



FLEXIBLE BYPASS PACKER

DATA SHEET

Inflatable repair packer
with an integrated bypass
for sectional rehabilitation
under continuous flow.



**CONTINUOUS
FLOW BYPASS**



**MULTIPLE REPAIR
LENGTHS**



CUSTOMIZABLE



**UP TO 101.6
MM / 4 IN**

BYPASS
DIAMETER



**-20°C TO
+80°C**

OPERATING
TEMPERATURE



**100 MM TO
1000 MM**

PIPE I.D.
RANGE



**1.0 TO
2.5 BAR**

MAX. WORKING
PRESSURE



BUILT TO BEND. ENGINEERED TO REPAIR.

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FLEXIBLE BYPASS PACKER

CONTROLLED FLOW. RELIABLE SECTIONAL REPAIR.

The Plugline Flexible Bypass Packer is an inflatable device designed for trenchless sectional repair of sewer, drainage and pipeline systems while maintaining controlled flow through the repair section.

The packer carries a resin-impregnated repair sleeve to the damaged location. When inflated, it presses the repair material uniformly against the host-pipe wall while the integrated bypass provides a temporary passage for liquid flow.

Models are available for pipe internal diameters from 100 mm to 1000 mm, with different body lengths, pressure ratings and bypass configurations.



FEATURES

INTEGRATED BYPASS

Allows controlled pipeline flow to continue through the repair area during installation and curing.

MULTIPLE REPAIR LENGTHS

Available with contact lengths from approximately 1000 mm to 5000 mm.

EASY POSITIONING

Wheeled end assemblies support movement, alignment and retrieval inside larger pipelines.

VARIABLE CONTACT LENGTH

The effective contact length changes according to the expanded diameter and selected model.

REINFORCED FLEXIBLE BODY

The cylindrical rubber-textile construction provides uniform expansion and stable pressure against the repair sleeve.

SECTIONAL REPAIR.
RELIABLE REHABILITATION.

APPLICATIONS

- Sectional sewer and drainage repair
- Repair where pipeline flow must continue
- Cracked or leaking pipe joints
- Localized pipe-wall rehabilitation
- Municipal wastewater pipelines
- Industrial drainage systems
- Trenchless repair without excavation
- Extended repair sections

TECHNICAL SPECIFICATIONS

Nominal Pipe-Size Range	100–1000 mm
Maximum Working Pressure	1.0–2.5 bar / 14.50–36.25 psi
Operating Temperature	–20°C to +80°C
Contact Length Range	Approximately 1000–5000 mm
Product Diameter Range	60–555 mm
Bypass Diameter Range	50.8–101.6 mm / 2–4 in
Total Product Length	Approximately 1350–5350 mm
Construction	Reinforced flexible cylindrical inflatable body
Positioning System	Wheeled end assemblies, depending on model
Inflation Method	Regulated compressed-air supply
Customization	Available according to project requirements

PRODUCT RANGE

FLEXIBLE BYPASS PACKERS (1,0 BAR/14,50 PSI - 2,5 BAR/36,25 PSI)

Product Code	Nominal Size (mm)	Length of Rubber Part (mm/inch)	Contact Length at Min. Dia (mm/inch)	Contact Length at Max. Dia (mm/inch)	Max. Working Pressure (bar/psi)	Product Diameter (mm/inch)	Total Length of Product (mm/inch)	Bypass Diameter (mm/inch)	Product Weight (kg/lbs)
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NOMINAL SIZE 100-150

FBP100150/1000	100-150	1000mm/39,37"	850mm/33,46"	830mm/32,68"	2,5bar/36,25psi	60mm/2,36"	1350mm/53,15"	NA	1,7kg/3,75lbs
FBP100150/1500	100-150	1500mm/59,06"	1350mm/53,15"	1330mm/52,36"	2,5bar/36,25psi	60mm/2,36"	1850mm/72,83"	NA	3,7kg/8,16lbs
FBP100150/2000	100-150	2000mm/78,74"	1850mm/72,83"	1830mm/72,05"	2,5bar/36,25psi	60mm/2,36"	2350mm/92,52"	NA	4,5kg/9,92lbs
FBP100150/2500	100-150	2500mm/98,43"	2350mm/92,52"	2330mm/91,73"	2,5bar/36,25psi	60mm/2,36"	2850mm/112,2"	NA	5,1kg/11,24lbs
FBP100150/3000	100-150	3000mm/118,11"	2850mm/112,2"	2830mm/111,42"	2,5bar/36,25psi	60mm/2,36"	3350mm/131,89"	NA	5,8kg/12,79lbs
FBP100150/4000	100-150	4000mm/157,48"	3850mm/151,57"	3830mm/150,79"	2,5bar/36,25psi	60mm/2,36"	4350mm/171,26"	NA	7,4kg/16,31lbs
FBP100150/5000	100-150	5000mm/196,85"	4850mm/190,94"	4830mm/190,16"	2,5bar/36,25psi	60mm/2,36"	5350mm/210,63"	NA	9,2kg/20,28lbs

