

PRODUCTS



Manufactured by Vanderlans & Sons, Inc.

PRODUCT CATALOG

2017



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IMPROVED DESIGN CHANGES



- LANSAS NIGHT CAP PLUGS (Non-Pressure Plug) catalog page 16
- NEW LOW PROFILE DESIGN ON LANSAS HIGH PRESSURE TEST PLUGS catalog page 12
- CUSTOM MECHANICAL PLUGS
- LANSAS IS EXPANDING THE SST SINGLE-SIZE TEST PLUG LINE (More sizes available)-catalog page 9

Products are "Better By Design" Since 1955!

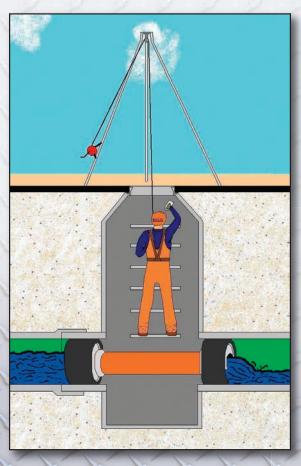
SMART-BOX ™ SUPER-FLOW ™BY-PASS KIT

THE NEW LANSAS SMART-BOX™ SUPER-FLOW™ BY-PASS KIT

Each complete kit contains the following:

- (2) Multi-Size SUPER-FLOW™ Plugs
- (2) 30 ft. Standard Inflation Kits with Gauge (Part No. 321-30)
- (1) 5 ft. By-Pass Hose
- (1) High Pressure Hand Pump (Part No. 310-00)
- Black Plastic Storage Container

(Please note that other plug sizes and by-pass hose lengths are available upon request, but may not fit into the supplied storage container)





FOLLOW ALL REGULATIONS FOR CONFINED SPACE ENTRY

AWARNING

RUPTURE PROTECTED BACK AND FRONT PLUGS

LANSAS RUPTURE PROTECTED PLUGS have a built in air relief valve that will prevent the plug from being over inflated due to faulty gauges or operator error. Once the valves cracking pressure is reached the Lansas RP Valve will open relieving the excess pressure. The RP Valve will reset at, or just below the required inflation pressure for the plug.

RP™ RUPTURE PROTECTED PLUG Features:

- No more catastrophic failures
- Eliminate operator error
- No broken discs to be replaced
- Plug stays in service
- Valve is recessed to prevent damage
- RP

 valves now available on most Multi Size Plugs manufactured by Lansas Products
- Don't be sold by cheap imitations of the original
- Another original design by Lansas Products



PROTECTIVE SLEEVES

EXTEND THE LIFE OF YOUR PLUGS!

THE LANSAS PROTECTIVE

while being moved around the jobsite, but offers further protection by remaining on the plug while inflated in the pipeline. These sleeves help eliminate damage from pipeline debris, degraded pipe, barnacles, and more. Lansas Protective Sleeves can easily be repaired at the factory.



PROTECTIVE SLEEVES							
PART NUMBER	FITS PLUGS WITH NOTED PART NUMBERS	WEIGHT					
069-610	050-610, 051-610	2.5 lbs.					
069-610FT	093-610	(1.13 kg) 2.5 lbs.					
003-01011	055-010	(1.13 kg)					
069-812	050-812, 051-812	3.0 lbs. (1.36 kg)					
069-812FT	092-812, 093-812, 094-812	3.0 lbs.					
050 1015	050 1015 051 1015	(1.36 kg) 6.0 lbs.					
069-1016	050-1016, 051-1016	(2.72 kg)					
069-1016 FT	094-1016, 096-1016, 096-812	6.0 lbs.					
		(2.72 kg) 10.0 lbs.					
069-1218	050-1218, 051-1218	(4.54 kg)					
069-1218FT	094-1218, 096-1218, 098-1218	10.0 lbs.					
		(4.54 kg) 14.0 lbs.					
069-1224	050-1224, 051-1224	(6.35 kg)					
069-1224FT	094-1221, 096-1224, 098-1224	14.0 lbs.					
003 122 11 1	03 1221, 030 122	(6.35 kg)					
069-1530	050-1530, 051-1530, 094-1530	21.0 lbs. (9.53 kg)					
069-1530FT	094-1530H, 096-1530, 098-1530	21.0 lbs.					
069-1530F1	094-1530H, 096-1530, 098-1530	(9.53 kg)					
069-2036	050-2036, 051-2036, 094-2036	28.0 lbs.					
		(12.70 kg) 28.0 lbs.					
069-2036FT	094-2036Н, 096-2036, 098-2036	(12.70 kg)					
069-2448	050-2448, 051-2448, 094-2448, 096-2448, 098-2448	53.0 lbs.					
003-2448	030-2448, 031-2448, 034-2448, 030-2448, 036-2448	(24.04 kg)					
069-3660	050-3660, 051-3660, 094-3660, 096-3660, 098-3660	78.0 lbs.					
		(35.38 kg) 93.0 lbs.					
069-4278	050-4278, 051-4278, 094-4278, 096-4278, 098-4278	(42.18 kg)					
069-4872	050-4872, 051-4872, 094-4872, 096-4872, 098-4872	89.0 lbs.					
		(40.37 kg) 166.0 lbs.					
069-6096	050-6096, 051-6096, 094-6096, 096-6096, 098-6096	(75.30 kg)					
		(/J.JU NE/					

FT Sleeves for Flow-Thru™ Plugs Custom Sleeves Available



MULTI-SIZE DOMEHEAD™ PLUGS

Patent # 5,785,090
Patent # 5,379,802
Patent # 4,079,755



The Lansas Domehead™ 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™" ring wrapped in fabric. The fabric extends from the spider™ into the body of the plug. This advanced design transfers the stress of the inflation through the fabric to the steel spider™ ring leaving the bond at the base plate at a more relaxed state.

The 050 series Domehead™ Back Plugs are designed and equipped with lifting eye(s) on both ends and ¼" inflation port (larger sizes have an additional ½" inflation port). The 051 series Domehead™ Front is equipped like the Back plug, however, it also includes ¼"+ ¾" test thru port for air and pressure monitoring.

Custom Designs Are Always™ Available



	MULTI-SIZE DOMEHEAD™ BACK (BLOCKING) AND FRONT (AIR TESTING)											
	FOR STOPPING PIPELINE FLOW, AIR TESTING AND PRESSURE MONITORING											
PART	PART		RANGE	OF USE	REQUIRED	MAXIMUM	DV DAG	S SIZES		PRODUCT D	IMENSIONS	
NUMBER	NUMBER	NOMINAL	MINIMUM	MAXIMUM	INFLATION	BACK/TEST		UNITS		DEFLATED	WEIGHT	WEIGHT
050 SERIES	051 SERIES	PIPE SIZE	PIPE	PIPE	PRESSURE	PRESSURE		NLY	LENGTH	DIAMETER	050 SERIES	051 SERIES
BACK PLUG	FRONT PLUG		DIAMETER	DIAMETER							BACK PLUG	FRONT PLUG
050-46*	051-46	4.0" - 6.0"	3.5"	6.25"	30 psi	15 psi	1/4"	1/4"	9.5"	3.5"	1.0 lbs.	2.0 lbs.
		(102-152 mm)	(89 mm)	(159 mm)	(2.1 Bar)	(1.03 Bar)	-/ -	-, -	(241 mm)	(89 mm)	(0.45 kg)	(0.91 kg)
050-610*	051-610	6.0" - 10.0"	5.25"	10.25"	30 psi	15 psi	1/2"	1/4"	19.7"	5.25"	4.0 lbs.	6.6 lbs.
		(152-254 mm) 8.0" - 12.0"	(133 mm) 7.25"	(260 mm) 12.25"	(2.1 Bar) 25 psi	(1.03 Bar) 15 psi			(500 mm) 20.0"	(133 mm) 6.25"	(1.81 kg) 8.0 lbs.	(2.99 kg) 9.6 lbs.
050-812*	051-812	(203-305 mm)	(184 mm)	(311 mm)	(1.7 Bar)	(1.03 Bar)	3/4"	1/4"	(508 mm)	(159 mm)	(3.63 kg)	(4.35 kg)
		10.0" - 16.0"	9.5"	16.25"	25 psi	15 psi			27.5"	9.30"	19.0 lbs.	20.0 lbs.
050-1016	051-1016	(254-406 mm)	(241 mm)	(413 mm)	(1.7 Bar)	(1.03 Bar)	3/4"	1/4"	(699 mm)	(236 mm)	(8.62 kg)	(9.07 kg)
050 4340	054 4340	12.0" - 18.0"	11.5"	18.25"	25 psi	15 psi	2/411	1/4"	28.5"	11.0"	29.0 lbs.	30.0 lbs.
050-1218	051-1218	(305-457 mm)	(292 mm)	(464 mm)	(1.7 Bar)	(1.03 Bar)	3/4"	1/4"	(724 mm)	(279 mm)	(13.15 kg)	(13.61 kg)
050-1224	051-1224	12.0" - 24.0"	11.5"	24.25"	25 psi	15 psi	3/4"	1/4"	41.0"	11.0"	33.0 lbs.	34.5 lbs.
030-1224	031-1224	(305-610 mm)	(292 mm)	(616 mm)	(1.7 Bar)	(1.03 Bar)	3/4	1/4	(1041 mm)	(279 mm)	(14.97 kg)	(15.65 kg)
050-1530	051-1530	15.0" - 30.0"	14.0"	30.25"	20 psi	8 psi	3/4"	1/4"	55.0"	13.0"	48.0 lbs.	50.0 lbs.
		(381-762 mm)	(356 mm)	(768 mm)	(1.38 Bar)	(0.55 Bar)	-7 :	-, .	(1397 mm)	(330 mm)	(21.77 kg)	(22.68 kg)
050-1530RP	051-1530RP	15.0" - 30.0"	14.0"	30.25"	20 psi	8 psi	3/4"	1/4"	55.0"	13.0"	50.0 lbs.	52.0 lbs.
		(381-762 mm) 20.0" - 36.0"	(356 mm) 19.0"	(768 mm) 36.25"	(1.38 Bar) 20 psi	(0.55 Bar)	-		(1397 mm) 64.0"	(330 mm) 18.5"	(22.68 kg) 71.0 lbs.	(23.59 kg) 73.5 lbs.
050-2036	051-2036	(508-914 mm)	(483 mm)	(921 mm)	(1.38 Bar)	8 psi (0.55 Bar)	3/4"	1/4"	(1626 mm)	(470 mm)	(32.21 kg)	(33.34 kg)
		20.0" - 36.0"	19.0"	36.25"	20 psi	8 psi			64.0"	18.5"	73.0 lbs.	75.5 lbs.
050-2036RP	051-2036RP	(508-914 mm)	(483 mm)	(921 mm)	(1.38 Bar)	(0.55 Bar)	3/4"	1/4"	(1626 mm)	(470 mm)	(33.11 kg)	(34.25 kg)
		24.0" - 48.0"	22.0"	48.25"	15 psi	8 psi			84.0"	21.5"	102.0 lbs.	105.0 lbs.
050-2448	051-2448	(610-1219 mm)	(559 mm)	(1226 mm)	(1.03 Bar)	(0.55 Bar)	3/4"	1/4"	(2134 mm)	(546 mm)	(46.27 kg)	(47.63 kg)
050 3440DD	054 244000	24.0" - 48.0"	22.0"	48.25"	15 psi	8 psi	3/4"	1/4"	84.0"	21.5"	104.0 lbs.	107.0 lbs.
050-2448RP	051-2448RP	(610-1219 mm)	(559 mm)	(1226 mm)	(1.03 Bar)	(0.55 Bar)	3/4	1/4	(2134 mm)	(546 mm)	(47.17 kg)	(48.53 kg)
050-3660	051-3660	36.0" - 60.0"	34.5"	60.25"	10 psi	6 psi	3/4"	1/4"	84.0"	29.5"	187.0 lbs.	190.0 lbs.
030 3000	031 3000	(914-1524 mm)	(876 mm)	(1530 mm)	(0.69 Bar)	(0.41 Bar)	3,4	1/7	(2134 mm)	(749 mm)	(84.82 kg)	(86.18 kg)
050-3660RP	051-3660RP	36.0" - 60.0"	34.5"	60.25"	10 psi	6 psi	3/4"	1/4"	84.0"	29.5"	189.0 lbs.	192.0 lbs.
		(914-1524 mm)	(876 mm)	(1530 mm)	(0.69 Bar)	(0.41 Bar)			(2134 mm)	(749 mm)	(85.73 kg)	(87.09 kg)
050-4278	051-4278	42.0" - 78.0"	37.0"	78.25"	10 psi	6 psi	3/4"	1/4"	101.0"	35.0"	314.0 lbs.	318.0 lbs.
		(1067-1981 mm) 42.0" - 78.0"	(940 mm) 37.0"	(1988 mm) 78.25"	(0.69 Bar) 10 psi	(0.41 Bar) 6 psi	1		(2565 mm) 101.0"	(889 mm) 35.0"	(142.43 kg) 316.0 lbs.	(144.24 kg) 320.0 lbs.
050-4278RP	051-4278RP	(1067-1981 mm)	(940 mm)	(1988 mm)	(0.69 Bar)	(0.41 Bar)	3/4"	1/4"	(2565 mm)	(889 mm)	(143.34 kg)	(145.15 kg)
		48.0" - 72.0"	46.0"	72.25"	10 psi	6 psi			84.0"	43.5"	331.0 lbs.	335.0 lbs.
050-4872	051-4872	(1219-1829 mm)	(1168 mm)	(1835 mm)	(0.69 Bar)	(0.41 Bar)	3/4"	1/4"	(2134 mm)	(1105 mm)	(150.14 kg)	(151.95 kg)
		48.0" - 72.0"	46.0"	72.25"	10 psi	6 psi	- /		84.0"	43.5"	333.0 lbs.	337.0 lbs.
050-4872RP	051-4872RP	(1219-1829 mm)	(1168 mm)	(1835 mm)	(0.69 Bar)	(0.41 Bar)	3/4"	1/4"	(2134 mm)	(1105 mm)	(151.05 kg)	(152.86 kg)
050-5496	051 5400	54.0" - 96.0"	53.0"	96.25"	10 psi	6 psi	3/4"	1/4"	114.0"	51.0"	496.0 lbs.	501.0 lbs.
050-5496	051-5496	(1372-2438 mm)	(1346 mm)	(2445 mm)	(0.69 Bar)	(0.41 Bar)	3/4"	1/4	(2845 mm)	(1295 mm)	(224.98 kg)	(227.25 kg)
050-5496RP	051-5496RP	54.0" - 96.0"	53.0"	96.25"	10 psi	6 psi	3/4"	1/4"	114.0"	51.0"	498.0 lbs.	503.0 lbs.
330 3430KF	331-3430KF	(1372-2438 mm)	(1346 mm)	(2445 mm)	(0.69 Bar)	(0.41 Bar)	1 3/ 4	-/-	(2845 mm)	(1295 mm)	(225.89 kg)	(228.16 kg)
050-6096	051-6096	60.0" - 96.0"	58.0"	96.25"	10 psi	6 psi	3/4"	1/4"	110.0"	56.0"	515.0 lbs.	520.0 lbs.
		(1524-2438 mm)	(1473 mm)	(2445 mm)	(0.69 Bar)	(0.41 Bar)	-, -	_, .	(2794 mm)	(1422 mm)	(233.60 kg)	(235.87 kg)
050-6096RP	051-6096RP	60.0" - 96.0"	58.0"	96.25"	10 psi	6 psi	3/4"	1/4"	110.0"	56.0"	517.0 lbs.	522.0 lbs.
		(1524-2438 mm)	(1473 mm)	(2445 mm)	(0.69 Bar)	(0.41 Bar)	<u> </u>		(2794 mm)	(1422 mm)	(234.51 kg)	(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





