

I-SERIES MUNI BALL® PLUGS



The future in pipe plugs is now.

Features:

- Industry leading quality, consistency, and durability
- Mechanical bonding of premium natural rubber and end plates eliminates failures from chemical bonding
- Improved performance and safety through optimized design
- Superior back pressure
- Premium performance and aesthetics
- Lightweight, short, and flexible

Cherne's I-Series Muni-Ball plugs were designed to meet the needs of both the US and International markets in terms of size and expansion range. Our I-Series plugs have full body cording for added durability.

I-Series plugs feature:

- Superior expansion range
- Small deflated diameters
 - All plugs up through our 24–60" size easily fit through a 24" manhole frame
 - 48–72" and 54–96" plugs fit through 36" openings
- Flexible bypass hoses – plugs can be bent to 90°

- Aluminum end plates – minimizes rust/corrosion
- 3/4" eyebolts on plugs 15–32" and larger – better holding strength
- Patented field replaceable pressure relief valves on plugs 15–32" and larger – protects plug from over-inflation

Protective sleeves available for 12"–18" diameter and larger plugs. See page 23.



I-SERIES MUNI BALL® PLUGS



Protective sleeves available for 12"-18" diameter and larger plugs.

PART NUMBER	NOMINAL SIZE	BYPASS DIAMETER (NPT)	USAGE RANGE	MAXIMUM BACK PRESSURE	INFLATION PRESSURE	PRODUCT WEIGHT	DEFLATED LENGTH
311088	4"-8" (100-200 mm)	1/2" M	3.95"-8.25" (92-210 mm)	15 psi (1 bar)	45 psi (3 bar)	4.7 lbs	23"
311128	6"-12" (150-300 mm)	1" M	5.5"-12.25" (140-310 mm)	15 psi (1 bar)	45 psi (3 bar)	9.5 lbs	25"
212128	8"-12" (200-300 mm)	2" M	7"-12.25" (178-311 mm)	15 psi (1 bar)	45 psi (3 bar)	12.3 lbs	18.5"
312168	8"-16" (200-400 mm)	2" M	7.5"-16.25" (186-413 mm)	15 psi (1 bar)	45 psi (3 bar)	15.9 lbs	28"
214188	12"-18" (300-450 mm)	3" M	10.75"-18.25" (273-464 mm)	15 psi (1 bar)	45 psi (3 bar)	28.1 lbs	25"
613188	12"-18" (300-450 mm) with sleeve	3" M	10.75"-18.25" (273-464 mm)	15 psi (1 bar)	45 psi (3 bar)	43 lbs	25"
312228	12"-24" (300-600 mm)	2" M	11"-24.25" (279-616 mm)	15 psi (1 bar)	45 psi (3 bar)	35.2 lbs	37"
312248	12"-24" (300-600 mm)	3" M	11"-24.25" (279-616 mm)	15 psi (1 bar)	45 psi (3 bar)	35.2 lbs	37"
654248	12"-24" (300-600 mm) with sleeve	3" M	11"-24.25" (279-616 mm)	15 psi (1 bar)	45 psi (3 bar)	50.2 lbs	37"

BACK PRESSURE DATA: I-SERIES PLUGS

PLUG SIZE	PIPE DIAMETER								
	4"	6"	8"	10"	12"	16"	18"	21"	24"
4"-8"	30.0 psi	23.0 psi	15.0 psi	-	-	-	-	-	-
6"-12"	-	26.0 psi	23.0 psi	22.0 psi	15.0 psi	-	-	-	-
8"-12"	-	-	26.0 psi	23.0 psi	15.0 psi	-	-	-	-
8"-16"	-	-	29.0 psi	27.0 psi	25.0 psi	15.0 psi	-	-	-
12"-18"	-	-	-	-	25.0 psi	22.0 psi	15.0 psi	-	-
12"-24"	-	-	-	-	27.0 psi	25.0 psi	22.0 psi	19.0 psi	15.0 psi

Consult page 69 for back pressure conversion to feet of head pressure.

