

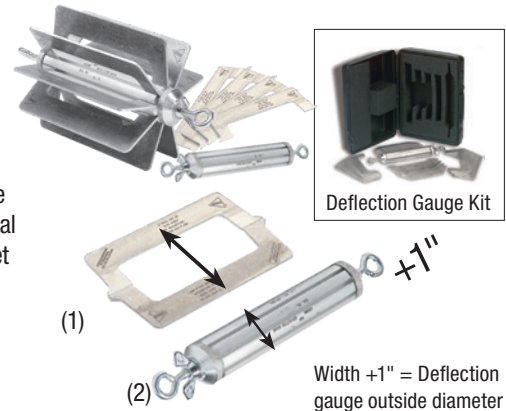
ALUMINUM DEFLECTION GAUGE KITS

Field Verification:

Cherne's Aluminum Fin Style Deflection Gauges are designed to be field verified by inspectors without the use of a proving ring. Simply place two fins end-to-end as pictured below (1) and measure the width. Add one inch to the mandrel (2) and you have the outside dimension of the gauge. Using this method simplifies the inspector's job of verifying sizes on deflection gauges.

Aluminum Fin Style Deflection Gauge Features:

- Lightweight, corrosion-resistant
- Field-verifiable without a proving ring
- Assembles without tools
- All sizes fit through standard 24" manhole
- Fins for 4"-15" gauges have skid size equal to the nominal pipe size—gauge will meet regional codes and will not tip in the line
- Nine-fin design ensures testing accuracy
- Open design allows gravel and debris pass-through



5% ALUMINUM FIN SET DEFLECTION GAUGE KITS (FIN SETS, CORE MANDREL AND CARRYING CASE)

KITS FOR SDR 26 PIPE PER ASTM D3034					
PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
285688	6" (152.40 mm)	5.764" (146.41 mm)	5.612" (142.54 mm)	5.33" (135.38 mm)	18 lbs.
	8" (203.20 mm)	7.715" (195.96 mm)	7.488" (190.20 mm)	7.11" (180.59 mm)	
	10" (254.00 mm)	9.644" (244.96 mm)	9.342" (237.29 mm)	8.87" (225.30 mm)	
285698	8" (203.20 mm)	7.715" (195.96 mm)	7.488" (190.20 mm)	7.11" (180.59 mm)	19 lbs.
	10" (254.00 mm)	9.644" (244.96 mm)	9.342" (237.29 mm)	8.87" (225.30 mm)	
	12" (304.80 mm)	11.480" (291.59 mm)	11.102" (281.99 mm)	10.55" (267.97 mm)	

KITS FOR SDR 35 PIPE PER ASTM D3034					
PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
285005	6" (152.40 mm)	5.893" (149.68 mm)	5.742" (145.85 mm)	5.46" (138.68 mm)	18 lbs.
	8" (203.20 mm)	7.891" (200.43 mm)	7.665" (194.69 mm)	7.28" (184.91 mm)	
	10" (254.00 mm)	9.864" (250.55 mm)	9.563" (242.90 mm)	9.09" (230.89 mm)	
285021	8" (203.20 mm)	7.891" (200.43 mm)	7.665" (194.69 mm)	7.28" (184.91 mm)	19 lbs.
	10" (254.00 mm)	9.864" (250.55 mm)	9.563" (242.90 mm)	9.09" (230.89 mm)	
	12" (304.80 mm)	11.737" (298.12 mm)	11.360" (288.54 mm)	10.79" (274.07 mm)	

7.5% ALUMINUM FIN SET DEFLECTION GAUGE KITS (FIN SETS, CORE MANDREL AND CARRYING CASE)

KITS FOR SDR 26 PIPE PER ASTM D3034					
PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
Custom Kit Consult Factory	6" (152.40 mm)	5.764" (146.41 mm)	5.612" (142.54 mm)	5.19" (131.80 mm)	18 lbs.
	8" (203.20 mm)	7.715" (195.96 mm)	7.488" (190.20 mm)	6.93" (176.00 mm)	
	10" (254.00 mm)	9.644" (244.96 mm)	9.342" (237.29 mm)	8.64" (219.50 mm)	
Custom Kit Consult Factory	8" (203.20 mm)	7.715" (195.96 mm)	7.488" (190.20 mm)	6.93" (176.00 mm)	19 lbs.
	10" (254.00 mm)	9.644" (244.96 mm)	9.342" (237.29 mm)	8.64" (219.50 mm)	
	12" (304.80 mm)	11.480" (291.59 mm)	11.102" (281.99 mm)	10.27" (260.90 mm)	