MULTI-SIZE FLOW-THRU™ PLUGS

THE MULTI-SIZE FLOW-THRUS™ are built with the same patented designs as our Domehead™ plugs (see page 4 for design characteristics). The Flow-Thru™ plug goes one step further by offering a large by-pass within the pipe plug.

The by-passes are ideal for doing a water test or sewer by-pass.

Lansas Flow-Thru™ plugs are available with standard by-passes up to 8" NPT. 12" threaded connections and larger flanged connections can

be special ordered.

As with any Lansas plug, the Multi-Size Flow-Thru's™ can be

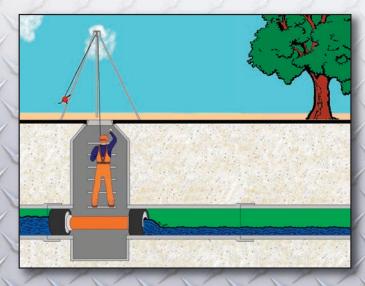
manufactured with nitrile or neoprene rubber and with stainless steel components for use in chemical and petroleum applications.

Convert your Flow-Thru[™] Plug for air testing applications with a simple conversion cap (see page 34). A PVC cap is supplied with each plug with up to a 6" NPT by-pass.

Custom Designs Are Always™ Available









Part No. 093-610

Part No. 094-1218 Part No. 098-1218
Two 12" X 18" Multi-Size Flow-Thru™
Plugs are shown; one with a 4" by-pass,
the other with an 8" by-pass.



36" x 48" with 8" by-pass (custom)

