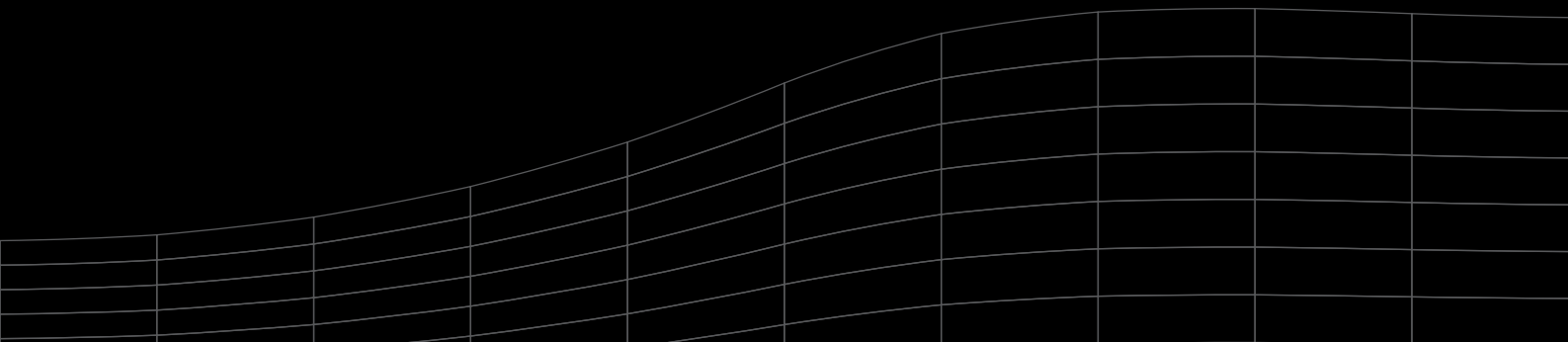




**SARA SAE PRIVATE LIMITED**

**ELEVATORS**



# ELEVATOR

Elevators are a hinged device with handles that are used to wrap around the tool joint of drill pipe, casing or lift collars to facilitate the lifting or lowering of them individually or of the drill string as a whole.

In practical use elevators are highly stressed components and require regular careful inspection.

To latch around a piece of pipework a set of elevators need a precise internal diameter, with an appropriately profiled shoulder to accommodate the lower profile of a tool joint. The latch mechanism prevents opening under radial loads of up to hundreds of tons. The elevators also need to resist cross-axial loads of the weight of the pipe joints.

Sara sae elevators are manufactured from a special alloy steel and in conformance to requirements of API 8A and API 8C.

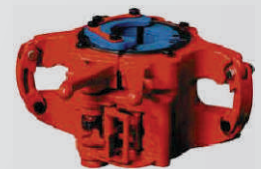
There are various models available and are suitable for both collar type and external upset tubulars of load rating upto 500 Tons.

Below are different models of commonly used elevators.

- Slip type “Y” series Elevators
- Center latch collar type “A” series Elevators
- 18° Center latch “G” series Elevators
- Sucker rod Elevators
- Collar type Side door “X” series Elevators
- Single joint auxiliary “S” series Elevators.

Size Range (inch)	Type	Part Number	Capacity (Tons)	Weight (Kg)
<b>SLIP TYPE “Y” SERIES ELEVATORS :</b>				
1.050 to 2-1/16	LYT	-	20	26
1.315 to 2-7/8	MYT	29328-XXX	40	67
1.315 to 3-1/2	YT	50006582-XXX	75	161
2-3/8 to 3-1/2	HYT	39284-XXX	150	336
3-1/2 to 7	YC	24140-XXX	75	206
3-1/2 to 7	MYC	200360-XXX	125	
3-1/2 to 7-5/8	HYC	55310-XXX	200	452
<b>CENTER LATCH COLLAR TYPE “A” SERIES ELEVATORS :</b>				
1.050” -2.7 -8”	TA	32387 -XXX	35	31
1.660” -2.7/8”	TA	-	65	51
2.3/8” -2.7/8”	TA	50006310 -XXX	100	56
3.1/2” -5”	TA	50006310 -XXX	100	76
4.3/4” -8.5/8”	TA	200000 -XXX	100	195
4.1/2” -8.5/8”	TA	32754 -XXX	150	176
8.1/2” -11.1/4”	TA	39342 -XXX	150	216
<b>18° CENTER LATCH “G” SERIES ELEVATORS :</b>				
2.3/8” -5”	MG	30157 -XXX	100	108
2.3/8” -4.1/2”	RG	200680 -XXX	150	145
4” -5.1/2”	RG	-	150	158
2.3/8” -5.1/2”	MGG	35005 -XXX	250	176
2.3/8” -5.1/2”	GG	31068 -XXX	350	350
3.1/2” -6.5/8”	HGG	70013 -XXX	500	500
<b>SUCKER ROD ELEVATORS :</b>				
5/8” -3/4”	SRE	27725 -XXX	25	17
3/4” -7/8”	SRE	27726 -XXX	25	17
1”	SRE	27727	25	17
1” -1/8”	SRE	27727 -XXX	25	17

