


Packaging & Shipping Manual		 <b>PERFORMANCE PIPE</b> <small>A DIVISION OF CHEVRON PHILLIPS CHEMICAL COMPANY LP</small>
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**Plant Containerization**

All plants have the ability to load full pallet quantities of coils and/or straight lengths of pipe inside overseas containers. However, the loading of coils and straight length of pipe together will not be permitted. No more than four different pipe diameters shall be loaded within one container. Due to differences in plant staffing and equipment capabilities, all other containerization, including telescoping, at the plant must be preauthorized before a commitment is made to the customer. Nesting of coils inside other coils is not allowed. Containerization at a plant is subject to additional loading and shipping charges. Footage quantities for containers are approximate and may vary depending on container and plant loading capabilities. Pipe diameters 2" and under are available in coils only. \* Denotes certain large diameter pipe sizes may only be sold by approval of the Manufacturer Manager as special engineered shipping cradles may be required.

**CONTAINER LOADING REQUIREMENTS:**

- Plants will ship product only in 40' high cube containers with an interior length of 40'.
- High Cube Container: Interior Width = 92.25" / Door Height = 101.75" and Door Width = 92"
- Pipe joints will be a maximum of 39 foot in length and coils will vary depending on heights.
- Footage listed in table is approximate and the actual footage put in the container may vary due to plant container loading capabilities.
- Weight limits on county, state, and federal roads are approximately 45,000 lbs.
- Weight limits in Port Commerce Zones range near 57,000 and 60,000 lbs, depending on the port.
- Any wood products shipped on containers must have required heat treated markings.

**COILS**


Description IPS	OD IPS	DR	Lbs Per Foot	Coil Length	Pallet Size	Coil Per Pallet	Width Per Coil	Pallet per 40' high cube Container	Coils per 40' high Cube Container	Lbs per 40' high cube Container	Feet per 40' high cube Container	Height* Per Pallet
3 / 4"	1.050	11	.12	500'	44"	7	10"	20	140	8,400	70,000'	75"
1"	1.315	11	.19	500'	44"	6	12"	20	120	11,400	60,000'	77"
1 1/4 "	1.660	11	.31	500'	78"	12	7 1/2"	6	72	11,160	36,000'	95"
1 1/2 "	1.900	11	.41	500'	78"	8	8 1/2"	6	48	9,840	24,000'	56"
2"	2.375	11	.64	500'	78"	7	13 1/2"	6	42	13,440	21,000'	100"

Description CTS	OD CTS	Min. Wall	Lbs Per Foot	Coil Length	Pallet Size	Coil Per Pallet	Width Per Coil	Pallet per 40' high cube Container	Coils per 40' high Cube Container	Lbs per 40' high cube Container	Feet per 40' high cube Container	Height Per Pallet
1 / 4"	0.375	0.062	.03	1500	36"	14	5"	26	364	16,380	546,000	75"
1 / 2"	0.625	0.090	.07	500	44"	12	6"	20	240	8,400	120,000	77"
3 / 4"	0.875	0.090	.10	500	44"	6	11"	20	120	6,000	60,000	71"
1"	1.125	0.090	.142	500	44"	8	12"	20	160	11,360	80,000	101"
1 1/4"	1.375	0.090	.211	500	45"	6	7 1/2"	20	120	12,660	60,000	49"

Description MILLIMETER	OD MM	DR	Lbs Per Foot	Coil Length	Pallet Size	Coil Per Pallet	Width Per Coil	Pallet per 40' high cube Container	Coils per 40' high Cube Container	Lbs per 40' high cube Container	Feet per 40' high cube Container	Height Per Pallet
20 MM	0.787	11	.069	500	44"	12	6"	20	240	8,280	120,000	77"
25 MM	0.984	11	.108	500	44"	6	11"	20	120	6,480	60,000	71"
32 MM	1.280	10	.183	500	44"	8	12"	20	160	14,640	80,000	101"
40 MM	1.570	11	.276	500	44"	7	10"	20	140	19,320	70,000'	75"
63 MM	2.480	11	.688	500	78"	6	15"	6	36	12,384	18,000	95"

\*Note: Height per pallet column includes 5" for actual height of pallet plus coils. All packaging dimensions for coils are based on standard packaging dimensions.