NOMINAL SIZE 150-250

FBP150250/1000	150-250	1000mm/39,37"	900mm/35,43"	775mm/30,51"	2,0bar/29,00psi	116mm/4,57"	1350mm/53,15"	50,8mm/2"	7,5kg/16,53lbs
FBP150250/1500	150-250	1500mm/59,06"	1400mm/55,12"	1275mm/50,2"	2,0bar/29,00psi	116mm/4,57"	1850mm/72,83"	50,8mm/2"	10,2kg/22,49lbs
FBP150250/2000	150-250	2000mm/78,74"	1900mm/74,8"	1775mm/69,88"	2,0bar/29,00psi	116mm/4,57"	2350mm/92,52"	50,8mm/2"	13kg/28,66lbs
FBP150250/2500	150-250	2500mm/98,43"	2400mm/94,49"	2275mm/89,57"	2,0bar/29,00psi	116mm/4,57"	2850mm/112,2"	50,8mm/2"	15,5kg/34,17lbs
FBP150250/3000	150-250	3000mm/118,11"	2900mm/114,17"	2775mm/109,25"	2,0bar/29,00psi	116mm/4,57"	3350mm/131,89"	50,8mm/2"	18kg/39,68lbs
FBP150250/4000	150-250	4000mm/157,48"	3900mm/153,54"	3775mm/148,62"	2,0bar/29,00psi	116mm/4,57"	4350mm/171,26"	50,8mm/2"	23,5kg/51,81lbs
FBP150250/5000	150-250	5000mm/196,85"	4900mm/192,91"	4775mm/187,99"	2,0bar/29,00psi	116mm/4,57"	5350mm/210,63"	50,8mm/2"	29kg/63,93lbs

NOMINAL SIZE 200-300

FBP200300/1000	200-300	1000mm/39,37"	850mm/33,46"	720mm/28,35"	2,0bar/29,00psi	150mm/5,91"	1350mm/53,15"	50,8mm/2"	12,5kg/27,56lbs
FBP200300/1500	200-300	1500mm/59,06"	1350mm/53,15"	1220mm/48,03"	2,0bar/29,00psi	150mm/5,91"	1850mm/72,83"	50,8mm/2"	17,5kg/38,58lbs
FBP200300/2000	200-300	2000mm/78,74"	1850mm/72,83"	1720mm/67,72"	2,0bar/29,00psi	150mm/5,91"	2350mm/92,52"	50,8mm/2"	22kg/48,51lbs
FBP200300/4000	200-300	3000mm/118,11"	2850mm/112,2"	2720mm/107,09"	2,0bar/29,00psi	150mm/5,91"	3350mm/131,89"	50,8mm/2"	25,5kg/56,22lbs
FBP200300/5000	200-300	4000mm/157,48"	3850mm/151,57"	3720mm/146,46"	2,0bar/29,00psi	150mm/5,91"	4350mm/171,26"	50,8mm/2"	29,5kg/65,04lbs

NOMINAL SIZE 300-400

FBP300400/1000	300-400	1000mm/39,37"	800mm/31,5"	700mm/27,56"	1,5bar/21,75psi	231mm/9,09"	1350mm/53,15"	76,2mm/3" or 101,6mm/4"	15,6kg/34,39lbs
FBP300400/1500	300-400	1500mm/59,06"	1300mm/51,18"	1200mm/47,24"	1,5bar/21,75psi	231mm/9,09"	1850mm/72,83"	76,2mm/3" or 101,6mm/4"	19,5kg/42,99lbs
FBP300400/2000	300-400	2000mm/78,74"	1800mm/70,87"	1700mm/66,93"	1,5bar/21,75psi	231mm/9,09"	2350mm/92,52"	76,2mm/3" or 101,6mm/4"	23kg/50,71lbs
FBP300400/3000	300-400	3000mm/118,11"	2800mm/110,24"	2700mm/106,3"	1,5bar/21,75psi	231mm/9,09"	3350mm/131,89"	76,2mm/3" or 101,6mm/4"	30,5kg/67,24lbs