XXX-BORE CODE



“Y” Series Elevator



“A” Series Elevator



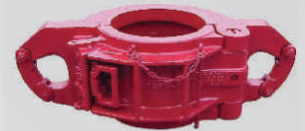
“G” Series Elevator



Sucker Rod Elevator

Size Range (inch)	Type	Part Number	Capacity (Tons)	Weight (Kg)
<b>COLLAR TYPE SIDE DOOR "X" SERIES ELEVATORS :</b>				
3.1/2" -5.1/2"	SLX	SLX -33734 -XXX	65	60
5.3/4" -8.5/8"	SLX	SLX -31239 -XXX	65	78
9" -10.3/4"	SLX	SLX -33950 -XXX	65	85
11" -14 -1/4"	SLX	SLX -33982 -XXX	65	97
2.3/8" -2.7/8"	SLX	SLX -33693 -XXX	100	41
3.1/2" -5.3/4"	SLX	SLX -33809 -XXX	100	67
5.1/2" -8.5/8"	SLX	SLX -31239 -XXX	150	160
9.5/8" -10.3/4"	SLX	SLX -33950 -XXX	150	168
11.3/4" -13.5/8"	SLX	SLX -33982 -XXX	150	237
5.1/2" -7.3/4"	SLX	-	250	186
8.5/8" -10.3/4"	SLX	-	250	214
11.3/4" -14"	SLX	SLX -33982 -XXX	250	285
16" -20"	SLX	SLX -34087 -XXX	150	300
16" -20"	SLX	-	250	425
22" -30"	SLX	SLX -34175 -XXX	250	590
9.5/8" -14"	SX	SLX -29964 -XXX	350	502
9.5/8" -14"	SX	-	500	502
16" -20"	SX	SLX -30729 -XXX	350	690
16" -20"	SX	-	500	690
<b>"S" SERIES SJ TYPE AUXILIARY ELEVATORS</b>				
2.3/8 - 2.7/8	SJ	SJ-33010-XXX	5	11
3.1/2 - 4.3/4	SJ	SJ-33011-XXX	5	13
5 - 5.3/4	SJ	SJ-33039-XXX	5	14
6 - 6.5/8	SJ	SJ-33040-XXX	5	19
7 - 7.3/4	SJ	SJ-33040-XXX	5	23
8.5/8 - 9.5/8	SJ	SJ-33041-XXX	5	26
9.7/8 - 10.3/4	SJ	SJ-33041-XXX	5	41
11.3/4 - 13.3/8	SJ	SJ-33042-XXX	5	53
13.5/8 - 14	SJ	SJ-33042-XXX	5	55
16	SJ	SJ-33043-XXX	5	57
18.5/8	SJ	SJ-33043-XXX	5	64
20	SJ	SJ-33043-XXX	5	77
21.1/2 - 22	SJ	SJ-33044-XXX	5	81
24 - 24.1/2	SJ	SJ-33044-XXX	5	113
26 - 28	SJ	SJ-33045-XXX	5	147
30	SJ	SJ-33046-XXX	5	149
<b>"S" SERIES SP TYPE AUXILIARY ELEVATORS</b>				
2.3/8 - 5.1/2	SP 5°	SP-200008-XXX	5	32
5.1/2 - 7.5/8	SP 5°	SP-200010-XXX	5	46
8.5/8 - 9.5/8	SP 5°	SP-200012-XXX	5	63
10.3/4	SP 5°	SP-200013-XXX	5	70
2.3/8 - 4.1/2	SP 12°	SP-200014-XXX	5	36
2.7/8 - 5	SP 18°	SP-200009-XXX	5	33
5.1/2 - 6.5/8	SP 18°	SP-200011-XXX	5	39