I-SERIES MUNI BALL®

PLUGS CONTINUED

I-SERIES MUNI BALL® PLUGS

PART NUMBER	NOMINAL SIZE	BYPASS DIAMETER (NPT)	USAGE RANGE	MAX. BACK PRESSURE	INFLATION PRESSURE	PRODUCT WEIGHT	DEFLATED LENGTH	DEFLATED DIAMETER	INFLATION THREAD	CHAIN / EYE BOLTS
312338	15"–32" (375–800 mm)	2" M	15"–32" (375–800 mm)	**	25 psi (1.72 bar)	80 lbs (36.3 kg)	63" (1600 mm)	14.3" (363 mm)	1/4" & 1/2"	3/4" (2)
612338	15"–32" (375–800 mm) with sleeve	2" M	15"–32" (375–800 mm)	**	25 psi (1.72 bar)	137 lbs (62.1 kg)	63" (1600 mm)	14.3" (363 mm)	1/4" & 1/2"	3/4" (2)
314338	15"–32" (375–800 mm)	4" M	15"–32" (375–800 mm)	**	25 psi (1.72 bar)	80 lbs (36.3 kg)	63" (1600 mm)	14.3" (363 mm)	1/4" & 1/2"	3/4" (2)
614338	15"–32" (375–800 mm) with sleeve	4" M	15"–32" (375–800 mm)	**	25 psi (1.72 bar)	148 lbs (67.1 kg)	63" (1600 mm)	14.3" (363 mm)	1/4" & 1/2"	3/4" (2)
316328	15"–32" (375–800 mm)	6" M	15"–32" (375–800 mm)	**	25 psi (1.72 bar)	94 lbs (42.8 kg)	48" (1220 mm)	14.3" (363 mm)	1/4" & 1/2"	3/4" (2)
616328	15"–32" (375–800 mm) with sleeve	6" M	15"–32" (375–800 mm)	**	25 psi (1.72 bar)	161 lbs (70 kg)	48" (1220 mm)	14.3" (363 mm)	1/4" & 1/2"	3/4" (2)
314428	20"–40" (500–1000 mm)	4" M	20"–40" (508–1000 mm)	**	25 psi (1.72 bar)	120 lbs (54.4 kg)	70" (1778 mm)	19.5" (495.3 mm)	1/4" & 1/2"	1/2" (2)
614428	20"–40" (500–1000 mm) with sleeve	4" M	20"–40" (508–1000 mm)	**	25 psi (1.72 bar)	151 lbs (68.5 kg)	70" (1778 mm)	19.5" (495.3 mm)	1/4" & 1/2"	1/2" (2)
316428	20"–40" (500–1000 mm)	6" M	20"–40" (508–1000 mm)	**	25 psi (1.72 bar)	128 lbs (58.1 kg)	70" (1778 mm)	19.5" (495.3 mm)	1/4" & 1/2"	1/2" (2)
616428	20"–40" (500–1000 mm) with sleeve	6" M	20"–40" (508–1000 mm)	**	25 psi (1.72 bar)	164 lbs (74.4 kg)	70" (1778 mm)	19.5" (495.3 mm)	1/4" & 1/2"	1/2" (2)
314448	24"–48" (600–1200 mm)	4" M	20"–50" (510–1270 mm)	**	25 psi (1.72 bar)	125 lbs (56.7 kg)	84.5" (2146.3 mm)	20" (485 mm)	1/4" & 1/2"	3/4" (2)
614448	24"–48" (600–1200 mm) with sleeve	4" M	20"–50" (510–1270 mm)	**	25 psi (1.72 bar)	209 lbs (94.8 kg)	84.5" (2146.3 mm)	20" (485 mm)	1/4" & 1/2"	3/4" (2)
316448	24"–48" (600–1200 mm)	6" M	20"–50" (510–1270 mm)	**	25 psi (1.72 bar)	135 lbs (61.2 kg)	84.5" (2146.3 mm)	20" (485 mm)	1/2"	3/4" (2)
616448	24"–48" (600–1200 mm) with sleeve	6" M	20"–50" (510–1270 mm)	**	25 psi (1.72 bar)	203 lbs (92.1 kg)	84.5" (2146.3 mm)	20" (485 mm)	1/2"	3/4" (2)
314600	24"–60" (1400–1500 mm)	4" M	20.5"–60.5" (520–1537 mm)	**	22 psi (1.5 bar)	153 lbs (69.5 kg)	88" (2235 mm)	20" (485 mm)	1/4" & 1/2"	3/4" (2)
