

## **PADDLE BLIND** THICKNESS CHART

USA Industries is the leading provider of industrial piping isolation solutions.

24/7 - 365 days of the year availability, industry leading turnaround times, and the ability to customize any part to your needs makes us the ideal fit for your next project, no matter how big or small.

## **USA INDUSTRIES** provides:

- Piping Isolation & Testing Products
- Tube Pluas
- Orifice Plates
- Tools for Heat Exchangers
- Customer Machining
- Rental Services

ISO

## Call for more info.



(800) 456-8721 • (713) 941-3797 www.USAIndustries.com

Section   Sect	LINE													
12   1716   17	LINE	ISO. 150#			300#			600#			900#			
1/2   1/16   1-3/4   5/8   5/16   2.2   5/8   5/16   2.2   5/8   5/16   2.3/8   5/16   1.5   5		THK	0.D.	I.D.	THK	0.D.	I.D.	THK	0.D.	I.D.	THK	0.D.	I.D.	THK
1	1/2	5/16	1-3/4	5/8	5/16	2	5/8	5/16	2	5/8	5/16	2-3/8	5/8	5/16
1-114 S/16 2-7/8 1-9/8 5/16 3-16 3-16 1-9/8 5/16 3-16 3-16 1-9/8 5/16 3-16 1-9/8 5/16 3-16 1-9/8 5/16 3-16 1-9/8 5/16 3-16 1-9/8 5/16 3-16 1-9/8 5/16 3-16 1-9/8 5/16	3/4	5/16		7/8	5/16			5/16		7/8		2-5/8	7/8	
1-112   5/16   3-1/4   1/78   5/16   3-5/8   1-7/8   5/16   3-5/8   1-7/8   3-5/8   3-1/4   1-1/8   3/8   5-1/4   2-1/8   3/8   5-1/4   2-1/8   3/8   5-1/4   2-1/8   3/8   5-1/4   2-1/8   3/8   5-1/4   2-1/8   3/8   5-1/4   3-1/4   2-1/8   3/8   5-1/4   3-1/4   2-1/8   3/8   5-1/4   3-1/4   2-1/8   3/8   5-1/4   3-1/4   2-1/8   3/8   2-5/8   1/2   2-1/8   3/8   3-1/4   1-1/2   6-1/2   3-1/4   5/8   3-1/2   3/8   3-1/4   1-1/2   6-1/2   3-1/4   5/8   3-1/4   3-1/4   3/4   3/8   3-1/4   3/8   3/4   3/	1	5/16	2-1/2	1-1/8	5/16	2-3/4	1-1/8		2-3/4	1	5/16	3	1	5/16
2 5/16 4 4 238 5/16 4-1/4 238 3/8 4-1/4 238 3/8 4-1/4 2-1/8 3/8 5-1/2 2-1/8 1/2 2-1/12 5/16 6-3/4 4-1/2 5/16 5-3/4 3/8 5-2/8 3/8 5-2-5/8 1/2 6-3/8 2-5/8 1/2 3-1/2 5/16 6-1/4 4 1/3 5/16 5-3/4 3/8 5-3/8 3/8 5-3/4 3-1/4 1/2 6-1/2 3-1/4 5/8 3-1/2 5/16 6-1/4 4 1/3 3/8 6-3/8 4 1/2 3/8 5-3/4 3-1/4 1/2 6-1/2 3-1/4 5/8 4 5/16 6-3/4 4-1/2 3/8 6-3/8 4 1/2 5/8 6-3/8 1/2 1/2 1/2 6-3/8 5/8 1/2 5 5/16 7-5/8 5-1/2 3/8 8-3/8 5-1/2 5/8 9-3/8 5-3/8 3/4 9-5/8 5-1/4 3/8 5 5/16 19-7/8 8-5/8 1/2 1/2 9-3/4 6-5/8 5/8 1/2 1/2 8-3/8 1/8 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	_													
2-112 S/16 4-344 2-378 5/16 5 5 2-58 3/12 5/16 5-14 3-172 5/16 5-14 3-172 5/16 5-14 3-172 5/16 5-14 3-172 5/16 5-14 3-172 5/16 5-14 4 3/8 6-3/8 4 3/8 5-3/4 3-14 1/2 6-1/2 3-14 5/8 3-172 5/16 6-1/4 4 3/8 6-3/8 4 3/8 5-3/4 3-14 1/2 6-1/2 3-14 5/8 3-172 5/16 6-1/4 4 3/8 6-3/8 4 3/8 5-3/4 3-14 1/2 6-1/2 3-14 5/8 3-172 5/16 5-1/6 6-3/4 4-1/2 3/8 7 4-1/2 1/2 7-1/2 4-1/4 5/8 8 4-1/4 3/8 3/4 5/6 5/16 5-5/8 5-1/8 3/8 8-3/8 5-1/2 5/8 5/8 5/12 5/8 8-3/4 9-5/8 5-1/4 3/4 5/8 5/16 5-5/8 5-1/8 1/2 5/8 5-1/2 5/8 5/8 5/8 3/4 9-5/8 5-1/4 3/4 5/8 5/12 5/8 5/8 5/8 3/4 9-5/8 5-1/4 3/4 5/8 5/8 5/12 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8								-						
3 5/16 5-1/4 3-1/2 5/16 5-3/4 3-1/2 5/16 5-3/4 3-1/2 3/8 5-3/4 3-1/2 5/16 6-1/4 4 3/8 5/16 5-3/8 4 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8														
3-112 5/16 6-1/4 4 3/8 6-3/8 4 3/8 6-3/8 4 3/8 6-1/4 3/8 5/8 8 4-1/4 3/4 5/8 5 5/16 6-3/4 4-1/2 3/8 6-3/8 7 4-1/2 1/2 7-1/2 4-1/4 5/8 8 4-1/4 3/4 5/8 5 5/16 7-5/8 5-1/2 3/8 8-3/8 5-1/2 5/8 9-3/8 5-3/8 3/4 9-5/8 5-1/4 7/8 6-5/8 6-5/8 5/16 8-5/8 5-3/8 1/2 9-3/4 6-5/8 5/8 5/8 10-3/8 5-3/8 3/4 9-5/8 5-1/4 7/8 6-5/8 6-5/8 5/16 8-5/8 1/2 9-3/4 6-5/8 5/8 5/8 10-3/8 5-3/8 7/8 11-1/4 6-3/8 1-3/8 5/16 10-5/16 13-1/4 10-3/4 5/8 14-1/8 10-3/4 1 15-5/8 10-3/8 1-3/8 17 10-3/8 1-3/8 1-3/8 10-5/8 12-3/8 1-3/8 11-1/4 6-3/8 1-3/8 10-5/16 13-1/4 10-3/4 5/8 14-1/8 10-3/4 1-1/8 11-5/8 10-3/8 1-3/8 17/10-3/8 1-5/8 10-5/8 14-1/8 5/16 12-3/4 3/4 19-1/2 12-3/4 1-1/8 11-1/4 19-1/4 13-5/8 13-3/8 19-1/2 12-3/8 1-5/8 16-5/16 20-1/8 16 7/8 21-1/8 16 1-1/2 12-3/4 1-1/8 11-1/4 19-1/4 13-5/8 1-3/4 20-3/8 13-5/8 2-1/8 18-5/8 20 5/16 23-3/4 20 1-1/8 25-5/8 20 1-3/4 26-3/4 19-1/2 2-1/8 25-1/8 22-1/8 12-5/8 22 1-1/4 27-5/8 22 1-7/8 28-3/4 21-1/2 2-3/4 24-5/6 32-5/8 32-1/8 32-3/4 22 1-1/4 27-5/8 22 1-7/8 28-3/4 21-1/2 2-3/4 24-5/6 32-5/8 32-1/8 32-3/4 22 1-1/4 3-3/8 31-3/4 35-1/4 28-3/4 31-1/2 2-1/8 32-1/8 32-1/2 2-7/8 32-7/8 32-1/8 32-1/2 3-														