XXX-BORE CODE



"X" Series Elevator



"SJ" Type Elevator



"SP" Type Elevator

## ACCESSORISE

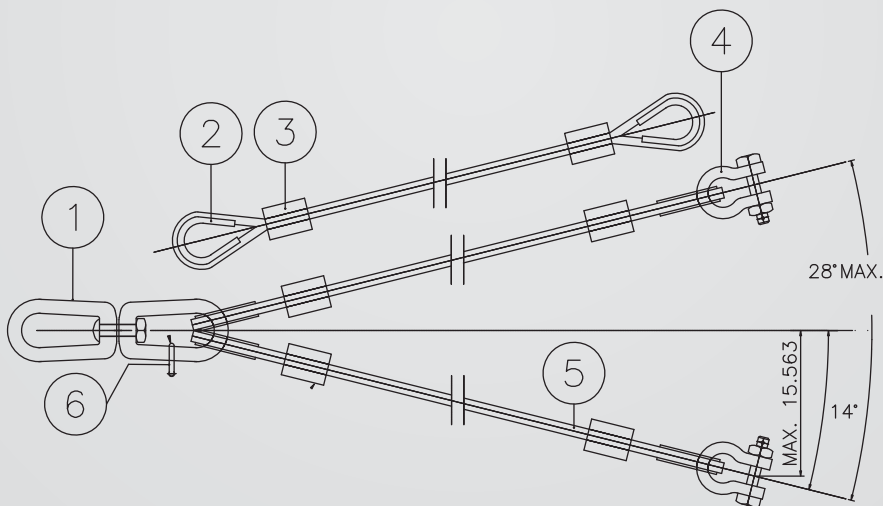
### WELDLESS LINKS :

Model	Rated Load Capacity (Tons )	Size (inch)
DH050	50	43-3/8"
DH075	75	59"
DH150	150	70-7/8"
DH250	250	106-3/8"
DH350	350	130"
DH500	450	141-3/4"
DH750	750	144"



**Weldless Links**

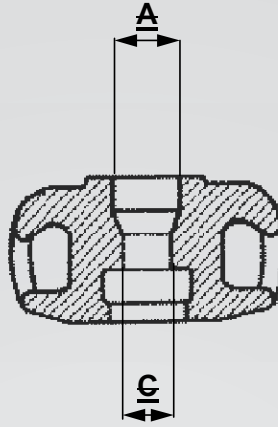
### SWIVEL AND SLING ASSEMBLY



Item	Part Number	Description
1	979456-56	Regular swivel Min WWL. 6.26 tons
2	979457-18	Thimble
3	979458-18	Swage sleeve
4	979459-475	Shackle bolt type 3/4" 4.75 ton
5	979460-18	Chain 1/2" High Tensile 4 meter long
6	50001125	Weld ring

# BORE CHARTS

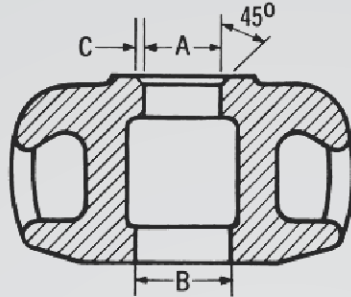
## 18° Taper Drill Pipe Elevator Bore Chart



Drill pipe			Elevator			Standard	Connection		
Drill pipe Size	Type Upset	Upset	Dimension	Dimension	Bore code		Hydrill Wedge Thread	Grant Prideco	
Max OD		Max. OD	Center bore C (new)	Top bore A (new)	18° taper				
2 3/8"	EU	2 9/16"	2 21/32"	4 1/4"	116	OH	WT 14S, 23, 26	XT 24, 26	
						NC 26 (IF)			HT 26
						SL H90			GPDS 26
						WO			
2 7/8"	EU	3 3/16"	3 9/32"	4 3/4"	118	NC 31(IF)	WT 14S, 31	XT 31	
						OH			HT 31
						SL H90			GPDS 31
						WO			
3 1/2"	IU	3 11/16"	3 25/32"	5 1/2"	119	XH	WT 14S, 31	XT 31	
						NC 31(SH)			HT 31
3 1/2"	EU	3 7/8"	3 31/32"	5 1/2"	120	NC 38(IF)	WT 31, 38	XT 38	
						OH			HT 38
						SL H90			GPDS 38
						WO			
4"	IU	4 3/16"	4 9/32"	6 1/2"	121	NC 40(FH)	WT 31, 38, 39	XT 38, 39	
						SH			HT 38, 40
						H90			GPDS 40