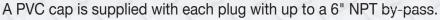
			N	/IULTI-SIZ	FLOW	-THRU™	™ PLUG			
			RANGE	OF USE	REQUIRED	MAXIMUM	BYPASS	PR	ODUCT DIMENSIC	NS
	PART	NOMINAL	MINIMUM	MAXIMUM	INFLATION	BACK/TEST	SIZE		DEFLATED	
	NUMBER	PIPE SIZE	PIPE	PIPE	PRESSURE	PRESSURE	(S-Soft or	LENGTH	DIAMETER	WEIGHT
			DIAMETER	DIAMETER			H-Hard)			
	092-48	4" - 8"	3.80" (97 mm)	8.25"	30 psi	15 psi	2" - H	15.5"	3.5"	6.5 lbs.
		(102 - 203 mm) 6" - 10"	(97 mm) 5.25"	(210 mm) 10.25"	(2.1 Bar) 30 psi	(1.03 Bar) 15 psi		(394 mm) 19.7"	(89 mm) 5.0"	(2.95 kg) 15.0 lbs.
	093-610	(152 - 254 mm)	(133 mm)	(260 mm)	(2.1 Bar)	(1.03 Bar)	3" - H	(500 mm)	(127 mm)	(6.80 kg)
	092-812	8" - 12"	7.25"	12.25"	25 psi	15 psi	2" - H	20.0"	7.0"	15.0 lbs.
	032 012	(203 - 305 mm)	(184 mm)	(311 mm)	(1.7 Bar)	(1.03 Bar)		(508 mm)	(178 mm)	(6.80 kg)
	094-812	8" - 12" (203 - 305 mm)	7.25" (184 mm)	12.25" (311 mm)	25 psi (1.7 Bar)	15 psi (1.03 Bar)	4" - H	20.0" (508 mm)	7.0" (178 mm)	20.0 lbs. (9.07 kg)
		8" - 12"	7.25"	12.25"	25 psi	15 psi	all	20.0"	7.0"	27.0 lbs.
	096-812	(203 - 305 mm)	(184 mm)	(311 mm)	(1.7 Bar)	(1.03 Bar)	6" - H	(508 mm)	(178 mm)	(12.25 kg)
	094-1016	10" - 16"	9.50"	16.25"	25 psi	15 psi	4" - H	28.0"	9.3"	36.0 lbs.
		(254 - 406 mm) 10" - 16"	(241 mm) 9.5"	(413 mm)	(1.7 Bar)	(1.03 Bar)		(711 mm)	(236 mm) 9.3"	(16.33 kg)
	096-1016	(254 - 406 mm)	9.5° (241 mm)	16.25" (413 mm)	25 psi (1.7 Bar)	15 psi (1.03 Bar)	6" - H	28.0" (711 mm)	9.3" (236 mm)	40.0 lbs. (18.14 kg)
	004 4040*	12" - 18"	11.00"	18.25"	25 psi	15 psi	411	28.0"	10.5"	46.0 lbs.
RP™	094-1218*	(305 - 457 mm)	(279 mm)	(464 mm)	(1.7 Bar)	(1.03 Bar)	4" - H	(711 mm)	(267 mm)	(20.87 kg)
RP™	096-1218*	12" - 18"	11.00"	18.25"	25 psi	15 psi	6" - H	28.0"	10.5"	48.0 lbs.
		(305-457 mm) 12" - 18"	(279 mm) 11.00"	(464 mm) 18.25"	(1.7 Bar) 25 psi	(1.03 Bar)		(711 mm) 28.0"	(267 mm) 10.5"	(21.77 kg) 50.0 lbs.
	098-1218	(305 - 457 mm)	(279 mm)	(464 mm)	(1.7 Bar)	15 psi (1.03 Bar)	8" - H	(711 mm)	(267 mm)	(22.68 kg)
RP™	094-1224*	12" - 24"	11.00"	24.25"	25 psi	15 psi	4" - H	41.0"	10.5"	71.0 lbs.
RP	094-1224	(305 - 610 mm)	(279 mm)	(616 mm)	(1.7 Bar)	(1.03 Bar)	4 - 11	(1041 mm)	(267 mm)	(32.21 kg)
RP™	096-1224*	12" - 24"	11.00"	24.25"	25 psi	15 psi	6" - H	41.0"	10.5"	76.0 lbs.
		(305 - 610 mm) 12" - 24"	(279 mm) 11.00"	(616 mm) 24.25"	(1.7 Bar) 25 psi	(1.03 Bar) 15 psi		(1041 mm) 41.0"	(267 mm) 10.5"	(34.47 kg) 79.0 lbs.
	098-1224	(305 - 610 mm)	(279 mm)	(616 mm)	(1.7 Bar)	(1.03 Bar)	8" - H	(1041 mm)	(267 mm)	(35.83 kg)
	094-1530	15" - 30"	14.00"	30.25"	20 psi	8 psi	4" - S	52.0"	13.5"	69.0 lbs.
	094-1330	(381 - 762 mm)	(356 mm)	(768 mm)	(1.38 Bar)	(0.55 Bar)	4 - 3	(1321 mm)	(343 mm)	(31.30 kg)
RP™	094-1530H*	15" - 30"	14.00"	30.25"	20 psi	8 psi	4" - H	52.0"	13.5"	130.0 lbs.
RE		(381 - 762 mm) 15" - 30"	(356 mm) 14.00"	(768 mm) 30.25"	(1.38 Bar) 20 psi	(0.55 Bar) 8 psi		(1321 mm) 52.0"	(343 mm) 13.5"	(58.97 kg) 130.0 lbs.
RP™	096-1530*	(381 - 762 mm)	(356 mm)	(768 mm)	(1.38 Bar)	(0.55 Bar)	6" - H	(1321 mm)	(343 mm)	(58.97 kg)
	098-1530*	15" - 30"	14.0"	30.25"	20 psi	8 psi	8" - H	52.0"	13.5"	135.0 lbs.
RP™	030 1330	(381 - 762 mm)	(356 mm)	(768 mm)	(1.38 Bar)	(0.55 Bar)	·	(1321 mm)	(343 mm)	(61.23 kg)
	094-2036	20" - 36" (508 - 914 mm)	19.00" (483 mm)	36.25" (921 mm)	20 psi (1.38 Bar)	8 psi (0.55 Bar)	4" - S	64.0" (1626 mm)	18.5" (470 mm)	117.0 lbs. (53.07 kg)
	004 202611*	20" - 36"	19.00"	36.25"	20 psi	8 psi	411 11	64.0"	18.5"	155.0 lbs.
RP™	094-2036H*	(508 - 914 mm)	(483 mm)	(921 mm)	(1.38 Bar)	(0.55 Bar)	4" - H	(1626 mm)	(470 mm)	(70.31 kg)
RP™	096-2036*	20" - 36"	19.00"	36.25"	20 psi	8 psi	6" - H	64.0"	18.5"	160.0 lbs.
		(508 - 914 mm) 20" - 36"	(483 mm) 19.00"	(921 mm) 36.25"	(1.38 Bar) 20 psi	(0.55 Bar) 8 psi		(1626 mm) 64.0"	(470 mm) 18.5"	(72.57 kg) 165.0 lbs.
RP™	098-2036*	(508 - 914 mm)	(483 mm)	(921 mm)	(1.38 Bar)	(0.55 Bar)	8" - H	(1626 mm)	(470 mm)	(74.84 kg)
	094-2448	24" - 48"	22.00"	48.25"	15 psi	8 psi	4" - S	84.0"	21.5"	133.0 lbs.
	034-2440	(610 - 1219 mm)	(559 mm)	(1226 mm)	(1.03 Bar)		4 -3	(2134 mm)	(546 mm)	(60.32 kg)
	096-2448	24" - 48" (610 - 1219 mm)	22.0"	48.25"	15 psi	8 psi (0.55 Bar)	6" - S	84.0"	21.5"	195.0 lbs (88.45
	000 0110	24" - 48"	(559 mm) 22.0"	(1226 mm) 48.25"	(1.03 Bar) 15 psi	(0.55 Bar) 8 psi	011 0	(2134 mm) 84.0"	(546 mm) 21.5"	kg) 227.0 lbs.
	098-2448	(610 - 1219 mm)	(559 mm)	(1226 mm)	(1.03 Bar)	(0.55 Bar)	8" - S	(2134 mm)	(546 mm)	(102.97 kg)
	094-3660	36" - 60"	34.5"	60.25"	10 psi	6 psi	4" - S	84.0"	29.5"	208.0 lbs.
		(914 - 1524 mm) 36" - 60"	(876 mm) 34.5"	(1530 mm) 60.25"	(0.69 Bar) 10 psi	(0.41 Bar) 6 psi		(2134 mm) 84.0"	(749 mm) 29.5"	(94.35 kg) 237.0 lbs.
	096-3660	(914- 1524 mm)	(876 mm)	(1530 mm)	(0.69 Bar)	(0.41 Bar)	6" - S	(2134 mm)	(749 mm)	(107.50 kg)
	098-3660	36" - 60"	34.5"	60.25"	10 psi	6 psi	8" - S	84.0"	29.5"	274.0 lbs.
	330 3000	(914- 1524 mm)	(876 mm)	(1530 mm)	(0.69 Bar)	(0.41 Bar)	J - J	(2134 mm)	(749 mm)	(124.28 kg)
	094-4278	42" - 78"	37.0"	78.25"	10 psi	6 psi	4" - S	101.0"	37.0"	335.0 lbs. (151.95 kg)
		(1067 - 1981 mm) 42" - 78"	(940 mm) 37.0"	(1988 mm) 78.25"	(0.69 Bar) 10 psi	(0.41 Bar) 6 psi		(2565 mm) 101.0"	(940 mm) 37.0"	367.0 lbs.
	096-4278	(1067 - 1981 mm)	(940 mm)	(1988 mm)	(0.69 Bar)	(0.41 Bar)	6" - S	(2565 mm)	(940 mm)	(166.47 kg)
	098-4278	42" - 78"	37.0"	78.25"	10 psi	6 psi	8" - S	101.0"	37.0"	408.0 lbs.
		(1067 - 1981 mm) 48" - 72"	(940 mm)	(1988 mm)	(0.69 Bar)	(0.41 Bar)		(2565 mm)	(940 mm)	(185.07 kg)
	094-4872	48 - 72 (1219 - 1828 mm)	46.0" (1168 mm)	72.25" (1835 mm)	10 psi (0.69 Bar)	6 psi (0.41 Bar)	4" - S	84.0" (2134 mm)	43.5" (1105 mm)	340.0 lbs. (154.22 kg)
	006 4973	48" - 72"	46.0"	72.25"	10 psi	6 psi	6" - S	84.0"	43.5"	380.0 lbs.
	096-4872	(1219 - 1828 mm)	(1168 mm)	(1835 mm)	(0.69 Bar)	(0.41 Bar)	0 - 5	(2134 mm)	(1105 mm)	(172.37 kg)
	098-4872	48" - 72"	46.0"	72.25"	10 psi	6 psi	8" - S	84.0"	43.5"	410.0 lbs.
		(1219 - 1828 mm) 60" - 96"	(1168 mm) 58.0"	(1835 mm) 96.25"	(0.69 Bar) 10 psi	(0.41 Bar) 6 psi		(2134 mm) 110.0"	(1105 mm) 56.0"	(185.97 kg) 537.0 lbs.
	094-6096	(1524 - 2438 mm)	(1473 mm)	(2445 mm)	(0.69 Bar)	(0.41 Bar)	4" - S	(2794 mm)	(1422 mm)	(243.58 kg)
	096-6096	60" - 96"	58.0"	96.25"	10 psi	6 psi	6" - S	110.0"	56.0"	570.0 lbs.
	050-0050	(1524 - 2438 mm)	(1473 mm)	(2445 mm)	(0.69 Bar)	(0.41 Bar)	0 - 3	(2794 mm)	(1422 mm)	(258.55 kg)
	098-6096	60" - 96"	58.0"	96.25"	10 psi	6 psi	8" - S	110.0"	56.0"	598.0 lbs.
		(1524 - 2438 mm)	(1473 mm)	(2445 mm)	(0.69 Bar)	(0.41 Bar)		(2794 mm)	(1422 mm)	(271.25 kg)

Rupture protection avaliable



MWTM MULTI-WORKER PLUG Patent # 4,083,384

THE LANSAS MWTM MULTI-WORKER PLUG is the most versatile and cost effective single-size pipe plug available. Our 4" to 24" MW's™ are molded with "o-ring" sealing ribs and each plug is equipped with a replaceable by-pass pipe. Our 15" through 24" MW's™ come with either a 4," 6," or 8" by-pass. For air or water testing, sewer by-pass or simply stopping the flow, the MW™ offers the best value in single size plugs. Test Caps are available to set up the MW[™] Plug for an air test. (see pg. 34).



*For Multi-Size By-Pass Plugs, see pages 6 and 7.

			M.W. PL	UG (MULTI	-WORKER'	^M)			
			OF USE	REQUIRED			Р	RODUCT DIMENSIO	NS
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	INFLATION PRESSURE	MAXIMUM BACK/TEST PRESSURE	BYPASS SIZE	LENGTH	DEFLATED DIAMETER	WEIGHT
020-1.5	1.5" (38 mm)	1.4" (36 mm)	1.75" (44 mm)	60 psi (4.13 Bar)	20 psi (1.38 Bar)	1/8"	3.0" (76 mm)	1.3" (33 mm)	0.4 lbs. (0.18 kg)
020-02	2.0" (51 mm)	1.6" (41 mm)	2.25" (57 mm)	60 psi (4.13 Bar)	20 psi (1.38 Bar)	1/4"	4.5" (114 mm)	1.5" (38 mm)	0.7 lbs. (0.32 kg)
020-03	3.0" (76 mm)	2.5" (64 mm)	3.25" (83 mm)	50 psi (3.44 Bar)	20 psi (1.38 Bar)	3/4"	6.0" (152 mm)	2.4" (61 mm)	1.5 lbs. (0.68 kg)
020-34	3.0" - 4.0" (76 - 102 mm)	2.6" (66 mm)	4.25" (108 mm)	45 psi (3.10 Bar)	15 psi (1.03 Bar)	3/4"	10.0" (254 mm)	2.4" (61 mm)	1.7 lbs. (0.77 kg)
020-04	4.0" (102 mm)	3.7" (94 mm)	4.25" (108 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	1"	9.0" (229 mm)	3.5" (89 mm)	2.0 lbs. (0.91 kg)
020-46	4.0" - 6.0" (102 - 152 mm)	3.5" (89 mm)	6.25" (159 mm)	45 psi (3.10 Bar)	15 psi (1.03 Bar)	1"	13.5" (343 mm)	3.25" (83 mm)	2.2 lbs. (1.00 kg)
020-06	6.0" (152 mm)	5.0" (127 mm)	6.25" (159 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	2"	10.0" (254 mm)	4.5" (114 mm)	3.0 lbs. (1.36 kg)
020-68	6.0" - 8.0" (152 - 203 mm)	4.7" (119 mm)	8.25" (210 mm)	35 psi (2.41 Bar)	15 psi (1.03 Bar)	2"	16.75" (425 mm)	4.5" (114 mm)	5.3 lbs. (2.40 kg)
020-15	14.0" - 16.0" (356 - 406 mm)	13.0" (330 mm)	16.25" (413 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	4"	16.0" (406 mm)	12.75" (324 mm)	37.0 lbs. (16.78 kg
021-15	14.0" - 16.0" (356 - 406 mm)	13.0" (330 mm)	16.25 (413 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	6"	16.0" (406 mm)	12.75" (324 mm)	43.0 lbs. (19.50 kg
022-15	14.0" - 16.0" (356 - 406 mm)	13.0" (330 mm)	16.25" (413 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	8"	16.0" (406 mm)	12.75" (324 mm)	48.0 lbs. (21.77 kg
020-18	18.0" (457 mm)	17.0" (432 mm)	18.25" (464 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	4"	16.0" (406 mm)	16.0" (406 mm)	43.0 lbs. (19.50 kg
021-18	18.0" (457 mm)	17.0" (432 mm)	18.25" (464 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	6"	16.0" (406 mm)	16.0" (406 mm)	49.0 lbs. (22.23 kg
022-18	18.0" (457 mm)	17.0" (432 mm)	18.25" (464 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	8"	16.0" (406 mm)	16.0" (406 mm)	54.0 lbs. (24.49 kg
020-21	20.0" - 21.0" (508 - 533 mm)	19.0" (483 mm)	21.25" (540 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	4"	16.0" (406 mm)	18.5" (470 mm)	51.0 lbs. (23.13 kg
021-21	20.0" - 21.0" (508 - 533 mm)	19.0" (483 mm)	21.25" (540 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	6"	16.0" (406 mm)	18.5" (470 mm)	59.0 lbs. (26.76 kg
022-21	20.0" - 21.0" (508 - 533 mm)	19.0" (483 mm)	21.25" (540 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	8"	16.0" (406 mm)	18.5" (470 mm)	62.0 lbs. (28.12 kg
020-24	24.0" (610 mm)	23.0" (584 mm)	24.25" (616 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	4"	16.0" (406 mm)	22.0" (559 mm)	68.0 lbs. (30.84 kg
021-24	24.0" (610 mm)	23.0" (584 mm)	24.25" (616 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	6"	16.0" (406 mm)	22.0" (559 mm)	76.0 lbs.
022-24	24.0"	23.0"	24.25"	25 psi	15 psi	8"	16.0"	22.0"	79.0 lbs.