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**39' PIPE JOINTS - 3" – 10" IPS**

**39' PIPE JOINTS - 12" – 24" IPS**


SIZE	OD	DR	#/ft	Joints	Feet	Weight lbs	SIZE	OD	DR	#/ft	Joints	Feet	Weight lbs
3" IPS	3.500	17.0	.93	594	23,166	21,544	12" IPS	12.750	32.5	6.67	52	2,028	13,526
		11.5	1.32	650	25,350	33,462			26.0	8.26			16,751
		11.0	1.39	648	25,272	35,128			21.0	10.13			20,544
		9.0	1.66	648	25,272	41,951			17.0	12.36			25,066
		7.0	2.05	540	21,060	43,173			11.0	18.41			37,335
4" IPS	4.500	21.0	1.26	464	18,096	22,800	14" IPS	14.00	32.5	8.05	44	1,716	13,813
		17.0	1.54	448	17,427	26,838			26.0	9.96			17,091
		11.5	2.17	464	18,096	39,268			21.0	12.22			20,969
		11.0	2.29	464	18,096	41,440			17.0	14.91			25,585
		9.0	2.74	406	15,834	43,385			11.0	22.20			38,095
5" IPS	5.563	26.0	1.57	299	11,661	18,307	16" IPS	16.00	32.5	10.50	30	1,170	12,285
		21.0	1.93	299	11,661	22,505			26.0	13.01			15,221
		17.0	2.35	286	11,154	26,212			21.0	15.96			18,673
		11.0	3.51	286	11,154	39,150			17.0	19.46			22,768
		9.0	4.18	260	10,140	42,385			11.0	29.00			33,930
6" IPS	6.625	7.0	5.17	208	8,112	41,939	18" IPS	18.0	9.0	26.50	25	975	40,922
		32.5	1.80	220	8,580	15,514			32.5	13.30			12,968
		26.0	2.23			19,220			26.0	16.47			16,058
		21.0	2.73			23,530			21.0	20.19			19,685
		17.0	3.34			28,787			17.0	24.64			24,024
11.5	4.71	221	8,619			40,595	11.0	36.69	35,773				
7" IPS	7.125	11.0	4.97	220	8,580	42,836	20" IPS	20.00	9.0	43.79	18	702	35,773
		9.0	5.93	182	7,098	42,091			32.5	16.41			11,520
		7.0	7.33	156	6,084	44,595			26.0	20.34			14,279
		32.5	2.08	170	6,630	13,790			21.0	24.93			17,501
		26.0	2.58			17,105			17.0	30.41			21,348
21.0	3.16	20,950	11.0			45.30	31,800						
17.0	3.86	169	6,591			25,441	9.0	54.05	37,943				
11.0	5.75	169	6,591			37,898	7.0	66.92	43,68				
8" IPS	8.625	9.0	6.86	156	6,084	41,736	22" IPS	22.00	32.5	19.86	16	624	12,393
		7.0	8.49	130	5,070	43,044			26.0	24.61			15,357
		32.5	3.05	112	4,368	13,322			21.0	30.18			18,832
		26.0	3.79			16,555			17.0	36.80			22,963
		21.0	4.64			20,267			11.0	54.82			34,208
17.0	5.65	114	4,446			25,119	9.0	65.40	40,810				
11.5	7.99	117	4,563			36,458	7.0	80.98	44,215				
10" IPS	10.750	11.0	8.42	114	4,446	37,435	24" IPS	24.00	32.5	23.62	12	468	11,054
		9.0	10.05	114	4,446	44,682			26.0	29.30			13,712
		7.0	12.43	90	3,510	43,629			21.0	35.91			16,806
		32.5	4.75	70	2,730	12,968			17.0	43.81			20,503
		26.0	5.87			13,911			11.0	65.24			30,352
21.0	7.21	19,683	9.0			77.85	36,434						
17.0	8.78	23,969	7.0			96.37	45,100						
11.0	13.09	35,735											