KITS FOR SDR 35 PIPE PER ASTM D3034					
PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
285013	6" (152.40 mm)	5.893" (149.68 mm)	5.742" (145.85 mm)	5.31" (134.90 mm)	18 lbs.
	8" (203.20 mm)	7.891" (200.43 mm)	7.665" (194.69 mm)	7.09" (180.10 mm)	
	10" (254.00 mm)	9.864" (250.55 mm)	9.563" (242.90 mm)	9.09" (230.89 mm)	
285048	8" (203.20 mm)	7.891" (200.43 mm)	7.665" (194.69 mm)	7.09" (180.10 mm)	19 lbs.
	10" (254.00 mm)	9.864" (250.55 mm)	9.563" (242.90 mm)	8.85" (224.80 mm)	
	12" (304.80 mm)	11.737" (298.12 mm)	11.360" (288.54 mm)	10.51" (267.00 mm)	

Base inside diameter (Base Pipe I.D.) allows for out of roundness and wall thickness tolerances as defined by ASTM standards.

ALUMINUM DEFLECTION GAUGE FIN SETS



5% DEFLECTION ALUMINUM FIN SETS

ALUMINUM FIN SETS FOR SDR-35 PIPE PER ASTM D3034 (4" – 15" DIA.)

PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
285056	4" (101.60 mm)	NA	NA	3.696" (93.88 mm)	1.5 lbs.
285072	6" (152.40 mm)	5.893" (149.68 mm)	5.742" (145.85 mm)	5.46" (138.68 mm)	2.0 lbs.
285080	8" (203.20 mm)	7.891" (200.43 mm)	7.665" (194.69 mm)	7.28" (184.91 mm)	2.5 lbs.
285099	10" (254.00 mm)	9.864" (250.55 mm)	9.563" (242.90 mm)	9.09" (230.89 mm)	3.0 lbs.
285102	12" (304.80 mm)	11.737" (298.12 mm)	11.360" (288.54 mm)	10.79" (274.07 mm)	4.0 lbs.
285110	15" (381.00 mm)	14.374" (365.10 mm)	13.897" (352.98 mm)	13.20" (335.28 mm)	5.0 lbs.

ALUMINUM FIN SETS FOR SDR-26 PIPE PER ASTM D3034 (4" – 15" DIA.)

PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
Custom	4" (101.60 mm)	NA	NA	Consult Factory	1.5 lbs.
285638	6" (152.40 mm)	5.764" (146.41 mm)	5.612" (142.54 mm)	5.33" (135.38 mm)	2.0 lbs.
285648	8" (203.20 mm)	7.715" (195.96 mm)	7.488" (190.20 mm)	7.11" (180.59 mm)	2.5 lbs.
285658	10" (254.00 mm)	9.644" (244.96 mm)	9.342" (237.29 mm)	8.87" (225.30 mm)	3.0 lbs.
285668	12" (304.80 mm)	11.480" (291.59 mm)	11.102" (281.99 mm)	10.55" (267.97 mm)	4.0 lbs.
285678	15" (381.00 mm)	14.053" (356.95 mm)	13.575" (344.81 mm)	12.90" (327.66 mm)	5.0 lbs.

ALUMINUM FIN SETS FOR PS 46 (SDR-35) PIPE PER ASTM F679 (18" – 48" DIA.)

PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
285536	18" (457.20 mm)	17.643" (448.13 mm)	17.054" (433.17 mm)	16.20" (411.48 mm)	8.0 lbs.
285544	21" (533.40 mm)	20.800" (528.32 mm)	20.098" (510.49 mm)	19.09" (484.89 mm)	10.0 lbs.
285552	24" (609.60 mm)	23.402" (594.41 mm)	22.586" (573.68 mm)	21.46" (545.08 mm)	11.0 lbs.
285595	27" (685.80 mm)	26.374" (669.90 mm)	25.446" (646.33 mm)	24.17" (613.92 mm)	12.0 lbs.
285748	30" CIOD (762.00 mm)	30.192" (766.88 mm)	29.151" (740.44 mm)	27.69" (703.33 mm)	13.0 lbs.
285758	36" CIOD (914.40 mm)	36.135" (917.83 mm)	34.869" (885.67 mm)	33.13" (841.50 mm)	15.0 lbs.
285768	42" CIOD (1066.80 mm)	41.984" (1066.39 mm)	40.491" (1028.47 mm)	38.47" (977.14 mm)	17.0 lbs.
285788	48" CIOD (1219.20 mm)	47.927" (1217.35 mm)	46.209" (1173.71 mm)	43.90" (1115.06 mm)	19.0 lbs.

ALUMINUM FIN SETS FOR PS 115 (SDR-26) PIPE PER ASTM F679 (18" – 48" DIA.)

PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
284688	18" (457.20 mm)	17.278" (438.86 mm)	16.688" (423.87 mm)	15.85" (402.59 mm)	8.0 lbs.
284698	21" (533.40 mm)	20.370" (517.40 mm)	19.666" (499.52 mm)	18.68" (474.47 mm)	10.0 lbs.
284708	24" (609.60 mm)	22.918" (582.12 mm)	22.102" (561.39 mm)	21.00" (533.40 mm)	11.0 lbs.
284718	27" (685.80 mm)	25.829" (656.06 mm)	24.899" (632.43 mm)	23.65" (600.71 mm)	12.0 lbs.
284728	30" CIOD (762.00 mm)	29.566" (750.97 mm)	28.523" (724.48 mm)	27.10" (688.34 mm)	13.0 lbs.
284738	36" CIOD (914.40 mm)	35.389" (898.88 mm)	34.120" (866.65 mm)	32.41" (823.21 mm)	15.0 lbs.
284748	42" CIOD (1066.80 mm)	41.116" (1044.35 mm)	39.621" (1006.37 mm)	37.64" (956.06 mm)	17.0 lbs.
284758	48" CIOD (1219.20 mm)	46.937" (1192.20 mm)	45.216" (1148.49 mm)	42.96" (1091.18 mm)	19.0 lbs.

ALUMINUM DEFLECTION GAUGE FIN SETS

7.5% DEFLECTION ALUMINUM FINS SETS

ALUMINUM FIN SETS FOR SDR-35 PIPE PER ASTM D3034 (4" – 15" DIA.)

PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
285137	4" (101.60 mm)	NA	NA	3.598" (91.39 mm)	1.5 lbs.
285153	6" (152.40 mm)	5.893" (149.68 mm)	5.742" (145.85 mm)	5.31" (134.90 mm)	2.0 lbs.
285161	8" (203.20 mm)	7.891" (200.43 mm)	7.665" (194.69 mm)	7.09" (180.10 mm)	2.5 lbs.
285188	10" (254.00 mm)	9.864" (250.55 mm)	9.563" (242.90 mm)	8.85" (224.80 mm)	3.0 lbs.
285196	12" (304.80 mm)	11.737" (298.12 mm)	11.360" (288.54 mm)	10.51" (267.00 mm)	4.0 lbs.
285218	15" (381.00 mm)	14.374" (365.10 mm)	13.897" (352.98 mm)	12.85" (326.40 mm)	5.0 lbs.

ALUMINUM FIN SETS FOR PS 46 (SDR-35) PIPE PER ASTM F679 (18" – 48" DIA.)

PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
285560	18" (457.20 mm)	17.643" (448.13 mm)	17.054" (433.17 mm)	15.77" (400.56 mm)	8.0 lbs.
285579	21" (533.40 mm)	20.800" (528.32 mm)	20.098" (510.49 mm)	18.59" (472.19 mm)	10.0 lbs.
285587	24" (609.60 mm)	23.402" (594.41 mm)	22.586" (573.68 mm)	20.89" (530.61 mm)	11.0 lbs.
285609	27" (685.80 mm)	26.374" (669.90 mm)	25.446" (646.33 mm)	23.53" (597.66 mm)	12.0 lbs.
285708	30" CIOD (762.00 mm)	30.192" (766.88 mm)	29.151" (740.44 mm)	26.96" (684.78 mm)	13.0 lbs.
285718	36" CIOD (914.40 mm)	36.135" (917.83 mm)	34.869" (885.67 mm)	32.25" (819.15 mm)	15.0 lbs.
285728	42" CIOD (1066.80 mm)	41.984" (1066.39 mm)	40.491" (1028.47 mm)	37.45" (951.23 mm)	17.0 lbs.
285738	48" CIOD (1219.20 mm)	47.927" (1217.35 mm)	46.209" (1173.71 mm)	42.74" (1085.60 mm)	19.0 lbs.

ALUMINUM FIN SETS FOR SDR-26 PIPE PER ASTM D3034 (4" – 15" DIA.)

PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
Custom	4" (101.60 mm)	Consult Factory	Consult Factory	Consult Factory	1.5 lbs.
017378	6" (152.40 mm)	5.764" (146.41 mm)	5.612" (142.54 mm)	5.19" (131.80 mm)	2.0 lbs.
284658	8" (203.20 mm)	7.715" (195.96 mm)	7.488" (190.20 mm)	6.93" (176.00 mm)	2.5 lbs.
284668	10" (254.00 mm)	9.644" (244.96 mm)	9.342" (237.29 mm)	8.64" (219.50 mm)	3.0 lbs.
284678	12" (304.80 mm)	11.480" (291.59 mm)	11.102" (281.99 mm)	10.27" (260.90 mm)	4.0 lbs.
285778	15" (381.00 mm)	14.053" (356.95 mm)	13.575" (344.81 mm)	12.56" (319.00 mm)	5.0 lbs.