SST & MST SINGLE AND MULTI-SIZE TEST PLUGS



The Lansas SST and MST (Single and Multi-Size Test Plug) are similar in function to our M.W. plugs, but the SST and MST are built with a newly formulated natural rubber compound. These plugs are the most durable, versatile, and toughest single size plugs available today.

The SST and MST Plugs are designed with multi-function in mind. Available in single sizes 8" through 24" and multi-size 8"- 12". Each of these have a 3" female NPT aluminum by-pass. These plugs can be used to stop flow, for sewer by-passing, or for air testing. An air test conversion cap comes supplied with every SST and MST Plug.

SST Plug shown with our NEW Triple Test SMART HOSE, available in 25'or 50' lengths. Part No. 472-25 & 472-50







Test Cap Packages 545-01 545-02

Conversion Caps shown with optional air test fittings.

	SINGLE SIZE TEST PLUG (SST)								
		RANGE	OF USE	DECLUBED	MAXIMUM		PRODUCT DIMENSIONS		
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	REQUIRED INFLATION PRESSURE	BACK/TEST PRESSURE	BYPASS SIZE	LENGTH	DEFLATED DIAMETER	WEIGHT
025-08	8.0" (203 mm)	6.75" (171 mm)	8.25" (210 mm)	35 psi (2.41 Bar)	15 psi (1.03 Bar)	3"	8.75" (222 mm)	6.7" (170 mm)	6.0 lbs. (2.72 kg)
025-10	10.0" (254 mm)	8.75" (222 mm)	10.25" (260 mm)	35 psi (2.41 Bar)	15 psi (1.03 Bar)	3"	10.75" (273 mm)	8.6" (218 mm)	10.0 lbs. (4.54 kg)
025-12	12.0" (305 mm)	10.75" (273 mm)	12.25" (311 mm)	35 psi (2.41 Bar)	15 psi (1.03 Bar)	3"	12.75" (324 mm)	10.4" (264 mm)	16.0 lbs. (7.26 kg)
025-15	14.0" - 16.0" (356 - 407 mm)	13.0" (330 mm)	16.25" (413 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	3"	16.0" (406 mm)	12.8" (325 mm)	29.0 lbs. (13.15 kg)
025-18	18.0" (457 mm)	17.0" (432 mm)	18.25" (464 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	3"	16.0" (406 mm)	16.0" (406 mm)	35.0 lbs. (15.88 kg)
025-21	20.0" - 21.0" (508 - 533 mm)	19.0" (483 mm)	21.25" (540 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	3"	16.0" (406 mm)	18.5" (457 mm)	43.0 lbs. (19.50 kg)
025-24	24.0" (610 mm)	23.0" (584 mm)	24.25" (616 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	3"	16.0" (406 mm)	22.0" (559 mm)	60.0 lbs. (27.22 kg)
	MULTI-SIZE TEST PLUGS (MST)								
025-812	8.0" - 12.0" (203 - 305 mm)	7.25" (184 mm)	12.25" (311 mm)	25 psi (1.72 Bar)	15 psi (1.03 Bar)	3"	15.0" (381 mm)	7.0" (178 mm)	14.0 lbs. (6.35 kg)





SINGLE & MULTI-SIZE SUPER-FLOW™

THE LANSAS SUPER-FLOW™ PIPE PLUGS are designed with the largest by-passes available. These pipe plugs are excellent for use in flow diversion and manhole rehabilitation projects. Field replaceable bladders now avaliable.

		RANGE	OF USE	REQUIRED	MAXIMUM		PRO	DDUCT DIMENSI	ONS
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	INFLATION PRESSURE	BACK/TEST PRESSURE	BYPASS SIZE	LENGTH	DEFLATED DIAMETER	WEIG
		DIAMETER		IZED MODE	IS				
	4.0"	3.75"	4.25"	25 psi	10 psi		12.0"	3.5"	6.0 lb
180-04	(102 mm)	(95 mm)	(108 mm)	(1.72 Bar)	(0.68 Bar)	3"	(305 mm)	(89 mm)	(2.72
	6.0"	5.0"	6.25"	25 psi	10 psi		14.0"	4.5"	9.0 lb
180-06	(152 mm)	(127 mm)	(159 mm)	(1.72 Bar)	(0.68 Bar)	4"	(356 mm)	(114 mm)	(4.08
100.00	8.0"	7.0"	8.25"	25 psi	10 psi		16.0"	6.5"	15.0 II
180-08	(203 mm)	(178 mm)	(209 mm)	(1.72 Bar)	(0.68 Bar)	6"	(406 mm)	(165 mm)	(6.80
100.10	10.0"	9.0"	10.25"	25 psi	10 psi	8"	20.0"	8.5"	24.0
180-10	(254 mm)	(229 mm)	(260 mm)	(1.72 Bar)	(0.68 Bar)	8"	(508 mm)	(216 mm)	(10.89
180-12	12.0"	11.0"	12.25"	25 psi	10 psi	10"	20.0"	10.5"	33.0 I
180-12	(305 mm)	(279 mm)	(311 mm)	(1.72 Bar)	(0.68 Bar)	10	(508 mm)	(267 mm)	(14.97
180-15	14.0" - 16.0"	13.0"	16.25"	25 psi	10 psi	12"	20.0"	12.75"	40.0 I
100-15	(356 - 406 mm)	(330 mm)	(413 mm)	(1.72 Bar)	(0.68 Bar)	12	(508 mm)	(324 mm)	(18.14
180-18	18.0"	17.0"	18.25"	25 psi	10 psi	16"	20.0"	16.75"	50.0 l
100-10	(457 mm)	(432 mm)	(464 mm)	(1.72 Bar)	(0.68 Bar)	16	(508 mm)	(425 mm)	(22.68
180-20	20.0" - 21.0"	19.0"	21.25"	25 psi	10 psi	18"	20.0"	18.75"	63.0 I
160-20	(508 - 533 mm)	(483 mm)	(540 mm)	(1.72 Bar)	(0.68 Bar)	10	(508 mm)	(476 mm)	(28.58
180-24	24.0"	22.0"	24.25"	25 psi	10 psi	20"	20.0"	20.75"	70.0 I
160-24	(610 mm)	(559 mm)	(616 mm)	(1.72 Bar)	(0.68 Bar)	20	(508 mm)	(527 mm)	(31.75
			MULTI-	SIZE MODEL	S				
185-48	4.0" - 8.0"	3.75"	8.25"	25 psi	10 psi	3"	16.0"	3.5"	7.0 lb
185-48	(102 - 203 mm)	(95 mm)	(210 mm)	(1.72 Bar)	(0.68 Bar)	3	(406 mm)	(89 mm)	(3.18
185-610	6.0" - 10.0"	5.0"	10.25"	25 psi	10 psi	4"	20.0"	4.5"	13.0 II
182-610	(152 - 254 mm)	(127 mm)	(260 mm)	(1.72 Bar)	(0.68 Bar)	4	(508 mm)	(114 mm)	(5.90 l
185-812	8.0" - 12.0"	7.0"	12.25"	25 psi	10 psi	6"	20.0"	6.5"	19.0 II
163-612	(203 - 305 mm)	(178 mm)	(311 mm)	(1.72 Bar)	(0.68 Bar)		(508 mm)	(165 mm)	(8.62
185-1016	10.0" - 16.0"	9.0"	16.25"	25 psi	10 psi	8"	24.0"	8.75"	29.0 I
183-1010	(254 - 406 mm)	(229 mm)	(413 mm)	(1.72 Bar)	(0.68 Bar)	8	(610 mm)	(222 mm)	(13.15
185-1218	12.0" - 18.0"	11.0"	18.25"	25 psi	10 psi	10"	24.0"	10.75"	38.0 I
103-1210	(305 - 457 mm)	(279 mm)	(464 mm)	(1.72 Bar)	(0.68 Bar)	10	(610 mm)	(273 mm)	(17.24
185-1421	14.0" - 21.0"	13.0"	21.25"	25 psi	10 psi	12"	28.0"	12.75"	67.0 I
103 1721	(356 - 533 mm)	(330 mm)	(540 mm)	(1.72 Bar)	(0.68 Bar)	12	(711 mm)	(324 mm)	(30.39
185-1824	18.0" - 24.0"	17.0"	24.25"	25 psi	10 psi	16"	28.0"	16.75"	79.0 I
103 1024	(457 - 610 mm)	(432 mm)	(616 mm)	(1.72 Bar)	(0.68 Bar)	10	(711 mm)	(425 mm)	(35.83
185-2030	20.0" - 30.0"	19.0"	30.25"	25 psi	10 psi	18"	32.0"	18.75"	92.0 I
100 2000	(508 - 762 mm)	(483 mm)	(768 mm)	(1.72 Bar)	(0.68 Bar)	10	(813 mm)	(476 mm)	(41.73
185-2436	24.0" - 36.0"	22.0"	36.25"	25 psi	10 psi	20"	48.0"	22.0"	176.0 l
	(610 - 914 mm)	(559 mm)	(921 mm)	(1.72 Bar)	(0.68 Bar)		(1219 mm)	(559 mm)	(79.83



MULTI-SIZE INTERCHANGE™ PLUGS

(MULTIPLE COVERS AVAILABLE)



INTERCHANGE PLUGS

Lansas manufactures pipe plugs with interchangeable ends. These plugs can be selected with the exact by-pass needed to fit your application. Pipe plug sizes start at 12" and can be custom fabricated as large as 96" in diameter. The bolt-on covers can be equipped with threaded by-pass connections up to 12" (M) NPT, flanged connections or an open tube end for use as a Super-Flow™ style plug. With 11 different covers available the 15"-30" Interchange Plug will work for all your jobs today, tomorrow and beyond.