4 5/16 6-32/4 4-1/2 3/8 7-7 4-1/2 1/2 7-1/2 4-1/4 5/8 8 8 4-1/8 3/4 5 5/16 5/16 7-5/8 5-1/2 3/8 8-3/8 5-1/2 5/8 9-3/8 5-3/8 3/4 9-5/8 5-1/2 3/8 1-1/8 7-8 1-1/4 7/8 8-5/8 6-5/8 5-1/2 3/8 1-1/8 1-1/4 7/8 8-5/8 6-5/8 5/8 1/2 1/2 12 8-5/8 7/8 11-1/2 1-1/4 5-3/8 1-1/8 1-1/4 1-1/4 5-1/4 5-5/8 10 5/16 10-7/8 8-5/8 1/2 12 12 8-5/8 7/8 11-1/2 14 8-5/8 17/8 11-1/4 14 8-3/8 1-3/8 1-1/8 10 5/16 13-1/4 10-3/4 5/8 14-1/8 10-3/4 1 15-5/8 10-3/8 1-1/8 17 10-3/8 1-3/8 1-5/8 12 5/16 16 12-3/4 3/4 16-1/2 12-3/4 1-1/8 17-7/8 12-3/8 15-5/8 19-1/2 12-3/8 1-5/8 1-1/8 14 5-5/8 10-3/4 20-3/8 1-5/8 1-1/8 1-1/8 15-5/8 10-3/4 20-3/8 13-5/8 2-1/8 14 5/16 17-5/8 14 3/4 19 14 1-1/4 19-1/4 15-5/8 15-5/8 20-1/2 2-1/8 15-5/8 2-2-1/2 15-5/8 2-3/8 18-5/6 20-1/4 12-3/4 20-3/4 19-1/2 2-1/8 15-5/8 20-1/4 20-3/4 20-3/4 20-3/4 19-1/2 2-1/2 2-1/8 15-5/8 2-1/8 2-3/8 18-5/6 20-1/4 20-3/4 20-3/4 19-1/2 2-1/2 2-1/8 15-5/8 2-1/8 2-3/8 18-5/6 20-1/4 20-3/4 20-3/4 19-1/2 2-1/2 2-1/8 15-6/8 2-2-1/2 15-5/8 2-3/8 18-5/6 20-1/4 20-3/4 20-3/4 19-1/2 2-1/2 2-3/4 20-3/4 20-3/4 19-1/2 2-1/2 2-1/8 19-1/2 19-1/2 19-1/2 2-1/2 3/4 19-1/2 19-1/2 19-1/2 2-1/8 19-1/2 2-1/8 19-1/2 19-1/2 19-1/2 2-1/2 19-1/2 19-1/2 19-1/2 2-1/2 19-1/2 1												6-1/2	3-1/4	5/8
5 5/16 7-5/8 5-1/2 3/8 8-3/8 5-1/2 5/8 9-3/8 5-3/8 3/4 9-5/8 5-1/4 7/8 6-5/6 5/16 8-5/8 6-5/8 1/2 9-3/4 6-5/8 5/8 10-3/8 6-3/8 7/8 11-1/4 6-3/8 1-3/8 1-3/8 5/8 11-1/4 12-3/8 1-3/8												Ω	1-1/1	2//
6 5/16 8-5/8 8-5/8 1/2 9-3/4 6-5/8 7/8 12-1/2 8-3/8 7/8 11-1/4 6-3/8 1-3/8   5/16 10-7/8 8-5/8 1/2 12 8-5/8 7/8 12-1/2 8-3/8 1-3/8 1-1/8 14 8-3/8 1-3/8   10 5/16 13-1/4 10-3/4 5/8 14-1/8 10-3/4 1 15-5/8 10-3/8 1-3/8 11-3/8 17 10-3/8 1-5/8   12 5/16 16 16 12-3/4 3/4 16-1/2 12-3/4 11-1/8 17-7/8 12-3/8 1-5/9 19-1/2 12-3/8 1-5/8   12 5/16 17-5/8 14 3/4 16-1/2 12-3/4 11-1/8 17-7/8 12-3/8 1-5/9 19-1/2 12-3/8 1-5/8   16 5/16 20-1/8 16 7/8 21-1/8 16 1-1/1/2 22-1/8 15-5/8 2 22-1/2 15-5/8 2-3/8   18 5/16 21-1/2 18 1 23-3/8 18 1-5/8 24 17-5/8 22-1/8 15-5/8 2 22-1/2 15-5/8 2-3/8   18 5/16 25-7/8 22 1-1/4 27-5/8 22 1-7/8 28-3/4 21-1/2 2-3/4   22 5/16 25-7/8 22 1-1/4 27-5/8 22 1-7/8 28-3/4 21-1/2 2-3/4   22 5/16 25-7/8 22 1-1/4 27-5/8 22 1-7/8 28-3/4 21-1/2 2-3/4   24 5/16 32-1/8 24 1-1/4 30-3/8 24 2 3 1 23-1/2 2-7/8 32-7/8 23-1/2 3-1/2   855/16 32-5/8 28 1-3/4 35-1/4 28 2-3/4 35-7/8 28 3-1/2 34-5/8 2-4-5/8   25 5/16 32-5/8 28 1-3/4 35-1/4 28 2-3/4 35-7/8 28 3-3/4 32-1/8 32-5/8 39 5 5 3-1/8 36-7/8 38 3-1/8 40-1/8 39-5/8 39 5 5 3-1/8 36-7/8 38 3-1/8 40-1/8 39-5/8 30 5 5 3-1/8 45-5/8 39 39 5-1/8														
8 5/16 10-7/8 8-5/8 1/2 12 8-5/8 7/8 12-1/2 0-3/8 1-1/8 14 8-3/8 1-3/8 10 5/16 13-1/4 10-3/4 5/8 14-1/8 10-3/4 1 15-5/8 10-3/8 1-3/8 17 10-3/8 1-5/8 1-5/8 10-3/8 1-3/8 17 10-3/8 1-5/8 1-5/8 10-3/8 1-3/8 17 10-3/8 1-5/8 1-5/8 10-3/8 1-3/8 17 10-3/8 1-5/8 1-5/8 10-3/8 1-3/8 17 10-3/8 1-5/8 1-5/8 10-3/8 1-3/8 17 10-3/8 1-5/8 1-5/8 10-3/8 1-3/8 17 10-3/8 1-5/8 1-5/8 10-3/8 1-5/8 10-3/8 1-5/8 10-3/8 1-5/8 10-3/8 1-5/8 10-3/8 1-5/8 10-3/8 1-5/8 10-3/8 1-5/8 10-3/8 1-5/8 10-3/8 1-5/8 10-3/8 10-3/8 13-5/8 1-3/8 1-3/4 20-3/8 13-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 2-1/8 15-5/8 10-3/8 18-1 1-5/8 2-1/8 15-5/8 10-3/4 19-1/2 2-1/2 2-1/8 15-5/8 2-1/8 15-5/8 10-3/4 19-1/2 2-1/2 2-1/8 15-5/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 2-1/8 10-3/4 19-1/2 10-3/4 1														
10												-		
17.   17.														
16   5/16   20-11/2   18	12	5/16	16		3/4	16-1/2	12-3/4	1-1/8				19-1/2		
18	14	5/16	17-5/8	14	3/4	19	14	1-1/4	19-1/4	13-5/8	1-3/4	20-3/8	13-5/8	2-1/8
20 5/16 23-3/4 20 1-1/8 25-5/8 20 1-3/4 26-3/4 19-1/2 2-1/2 27-3/8 19-1/2 2-7/8 22 5/16 25-7/8 22 1-1/4 27-5/8 22 1-7/8 20-3/4 21-1/2 2-3/4 24 5/16 28-1/8 24 1-1/4 27-5/8 22 1-7/8 20-3/4 21-1/2 2-3/4 31 23-1/2 2-3/8 32-7/8 23-1/2 3-1/2	16	5/16	20-1/8	16	7/8	21-1/8	16	1-1/2	22-1/8	15-5/8	2	22-1/2	15-5/8	2-3/8
22 5/16 25-7/8 22 1-1/4 27-5/8 22 1-7/8 28-3/4 21-1/2 2-3/4 2-1/2 2-3/4 35-7/8 23-1/2 3-1/	18	5/16	21-1/2	18	1	23-3/8	18	1-5/8	24	17-5/8	2-1/8	25	17-5/8	2-5/8
24   5/16   28-1/8   24   1-1/4   30-3/8   24   2   31   23-1/2   2-7/8   32-7/8   23-1/2   3-1/2     MSS SP-44 SERIES AS PECS   SSSP-44 SERIES AS SPECS   SSSP-44 SERIES AS										19-1/2		27-3/8	19-1/2	2-7/8
MSS SP-44 SERIES "A" SPECS   26   3-1/2   34-5/8   26   4-3/8   28   1-3/4   35-1/4   28   2-3/4   35-7/8   28   3-3/4   37-1/8   28   4-5/8   30   5/16   34-5/8   30   1-7/8   37-3/8   30   2-7/8   38-1/8   30   4-1/8   39-5/8   30   5   32   5/16   36-7/8   32   2   39-1/2   32   31-8   40-1/8   32   4-3/8   42-1/8   32   5-3/8   34   5-5/8   36   5/16   34-5/8   34   2-1/8   41-1/2   34   31-1/8   34   4-5/8   44-5/8   34   5-5/8   36   5/16   41-1/8   36   2-1/4   43-7/8   36   3-1/2   44-3/8   36   4-7/8   44-5/8   34   5-5/8   38   5/16   43-5/8   38   2-3/8   41-3/8   38   3-5/8   43-3/8   38   5-1/8   47-1/8   38   6-1/4   40   5/16   43-5/8   40   2-1/2   43-3/4   40   