NOMINAL SIZE 400-600

FBP400600/1000	400-600	1000mm/39,37"	800mm/31,5"	700mm/27,56"	1,0bar/14,50psi	345mm/13,58"	1350mm/53,15"	76,2mm/3" or 101,6mm/4"	24,5kg/54,01lbs
FBP400600/1500	400-600	1500mm/59,06"	1300mm/51,18"	1200mm/47,24"	1,0bar/14,50psi	345mm/13,58"	1850mm/72,83"	76,2mm/3" or 101,6mm/4"	31kg/68,34lbs
FBP400600/2000	400-600	2000mm/78,74"	1800mm/70,87"	1700mm/66,93"	1,0bar/14,50psi	345mm/13,58"	2350mm/92,52"	76,2mm/3" or 101,6mm/4"	35,5kg/78,26lbs
FBP400600/3000	400-600	3000mm/118,11"	2800mm/110,24"	2700mm/106,3"	1,0bar/14,50psi	345mm/13,58"	3350mm/131,89"	76,2mm/3" or 101,6mm/4"	45kg/99,21lbs
FBP400600/4000	400-600	4000mm/157,48"	3800mm/149,61"	3700mm/145,67"	1,0bar/14,50psi	345mm/13,58"	4350mm/171,26"	76,2mm/3" or 101,6mm/4"	58,5kg/128,97lbs
FBP400600/5000	400-600	5000mm/196,85"	4800mm/188,98"	4700mm/185,04"	1,0bar/14,50psi	345mm/13,58"	5350mm/210,63"	76,2mm/3" or 101,6mm/4"	71kg/156,53lbs

NOMINAL SIZE 600-800

FBP600800/1000	600-800	1000mm/39,37"	750mm/29,53"	700mm/27,56"	1,0bar/14,50psi	444mm/17,48"	1350mm/53,15"	76,2mm/3" or 101,6mm/4"	21kg/46,3lbs
FBP600800/1500	600-800	1500mm/59,06"	1250mm/49,21"	1200mm/47,24"	1,0bar/14,50psi	444mm/17,48"	1850mm/72,83"	76,2mm/3" or 101,6mm/4"	29,5kg/65,04lbs
FBP600800/2000	600-800	2000mm/78,74"	1850mm/72,83"	1700mm/66,93"	1,0bar/14,50psi	444mm/17,48"	2350mm/92,52"	76,2mm/3" or 101,6mm/4"	38kg/83,78lbs
FBP600800/3000	600-800	3000mm/118,11"	2850mm/112,2"	2700mm/106,3"	1,0bar/14,50psi	444mm/17,48"	3350mm/131,89"	76,2mm/3" or 101,6mm/4"	46kg/101,41lbs
FBP600800/4000	600-800	4000mm/157,48"	3850mm/151,57"	3700mm/145,67"	1,0bar/14,50psi	444mm/17,48"	4350mm/171,26"	76,2mm/3" or 101,6mm/4"	55,5kg/122,36lbs
FBP600800/5000	600-800	5000mm/196,85"	4850mm/190,94"	4700mm/185,04"	1,0bar/14,50psi	444mm/17,48"	5350mm/210,63"	76,2mm/3" or 101,6mm/4"	65,2kg/143,74lbs

NOMINAL SIZE 800-1000

FBP8001000/1500	800-1000	1500mm/59,06"	1100mm/43,31"	650mm/25,59"	1,0bar/14,50psi	555mm/21,85"	1650mm/64,96"	101,6mm/4"	36kg/79,37lbs
FBP8001000/2000	800-1000	2000mm/78,74"	1600mm/62,99"	1200mm/47,24"	1,0bar/14,50psi	555mm/21,85"	2150mm/84,65"	101,6mm/4"	48kg/105,82lbs

*Other sizes and custom pressure ratings available upon request.