8" Flanged By-pass

MULTI-SIZE INTERCHANGE PLUGS (REMOVABLE ENDS)									
		RANGE	OF USE	REQUIRED	MAXIMUM	P	RODUCT DIMENSION	IS	
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	INFLATION PRESSURE	BACK/TEST PRESSURE	LENGTH	DEFLATED DIAMETER	WEIGHT	
250-1224	12.0" - 24.0"	11.2"	24.25"	20 psi	10 psi	41.0"	11.0"	71.0 lbs.	
	(305 - 610 mm)	(284 mm)	(616 mm)	(1.38 Bar)	(0.69 Bar)	(1041 mm)	(279 mm)	(32.21 kg)	
250-1521	15.0" - 21.0"	14.2"	21.25"	20 psi	10 psi	24.0"	14.0"	44.0 lbs.	
	(381 - 533 mm)	(361 mm)	(540 mm)	(1.38 Bar)	(0.69 Bar)	(610 mm)	(356 mm)	(19.96 kg)	
250-1530	15.0" - 30.0"	14.2"	30.25"	20 psi	10 psi	42.0"	14.0"	83.0 lbs.	
	(381 - 762 mm)	(361 mm)	(768 mm)	(1.38 Bar)	(0.69 Bar)	(1067 mm)	(356 mm)	(37.65 kg)	
250-1824	18.0" - 24.0"	16.2"	24.25"	20 psi	10 psi	24.0"	16.0"	57.0 lbs.	
	(457 - 610 mm)	(411 mm)	(616 mm)	(1.38 Bar)	(0.69 Bar)	(610 mm)	(406 mm)	(25.85 kg)	
250-2436	24.0" - 36.0"	22.2"	36.25"	20 psi	10 psi	30.0"	22.0"	103.0 lbs.	
	(610 - 914 mm)	(564 mm)	(921 mm)	(1.38 Bar)	(0.69 Bar)	(762 mm)	(559 mm)	(46.72 kg)	

All plugs are sold without a cover. Choose a cover for the appropriate size plug below. All covers are fabricated steel.

1	
COVERS FOR 1	2"X 24" PLUGS
PART NUMBER	BY-PASS SIZE
259-12-FR	3/4" & 1/4" (F)NPT
259-12-04T	4" (M) NPT
259-12-06T	6" (M) NPT
259-12-04SF	4" TUBE
259-12-06SF	6" TUBE
259-12-04FG	4" FLANGE
259-12-06FG	6" FLANGE

T - Thread (Male NPT)

SF - Super-Flow (Plain Tube End)

FG - Flange

COVERS FOR 15"X 21" AND 15"X 30" PLUGS						
PART NUMBER	BY-PASS SIZE					
259-15-04T	4" (M) NPT					
259-15-06T	6" (M) NPT					
259-15-08T	8" (M) NPT					
259-15-10T	10" (M) NPT					
259-15-12T	12" (M) NPT					
259-15-08SF	8" TUBE					
259-15-10SF	10" TUBE					
259-15-12SF	12" TUBE					
259-15-8FG	8" FLANGE					
259-15-10FG	10" FLANGE					
259-15-12FG	12" FLANGE					

COVERS FOR 1	.8"X24" PLUGS
PART NUMBER	BY-PASS SIZE
259-18-04T	4" (M) NPT
259-18-06T	6" (M) NPT
259-18-08T	8" (M) NPT
259-18-10T	10" (M) NPT
259-18-12T	12" (M) NPT
259-18-08SF	8 TUBE
259-18-10SF	10" TUBE
259-18-12SF	12" TUBE
259-18-14SF	14" TUBE
259-18-08FG	8" FLANGE
259-18-10FG	10" FLANGE
259-18-12FG	12" FLANGE
259-18-14FG	14" FLANGE
100	300

COVERS FOR 2	4"X36" PLUGS
PART NUMBER	BY-PASS SIZE
259-24-04T	4" (M) NPT
259-24-06T	6" (M) NPT
259-24-08T	8" (M) NPT
259-24-10T	10" (M) NPT
259-24-12T	12" (M) NPT
259-24-08SF	8" TUBE
259-24-10SF	10" TUBE
259-24-12SF	12" TUBE
259-24-14SF	14" TUBE
259-24-16SF	16" TUBE
259-24-18SF	18" TUBE
259-24-20SF	20" TUBE
259-24-08FG	8" FLANGE
259-24-10FG	10" FLANGE
259-24-12FG	12" FLANGE
259-24-14FG	14" FLANGE
259-24-16FG	16" FLANGE
259-24-18FG	18" FLANGE
259-24-20FG	20" FLANGE

Custom Designs Are Always™ Available

HIGH PRESSURE TEST PLUGS

LANSAS HIGH PRESSURE TEST PLUGS

are designed to seal the host pipe to pressures up to 150 psi.* (higher pressures are available on custom designs). These pipe plugs are equipped with a centered by-pass pipe for inducing your test medium into the pipe. Larger sizes also include a second by-pass for bleeding air out of the section being tested and monitoring the test pressure. The plug bladder, which is reinforced with multiple layers of polyester cord, is bonded to the inner metal mandrel. When this plug is inflated the ends roll up away from the mandrel. This allows the bladder to make contact with the pipe walls without applying unnecessary stress on the bladder.

These plugs are excellent for use in water mains, force mains or industrial lines. As with all Lansas products, the high pressure test plugs can be custom manufactured to meet the requirements of your job.

*Blocking/Bracing must be used to prevent the movement or complete dislodgement of pipe plugs. (See Lansas Safety Instructions at www.lansas.com)







Part No. 045-66

Custom Designs Are Always™ Available

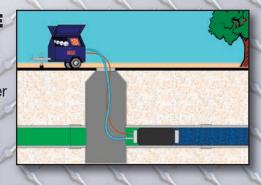
MULTI-SIZED MEDIUM PRESSURE TEST PLUGS



MULTI-SIZE MEDIUM PRESSURE TEST PLUGS are available in 3 sizes from 8"-24". The Lansas Medium Pressure Plug is the first of its kind. Manufactured with multiple layers of fabric and heavy inner and outer rubber walls. It will withstand line

pressures up to 60 psi. As for most everything in the catalog the Medium Pressure Plug can Always™ be customized

to meet your needs.