3-7/8   45-3/8   40   5-3/8   49-1/8   40   6-5/8   42   5/16   47-7/8   44   2-3/4   47-7/8   44   41-1/4   49-7/8   44   6   53-3/4   44   7-1/4   45-7/8   44   57-1/8   44   2-3/4   47-7/8   44   41-1/4   49-7/8   44   6   63-3/4   44   7-1/4   49-7/8   44   6   63-3/4   44   7-1/4   49-7/8   44   6   63-3/8   46   7-5/8   48   5/16   54-3/8   48   3   52   48   4-5/8   54-5/8   46   6-1/4   56-3/8   56-3/8   50   3-1/8   54-1/8   50   3-1/8   54-1/8   50   5-1/8   50   5-3/8   50   3-1/8   54-1/8   50   5-3/8   56-7/8   50   6-3/4   58-3/8   48   8   6-1/2   58-3/8   48   8   6-1/2   58-3/8   48   8   6-1/2   58-3/8   48   8   6-1/2   58-3/8   48   8   6-1/2   58-3/8   48   8   6-1/2   58-3/8   48   8   6-1/2   58-3/8   48   8   6-1/2   58-3/8   48   8   6-1/2   58-3/8   58-3		_												
26 5/16 30-3/8 26 1-5/8 32-3/4 26 2-1/2 34 26 3-1/2 34-5/8 26 4-3/8 28 5/16 32-5/8 28 1-3/4 35-1/4 28 2-3/4 35-7/8 28 3-3/4 37-1/8 28 4-5/8 30 5/16 34-5/8 30 1-7/8 37-3/8 30 2-7/8 38-1/8 30 4-1/8 39-5/8 29 5-3/8 34 5/16 38-7/8 32 2 39-1/2 32 3-1/8 40-1/8 32 4-3/8 42-1/8 32 5-3/8 35 5/16 34-5/8 38 2-3/4 41-1/2 34 3-1/4 42-1/8 34 4-5/8 44-5/8 34 5-5/8 36 5/16 41-1/8 36 2-1/4 43-7/8 38 3-5/8 43-3/8 36 4-7/8 47-1/8 36 6-1/4 40 5/16 45-5/8 40 2-1/2 43-3/4 40 3-7/8 45-3/8 40 5-3/8 49-1/8 38 6-1/4 40 5/16 50-1/8 44 2-3/4 47-7/8 42 2-5/8 45-3/4 42 4 47-7/8 42 5-5/8 51-1/8 42 7-4 44 5/16 50-1/8 44 2-3/4 47-7/8 44 4-1/4 49-7/8 44 6 53-3/4 44 7-1/4 46 5/16 52-1/8 46 2-7/8 50 46 41-1/2 52-1/8 46 6-1/4 56-3/8 50 3-1/2 52-1/8 46 6-1/4 56-3/8 50 3-1/8 54-1/8 50 5-3/8 50 5/16 63-3/8 50 3-3/8 60 3-3/8 60-5/8 52 3-1/4 58-5/8 54-5/8 51-1/8 50 5-3/8 58-5/8 51/16 63-1/8 52 2-3/8 3-1/8 54-1/8 50 5-3/8 58-7/8 50 6-3/4 56 5/16 63-3/8 58 3-1/2 62-5/8 58 5-5/8 51-1/2 20 3-1/2 20 3-1/2 20 3-1/4 32-3/8 38 3-5/8 51/8 47-1/2 30 4-1/8 30 3-5/8 30 5-1/8 34-3/8 38 5-1/8 47-1/2 30 4-1/8 30 6-3/4 50-3/8 50 5-3/8 60 3-5/8 64-5/8 60 5-3/8 63-3/8 58 7-7/8 50 6-3/4 50-3/8 58 5-1/8 50-3/8 58 3-1/2 62-5/8 58-5/8 52 5-5/8 51-1/2 20 3-1/2 20	24	5/16	28-1/8	24	1-1/4					23-1/2	2-7/8	32-7/8	23-1/2	3-1/2
28	00	F/4C	20. 2/0	00	1.5/0					0.0	0.1/0	04.5/0	00	4.0/0
30   5/16   34-5/8   30   1-7/8   37-3/8   30   2-7/8   38-1/8   30   4-1/8   39-5/8   30   5														
32 5/16 36-7/8 32 2 39-1/2 32 3-1/8 40-1/8 32 4-3/8 42-1/8 32 5-3/8 34 5/16 38-7/8 34 2-1/8 41-1/2 34 3-1/4 42-1/8 34 4-5/8 44-5/8 34 5-5/8 36 5/16 43-5/8 38 2-3/8 41-3/8 36 3-1/2 44-3/8 36 4-7/8 47-1/8 36 6-6 38 5/16 43-5/8 38 2-3/8 41-3/8 38 3-5/8 43-3/8 38 5-1/8 47-1/8 36 6-6 40 5/16 43-5/8 40 2-1/2 43-3/4 40 3-7/8 45-3/8 40 5-3/8 49-1/8 40 6-5/8 42 5/16 47-7/8 42 2-5/8 45-3/4 42 4 47-7/8 42 5-5/8 51-1/8 42 7-4/8 5/16 50-1/8 44 2-3/4 47-7/8 44 4-1/4 49-7/8 44 6-5/8 5-3/8 49-1/8 40 6-5/8 48 5/16 52-1/8 46 2-7/8 50 46 4-1/2 52-1/8 46 6-1/4 56-3/8 46 7-5/8 48 5/16 53-3/8 50 3-1/8 56-1/8 52 5-5/8 5-7/8 52 7-5/8 5/16 60-7/8 56 3-3/8 56 3-3/8 56 7-1/2 58-3/8 50 5/16 63-3/8 50 3-1/4 56-1/8 52 5-5/8 63-3/8 56 7-1/2 58-3/8 49-1/8 40 8-1/2 58-3/8 49-1/8 40 8-1/2 58-3/8 49-1/8														
34 5/16 38-7/8 34 2-1/8 41-1/2 34 3-1/4 42-1/8 34 4-5/8 44-5/8 34 5-5/8 36 5/16 41-1/8 36 2-1/4 43-7/8 36 3-1/2 44-3/8 36 4-7/8 47-1/8 36 6 38 5/16 43-5/8 38 2-3/8 41-3/8 38 3-5/8 43-3/8 38 5-1/8 47-1/8 36 6-1/4 40 5/16 54-5/8 40 2-1/2 43-3/4 40 3-7/8 42 5-5/8 5-5/8 5-5/8 5-1/8 47-1/8 38 6-1/4 42 5/16 47-7/8 42 2-5/8 45-3/4 42 4 47-7/8 42 5-5/8 51-1/8 47-1/4 44 5/16 50-1/8 44 2-3/4 47-7/8 44 4-1/4 49-7/8 44 6 53-3/4 44 7-1/4 46 5/16 52-1/8 46 2-7/8 50 46 4-1/2 52-1/8 46 6-1/4 56-3/8 46 7-5/8 48 5/16 54-3/8 48 3 52 48 4-5/8 54-5/8 48 6-1/2 58-3/8 48 8 50 5/16 66-3/8 50 3-1/8 54-1/8 50 4-7/8 56-5/8 50 6-3/4 50 5/16 63-1/8 54 3-1/4 56-1/8 52 5 58-7/8 50 6-3/4 50 5/16 63-1/8 56 3-3/8 60 3-5/8 64-5/8 54 5-1/4 61-1/8 54 7-1/4 56 5/16 63-7/8 58 3-1/2 62-5/8 58 5-5/8 65-3/8 58 7-1/2 58 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8 30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 30 26 3-1/2 32-7/8 30 5/8 32 5/16 36-1/6 38-3/4 36 2-1/4 41-1/8 36 3-1/2 32-3/8 38 3-1/2 32-3/8 39 34 3-1/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5/8 32 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8 30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5/8 35-1/6 36-1/1/6 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 32-1/8 34 5/16 36-1/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 32-1/8 34 5/16 36-1/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5-5/8 35-5/8 5/16 36-5/16 45 42 2-5/8 47-1/8 42 4 4-1/														
