

# Lansas<sup>®</sup> PRODUCTS

Manufactured by Vanderlans & Sons, Inc.

## MULTI-SIZE DOMEHEAD<sup>™</sup> PLUGS

Patent # 5,785,090

Patent # 5,379,802

Patent # 4,079,755



Part No.  
051-2448



Part No.  
050-812



Part No.  
051-812

**The Lansas Domehead<sup>™</sup>** is the most durable multi-size pipe plug available. The unique design of this plug is covered under two U.S. patents. The first patent relates to the 2-ply of cross biased tire cord reinforcement (more on larger sizes). This design allows for controlled expansion of the plug. As this plug inflates it gets larger in diameter and shorter in length. By changing the shape of the plug rather than stretching the rubber we are able to make contact in the pipe at a lower pressure. This gives us higher contact pressure per square inch at an overall lower inflation pressure. Contact area and pressure are everything.

The second patent covers our superior end design. The ends are reinforced with a steel "spider<sup>™</sup>" ring wrapped in fabric. The fabric extends from the spider<sup>™</sup> into the body of the plug. This advanced design transfers the stress of the inflation through the fabric to the steel spider<sup>™</sup> ring leaving the bond at the base plate at a more relaxed state.

The 050 series Domehead<sup>™</sup> Back Plugs are designed and equipped with lifting eye(s) on both ends and 1/4" inflation port (larger sizes have an additional 1/2" inflation port). The 051 series Domehead<sup>™</sup> Front is equipped like the Back plug, however, it also includes 1/4" + 3/4" test thru port for air and pressure monitoring.

### ⚠ WARNING

BLOCK PLUGS TO PREVENT MOVING!  
Safety Instructions are sent with each new plug or they can be downloaded from the Lansas website at [www.lansas.com](http://www.lansas.com).

**Custom Designs Are Always<sup>™</sup> Available**

**MULTI-SIZE DOMEHEAD™ BACK (BLOCKING) AND FRONT (AIR TESTING)  
FOR STOPPING PIPELINE FLOW, AIR TESTING AND PRESSURE MONITORING**