		HIGH P	RESSURE '	TEST PLU	G (ROLL-	UP S	TYLE)			
		RANGE C	F USE	REQUIRED	MAXIMUM			PR	ODUCT DIMENSIC	ONS
PART	NOMINAL	MINIMUM	MAXIMUM	INFLATION	BACK/TEST	ВҮР			DEFLATED	
NUMBER	PIPE SIZE	PIPE	PIPE	PRESSURE	PRESSURE	SIZ	E/S	LENGTH	DIAMETER	WEIGHT
	3.0"	DIAMETER 2.8"	DIAMETER 3.25"	225 psi	150 psi			12.0"	2.75"	8.0 lbs.
045-03	(76 mm)	(71 mm)	(83 mm)	(15.51 Bar)	(10.34 Bar)	3/	4"	(305 mm)	(70 mm)	(3.63 kg)
045-04	4.0"	3.8"	4.25"	225 psi	150 psi	3/	4"	12.0"	3.5"	10.0 lbs.
043 04	(102 mm)	(97 mm)	(108 mm)	(15.51 Bar)	(10.34 Bar)		•	(305 mm)	(89 mm)	(4.54 kg)
045-06	6.0" (152 mm)	5.5" (140 mm)	6.25" (159 mm)	225 psi (15.51 Bar)	150 psi (10.34 Bar)	3/	4"	12.0" (305 mm)	5.0" (127 mm)	15.0 lbs. (6.80 kg)
	8.0"	7.0"	8.25"	225 psi	150 psi			12.0"	6.0"	20.0 lbs.
045-08	(203 mm)	(178 mm)	(210 mm)	(15.51 Bar)	(10.34 Bar)	2	."	(305 mm)	(152 mm)	(9.07 kg)
045-10	10.0"	9.0"	10.25"	225 psi	150 psi	2"	3/4"	12.0"	8.0"	28.0 lbs.
043-10	(254 mm)	(229 mm)	(260 mm)	(15.51 Bar)	(10.34 Bar)	2	3/4	(305 mm)	(203 mm)	(12.70 kg)
045-12	12.0"	11.0"	12.25"	225 psi	150 psi	2"	3/4"	12.0"	10.0"	37.0 lbs.
	(305 mm) 14.0"	(279 mm) 13.0"	(311 mm) 14.25"	(15.51 Bar) 225 psi	(10.34 Bar) 150 psi		-	(305 mm) 16.0"	(254 mm) 12.0"	(16.78 kg) 60.0 lbs.
045-14	(356 mm)	(330 mm)	(362 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4"	(406 mm)	(305 mm)	(27.22 kg)
	15.0"	14.0"	15.25"	225 psi	150 psi		2 (21)	16.0"	13.0"	65.0 lbs.
045-15	(381 mm)	(356 mm)	(387 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4"	(406 mm)	(330 mm)	(29.48 kg)
045-16	16.0"	15.0"	16.25"	225 psi	150 psi	2"	3/4"	16.0"	14.0"	70.0 lbs.
0.13.10	(406 mm)	(381 mm)	(413 mm)	(15.51 Bar)	(10.34 Bar)	-	٥, .	(406 mm)	(356 mm)	(31.75 kg)
045-18	18.0" (457 mm)	17.0" (432 mm)	18.25" (464 mm)	225 psi (15.51 Bar)	150 psi (10.34 Bar)	2"	3/4"	16.0" (406 mm)	16.0" (406 mm)	90.0 lbs. (40.82 kg)
	20.0"	19.0"	20.25"	(13.31 Bai) 225 psi	150 psi			16.0"	18.0"	136.0 lbs.
045-20	(508 mm)	(483 mm)	(514 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4"	(406 mm)	(457 mm)	(61.69 kg)
045.31	21.0"	20.0"	21.25"	225 psi	150 psi	2"	3/4"	16.0"	19.0"	145.0 lbs.
045-21	(533 mm)	(508 mm)	(540 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4	(406 mm)	(483 mm)	(65.77 kg)
045-24	24.0"	23.0"	24.25"	225 psi	150 psi	2"	3/4"	16.0"	22.0"	195.0 lbs.
	(610 mm) 27.0"	(584 mm) 26.0"	(616 mm) 27.25"	(15.51 Bar)	(10.34 Bar)			(406 mm) 16.0"	(559 mm) 25.0"	(88.45 kg)
045-27	(686 mm)	(660 mm)	(692 mm)	225 psi (15.51 Bar)	150 psi (10.34 Bar)	2"	3/4"	(406 mm)	(635 mm)	215.0 lbs. (97.52 kg)
	30.0"	29.0"	30.25"	225 psi	150 psi			16.0"	28.0"	258.0 lbs.
045-30	(762 mm)	(737 mm)	(768 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4"	(406 mm)	(711 mm)	(117.03 kg)
045-33	33.0"	32.0"	33.25"	225 psi	150 psi	2"	3/4"	16.0"	31.0"	313.0 lbs.
043 33	(838 mm)	(813 mm)	(845 mm)	(15.51 Bar)	(10.34 Bar)	-	3,4	(406 mm)	(787 mm)	(141.97 kg)
045-36	36.0" (914 mm)	35.0" (889 mm)	36.25" (921 mm)	225 psi (15.51 Bar)	150 psi (10.34 Bar)	2"	3/4"	16.0" (406 mm)	34.0" (864 mm)	355.0 lbs. (161.03 kg)
	39.0"	38.0"	39.25"	225 psi	150 psi			16.0"	37.0"	375.0 lbs.
045-39	(991 mm)	(965 mm)	(997 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4"	(406 mm)	(940 mm)	(170.10 kg)
045-42	42.0"	41.0"	42.25"	225 psi	150 psi	2"	3/4"	16.0"	40.0"	385.0 lbs.
043-42	(1067 mm)	(1041 mm)	(1073 mm)	(15.51 Bar)	(10.34 Bar)	2	3/4	(406 mm)	(1016 mm)	(174.63 kg)
045-45	45.0"	44.0"	45.25"	225 psi	150 psi	2"	3/4"	16.0"	43.0"	465.0 lbs.
	(1143 mm) 48.0"	(1118 mm) 47.0"	(1149 mm) 48.25"	(15.51 Bar) 225 psi	(10.34 Bar) 150 psi			(406 mm) 16.0"	(1192 mm) 46.0"	(210.92 kg) 510.0 lbs.
045-48	(1219 mm)	(1194 mm)	(1226 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4"	(406 mm)	(1168 mm)	(231.33 kg)
045.54	54.0"	53.0"	54.25"	225 psi	150 psi	211	2/4//	16.0"	52.0"	670.0 lbs.
045-54	(1372 mm)	(1346 mm)	(1378 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4"	(406 mm)	(1321 mm)	(303.91 kg)
045-60	60.0"	59.0"	60.25"	225 psi	150 psi	2"	3/4"	16.0"	58.0"	850.0 lbs.
	(1524 mm)	(1499 mm)	(1530 mm)	(15.51 Bar)	(10.34 Bar)		-, -	(406 mm)	(1473 mm)	(385.55 kg)
045-66	66.0" (1676 mm)	65.0" (1651 mm)	66.25" (1683 mm)	225 psi (15.51 Bar)	150 psi (10.34 Bar)	2"	3/4"	16.0" (406 mm)	64.0" (1626 mm)	950.0 lbs. (430.91 kg)
	72.0"	71.0"	72.25"	(13.31 Bai) 225 psi	150 psi			16.0"	70.0"	1200.0 lbs.
045-72	(1829 mm)	(1803 mm)	(1835 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4"	(406 mm)	(1778 mm)	(544.31 kg)
045-78	78.0"	77.0"	78.25"	225 psi	150 psi	2"	3/4"	16.0"	76.0"	1230.0 lbs.
0.13 / 0	(1981 mm)	(1956 mm)	(1988 mm)	(15.51 Bar)	(10.34 Bar)	-	-,-	(406 mm)	(1930 mm)	(557.92 kg)
045-84	84.0"	83.0"	84.25"	225 psi (15.51 Bar)	150 psi	2"	3/4"	16.0"	82.0"	1240.0 lbs.
	(2134 mm) 90.0"	(2108 mm) 89.0"	(2140 mm) 90.25"	(15.51 Bar) 225 psi	(10.34 Bar) 150 psi			(406 mm) 16.0"	(2083 mm) 88.0"	(562.45 kg) 1525.0 lbs.
045-90	(2286 mm)	(2261 mm)	(2292 mm)	(15.51 Bar)	(10.34 Bar)	2"	3/4"	(406 mm)	(2235 mm)	(691.73 kg)
045-96	96.0"	95.0"	96.25"	225 psi	150 psi	2"	3/4"	16.0"	94.0"	1600.0 lbs.
045-96	(2438 mm)	(2413 mm)	(2445 mm)	(15.51 Bar)	(10.34 Bar)	2	3/4	(406 mm)	(2388 mm)	(725.75 kg)
		MULTI-S	SIZED MED	DIUM PR	ESSURE I	EST F	PLUG	S		
		REQUIRED	ı							
PART	NOMINAL	INFLATION		M BACK/ TEST P				PRODUT D	IMENSIONS	
NUMBER	PIPE SIZE	PRESSURE	IN S	SPECIFIC PIPE SIZ	<u></u>	LEN	GTH	DIAM	1ETER	WEIGHT
			8" (200 mm)	10" (250 mm)	12" (300 mm)					
160-812	8.0" - 12.0"	70 psi	60 psi	50 psi	40 psi	30			6"	42.0 lbs.
	(203 - 305 mm)	(4.83 Bar)	(4.14 Bar)	(3.45 Bar)	(2.76 Bar)	(762	mm)	(193	mm)	(19.05 kg)
	12.0" - 18.0"	70 nc:	12" (300 mm)			30	0" I	11	6"	77.0 lbs.
160-1218	12.0" - 18.0" (305 - 457 mm)	70 psi (4.83 Bar)	50 psi (3.45 Bar)	40 psi (2.76 Bar)	30 psi (2.07 Bar)	(762		(295		77.0 lbs. (34.93 kg)
	(555 157 11111)	, bai j	18" (450 mm)				,	(233	,	(5 1.55 1/8)
	10.011.01.011	70				. 	OII			
160-1824	18.0" - 24.0"	70 psi	30 psi	25 psi	20 psi	35	.0	17	.6"	136.0 lbs.

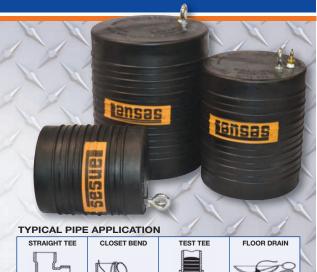


BLOCK PLUGS TO PREVENT MOVING! Safety Instructions are sent with each new plug or they can be downloaded from the Lansas website at www.lansas.com.

Manufactured by Vanderlans & Sons, Inc.

A.R.™ & SSB SINGLE-SIZE BLOCKING PLUGS

Developed to block flow in pipelines or for testing,
Lansas A.R.™ plugs, 1-1/4" thru 6" feature a zinc plated
chain and ring. The entire range of these plugs through 24"
have test pressure ratings of as much as 15 psi with air or
water. Our (SSB) Single Size Blocking plugs offered in 8,"
10" and 12" sizes with a newly formulated blend of natural
rubber along with the A.R.™ plugs are the toughest and
most dependable single-size plugs available. The SSB, like
the SST comes with a removable 3/8" eye bolt and a
removable 1/4" (M) NPT tire inflation valve.



		A. R.™ & S	SSB SING	LE-SIZE BI	OCKING	PLUGS		
		RANGE	OF USE	REQUIRED	MAXIMUM	PR	ODUCT DIMENSIO	ONS
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	INFLATION PRESSURE	BACK/TEST PRESSURE	LENGTH	DEFLATED DIAMETER	WEIGHT
0307515	0.75" - 1.5"	0.7"	1.75"	30 psi	15 psi	5.75"	0.6"	0.5 lbs.
030 .7313	(20 - 38 mm)	(18 mm)	(44 mm)	(2.07 Bar)	(1.03 Bar)	(146 mm)	(15 mm)	(0.23 kg)
030-02	2.0"	1.8"	2.25"	30 psi	10 psi	6.5"	1.5"	0.2 lbs.
030 02	(51 mm)	(46 mm)	(57 mm)	(2.07 Bar)	(0.69 Bar)	(165 mm)	(38 mm)	(0.09 kg)
030-03	3.0"	2.8"	3.25"	30 psi	15 psi	4.75"	2.6"	0.5 lbs.
030-03	(76 mm)	(71 mm)	(83 mm)	(2.07 Bar)	(1.03 Bar)	(121 mm)	(66 mm)	(0.23 kg)
030-34*	3.0" - 4.0"	2.6"	4.25"	45 psi	15 psi	7.0"	2.5"	1.0 lbs.
030-34	(76 - 102 mm)	(66 mm)	(108 mm)	(3.10 Bar)	(1.03 Bar)	(178 mm)	(64 mm)	(0.45 kg)
030-04	4.0"	3.5"	4.25"	30 psi	15 psi	5.25"	3.3"	0.7 lbs.
030-04	(102 mm)	(89 mm)	(108 mm)	(2.07 Bar)	(1.03 Bar)	(133 mm)	(84 mm)	(0.32 kg)
030-46*	4.0" - 6.0"	3.5"	6.25"	45 psi	15 psi	11.0"	3.4"	1.6 lbs.
030-46	(102 - 152 mm)	(89 mm)	(159 mm)	(3.10 Bar)	(1.03 Bar)	(279 mm)	(86 mm)	(0.73 kg)
030-06	6.0"	5.5"	6.25"	30 psi	15 psi	7.0"	4.8"	1.8 lbs.
030-06	(152 mm)	(140 mm)	(159 mm)	(2.07 Bar)	(1.03 Bar)	(178 mm)	(122 mm)	(0.82 kg)
030-68*	6.0" - 8.0"	4.7"	8.25"	35 psi	15 psi	14.0"	4.5"	3.9 lbs.
030-68**	(152 - 203 mm)	(119 mm)	(210 mm)	(2.41 Bar)	(1.03 Bar)	(356 mm)	(114 mm)	(1.77 kg)
025.00*	8.0"	6.75"	8.25"	25 psi	15 psi	7.75"	6.7"	5.0 lbs.
035-08*	(203 mm)	(171 mm)	(210 mm)	(1.70 Bar)	(1.03 Bar)	(197 mm)	(170 mm)	(2.27 kg)
035-10*	10.0"	8.75"	10.25"	25 psi	15 psi	9.75"	8.6"	8.0 lbs.
035-10	(254 mm)	(222 mm)	(260 mm)	(1.70 Bar)	(1.03 Bar)	(248 mm)	(218 mm)	(3.63 kg)
035-12*	12.0"	10.75"	12.25"	25 psi	15 psi	11.75"	10.4"	11.0 lbs.
035-12**	(305 mm)	(273 mm)	(311 mm)	(1.70 Bar)	(1.03 Bar)	(298 mm)	(264 mm)	(4.99 kg)
020.45*	14.0" - 16.0"	13.0"	16.25"	25 psi	15 psi	16.0"	12.75"	22.0 lbs.
030-15*	(356 - 406 mm)	(330 mm)	(413 mm)	(1.70 Bar)	(1.03 Bar)	(406 mm)	(324 mm)	(9.98 kg)
020.40*	18.0"	17.0"	18.25"	25 psi	15 psi	16.0"	16.0"	35.0 lbs.
030-18*	(457 mm)	(432 mm)	(464 mm)	(1.70 Bar)	(1.03 Bar)	(406 mm)	(406 mm)	(15.88 kg)
020.21*	20.0" - 21.0"	19.0"	21.25"	25 psi	15 psi	16.0"	18.5"	41.0 lbs.
030-21*	(508 - 533 mm)	(483 mm)	(540 mm)	(1.70 Bar)	(1.03 Bar)	(406 mm)	(470 mm)	(18.60 kg)
020.24*	24.0"	23.0"	24.25"	25 psi	15 psi	16.0"	22.0"	55.0 lbs.
030-24*	(610 mm)	(584 mm)	(616 mm)	(1.70 Bar)	(1.03 Bar)	(406 mm)	(559 mm)	(24.95 kg)

^{*}Not equipped with the zinc plated chain and ring. Sizes 16" - 24" have a removable inflation fitting and eye-bolt.