614608	24"–60" (1400–1500 mm) with sleeve	4" M	20.5"–60.5" (520–1537 mm)	**	22 psi (1.5 bar)	271 lbs (122.9 kg)	88" (2235 mm)	20" (485 mm)	1/4" & 1/2"	3/4" (2)
316600	24"–60" (600–1500 mm)	6" M	20.5"–60.5" (520–1537 mm)	**	22 psi (1.5 bar)	164 lbs (74.5 kg)	88" (2235 mm)	20" (485 mm)	1/4" & 1/2"	3/4" (2)
616608	24"–60" (600–1500 mm) with sleeve	6" M	20.5"–60.5" (520–1537 mm)	**	22 psi (1.5 bar)	303 lbs (137.4 kg)	88" (2235 mm)	20" (485 mm)	1/4" & 1/2"	3/4" (2)
314728	48"–72" (1200–1800 mm)	4" M	44"–72.25" (1118–1835 mm)	**	12 psi (0.83 bar)	310 lbs (141 kg)	93" (2632 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
614728	48"–72" (1200–1800 mm) with sleeve	4" M	44"–72.25" (1118–1835 mm)	**	12 psi (0.83 bar)	563 lbs (255.4 kg)	93" (2632 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
316728	48"–72" (1200–1800 mm)	6" M	44"–72.25" (1200–1835 mm)	**	12 psi (0.83 bar)	418 lbs (190 kg)	93" (2632 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
616728	48"–72" (1200–1800 mm) with sleeve	6" M	44"–72.25" (1200–1835 mm)	**	12 psi (0.83 bar)	983 lbs (446 kg)	93" (2632 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
318728	48"–72" (1200–1800 mm)	8" Flanged	44"–72.25" (1200–1835 mm)	**	12 psi (0.83 bar)	448 lbs (203.2 kg)	93" (2632 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
618728	48"–72" (1200–1800 mm) with sleeve	8" Flanged	44"–72.25" (1200–1835 mm)	**	12 psi (0.83 bar)	1,121 lbs (508.5 kg)	93" (2632 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
314968	54"–96" (1400–2400 mm)	4" M	54"–96.25" (1400–2450 mm)	**	11 psi (0.75 bar)	500 lbs (226.7 kg)	128" (3200 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
614968	54"–96" (1400–2400 mm) with sleeve	4" M	54"–96.25" (1400–2450 mm)	**	11 psi (0.75 bar)	752 lbs (341.1 kg)	128" (3200 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
316968	54"–96" (1400–2400 mm)	6" M	50"–96.25" (1270–2400 mm)	**	11 psi (0.75 bar)	480 lbs (218.2 kg)	132" (3353 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
616968	54"–96" (1400–2400 mm) with sleeve	6" M	50"–96.25" (1270–2400 mm)	**	11 psi (0.75 bar)	1,301 lbs (590.1 kg)	132" (3353 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
319968	54"–96" (1400–2400 mm)	8" Flanged	50"–96.25" (1270–2400 mm)	**	11 psi (0.75 bar)	506 lbs (230 kg)	132" (3353 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)
619968	54"–96" (1400–2400 mm) with sleeve	8" Flanged	50"–96.25" (1270–2400 mm)	**	11 psi (0.75 bar)	1,324 lbs (600.6 kg)	132" (3353 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)

** Consult back pressure table below.