4"	EU	4 1/2"	4 25/32"	6 3/4"	122	NC 46(IF)	WT 40	
						OH		
						WO		
4 1/2"	IU	4 11/16"	4 25/32"	6 3/4"	122	H90	WT 38	
4 1/2"	IEU	4 11/16"	4 25/32"	6 3/4"	122	NC 46(XH)	WT 39, 40	XT 40, 46
						FH		HT 46
						NC 38(SH)		GPDS 46
						H90		
4 1/2"	EU	5" to 5 1/8"	5 1/4"	7 1/8"	123	NC 50(IF)	WT 46	XT 50
						OH		HT 50
						W O		
5"	IEU	5 1/8"	5 1/4"	7 1/8"	123	NC 50(XH)	WT 39, 40, 46, 50	XT 46, 50
								HT 50
								GPDS 50
5"	IEU	5 1/8"	5 1/4"	7 1/2"	756	5 1/2" FH		
5 1/2"	IEU	5 11/16"	5 13/16"	7 7/8"	124	FH	WT 46, 50, 54, 56	XT 54, 57
								HT 55
								GPDS 55
5 7/8"	IEU	6"	6 1/8"	8 1/4"	770		XR	
5 1/2"	IEU	6"	6 1/8"	8 1/4"	770		WT 54, 56	XT 57
6 5/8"	IEU	6 3/4"	7 1/32"	8 7/8"	740	FH	WT 56, 66	XT 65
								HT 65
								GPDS 65
5 1/2"	IEU		6.233"	8"	678	IF	Mannesmann	
5 7/8"		6"	6 1/8"	7 7/8"	789			

### Drill Collars with Zip Lift Recess Bore Elevator Bore Chart



Drill Collar OD	ZIP OD	Bore Code	Top Bore A	Bevel C	Bottom Bore B
4 1/8"	3 11/16"	177	3 13/16"	1/16"	4 1/4"
4 3/4"	4 1/4"	435	4 3/8"	1/16"	4 7/8"
5 1/4"	4 3/4"	179	4 7/8"	1/16"	5 3/8"
5 1/2"	5"	180	5 1/8"	1/16"	5 5/8"
5 3/4"	5 1/8"	181	5 1/4"	1/16"	5 7/8"
6"	5 3/8"	362	5 1/2"	1/16"	6 1/8"
6 1/4"	5 5/8"	337	5 3/4"	1/16"	6 3/8"
6 1/2"	5 7/8"	373	6"	1/16"	6 5/8"
6 3/4"	6"	387	6 3/16"	3/32"	6 7/8"
7"	6 1/4"	361	6 7/16"	3/32"	7 1/8"
7 1/4"	6 1/2"	357	6 11/16"	3/32"	7 3/8"
7 1/2"	6 3/4"	188	6 15/16"	3/32"	7 5/8"
7 3/4:	7"	339	7 3/16"	3/32"	7 7/8"
8"	7 1/4"	336	7 7/16"	3/32"	8 1/8"
8 1/4"	7 1/2"	422	7 11/16"	3/32"	8 3/8"
8 1/2"	7 3/4"	426	7 15/16"	3/32"	8 5/8"
9"	8 1/8"	427	8 3/8"	1/8"	9 1/8"
9 1/2"	8 5/8"	370	8 7/8"	1/8"	9 5/8"
9 3/4"	8 7/8"	367	9 1/8"	1/8"	9 7/8"
10"	9 1/8"	195	9 3/8"	1/8"	10 1/8"
10 3/4"	9 7/8"	527	10 1/8"	3/32"	10 7/8"
11"	10 1/8"	419	10 3/8"	1/8"	11 1/8"
11 1/4"	10 3/8"	196	10 5/8"	1/8"	11 3/8"