LONG A.R.™



THE LONG A.R.™ is designed to be installed through a cleanout or floor drain and seal within the wye. With a pressure rating of 15 psi, these plugs are excellent for use when pressure testing with air or water. The Long A.R.™ plug is supplied with a 36" extension hose and a removable zinc-plated chain and ring.

All long AR's include a 3' Extension Hose. See page 33 for accessories.

		LC	NG A.R. "A	ll-Rubber" 🤆	GRIP RIB PLU	JG		
		RANGE OF USE		REQUIRED	MAXIMUM	Р	RODUCT DIMENSION	S
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	INFLATION PRESSURE	BACK/TEST PRESSURE	LENGTH	DEFLATED DIAMETER	WEIGHT
031-02	2.0"	1.7"	2.25"	30 psi	15 psi	17.5"	1.5"	0.5 lbs.
	(51 mm)	(43 mm)	(57 mm)	(2.07 Bar)	(1.03 Bar)	(445 mm)	(38 mm)	(0.23 kg)
031-03	3.0"	2.7"	3.25"	30 psi	15 psi	19.5"	2.2"	1.0 lbs.
	(76 mm)	(69 mm)	(83 mm)	(2.07 Bar)	(1.03 Bar)	(495 mm)	(56 mm)	(0.45 kg)
031-04	4.0"	3.5"	4.25"	30 psi	15 psi	23.0"	3.0"	2.0 lbs.
	(102 mm)	(89 mm)	(108 mm)	(2.07 Bar)	(1.03 Bar)	(584 mm)	(76 mm)	(0.91 kg)
031-46	4.0"- 6.0"	3.8"	6.25"	30 psi	15 psi	26.0"	3.6"	3.0 lbs.
	(102 - 152 mm)	(97 mm)	(159 mm)	(2.07 Bar)	(1.03 Bar)	(660 mm)	(91 mm)	(1.36 kg)

SINGLE-SIZE DISC PLUGS

Patent #2.927.609

THE LANSAS SINGLE-SIZE DISC PLUG has been around for more than 60 years and was the first plug manufactured by Lansas in 1955. Constructed of rolled channel steel, the standard Disc Plugs come as one-piece units. The Lansas Disc Plug can be used for construction, rehabilitation, cleaning, and testing. The bladders for these pipe plugs are reinforced with 2 plys of polyester tire cord. Custom plugs can be designed with large diameter by passes and made in virtually any size or shape desirable. Disc plugs can be sectioned to fit through smaller openings at additional cost. Split plugs are not recommended for air testing.



		FOR AIR TESTIN			SC PLUG G OR STOPPI	G NG PIPELINE FLOW		
		RANGE C	F USE	DECLUBED	MAXIMUM	Р	RODUCT DIMENSION	S
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	REQUIRED INFLATION PRESSURE	BACK/TEST PRESSURE	WIDTH	DIAMETER	WEIGHT
010-24	24.0"	23.5"	24.25"	60 psi	5 psi	4.3"	23.5"	27.0 lbs.
	(610 mm)	(597 mm)	(616 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(597 mm)	(12.25 kg)
010-30	30.0"	29.5"	30.25"	60 psi	5 psi	4.3"	29.0"	90.0 lbs.
	(762 mm)	(749 mm)	(768 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(737 mm)	(40.82 kg)
010-36	36.0"	35.5"	36.25"	60 psi	5 psi	4.3"	35.0"	127.0 lbs.
	(914 mm)	(902 mm)	(921 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(889 mm)	(57.61 kg)
010-42	42.0"	41.5"	42.25"	60 psi	5 psi	4.3"	41.0"	155.0 lbs.
	(1067 mm)	(1054 mm)	(1073 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(1041 mm)	(70.31 kg)
010-48	48.0"	47.5"	48.25"	60 psi	5 psi	4.3"	47.0"	183.0 lbs.
	(1219 mm)	(1207 mm)	(1226 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(1194 mm)	(83.01 kg)
010-54	54.0"	53.5"	54.25"	60 psi	5 psi	4.3"	53.0"	265.0 lbs.
	(1372 mm)	(1359 mm)	(1378 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(1346 mm)	(120.20 kg)
010-60	60.0"	59.5"	60.25"	60 psi	5 psi	4.3"	59.0"	310.0 lbs.
	(1524 mm)	(1511 mm)	(1530 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(1499 mm)	(140.61 kg)
010-66	66.0"	65.5"	66.25"	60 psi	5 psi	4.3"	65.0"	355.0 lbs.
	(1676 mm)	(1664 mm)	(1683 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(1651 mm)	(161.03 kg)
010-72	72.0"	71.5"	72.25"	60 psi	5 psi	4.3"	71.0"	400.0 lbs.
	(1829 mm)	(1816 mm)	(1835 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(1803 mm)	(181.44 kg)
010-78	78.0"	77.5"	78.25"	60 psi	5 psi	4.3"	77.0"	445.0 lbs.
	(1981 mm)	(1969 mm)	(1988 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(1956 mm)	(201.85 kg)
010-84	84.0"	83.5"	84.25"	60 psi	5 psi	4.3"	83.0"	525.0 lbs.
	(2134 mm)	(2121 mm)	(2140 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(2108 mm)	(238.14 kg)
010-90	90.0"	89.5"	90.25"	60 psi	5 psi	4.3"	89.0"	605.0 lbs.
	(2286 mm)	(2273 mm)	(2292 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(2261 mm)	(274.42 kg)
010-96	96.0"	95.5"	96.25"	60 psi	5 psi	4.3"	95.0"	700.0 lbs.
	(2438 mm)	(2426 mm)	(2445 mm)	(4.14 Bar)	(0.34 Bar)	(109 mm)	(2413 mm)	(317.51 kg)

PRODUCTS

Manufactured by Vanderlans & Sons, Inc.



NIGHT CAP PLUGS

Patent # 8,413,689 B1



NIGHT CAP PLUGS



	LANSAS NIGHT CAP PLUGS NON-PRESSURE PLUGS												
PART NUMBER	NOMINAL PIPE SIZE	Concrete Pipe Bell / Spigot	PVC SDR 26 Bell / Spigot	ADS Bell / Spigot	Steel Gas Bell / Spigot	ConTech Corrugated Aluminum	DIP / C900 Bell / Spigot	TOP OF PLUG OD	SHORT FIN GASKET OD	LONG FIN GASKET OD	DRY FIT/ NO GASKET OD	MINIMUM PIPE DIAMITER	MAXIMUM PIPE DIAMITER
650-06	6.0" (305 mm)												
650-08	8.0" (381 mm)						7 7		7	Zu			
650-10	10.0" (457 mm)												
650-12	12.0" (305 mm)	Yes / Yes	Yes (Bell)	Yes / Yes	Yes / Yes	Yes	Yes (Spigot)	13. 1/2	12. 1/4	12. 1/2	11. 5/8	11.5/8	12.3/8
650-15	15.0" (381 mm)	Yes / Yes		Yes / Yes	Yes / Yes	Yes		16. 1/2	15	15. 3/8	14. 1/2	14. 1/2	15.1/4
650-18	18.0" (457 mm)	Yes / Yes		Yes / Yes	Yes / Yes	Yes	16" Ductile Iron Bell	19. 5/8	18. 1/8	18. 1/2	17. 1/2	17. 1/2	18.3/8
650-24	24.0" (610 mm)	Yes / Yes		Yes / Yes	Yes / Yes	Yes		25. 5/8	24. 1/8	24. 5/8	23. 1/2	23. 1/2	24.1/2
650-30	30.0" (762 mm)	Yes / Yes		Yes / Yes	Yes / Yes	Yes		31. 1/4	30. 1/8	30. 1/2	29. 1/2	29. 1/2	30.3/8
650-36	36.0" (914 mm)	Yes / Yes		Yes / Yes	Yes / Yes	Yes		37. 1/2	36. 1/8	36. 1/2	35. 3/8	35. 3/8	35.1/4
650-48	48.0" (1219 mm)												
650-54	54.0" (1372 mm)								P			7	
650-60	60.0" (1524 mm)												

650 series Night Cap Non-Pressure Plugs have the standard gasket fitting most pipe styles and sizes Where "Flip" is noted, the standard gasket simply needs to be flipped on the Night Cap to fit the pipe properly Special Gaskets may be needed for Ductile Iron or C900 pipe Gasket OD must be at least 1/8" larger than pipe ID for the best fit Rated at 0 psi back/test pressure



MECHANICAL PIPE PLUGS

Lansas offers mechanical pipe plugs in a variety of sizes. These plugs are manufactured using cast iron, aluminum, high- impact ABS or nylon with natural rubber or neoprene gaskets. These plugs require no tools to secure in the pipe.

č	Ξ	IGH IM	PACT PI	LASTIC	"POSI-	SEAL"
	PART	NOMINAL		MAXIMUM	MAXIMUN	I BACK PRESSURE
ļ	NUMBER	PIPE SIZE	PIPE DIAMETER	PIPE DIAMETER	AIR	WATER
١	602 Seri	es POSI-SE	AL is for "Er	nd of the P	ipe" instal	lation and use.
	602-04	4.0" (100 mm)	3.78" (96 mm)	4.06" (103 mm)	5 psi (0.34 Bar)	40 ft. OF WATER
	602-06	6.0" (150 mm)	5.77" (147 mm)	6.08" (154 mm)	5 psi (0.34 Bar)	30 ft. OF WATER
	602-08	8.0" (200 mm)	7.76" (197 mm)	8.03" (204 mm)	5 psi (0.34 Bar)	30 ft. OF WATER
y.	605 Seri	es POSI-SE	AL is for "In	iside the P	ipe" instal	lation and use.
	605-04	4.0" (100 mm)	3.78" (96 mm)	4.06" (103 mm)	5 psi (0.34 Bar)	40 ft. OF WATER
	605-06	6.0" (150 mm)	5.77" (147 m m)	6.08" (154 mm)	5 psi (0.34 Bar)	30 ft. OF WATER
	605-08	8.0" (200 mm)	7.76" (197 m m)	8.03" (204 mm)	5 psi (0.34 Bar)	30 ft. OF WATER







