

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 degrees

Plugs 15-32" and larger:

- Aluminum end plates – minimizes rust/corrosion
- 3/4" eyebolts on plugs 15-32" and larger – better holding strength
- Patented field replaceable rupture discs or 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"
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	MAXIMUM BACK PRESSURE	INFLATION PRESSURE	PRODUCT WEIGHT	DEFLATED LENGTH	DEFLATED DIAMETER	INFLATION THREAD	CHAIN / EYE BOLTS
312328	15"–32" (375–800 mm)	2" M	15"–32" (375–800 mm)	**	25 psi (1,72 bar)	73 lbs (33.2 kg)	48" (1220 mm)	14.3" (363 mm)	1/4" & 1/2"	3/4" (2)
314328	15"–32" (375–800 mm)	4" M	15"–32" (375–800 mm)	**	25 psi (1,72 bar)	80 lbs (36.4 kg)	48" (1220 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 (42.75 kg)	48" (1220 mm)	14.3" (363 mm)	1/4" & 1/2"	3/4" (2)
312418	20" – 40" (500–1000 mm)	2" M	20"–40" (508–1000 mm)	**	25 psi (1,72 bar)	105 lbs (47.6 kg)	53.5" (1359 mm)	19.5" (495.3 mm)	1/4" & 1/2"	1/2" (2)
314418	20" – 40" (500–1000 mm)	4" M	20"–40" (508–1000 mm)	**	25 psi (1,72 bar)	112 lbs (50.8 kg)	53.5" (1359 mm)	19.5" (495.3 mm)	1/4" & 1/2"	1/2" (2)
316418	20" – 40" (500–1000 mm)	6" M	20"–40" (508–1000 mm)	**	25 psi (1,72 bar)	123 lbs (55.79 kg)	53.5" (1359 mm)	19.5" (495.3 mm)	1/4" & 1/2"	1/2" (2)
314488	24" – 48" (600–1200 mm)	4" M	20"–50" (510–1270 mm)	**	22 psi (1,5 bar)	150 lbs (68 kg)	68" (1730 mm)	20" (485 mm)	1/4" & 1/2"	3/4" (2)
316488	24" – 48" (600–1200 mm)	6" M	20"–50" (510–1270 mm)	**	22 psi (1,5 bar)	153 lbs (69.5 kg)	68" (1730 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)
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)
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)
316728	48" – 72" (1200–1800 mm)	6" M	44" – 72.25" (1200 – 1835 mm)	**	12 psi (0,83 bar)	418 lbs (190.0 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 (203.6 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 (228 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)
319968	54" – 96" (1400–2400 mm)	8" Flanged	50" – 96.25" (1270 – 2400 mm)	**	11 psi (0,75 bar)	506 lbs (230.0 kg)	132" (3353 mm)	43" (1092 mm)	1/2" (2)	3/4" (3)

** Consult back pressure table below.

BACK PRESSURE DATA: I-SERIES PLUGS

PLUG SIZE	PIPE DIAMETER																		
	4"	6"	8"	12"	15"	18"	19.35"	21"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"
15"-32"	-	-	-	-	18.6 psi	17.6 psi	17.2 psi	16.6 psi	15.4 psi	12.2 psi	-	-	-	-	-	-	-	-	-
20"-40"	-	-	-	-	-	-	-	13.6 psi	12.5 psi	11.2 psi	10.2 psi	8.7 psi	-	-	-	-	-	-	-
24"-48"	-	-	-	-	-	-	-	-	15.2 psi	13.9 psi	12.8 psi	11.4 psi	10.1 psi	-	-	-	-	-	-
24"-60"	-	-	-	-	-	-	-	-	15.6 psi	15.2 psi	14.8 psi	14.0 psi	12.6 psi	9.6 psi	6.0 psi	-	-	-	-
40"-60"	-	-	-	-	-	-	-	-	-	-	-	15.0 psi	13.0 psi	11.0 psi	8.7 psi	-	-	-	-
48"-72"	-	-	-	-	-	-	-	-	-	-	-	-	7.2 psi	6.8 psi	6.4 psi	6.2 psi	6.0 psi	-	-
54"-96"	-	-	-	-	-	-	-	-	-	-	-	-	-	7.3 psi	7.2 psi	6.9 psi	6.8 psi	6.6 psi	6.4 psi

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