36 5/16 41-1/8 36 2-1/4 43-7/8 36 3-1/2 44-3/8 36 4-7/8 47-1/8 36 6 38 5/16 43-5/8 48 2-3/8 41-3/8 38 3-5/8 43-3/8 38 5-1/8 47-1/8 38 6-1/4 40 5/16 45-5/8 40 2-1/2 43-3/4 40 3-7/8 45-3/8 40 5-3/8 49-1/8 40 6-5/8 42 5/16 47-7/8 42 2-5/8 45-3/4 42 4 47-7/8 42 5-5/8 51-1/8 42 7 44 5/16 50-1/8 44 2-3/4 47-7/8 44 4-1/4 49-7/8 44 6 5-3/8 51-1/4 56-3/8 40 7-5/8 48 5/16 54-3/8 48 3 52 48 4-5/8 54-5/8 48 6-1/2 58-3/8 48 8 51/6 63-3/8 50 3-1/8 54-1/8 50 4-7/8 50 4-6/8 52 5-1/8 50 6-3/8 50 5/16 63-1/8 52 3-1/4 56-1/8 50 4-7/8 56-7/8 52 7 54 5/16 63-1/8 56 3-3/8 60 3-5/8 64-5/8 58 5-5/8 65-3/8 58 7-7/8 60 5/16 63-3/8 50 3-1/8 56 3-3/8 60-5/8 58 5-5/8 65-3/8 58 7-7/8 60 5/16 67-3/8 60 3-5/8 64-5/8 30-1/4 26 2-1/2 30 26 3-1/2 32-7/8 26 4-3/8 28 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8 30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5/8 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5/8 5/16 38-3/4 40 2-1/2 45/1/8 40 3-7/8 34-1/8 36 4-7/8 44-1/8 36 6-3/8 55/16 38-3/4 40 2-1/2 45/1/8 40 3-7/8 34-1/8 36 4-7/8 44-1/8 36 6-3/8 55/16 38-3/4 40 2-1/2 45/1/8 40 3-7/8 35/1/8 36 4-7/8 44-1/8 36 6-3/8 50 5/16 55-5/16 50 3-1/8 55-3/8 51-3/4 44-1/2 30 4-1/8 36 4-7/8 44-1/8 36 6-3/8 50 5/16 38-3/4 40 2-1/2 45/1/8 40 3-7/8 34-1/8 36 4-7/8 44-1/8 36 6-3/8 50 5/16 55-5/16 50 3-1/8 55-3/4 44-1/2 30 4-1/8 36 4-7/8 44-1/8 36 6-3/8 50 5/16 38-3/4 40 2-1/2 45/1/8 40 3-7/8 35/1/8 36 4-7/8 44-1/8 36 6-3/8 50 5/16 55-5/16 50 3-1/8 55-3/4 49-1/8 44 4-1/4 4-1/4 45/16 47 44 2-3/4 49-1/8 40 3-7/8 44-1/2 30 4-1/8 36 4-7/8 44-1/8 36 6-3/8 55/16 55-5/16 50 3-1/8 55-3/4 49-1/8 44 4-1/4 4-1/4 45/16 55-5/16 50 3-1/8 55-3/4 49-1/8 44 4-1/4 4-1/4 45/16 55-5/16 50 3-1/8 55-3/4 49-1/8 44 4-1/4 4-1/4 5/16 55-5/16 50 3-1/8 55-3/4 50 4-7/8 51-3/4 50 4-7/8 51-3/4 50 4-7/8 51-3/4 50 4-7/8 51-3/4 50 4-7/8 51-3/4 50 4-7/8 51-3/4 50 4-7/8 51-3/4 50 4-7/8 51-3/4 50 4-7/8 51-3/4 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3/8 50 5-3														
38														
42 5/16 47-7/8 42 2-5/8 45-3/4 42 4 47-7/8 42 5-5/8 51-1/8 42 7  44 5/16 50-1/8 44 2-3/4 47-7/8 44 4-1/4 49-7/8 44 6 53-3/4 44 7-1/4  46 5/16 52-1/8 46 2-7/8 50 46 4-1/2 52-1/8 46 6-1/4 56-3/8 46 7-5/8  48 5/16 54-3/8 48 3 52 48 4-5/8 54-5/8 48 6-1/2 58-3/8 48 8  50 5/16 56-3/8 50 3-1/8 54-1/8 50 4-7/8 56-7/8 50 6-3/4  52 5/16 58-5/8 52 3-1/4 56-1/8 52 5 58-7/8 52 7  54 5/16 60-7/8 54 3-1/4 58-5/8 54 5-1/4 61-1/8 54 7-1/4  56 5/16 67-3/8 60 3-5/8 60-5/8 56 5-3/8 65-3/8 58 7-7/8  60 5/16 67-3/8 60 3-5/8 60-5/8 60 5-3/4 68-1/8 60 8-1/8  26 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8  30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5  32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-1/1/2 30 4-1/8 37-5/8 30 5  33 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-1/1/2 30 4-1/8 37-5/8 30 5  34 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 6  35/16 41 38 2-3/8 43-1/8 38 3-5/8  40 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2  48 5/16 57-1/2 56 3-3/8 50 3-1/8 55-3/4 50 5-3/8 50 5-3/8  50 5/16 55-5/16 52 3-1/4 57-3/4 52 5  50 5/16 57-1/2 56 3-3/8 62-5/8 56 5-3/8 56  50 5/16 57-1/2 56 3-3/8 56 3-1/2 55/8 56  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 56  50 5/16 59-1/2 5														
44 5/16 50-1/8 44 2-3/4 47-7/8 44 4-1/4 49-7/8 44 6 53-3/4 44 7-1/4 46 5/16 52-1/8 46 2-7/8 50 46 4-1/2 52-1/8 46 6-1/4 56-3/8 46 7-5/8 48 5/16 54-3/8 48 3 52 48 4-5/8 54-5/8 48 6-1/2 58-3/8 48 8 50 5/16 56-3/8 50 3-1/8 56-1/8 50 4-7/8 56-7/8 50 6-3/4 52 5/16 58-5/8 52 3-1/4 56-1/8 50 5 5 58-7/8 50 7-1/2 54 5/16 60-7/8 54 3-1/4 58-5/8 54 5-1/4 61-1/8 54 7-1/4 56 5/16 63-1/8 56 3-3/8 60-5/8 56 5-3/8 63-3/8 56 7-1/2 58 5/16 65-3/8 58 3-1/2 62-5/8 58 5-5/8 65-3/8 58 7-7/8 60 5/16 67-3/8 60 3-5/8 64-5/8 60 5-3/4 68-1/8 60 8-1/8  **PH-605 SERIES "B" SPECS***  **PH-605 SERIES "B" SPECS***  **API-605 SERIES "B" SPECS***	40	5/16	45-5/8	40	2-1/2	43-3/4	40	3-7/8	45-3/8	40	5-3/8	49-1/8	40	6-5/8