### Plain Drill Collars with Lift Plugs Elevator Bore Chart

Drill Collar OD	Bore Code	Top Bore A	Bevel C	Bottom Bore B
2 1/2"	201	2 21/32"	1/16"	2 21/32"
2 3/4"	203	2 29/32"	1/16"	2 29/32"
3"	205	3 5/32"	1/16"	3 5/32"
3 1/8"	206	3 9/32"	1/16"	3 9/32"
3 1/4"	207	3 13/32"	1/16"	3 13/32"
3 1/2"	209	3 21/32"	1/16"	3 21/32"
3 3/4"	211	3 29/32"	1/16"	3 29/32"
4"	213	4 5/32"	1/16"	4 5/32"
4 1/8"	519	4 9/32"	1/16"	4 9/32"
4 1/4"	548	4 13/32"	1/16"	4 13/32"
4 1/2"	215	4 21/32"	1/16"	4 21/32"
4 3/4"	354	4 15/16"	1/16"	4 15/16"
5"	552	5 3/16"	1/16"	5 3/16"
5 1/4"	219	5 7/16"	1/16"	5 7/16"
5 1/2"	411	5 11/16"	1/16"	5 11/16"
5 3/4"	222	5 31/32"	1/16"	5 31/32"
6"	349	6 7/32"	1/16"	6 7/32"
6 1/4"	348	6 15/32"	1/16"	6 15/32"
6 3/8"	331	6 19/32"	1/16"	6 19/32"
6 1/2"	135	6 23/32"	1/16"	6 23/32"
6 3/4"	338	7"	1/16"	7"
7"	372	7 1/4"	1/16"	7 1/4"
7 1/4"	335	7 1/2"	1/16"	7 1/2"
7 1/2"	137	7 3/4"	1/16"	7 3/4"
7"	550	8"	1/16"	8"
8"	334	8 1/4"	1/16"	8 1/4"
8 1/4"	347	8 1/2"	1/16"	8 1/2"
8 1/2"	580	8 25/32"	1/16"	8 25/32"
8 3/4"	226	9 1/32"	1/16"	9 1/32"
9"	356	9 9/32"	1/16"	9 9/32"
9 1/4"	227	9 17/32"	1/16"	9 17/32"
9 1/2"	346	9 25/32"	1/16"	9 25/32"
10"	228	10 11/32"	1/16"	10 11/32"
10 1/2"	229	10 27/32"	1/16"	10 27/32"
11"	230	11 11/32"	1/16"	11 11/32"



### Collar Tubing Elevator Bore Chart

Tubing Size	Style	Bore Code	Top Bore A	Bottom Bore B
1.050"	Plain	150	1.125"	1.125"
	Upset Tubing	151	1.422"	1.422"
1.315"	Plain	152	1.390"	1.390"
	Upset Tubing	153	1.578"	1.578"
1.660"	Plain	154	1.734"	1.734"
	Upset Tubing	155	1.922"	1.922"
1.900"	Plain	156	1.984"	1.984"
	Upset Tubing	157	2.203"	2.203"
2 <sup>3</sup> / <sub>8</sub> "	Plain	158	2.453"	2.453"
	Upset Tubing	159	2.703"	2.703"
2 <sup>7</sup> / <sub>8</sub> "	Plain	160	2.953"	2.953"
	Upset Tubing	161	3.203"	3.203"
3 <sup>1</sup> / <sub>2</sub> "	Plain	162	3.578"	3.578"
	Upset Tubing	163	3.859"	3.859"
4"	Plain	164	4.078"	4.078"
	Upset Tubing	165	4.359"	4.359"
4 <sup>1</sup> / <sub>2</sub> "	Plain	129	4.594"	4.594"
	Upset Tubing	167	4.859"	4.859"