ALUMINUM FIN SETS FOR PS 115 (SDR-26) PIPE PER ASTM F679 (18" – 48" DIA.)

PART NUMBER	NOMINAL SIZE	AVERAGE PIPE I.D.	BASE PIPE I.D.*	PIPE I.D. @ DEFL.	PRODUCT WT.
284768	18" (457.20 mm)	17.278" (438.86 mm)	16.688" (423.87 mm)	15.44" (392.18 mm)	8.0 lbs.
284778	21" (533.40 mm)	20.370" (517.40 mm)	19.666" (499.52 mm)	18.19" (462.03 mm)	10.0 lbs.
284788	24" (609.60 mm)	22.918" (582.12 mm)	22.102" (561.39 mm)	20.44" (519.18 mm)	11.0 lbs.
284798	27" (685.80 mm)	25.829" (656.06 mm)	24.899" (632.43 mm)	23.03" (584.96 mm)	12.0 lbs.
284808	30" CIOD (762.00 mm)	29.566" (750.97 mm)	28.523" (724.48 mm)	26.38" (670.05 mm)	13.0 lbs.
284818	36" CIOD (914.40 mm)	35.389" (898.88 mm)	34.120" (866.65 mm)	31.56" (801.62 mm)	15.0 lbs.
284828	42" CIOD (1066.80 mm)	41.116" (1044.35 mm)	39.621" (1006.37 mm)	36.65" (930.91 mm)	17.0 lbs.
284838	48" CIOD (1219.20 mm)	46.937" (1192.20 mm)	45.216" (1148.49 mm)	41.82" (1062.23 mm)	19.0 lbs.

PS 46 closely relates to SDR 35 and PS 115 closely relates to SDR 26
 *Base inside diameter (Base Pipe I.D.) allows for out of roundness and wall thickness tolerances as defined by ASTM standards.
 For sizing and pricing contact Customer Service at chernesupport@oatey.com or 800-321-9532.

CORE MANDRELS • PROVING RINGS



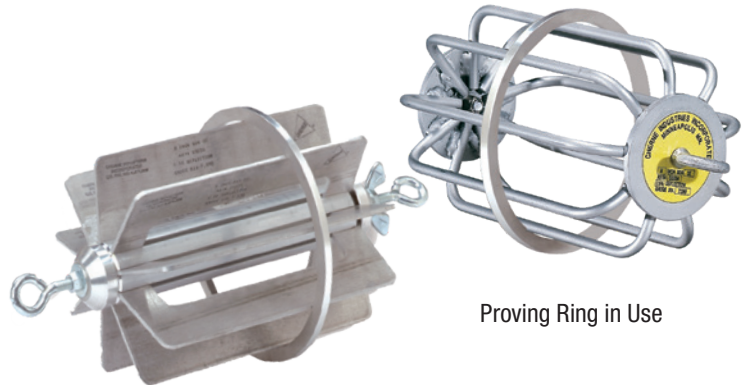
CORE MANDRELS FOR ALUMINUM FINNED DEFLECTION GAUGES



PART NUMBER	NOMINAL SIZE
285617	10" mandrel for 4" – 15" aluminum fin sets
285250	24" mandrel for 18" – 48" aluminum fin sets
285488	48" mandrel for 48" – 60" aluminum fin sets
030268	Deflection gauge case. Holds 10" mandrel, and three fin sets (6"–12" fin sets)

Proving Ring Features:

- Used to verify deflection gauge sizes
- Standard sizes: 6"–18" SDR 35 5% deflection and 8"–12" SDR 35 7.5% deflection



Proving Ring in Use

PROVING RINGS



For quick and easy size verification

PART NUMBER	NOMINAL SIZE	PIPE	DEFLECTION	PRODUCT WEIGHT
073199	6" (150 mm)	SDR 35	5%	4 oz (.11 kg)
073202	8" (200 mm)	SDR 35	5%	4 oz (.11 kg)
073253	8" (200 mm)	SDR 35	7.5%	4 oz (.11 kg)
073210	10" (250 mm)	SDR 35	5%	6 oz (.17 kg)
073261	10" (250 mm)	SDR 35	7.5%	6 oz (.17 kg)
073229	12" (300 mm)	SDR 35	5%	6 oz (.17 kg)
073288	12" (300 mm)	SDR 35	7.5%	6 oz (.17 kg)
073237	15" (380 mm)	SDR 35	5%	7 oz (.20 kg)
075868	18" (460 mm)	SDR 35	5%	7 oz (.20 kg)

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