46 5/16 52-1/8 46 2-7/8 50 46 4-1/2 52-1/8 46 6-1/4 56-3/8 46 7-5/8  48 5/16 54-3/8 48 3 52 48 4-5/8 54-5/8 48 6-1/2 58-3/8 48 8  50 5/16 56-3/8 50 3-1/8 54-1/8 50 4-7/8 56-7/8 50 6-3/4  52 5/16 58-5/8 52 3-1/4 56-1/8 52 5 58-7/8 52 7-1/4  54 5/16 60-7/8 54 3-1/4 58-5/8 52 5 58-7/8 52 7-1/2  58 5/16 63-1/8 56 3-3/8 60-5/8 56 5-3/8 63-3/8 56 7-1/2  58 5/16 65-3/8 58 3-1/2 62-5/8 58 5-5/8 65-3/8 63-3/8 56 7-1/2  58 5/16 67-3/8 60 3-5/8 64-5/8 60 5-3/4 68-1/8 60 8-1/8  60 5/16 30-7/16 26 1-5/8 30-1/4 26 2-1/2 30 26 3-1/2 32-7/8 26 4-3/8  30 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8  30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5  32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8  34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5-5/8  36 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  40 5/16 47 44 2-3/4 49-1/8 44 4-1/4  46 5/16 47 44 2-3/4 49-1/8 44 4-1/4  46 5/16 47 44 2-3/4 49-1/8 44 4-1/4  47 5/16 47 44 2-3/4 49-1/8 44 4-1/4  48 5/16 51-5/16 48 3 53-3/4 45 5-3/8  50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8  50 5/16 55-5/16 52 3-1/4 57-3/4 50 4-7/8  50 5/16 55-5/16 52 3-1/4 57-3/4 50 4-7/8  50 5/16 55-5/16 52 3-1/4 57-3/4 50 4-7/8  50 5/16 55-5/16 52 3-1/4 57-3/4 50 4-7/8  50 5/16 55-5/16 52 3-1/4 57-3/4 50 4-7/8  50 5/16 59-1/2 54 3-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 54 3-1/2 65-1/16 58 5-5/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  50 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/	42	5/16	47-7/8	42	2-5/8	45-3/4	42	4	47-7/8	42	5-5/8	51-1/8	42	7
48 5/16 54-3/8 48 3 52 48 4-5/8 54-5/8 48 6-1/2 58-3/8 48 8  50 5/16 56-3/8 50 3-1/8 54-1/8 50 4-7/8 56-7/8 50 6-3/4  52 5/16 58-5/8 52 3-1/4 56-1/8 52 5 58-7/8 52 7  54 5/16 60-7/8 54 3-1/4 58-5/8 54 5-1/4 61-1/8 54 7-1/4  56 5/16 63-1/8 56 3-3/8 60-5/8 56 5-3/8 63-3/8 56 7-1/2  58 5/16 65-3/8 58 3-1/2 62-5/8 58 5-5/8 65-3/8 58 7-7/8  60 5/16 67-3/8 60 3-5/8 64-5/8 60 5-3/4 68-1/8 60 8-1/8  API-605 SERIES "B" SPECS  26 5/16 32-7/16 26 1-5/8 30-1/4 26 2-1/2 30 26 3-1/2 32-7/8 26 4-3/8  28 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8  30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5  32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8  34 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 6  38 5/16 41 38 2-3/8 43-1/8 33 3-5/8  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  41 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8  50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8  50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8  50 5/16 59-1/2 54 3-1/4 57-3/4 52 5  54 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	44	5/16	50-1/8	44	2-3/4	47-7/8	44	4-1/4	49-7/8	44	6	53-3/4	44	7-1/4
50 5/16 56-3/8 50 3-1/8 54-1/8 50 4-7/8 56-7/8 50 6-3/4 52 5/16 58-5/8 52 3-1/4 56-1/8 52 5 58-7/8 52 7 54 5/16 60-7/8 54 3-1/4 58-5/8 54 5-1/4 61-1/8 54 7-1/4 56 5/16 63-1/8 56 3-3/8 60-5/8 56 5-3/8 63-3/8 56 7-1/2 58 5/16 65-3/8 58 3-1/2 62-5/8 58 5-5/8 65-3/8 58 7-7/8 60 5/16 67-3/8 60 3-5/8 64-5/8 60 5-3/4 68-1/8 60 8-1/8  ***PI-605 SERIES "B" SPECS*** 26 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8 30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5 32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8 34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 6 38 5/16 41 38 2-3/8 43-1/8 38 3-5/8 40 5/16 43 40 2-1/2 45/1/8 40 3-7/8 42 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 47 44 2-3/4 49-1/8 44 4-1/4 47 5/16 47 44 2-3/4 49-1/8 44 4-1/4 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 49 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 51 5/16 57-1/2 54 3-1/4 57-3/4 52 5 51 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	46	5/16	52-1/8	46	2-7/8		46	4-1/2	52-1/8	46	6-1/4	56-3/8	46	7-5/8
52 5/16 58-5/8 52 3-1/4 56-1/8 52 5 58-7/8 52 7  54 5/16 60-7/8 54 3-1/4 58-5/8 54 5-1/4 61-1/8 54 7-1/4  56 5/16 63-1/8 56 3-3/8 60-5/8 56 5-3/8 63-3/8 56 7-1/2  58 5/16 65-3/8 58 3-1/2 62-5/8 58 5-5/8 65-3/8 58 7-7/8  60 5/16 67-3/8 60 3-5/8 64-5/8 60 5-3/4 68-1/8 60 8-1/8   API-605 SERIES "B" SPECS  26 5/16 28-7/16 26 1-5/8 30-1/4 26 2-1/2 30 26 3-1/2 32-7/8 26 4-3/8  28 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8  30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5  32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8  34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5-5/8  36 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  42 5/16 43 40 2-1/2 45/1/8 40 3-7/8  42 5/16 45 42 2-5/8 47-1/8 42 4  44 5/16 47 44 2-3/4 49-1/8 44 4-1/4  46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2  48 5/16 51-5/16 48 3 53-3/4 48 4-5/8  50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8  51 5/16 55-5/16 55-5/16 52 3-1/4 57-3/4 52 5  54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4  56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  57 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	_							-				58-3/8	48	8