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**39' PIPE JOINTS - 26" – 54" IPS**
**39' FOOT JOINTS - 4" – 18" DIPS**

SIZE	OD	DR	#/ft	Joints	Feet	Weight lbs	SIZE	OD	DR	#/ft	Joints	Feet	Weight lbs
26" IPS	26.00	32.5	27.74	9	351	9,738	4" DIPS	4.800	26.0	1.17	377	14,703	16,609
		26.0	34.39			21.0			1.44	21,172			
		21.0	42.14			17.0			1.75	25,730			
		17.0	51.39			13.5			2.17	31,905			
		11.0	76.57			11.0			2.61	38,375			
		9.0	91.36			9.0			3.11	42,209			
28" IPS	28.00	32.5	32.19	9	351	11,299	6" DIPS	6.900	26.0	2.42	180	7,020	16,045
		26.0	39.88			21.0			2.97	20,845			
		21.0	48.86			17.0			3.62	25,412			
		17.0	59.62			13.5			4.48	31,450			
		11.0	88.78			11.0			5.39	37,838			
		9.0	105.95			9.0			6.44	40,186			
30" IPS	30.00	32.5	36.93	8	312	11,522	8" DIPS	9.050	26.0	4.17	108	4,212	15,938
		26.0	45.78			21.0			5.11	21,523			
		21.0	56.12			17.0			6.22	26,200			
		17.0	68.45			13.5			7.70	32,432			
		11.0	101.92			11.0			9.28	39,087			
		9.0	121.62			9.0			11.07	44,036			
32" IPS	32.00	32.5	42.04	8	312	13,116	10" DIPS	11.100	26.0	6.27	70	2,730	17,117
		26.0	52.10			21.0			7.69	20,993			
		21.0	63.84			17.0			9.37	25,580			
		17.0	77.86			13.5			11.59	31,641			
		11.0	115.97			11.0			13.95	38,083			
34" IPS*	34.00*						12" DIPS	13.200	26.0	8.87	40	1,560	13,837
						21.0			10.87	16,597			
						17.0			13.24	20,564			
						13.5			16.40	25,584			
						11.0			19.73	30,779			
36" IPS*	36.00*						14" DIPS	15.300	26.0	11.90	36	1,404	16,708
						21.0			14.60	20,498			
						17.0			17.80	24,991			
						13.5			22.02	30,916			
						11.0			26.51	37,220			
42" IPS*	42.00*						16" DIPS	17.400	26.0	15.39	25	975	15,005
						21.0			18.88	18,408			
						17.0			23.03	22,454			
						13.5			28.49	27,778			
						11.0			34.29	33,433			
48" IPS *	48.00*						18" DIPS	19.500	26.0	19.34	19	741	14,331
						21.0			23.71	17,569			
						17.0			28.91	21,422			
						13.5			35.77	26,506			
						11.0			43.07	31,945			
54" IPS*	54.00*								9.0	51.40			38,087

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**39' PIPE JOINTS - 20" – 48" \* DIPS**