### Casing Elevator Bore Chart

Casing Size	Bore Code	Top Bore A	Bottom Bore B
4 1/2"	129	4 <sup>19</sup> / <sub>32</sub> "	4 <sup>19</sup> / <sub>32</sub> "
4 3/4"	130	4 <sup>27</sup> / <sub>32</sub> "	4 <sup>27</sup> / <sub>32</sub> "
5"	131	5 <sup>1</sup> / <sub>8</sub> "	5 <sup>1</sup> / <sub>8</sub> "
5 1/2"	132	5 <sup>5</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "
5 3/4"	133	5 <sup>7</sup> / <sub>8</sub> "	5 <sup>7</sup> / <sub>8</sub> "
6"	134	6 <sup>1</sup> / <sub>8</sub> "	6 <sup>1</sup> / <sub>8</sub> "
6 <sup>5</sup> / <sub>8</sub> "	135	6 <sup>3</sup> / <sub>4</sub> "	6 <sup>3</sup> / <sub>4</sub> "
7"	136	7 <sup>1</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>8</sub> "
7 <sup>5</sup> / <sub>8</sub> "	137	7 <sup>3</sup> / <sub>4</sub> "	7 <sup>3</sup> / <sub>4</sub> "
8 <sup>5</sup> / <sub>8</sub> "	139	8 <sup>25</sup> / <sub>32</sub> "	8 <sup>25</sup> / <sub>32</sub> "
9"	140	9 <sup>5</sup> / <sub>32</sub> "	9 <sup>5</sup> / <sub>32</sub> "
9 <sup>5</sup> / <sub>8</sub> "	141	9 <sup>25</sup> / <sub>32</sub> "	9 <sup>25</sup> / <sub>32</sub> "
9 <sup>7</sup> / <sub>8</sub> "	649	10 <sup>1</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>8</sub> "
10"	831	10.156"	10.156"
10 <sup>1</sup> / <sub>8</sub> "	846	10.3"	10.3"
10 <sup>3</sup> / <sub>4</sub> "	142	10 <sup>15</sup> / <sub>16</sub> "	10 <sup>15</sup> / <sub>16</sub> "
11 <sup>3</sup> / <sub>4</sub> "	143	11 <sup>15</sup> / <sub>16</sub> "	11 <sup>15</sup> / <sub>16</sub> "
13 <sup>3</sup> / <sub>8</sub> "	144	13 <sup>9</sup> / <sub>16</sub> "	13 <sup>9</sup> / <sub>16</sub> "
13 <sup>5</sup> / <sub>8</sub> "	596	13 <sup>13</sup> / <sub>16</sub> "	13 <sup>13</sup> / <sub>16</sub> "
14"	690	14 <sup>13</sup> / <sub>64</sub> "	14 <sup>13</sup> / <sub>64</sub> "
16"	145	16 <sup>7</sup> / <sub>32</sub> "	16 <sup>7</sup> / <sub>32</sub> "
18"	723	18 1/4"	18 1/4"
18 <sup>5</sup> / <sub>8</sub> "	146	18 <sup>7</sup> / <sub>8</sub> "	18 <sup>7</sup> / <sub>8</sub> "
20"	147	20 <sup>9</sup> / <sub>32</sub> "	20 <sup>9</sup> / <sub>32</sub> "
21 1/2"	148	21 <sup>25</sup> / <sub>32</sub> "	21 <sup>25</sup> / <sub>32</sub> "
22"	688	22 <sup>9</sup> / <sub>32</sub> "	22 <sup>9</sup> / <sub>32</sub> "
24"	630	24 <sup>5</sup> / <sub>16</sub> "	24 <sup>5</sup> / <sub>16</sub> "
24 1/2"	149	24 <sup>13</sup> / <sub>16</sub> "	24 <sup>13</sup> / <sub>16</sub> "
26"	650	26 <sup>11</sup> / <sub>32</sub> "	26 <sup>11</sup> / <sub>32</sub> "
28"	693	28 <sup>23</sup> / <sub>64</sub> "	28 <sup>23</sup> / <sub>64</sub> "
30"	644	30 <sup>3</sup> / <sub>8</sub> "	30 <sup>3</sup> / <sub>8</sub> "

### Collar Type Drill Pipe

Bore Code	Top Bore A	Bottom Bore B
101	3 <sup>3</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub> "
102	3 <sup>13</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>4</sub> "
103	4 <sup>1</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>4</sub> "
104	4 <sup>5</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>4</sub> "
105	4 <sup>13</sup> / <sub>16</sub> "	4 <sup>3</sup> / <sub>4</sub> "
106	5 <sup>5</sup> / <sub>16</sub> "	5 <sup>1</sup> / <sub>4</sub> "
107	5 <sup>7</sup> / <sub>8</sub> "	5 <sup>13</sup> / <sub>16</sub> "
108	3 <sup>1</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub> "
109	2 <sup>5</sup> / <sub>8</sub> "	2 <sup>5</sup> / <sub>8</sub> "
110	2 <sup>3</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>4</sub> "
111	3 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub> "
112	3 <sup>1</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>16</sub> "
113	5 <sup>11</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "
114	6 <sup>1</sup> / <sub>4</sub> "	6 <sup>1</sup> / <sub>4</sub> "
115	2 <sup>13</sup> / <sub>16</sub> "	2 <sup>13</sup> / <sub>16</sub> "