54         5/16         60-7/8         54         3-1/4         58-5/8         54         5-1/4         61-1/8         54         7-1/4           56         5/16         63-1/8         56         3-3/8         60-5/8         56         5-3/8         63-3/8         56         7-1/2           58         5/16         65-3/8         58         3-1/2         62-5/8         58         5-5/8         65-3/8         58         7-7/8           60         5/16         67-3/8         60         3-5/8         64-5/8         60         5-3/4         68-1/8         60         8-1/8           API-605 SERIES "B" SPECS           26         5/16         28-7/16         26         1-5/8         30-1/4         26         2-1/2         30         26         3-1/2         32-7/8         26         4-3/8           28         5/16         30-7/16         28         1-3/4         32-3/8         28         2-3/4         32-1/8         28         3-3/4         35-3/8         28         4-5/8           30         5/16         32-7/16         30         1-7/8         34-3/4         30         2-7/8         34-1/2         30         4-1/8         39														
56 5/16 63-1/8 56 3-3/8 60-5/8 56 5-3/8 63-3/8 56 7-1/2  58 5/16 65-3/8 58 3-1/2 62-5/8 58 5-5/8 65-3/8 58 7-7/8  60 5/16 67-3/8 60 3-5/8 64-5/8 60 5-3/4 68-1/8 60 8-1/8   API-605 SERIES "B" SPECS  26 5/16 28-7/16 26 1-5/8 30-1/4 26 2-1/2 30 26 3-1/2 32-7/8 26 4-3/8  28 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8  30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5  32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8  34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 34-5/8 42-1/8 38 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 6  38 5/16 41 38 2-3/8 43-1/8 38 3-5/8  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  42 5/16 45 42 2-5/8 47-1/8 42 4  44 5/16 47 44 2-3/4 49-1/8 44 4-1/4  46 5/16 47 44 2-3/4 49-1/8 44 4-1/4  46 5/16 51-5/16 48 3 53-3/4 56 4-7/8 51-3/4 56 4-7/8  48 5/16 51-5/16 55 5/16 52 3-1/4 57-3/4 52 5  54 5/16 55-5/16 52 3-1/4 57-3/4 52 5  54 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8												ļ		
58         5/16         65-3/8         58         3-1/2         62-5/8         58         5-5/8         65-3/8         58         7-7/8           60         5/16         67-3/8         60         3-5/8         64-5/8         60         5-3/4         68-1/8         60         8-1/8           API-605 SERIES "B" SPECS           26         5/16         28-7/16         26         1-5/8         30-1/4         26         2-1/2         30         26         3-1/2         32-7/8         26         4-3/8           28         5/16         30-7/16         28         1-3/4         32-3/8         28         2-3/4         32-1/8         28         3-3/4         35-3/8         28         4-5/8           30         5/16         32-7/16         30         1-7/8         34-3/4         30         2-7/8         34-1/2         30         4-1/8         37-5/8         30         5           32         5/16         34-9/16         32         2         36-7/8         32         3-1/8         36-5/8         32         4-3/8         39-7/8         32         5-3/8           34         5/16         36-3/4         36         2-1/4         41-1/8 <td></td>														
API-605 SERIES "B" SPECS  26 5/16 28-7/16 26 1-5/8 30-1/4 26 2-1/2 30 26 3-1/2 32-7/8 26 4-3/8  28 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8  30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5  32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8  34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5-5/8  36 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 6  38 5/16 41 38 2-3/8 43-1/8 38 3-5/8  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  42 5/16 45 42 2-5/8 47-1/8 42 4  44 5/16 47 44 2-3/4 49-1/8 44 4-1/4  46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2  48 5/16 51-5/16 48 3 53-3/4 48 4-5/8  50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8  52 5/16 55-5/16 52 3-1/4 57-3/4 52 5  54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4  56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8														
API-605 SERIES "B" SPECS  26 5/16 28-7/16 26 1-5/8 30-1/4 26 2-1/2 30 26 3-1/2 32-7/8 26 4-3/8  28 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8  30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5  32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8  34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5-5/8  36 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 6  38 5/16 41 38 2-3/8 43-1/8 38 3-5/8  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  42 5/16 45 42 2-5/8 47-1/8 42 4  44 5/16 47 44 2-3/4 49-1/8 44 4-1/4  46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2  48 5/16 51-5/16 48 3 53-3/4 46 4-1/2  48 5/16 51-5/16 48 3 53-3/4 48 4-5/8  50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8  52 5/16 55-5/16 52 3-1/4 57-3/4 52 5  54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4  56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  5/16 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8	_		_									-		