**39' FOOT JOINTS – 63 MM – 1200 MM\* METRIC**

SIZE	OD	DR	#/ft	Joints	Feet	Weight lbs	SIZE	OD	DR	#/ft	Joints	Feet	Weight lbs
20" DIPS	21.600	26.0	23.74	16	624	14,814	63 MM	2.48	11.0	.688	1,584	61,776	42,501
		21.0	29.10			18,158	90 MM	3.543	11.0	1.412	690	26,910	37,997
		17.0	35.49			22,146	110 MM	4.331	11.0	2.109	464	18,096	38,164
		13.5	43.91			27,400	125 MM	4.921	11.0	2.708	348	13,572	36,753
		11.0	52.85			32,978	160 MM	6.299	11.0	4.461	234	9,126	40,711
		9.0	63.05			39,343	200 MM	7.874	11.0	6.934	132	5,148	35,696
24" DIPS	25.80	26.0	33.85	9	351	11,881	250 MM	9.843	11.0	10.835	90	3,510	38,031
		21.0	41.51			14,570	280 MM	11.024	11.0	13.78	70	2,730	37,620
		17.0	50.63			17,771	315 MM	12.402	11.0	17.44	56	2,184	38,089
		13.5	62.64			21,987	355 MM	13.976	11.0	22.146	40	1,560	34,548
		11.0	75.38			26,458	400 MM	14.748	11.0	24.660	30	1,170	28,852
		9.0	89.97			31,579	450 MM	17.717	11.0	35.588	25	975	34,968
30" DIPS	32.00	26.0	52.10	8	312	16,255	500 MM	19.685	11.0	43.934	20	780	34,269
		21.0	63.84			19,918	560 MM	22.047	11.0	55.110	16	624	34,388
		17.0	77.86			24,292	630 MM	24.803	11.0	69.749	12	468	32,643
		13.5	96.35			30,061	800 MM	31.496	11.0	112.471	7	273	30,704
		11.0	115.97			36,183	1000MM*	39.370*					
							1200MM*	47.244*					
36" DIPS*	38.30												
42" DIPS*	44.50*												
48" DIPS*	50.80*												

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If the plant preauthorizes containerization of telescoped product, the tables below show what size pipe can be inserted inside a larger size for container shipments. Multiple insertions can be made (12" inside 18", and 6" inside the 12") provided the load does not exceed the weight limits. (Weight limits on county, state, and federal roads are approximately 45,000 lbs)

**CONTAINER TELESCOPING SIZING CHART**

INTERIOR PIPE													
Size	OD	DR	ID	6 "	8 "	10 "	12 "	14 "	16 "	18 "	20 "	22 "	24 "
6"	6.625	7.3	4.7	No	No	No	No	No	No	No	No	No	No
6"	6.625	9	5.065	No	No	No	No	No	No	No	No	No	No
6"	6.625	11	5.349	No	No	No	No	No	No	No	No	No	No
6"	6.625	13.5	5.584	No	No	No	No	No	No	No	No	No	No
6"	6.625	17	5.798	No	No	No	No	No	No	No	No	No	No
6"	6.625	21	5.957	No	No	No	No	No	No	No	No	No	No
6"	6.625	26	6.084	No	No	No	No	No	No	No	No	No	No
8"	8.625	7.3	6.119	No	No	No	No	No	No	No	No	No	No
8"	8.625	9	6.594	No	No	No	No	No	No	No	No	No	No
8"	8.625	11	6.963	No	No	No	No	No	No	No	No	No	No
8"	8.625	13.5	7.25	No	No	No	No	No	No	No	No	No	No
8"	8.625	17	7.55	No	No	No	No	No	No	No	No	No	No
8"	8.625	21	7.754	No	No	No	No	No	No	No	No	No	No
8"	8.625	26	7.921	No	No	No	No	No	No	No	No	No	No
8"	8.625	32.5	8.063	No	No	No	No	No	No	No	No	No	No
10"	10.75	7.3	7.627	No	No	No	No	No	No	No	No	No	No
10"	10.75	9	8.219	Yes	No	No	No	No	No	No	No	No	No
10"	10.75	11	8.679	Yes	No	No	No	No	No	No	No	No	No
10"	10.75	13.5	9.062	Yes	No	No	No	No	No	No	No	No	No
10"	10.75	17	9.42	Yes	No	No	No	No	No	No	No	No	No
10"	10.75	21	9.665	Yes	No	No	No	No	No	No	No	No	No
10"	10.75	26	9.874	Yes	No	No	No	No	No	No	No	No	No
10"	10.75	32.5	10.048	Yes	No	No	No	No	No	No	No	No	No
12"	12.75	7.3	9.046	Yes	No	No	No	No	No	No	No	No	No
12"	12.75	9	9.746	Yes	No	No	No	No	No	No	No	No	No
12"	12.75	11	10.293	Yes	Yes	No	No	No	No	No	No	No	No
12"	12.75	13.5	10.749	Yes	Yes	No	No	No	No	No	No	No	No
12"	12.75	17	11.16	Yes	Yes	No	No	No	No	No	No	No	No
12"	12.75	21	11.463	Yes	Yes	No	No	No	No	No	No	No	No
12"	12.75	26	11.711	Yes	Yes	No	No	No	No	No	No	No	No
12"	12.75	32.5	11.919	Yes	Yes	No	No	No	No	No	No	No	No
14"	14	7.3	9.934	Yes	No	No	No	No	No	No	No	No	No
14"	14	9	10.701	Yes	Yes	No	No	No	No	No	No	No	No
14"	14	11	11.301	Yes	Yes	No	No	No	No	No	No	No	No
14"	14	13.5	11.802	Yes	Yes	No	No	No	No	No	No	No	No
14"	14	17	12.253	Yes	Yes	Yes	No	No	No	No	No	No	No
14"	14	21	12.586	Yes	Yes	Yes	No	No	No	No	No	No	No
14"	14	26	12.859	Yes	Yes	Yes	No	No	No	No	No	No	No
14"	14	32.5	13.086	Yes	Yes	Yes	No	No	No	No	No	No	No

