.75"	.625"	3.75
2 ½"	2.94"	7.00"	5.50"	4	.75"	.625"	5.00
3"	3.57"	7.50"	6.00"	4	.75"	.625"	5.50
4"	4.57"	9.00"	7.50"	8	.75"	.625"	7.50
5"	5.66"	10.00"	8.50"	8	.875"	.75"	10.00
6"	6.72"	11.00"	9.50"	8	.875"	.75"	11.50
8"	8.72"	13.50"	11.75"	8	.875"	1.00"	21.00
10"	10.88"	16.00"	14.25"	12	1.00"	1.00"	25.00
12"	12.88"	19.00"	17.00"	12	1.00"	1.00"	40.00

#### Caterpillar Flanges

Engine Number	Configuration	Pipe Size	Flange I.D.	Flange O.D.	Bolt Circle	Bolt Holes	Hole Diameter	Thickness
348,349, 398,399	Round	12"	11.00"	15.38"	14.00"	12	.78"	.50"
3516	Round	12"	12.99"	15.75"	14.80"	12	.41"	.50"
3516	Round	14"	14.26"	17.09"	16.14"	12	.41"	.50"
3512	Round	10"	10.98"	13.39"	12.44"	12	.41"	.50"
379, 3412	Round	8"	8.00"	11.00"	9.88"	8	.53"	.50"
3508	Round	8"	8.82"	11.02"	9.88"	8	.41"	.50"
3408, 3406	Square	6"	6.00"	8.00"	6.00"	4	.78"	.625"
3406	Square	5"	5.00"	6.50"	5.00"	4	.66"	.625"
3304, 3208	Square	4"	4.00"	5.50"	4.12"	4	.53"	.625"

#### Cummins Flange

Pipe Size	Configuration	Flange I.D.	Flange O.D.	Bolt Circle	Bolt Holes	Hole Diameter	Thickness
5" – 8"	Round	5.00"	8.125"	7.188"	8	.438"	.25"

#### Detroit Diesel Flanges

Pipe Size	Configuration	Flange I.D.	Flange O.D.	Bolt Circle	Bolt Holes	Hole Diameter	Thickness
8"	Round	8.00"	11.00"	9.88"	8	.53"	.50"
10"	Round	10.00"	13.00"	11.88"	8	.563"	.50"