26 5/16 28-7/16 26 1-5/8 30-1/4 26 2-1/2 30 26 3-1/2 32-7/8 26 4-3/8 28 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8 30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5 32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8 34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5-5/8 36 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 5/16 41 38 2-3/8 43-1/8 38 3-5/8 40 5/16 43 40 2-1/2 45/1/8 40 3-7/8 42 5/16 45 42 2-5/8 47-1/8 42 4 44 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 50 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8														
28 5/16 30-7/16 28 1-3/4 32-3/8 28 2-3/4 32-1/8 28 3-3/4 35-3/8 28 4-5/8 30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5 32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8 34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5-5/8 36 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 6 38 5/16 41 38 2-3/8 43-1/8 38 3-5/8 40 5/16 43 40 2-1/2 45/1/8 40 3-7/8 42 5/16 45 42 2-5/8 47-1/8 42 4 44 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 50 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	26	5/16	28-7/16	26	1-5/8					26	3-1/2	32-7/8	26	4-3/8
30 5/16 32-7/16 30 1-7/8 34-3/4 30 2-7/8 34-1/2 30 4-1/8 37-5/8 30 5 32 5/16 34-9/16 32 2 36-7/8 32 3-1/8 36-5/8 32 4-3/8 39-7/8 32 5-3/8 34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5-5/8 36 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 6 38 5/16 41 38 2-3/8 43-1/8 38 3-5/8 40 5/16 43 40 2-1/2 45/1/8 40 3-7/8 42 5/16 45 42 2-5/8 47-1/8 42 4 44 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8														
34 5/16 36-11/16 34 2-1/8 39 34 3-1/4 39-1/8 34 4-5/8 42-1/8 34 5-5/8 36 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 38 5/16 41 38 2-3/8 43-1/8 38 3-5/8 40 5/16 43 40 2-1/2 45/1/8 40 3-7/8 42 5/16 45 42 2-5/8 47-1/8 42 4 44 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	30	5/16	32-7/16	30	1-7/8	34-3/4	30	2-7/8	34-1/2	30	4-1/8	37-5/8	30	5
36 5/16 38-3/4 36 2-1/4 41-1/8 36 3-1/2 41-1/8 36 4-7/8 44-1/8 36 6  38 5/16 41 38 2-3/8 43-1/8 38 3-5/8  40 5/16 43 40 2-1/2 45/1/8 40 3-7/8  42 5/16 45 42 2-5/8 47-1/8 42 4  44 5/16 47 44 2-3/4 49-1/8 44 4-1/4  46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2  48 5/16 51-5/16 48 3 53-3/4 48 4-5/8  50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8  52 5/16 55-5/16 52 3-1/4 57-3/4 52 5  54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4  56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8  58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	32	5/16	34-9/16	32	2	36-7/8	32	3-1/8	36-5/8	32	4-3/8	39-7/8	32	5-3/8
38 5/16 41 38 2-3/8 43-1/8 38 3-5/8 40 5/16 43 40 2-1/2 45/1/8 40 3-7/8 42 5/16 45 42 2-5/8 47-1/8 42 4 44 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	34	5/16	36-11/16	34	2-1/8	39	34	3-1/4	39-1/8	34	4-5/8	42-1/8	34	5-5/8
40 5/16 43 40 2-1/2 45/1/8 40 3-7/8 42 5/16 45 42 2-5/8 47-1/8 42 4 44 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	36	5/16	38-3/4	36	2-1/4	41-1/8	36	3-1/2	41-1/8	36	4-7/8	44-1/8	36	6
42 5/16 43 40 2-1/2 45/1/8 40 3-1/8 42 5/16 45 42 2-5/8 47-1/8 42 4 44 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	_					<del></del>				RLIN	D HAN	DI E CC	O ORS	
44 5/16 47 44 2-3/4 49-1/8 44 4-1/4 46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8		_												
46 5/16 49-5/16 46 2-7/8 51-3/4 46 4-1/2 48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8														
48 5/16 51-5/16 48 3 53-3/4 48 4-5/8 50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	_					_								
50 5/16 53-5/16 50 3-1/8 55-3/4 50 4-7/8 52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8									150	DO# - W	HITE	2500	)# - OR/	INGE
52 5/16 55-5/16 52 3-1/4 57-3/4 52 5 54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	_					<del>                                     </del>								
54 5/16 57-1/2 54 3-1/4 60-1/8 54 5-1/4 56 5/16 59-1/2 56 3-3/8 62-5/8 56 5-3/8 58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8		-				-								
58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8									<u> </u>	17/1	AVA	AILAB	LE <b>24</b>	/7,
58 5/16 62-1/16 58 3-1/2 65-1/16 58 5-5/8	-								365	j 📕 🗾	365	DAYS	AY	AR!
		_							V.	SA				
						<del></del>								