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Size	OD	DR	ID	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
16"	16	7.3	11.353	Yes	Yes	No	No	No	No	No	No	No	No
16"	16	9	12.231	Yes	Yes	No	No	No	No	No	No	No	No
16"	16	11	12.915	Yes	Yes	Yes	No	No	No	No	No	No	No
16"	16	13.5	13.488	Yes	Yes	Yes	No	No	No	No	No	No	No
16"	16	17	14.005	Yes	Yes	Yes	No	No	No	No	No	No	No
16"	16	21	14.385	Yes	Yes	Yes	Yes	No	No	No	No	No	No
16"	16	26	14.696	Yes	Yes	Yes	Yes	No	No	No	No	No	No
16"	16	32.5	14.957	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Size	OD	DR	ID	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
18"	18	7.3	12.772	Yes	Yes	Yes	No	No	No	No	No	No	No
18"	18	9	13.76	Yes	Yes	Yes	No	No	No	No	No	No	No
18"	18	11	14.532	Yes	Yes	Yes	Yes	No	No	No	No	No	No
18"	18	13.5	15.174	Yes	Yes	Yes	Yes	No	No	No	No	No	No
18"	18	17	15.755	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
18"	18	21	16.183	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
18"	18	26	16.533	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
18"	18	32.5	16.826	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
Size	OD	DR	ID	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
20"	20	7.3	14.191	Yes	Yes	Yes	No	No	No	No	No	No	No
20"	20	9	15.289	Yes	Yes	Yes	Yes	No	No	No	No	No	No
20"	20	11	16.146	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
20"	20	13.5	16.86	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
20"	20	17	17.507	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
20"	20	21	17.982	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
20"	20	26	18.37	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
20"	20	32.5	18.696	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
Size	OD	DR	ID	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
22"	22	7.3	15.61	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
22"	22	9	16.819	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
22"	22	11	17.76	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
22"	22	13.5	18.544	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
22"	22	17	19.257	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
22"	22	21	19.778	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
22"	22	26	20.206	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
22"	22	32.5	20.565	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
Size	OD	DR	ID	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
24"	24	7.3	17.029	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No
24"	24	9	18.346	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
24"	24	11	19.374	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
24"	24	13.5	20.231	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
24"	24	17	21.007	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
24"	24	21	21.577	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
24"	24	26	22.043	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
24"	24	32.5	22.435	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
Size	OD	DR	ID	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
26"	26	7.3	18.449	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
26"	26	9	19.875	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
26"	26	11	20.988	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
26"	26	13.5	21.917	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
26"	26	17	22.759	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
26"	26	21	23.375	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
26"	26	26	23.880	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
26"	26	32.5	24.304	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Size	OD	DR	ID	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
28"	28	9	21.405	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No