PART NUMBER 050 SERIES BACK PLUG	PART NUMBER 051 SERIES FRONT PLUG	NOMINAL PIPE SIZE	RANGE OF USE		REQUIRED INFLATION PRESSURE	MAXIMUM BACK/TEST PRESSURE	BY-PASS SIZES on 051 UNITS ONLY		PRODUCT DIMENSIONS			
			MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER					LENGTH	DEFLATED DIAMETER	WEIGHT 050 SERIES BACK PLUG	WEIGHT 051 SERIES FRONT PLUG
050-46*	051-46	4.0" - 6.0" (102-152 mm)	3.5" (89 mm)	6.25" (159 mm)	30 psi (2.1 Bar)	15 psi (1.03 Bar)	1/4"	1/4"	9.5" (241 mm)	3.5" (89 mm)	1.0 lbs. (0.45 kg)	2.0 lbs. (0.91 kg)
050-610*	051-610	6.0" - 10.0" (152-254 mm)	5.25" (133 mm)	10.25" (260 mm)	30 psi (2.1 Bar)	15 psi (1.03 Bar)	1/2"	1/4"	19.7" (500 mm)	5.25" (133 mm)	4.0 lbs. (1.81 kg)	6.6 lbs. (2.99 kg)
050-812*	051-812	8.0" - 12.0" (203-305 mm)	7.25" (184 mm)	12.25" (311 mm)	25 psi (1.7 Bar)	15 psi (1.03 Bar)	3/4"	1/4"	20.0" (508 mm)	6.25" (159 mm)	8.0 lbs. (3.63 kg)	9.6 lbs. (4.35 kg)
050-1016	051-1016	10.0" - 16.0" (254-406 mm)	9.5" (241 mm)	16.25" (413 mm)	25 psi (1.7 Bar)	15 psi (1.03 Bar)	3/4"	1/4"	27.5" (699 mm)	9.30" (236 mm)	19.0 lbs. (8.62 kg)	20.0 lbs. (9.07 kg)
050-1218	051-1218	12.0" - 18.0" (305-457 mm)	11.5" (292 mm)	18.25" (464 mm)	25 psi (1.7 Bar)	15 psi (1.03 Bar)	3/4"	1/4"	28.5" (724 mm)	11.0" (279 mm)	29.0 lbs. (13.15 kg)	30.0 lbs. (13.61 kg)
050-1224	051-1224	12.0" - 24.0" (305-610 mm)	11.5" (292 mm)	24.25" (616 mm)	25 psi (1.7 Bar)	15 psi (1.03 Bar)	3/4"	1/4"	41.0" (1041 mm)	11.0" (279 mm)	33.0 lbs. (14.97 kg)	34.5 lbs. (15.65 kg)
050-1530	051-1530	15.0" - 30.0" (381-762 mm)	14.0" (356 mm)	30.25" (768 mm)	20 psi (1.38 Bar)	8 psi (0.55 Bar)	3/4"	1/4"	55.0" (1397 mm)	13.0" (330 mm)	48.0 lbs. (21.77 kg)	50.0 lbs. (22.68 kg)
050-1530RP	051-1530RP	15.0" - 30.0" (381-762 mm)	14.0" (356 mm)	30.25" (768 mm)	20 psi (1.38 Bar)	8 psi (0.55 Bar)	3/4"	1/4"	55.0" (1397 mm)	13.0" (330 mm)	50.0 lbs. (22.68 kg)	52.0 lbs. (23.59 kg)
050-2036	051-2036	20.0" - 36.0" (508-914 mm)	19.0" (483 mm)	36.25" (921 mm)	20 psi (1.38 Bar)	8 psi (0.55 Bar)	3/4"	1/4"	64.0" (1626 mm)	18.5" (470 mm)	71.0 lbs. (32.21 kg)	73.5 lbs. (33.34 kg)
050-2036RP	051-2036RP	20.0" - 36.0" (508-914 mm)	19.0" (483 mm)	36.25" (921 mm)	20 psi (1.38 Bar)	8 psi (0.55 Bar)	3/4"	1/4"	64.0" (1626 mm)	18.5" (470 mm)	73.0 lbs. (33.11 kg)	75.5 lbs. (34.25 kg)
050-2448	051-2448	24.0" - 48.0" (610-1219 mm)	22.0" (559 mm)	48.25" (1226 mm)	15 psi (1.03 Bar)	8 psi (0.55 Bar)	3/4"	1/4"	84.0" (2134 mm)	21.5" (546 mm)	102.0 lbs. (46.27 kg)	105.0 lbs. (47.63 kg)
050-2448RP	051-2448RP	24.0" - 48.0" (610-1219 mm)	22.0" (559 mm)	48.25" (1226 mm)	15 psi (1.03 Bar)	8 psi (0.55 Bar)	3/4"	1/4"	84.0" (2134 mm)	21.5" (546 mm)	104.0 lbs. (47.17 kg)	107.0 lbs. (48.53 kg)
050-3660	051-3660	36.0" - 60.0" (914-1524 mm)	34.5" (876 mm)	60.25" (1530 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	84.0" (2134 mm)	29.5" (749 mm)	187.0 lbs. (84.82 kg)	190.0 lbs. (86.18 kg)
050-3660RP	051-3660RP	36.0" - 60.0" (914-1524 mm)	34.5" (876 mm)	60.25" (1530 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	84.0" (2134 mm)	29.5" (749 mm)	189.0 lbs. (85.73 kg)	192.0 lbs. (87.09 kg)
050-4278	051-4278	42.0" - 78.0" (1067-1981 mm)	37.0" (940 mm)	78.25" (1988 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	101.0" (2565 mm)	35.0" (889 mm)	314.0 lbs. (142.43 kg)	318.0 lbs. (144.24 kg)
050-4278RP	051-4278RP	42.0" - 78.0" (1067-1981 mm)	37.0" (940 mm)	78.25" (1988 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	101.0" (2565 mm)	35.0" (889 mm)	316.0 lbs. (143.34 kg)	320.0 lbs. (145.15 kg)
050-4872	051-4872	48.0" - 72.0" (1219-1829 mm)	46.0" (1168 mm)	72.25" (1835 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	84.0" (2134 mm)	43.5" (1105 mm)	331.0 lbs. (150.14 kg)	335.0 lbs. (151.95 kg)
050-4872RP	051-4872RP	48.0" - 72.0" (1219-1829 mm)	46.0" (1168 mm)	72.25" (1835 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	84.0" (2134 mm)	43.5" (1105 mm)	333.0 lbs. (151.05 kg)	337.0 lbs. (152.86 kg)
050-5496	051-5496	54.0" - 96.0" (1372-2438 mm)	53.0" (1346 mm)	96.25" (2445 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	114.0" (2845 mm)	51.0" (1295 mm)	496.0 lbs. (224.98 kg)	501.0 lbs. (227.25 kg)
050-5496RP	051-5496RP	54.0" - 96.0" (1372-2438 mm)	53.0" (1346 mm)	96.25" (2445 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	114.0" (2845 mm)	51.0" (1295 mm)	498.0 lbs. (225.89 kg)	503.0 lbs. (228.16 kg)
050-6096	051-6096	60.0" - 96.0" (1524-2438 mm)	58.0" (1473 mm)	96.25" (2445 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	110.0" (2794 mm)	56.0" (1422 mm)	515.0 lbs. (233.60 kg)	520.0 lbs. (235.87 kg)
050-6096RP	051-6096RP	60.0" - 96.0" (1524-2438 mm)	58.0" (1473 mm)	96.25" (2445 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	3/4"	1/4"	110.0" (2794 mm)	56.0" (1422 mm)	517.0 lbs. (234.51 kg)	522.0 lbs. (236.78 kg)

050 series Back plugs do not have by-passes / 051 Series Front plugs have 2 by-pass hoses

1530 plugs and larger have 2 inflation ports

RP indicates the plug has Lansas Rupture Protection.

\*Indicates plug has rigid aluminum by-pass



**050-2448**

**Part No. 051-2448  
with 069-2448 Protective Sleeve Installed**

The quality construction of the Lansas Domehead™ makes it the most durable and flexible plug available. WHY BEND WHEN YOU CAN ROLL. The dimensions of the shipping container for the 050-2448 shown is 36" x 30" x 16" and weighs 104 lbs.

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**SEE PAGES 33-34 FOR ACCESSORIES.**