## **METHODOLOGY**

Line sizes up to 96" are available. Standard Isolation thickness is 5/16" (+/-1/16). Any thickness rating or alloy is available upon request.

Sizes and thicknesses meet the following specifications ASME 16.48, ASME 16.5, **ASME B16.47.** 

Blank thicknesses over 24 NPS were calculated using the equation for blanks in ASME B31.3 as follows:

 $T=d\sqrt{((3P)/(16SE))}$ 

1500#

I.D.

5/8

7/8

1-3/8

1-5/8

2

2-1/2

5

6

8

10

12

13-1/8

15

16-7/8

18-7/8

THK

5/16

3/8

3/8

3/8

1/2

1/2

5/8

3/4

1-1/8

1-3/8

2

2-3/8

2-5/8

3

3-3/8

3-3/4

4-3/8

5/8

7/8

1-3/8

1-5/8

2

2-3/8

5

6

9-3/4

3/8

3/8

3/8

1/2

5/8

5/8

3/4

7/8

1-1/8

1-3/8

1-5/8

2-1/8

2-5/8

3-1/8

2-5/8

2-7/8

3-1/4

4

4-1/2

5-5/8

6-1/2

7-5/8

9-1/8

10-7/8

12-3/8

15-1/8

18-5/8

21-1/2 11-3/8

0.D.

2-3/8

2-5/8

3-3/8

3-3/4

5-1/2

6-3/8

6-3/4

8-1/8

9-7/8

11

13-3/4

17

20-3/8

22-5/8

25-1/8

27-5/8 29-5/8

1/2 35-3/8 22-5/8

d = I.D. of ring gasket (in.)

T = Blank Thickness (in.)

S = 23,300psi

E = 1.00

P = Design Gauge Pressure psi.

S (Basic Allowable Stress) and E (Quality Factor) values were determined from tables A1 and A1-A from B31.3 for 516-Gr 70 material with the temperature range of -20 to 100° Fahrenheit. This calculation does not take into consideration any required corrosion allowance if needed.