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28"	28	11	22.605	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
28"	28	13.5	23.603	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
28"	28	17	24.508	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
28"	28	21	25.174	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
28"	28	26	25.717	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
28"	28	32.5	26.173	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
<b>Size</b>	<b>OD</b>	<b>DR</b>	<b>ID</b>	<b>10"</b>	<b>12"</b>	<b>14"</b>	<b>16"</b>	<b>18"</b>	<b>20"</b>	<b>22"</b>	<b>24"</b>	<b>26"</b>	<b>28"</b>
30"	30	9	22.934	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
30"	30	11	24.219	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
30"	30	13.5	25.289	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
30"	30	17	26.258	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
30"	30	21	26.971	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
30"	30	26	27.554	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
30"	30	32.5	28.043	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
<b>Size</b>	<b>OD</b>	<b>DR</b>	<b>ID</b>	<b>12"</b>	<b>14"</b>	<b>16"</b>	<b>18"</b>	<b>20"</b>	<b>22"</b>	<b>24"</b>	<b>26"</b>	<b>28"</b>	<b>30"</b>
32"	32	11	25.833	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
32"	32	13.5	26.976	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
32"	32	17	28.010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
32"	32	21	28.769	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
32"	32	26	29.390	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
32"	32	32.5	29.912	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
<b>Size</b>	<b>OD</b>	<b>DR</b>	<b>ID</b>	<b>12"</b>	<b>14"</b>	<b>16"</b>	<b>18"</b>	<b>20"</b>	<b>22"</b>	<b>24"</b>	<b>26"</b>	<b>28"</b>	<b>30"</b>
34"	34	11	27.447	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
34"	34	13.5	28.660	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
34"	34	17	29.760	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
34"	34	21	30.568	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
34"	34	26	31.227	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
34"	34	32.5	31.782	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
<b>Size</b>	<b>OD</b>	<b>DR</b>	<b>ID</b>	<b>16"</b>	<b>18"</b>	<b>20"</b>	<b>22"</b>	<b>24"</b>	<b>26"</b>	<b>28"</b>	<b>30"</b>	<b>32"</b>	<b>34"</b>
36"	36	17	31.510	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
36"	36	21	32.366	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
36"	36	26	33.064	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
36"	36	32.5	33.651	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
<b>Size</b>	<b>OD</b>	<b>DR</b>	<b>ID</b>	<b>18"</b>	<b>20"</b>	<b>22"</b>	<b>24"</b>	<b>26"</b>	<b>28"</b>	<b>30"</b>	<b>32"</b>	<b>34"</b>	<b>36"</b>
42"	42	13.5	35.405	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
42"	42	17	36.761	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
42"	42	21	37.760	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
42"	42	26	38.576	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
42"	42	32.5	39.261	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
42"	42	41.0	39.829	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Size</b>	<b>OD</b>	<b>DR</b>	<b>ID</b>	<b>20"</b>	<b>22"</b>	<b>24"</b>	<b>26"</b>	<b>28"</b>	<b>30"</b>	<b>32"</b>	<b>34"</b>	<b>36"</b>	<b>42"</b>
48"	48	17	42.013	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
48"	48	21	43.154	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
48"	48	26	44.086	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
48"	48	32.5	44.869	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
48"	48	41.0	45.517	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Size</b>	<b>OD</b>	<b>DR</b>	<b>ID</b>	<b>22"</b>	<b>24"</b>	<b>26"</b>	<b>28"</b>	<b>30"</b>	<b>32"</b>	<b>34"</b>	<b>36"</b>	<b>42"</b>	<b>48"</b>
54"	54	21	48.549	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
54"	54	26	49.597	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
54"	54	32.5	50.477	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
54"	54	41.0	51.208	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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