CA	ST IRON	"POSI-	SEAL" N	1ECH.	ANICAL
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	BYPASS SIZE	MAXIMUM BACK PRESSURE AIR OR WATER
604-04	4.0" (100 mm)	3.7" (94 mm)	4.05" (103 mm)	0.5"	8 psi (0.55 Bar)
604-06	6.0" (150 mm)	5.6" (142 mm)	6.2" (157 mm)	0.5"	4 psi (0.27 Bar)
604-08	8.0" (200 mm)	7.6" (193 mm)	8.2" (208 mm)	0.5"	4 psi (0.27 Bar)
604-10	10.0" (250 mm)	9.6" (244 mm)	10.2" (259 mm)	0.5"	3 psi (0.20 Bar)
604-12	12.0" (300 mm)	11.6" (295 mm)	12.2" (310 mm)	1.0"	2.5 psi (0.17 Bar)
604-15	15.0" (375 mm)	14.7" (374 mm)	15.2" (386 mm)	1.0"	2.5 psi (0.17 Bar)
604-18	18.0" (450 mm)	17.7" (450 mm)	18.2" (462 mm)	1.25"	2.5 psi (0.17 Bar)



CAS	T ALUN	MUNIN	"POSI-SE	AL" I	MECHANICAL
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	BYPASS SIZE	MAXIMUM BACK OR TEST PRESSURE
603-08	8.0" (200 mm)	7.75" (197 mm)	8.25" (209 mm)	1.0"	AIR OR WATER TO 7 psi (0.48 Bar)
603-10	10.0" (250 mm)	9.25" (235 mm)	10.25" (260 mm)	1.0"	AIR OR WATER TO 7 psi (0.48 Bar)
603-12	12.0" (300 mm)	11.4" (290 mm)	12.25" (311 mm)	1.0"	AIR OR WATER TO 7 psi (0.48 Bar)
603-15	15.0" (375 mm)	14.5" (368 mm)	15.25" (387 mm)	1.0"	AIR OR WATER TO 5 psi (0.34 Bar)
603-18	18.0" (450 mm)	17.5" (444 mm)	18.25" (463 mm)	1.0"	AIR OR WATER TO 5 psi (0.34 Bar)
603-24	24.0" (600 mm)	23.6" (599 mm)	24.75 (628 mm)	2.0"	AIR OR WATER TO 5 psi (0.34 Bar)
603-30	30.0" (750 mm)	29.3" (744 mm)	30.75" (781 mm)	2.0"	AIR OR WATER TO 5 psi (0.34 Bar)
603-36	36.0" (900 mm)	34.6" (879 mm)	36.75" (933 mm)	2.0"	AIR OR WATER TO 5 psi (0.34 Bar)



603 SERIES



BLA	ICK PLA	STIC MI	ECHANIC	CAL W	ING NUT PLUG
PART NUMBER	NOMINAL PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	BYPASS SIZE	MAXIMUM BACK OR TEST PRESSURE
611-06	6.0" (150 mm)	5.5" (140 mm)	7.0" (178 mm)	N/A	AIR OR WATER TO 5 psi (0.34 Bar)
611-08	8.0" (200 mm)	7.9" (200 mm)	9.0" (228 mm)	N/A	AIR OR WATER TO 5 psi (0.34 Bar)
611-10	10.0" (250 mm)	9.5" (241 mm)	11.0" (279 mm)	0.5"	AIR OR WATER TO 5 psi (0.34 Bar)
611-12	12.0" (300 mm)	11.5" (292 mm)	13.0" (330 mm)	0.5"	AIR OR WATER TO 5 psi (0.34 Bar)
611-15	15.0" (375 mm)	14.5" (368 mm)	16.0" (406 mm)	0.5"	AIR OR WATER TO 5 psi (0.34 Bar)
611-18	18.0" (450 mm)	17.5" (445 mm)	19.0" (482 mm)	0.5"	AIR OR WATER TO 5 psi (0.34 Bar)

SECURE • RELIABLE • INEXPENSIVE • PROVEN • EASY

DOUBLE BLADDER LOW & HIGH PRESSURE JOINT TESTERS PA

Patent #4.070.904

THE LANSAS DOUBLE BLADDER (DB) LOW & HIGH PRESSURE JOINT TESTERS design provides up to 9 inches of expansion on the bladders allowing for easier insertion into the pipe, easier maneuvering and placement of the joint tester at each joint, as well as allowing for testing in a range of pipe types and deflected (up to 5%) fiberglass and plastic pipes.

Fabric reinforced bladder for longer lasting durability.

- Tests with air or water.
- Replacement bladders are field replaceable.
- Heavy duty adjustable wheels for smooth transitions between joints.
- Redesigned panel



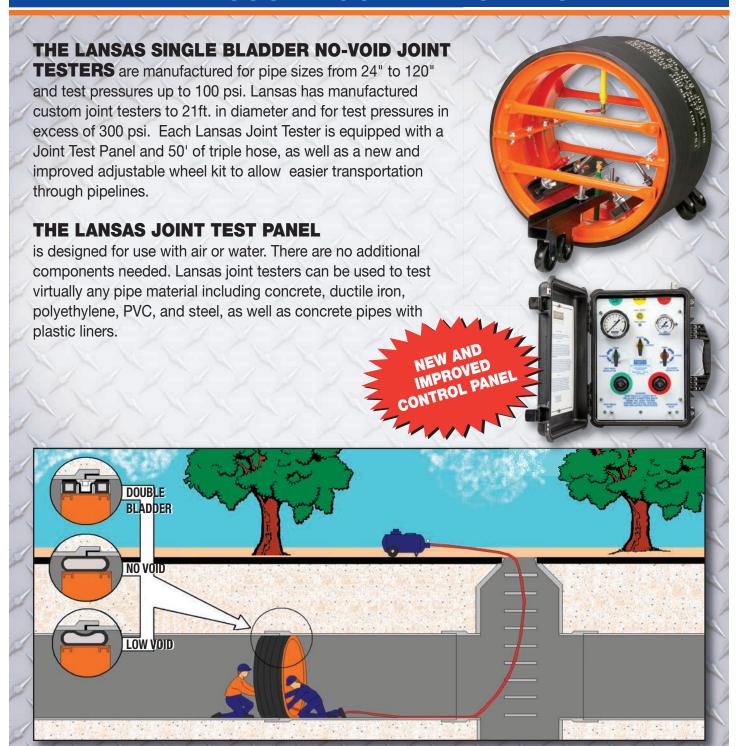
	NUMBER	INFLATION PRESSURE	TESTING PRESSURE	NUMBER	INFLATION PRESSURE	TESTING PRESSURE	PIPE SIZE	PIPE DIAMETER	PIPE DIAMETER	OF UNIT	
١	433-24	60 psi	20 psi	436-24	160 psi	100 psi	24.0"	22.5"	25.5"	16"	
	433 24	(4.14 Bar)	(1.38 Bar)	430 24	(11.03 Bar)	(6.89 Bar)	(610 mm)	(572 mm)	(648 mm)	(406 mm)	
2	433-27	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-27	160 psi (11.03 Bar)	100 psi (6.89 Bar)	27.0" (686 mm)	25.5" (648 mm)	28.5" (724 mm)	16" (406 mm)	
١	433-30	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-30	160 psi (11.03 Bar)	100 psi (6.89 Bar)	30.0" (762 mm)	28.5" (724 mm)	31.5" (800 mm)	16" (406 mm)	3
ž	433-33	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-33	160 psi (11.03 Bar)	100 psi (6.89 Bar)	33.0" (838 mm)	31.0" (788 mm)	35.0" (889 mm)	20" (508 mm)	7
	433-36	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-36	160 psi (11.03 Bar)	100 psi (6.89 Bar)	36.0" (914 mm)	34.0" (864 mm)	38.0" (965 mm)	20" (508 mm)	L
	433-39	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-39	160 psi (11.03 Bar)	100 psi (6.89 Bar)	39.0" (991 mm)	37.0" (940 mm)	41.0" (1041 mm)	20" (508 mm)	1
	433-42	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-42	160 psi (11.03 Bar)	100 psi (6.89 Bar)	42.0" (1067 mm)	39.5" (1003 mm)	44.5" (1130 mm)	20" (508 mm)	l
	433-45	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-45	160 psi (11.03 Bar)	100 psi (6.89 Bar)	45.0" (1143 mm)	42.5" (1080 mm)	47.5" (1207 mm)	24" (610 mm)	N.
	433-48	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-48	160 psi (11.03 Bar)	100 psi (6.89 Bar)	48.0" (1219 mm)	45.5" (1156 mm)	50.5" (1283 mm)	24" (610 mm)	l
9	433-54	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-54	160 psi (11.03 Bar)	100 psi (6.89 Bar)	54.0" (1372 mm)	51.0" (1295 mm)	57.0" (1448 mm)	24" (610 mm)	V
7	433-60	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-60	160 psi (11.03 Bar)	100 psi (6.89 Bar)	60.0" (1524 mm)	57.0" (1448 mm)	63.0" (1600 mm)	24" (610 mm)	
N	433-66	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-66	160 psi (11.03 Bar)	100 psi (6.89 Bar)	66.0" (1676 mm)	62.5" (1588 mm)	69.5" (1765 mm)	24" (610 mm)	
1	433-72	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-72	160 psi (11.03 Bar)	100 psi (6.89 Bar)	72.0" (1829 mm)	68.0" (1727 mm)	76.0" (1930 mm)	24" (610 mm)	П
1	433-78	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-78	160 psi (11.03 Bar)	100 psi (6.89 Bar)	78.0" (1981 mm)	74.0" (1880 mm)	82.0" (2083 mm)	24" (610 mm)	
1	433-84	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-84	160 psi (11.03 Bar)	100 psi (6.89 Bar)	84.0" (2134 mm)	79.5" (2019 mm)	88.5" (2248 mm)	24" (610 mm)	
X	433-90	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-90	160 psi (11.03 Bar)	100 psi (6.89 Bar)	90.0" (2286 mm)	85.5" (2172 mm)	94.5" (2400 mm)	24" (610 mm)	
	433-96	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-96	160 psi (11.03 Bar)	100 psi (6.89 Bar)	96.0" (2400 mm)	91.0" (2311 mm)	101.0" (2565 mm)	24" (610 mm)	1
8	433-102	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-102	160 psi (11.03 Bar)	100 psi (6.89 Bar)	102.0" (2591 mm)	97.0" (2464 mm)	107.0" (2718 mm)	30.0" (762 mm)	
	433-108	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-108	160 psi (11.03 Bar)	100 psi (6.89 Bar)	108.0" (2743 mm)	102.5" (2604 mm)	113.5" (2883 mm)	30.0" (762 mm)	1
	433-114	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-114	160 psi (11.03 Bar)	100 psi (6.89 Bar)	114.0" (2896 mm)	108.0" (2743 mm)	120.0" (3048 mm)	30.0" (762 mm)	
	433-120	60 psi (4.14 Bar)	20 psi (1.38 Bar)	436-120	160 psi (11.03 Bar)	100 psi (6.89 Bar)	120.0" (3048 mm)	114.0" (2896 mm)	126.0" (3200 mm)	30.0" (762 mm)	0

All LANSAS Joint Testers are sold with a Test Control Panel and 50' Triple Hose Low Pressure Joint Testers are also avaliable with an aluminum frame.



SINGLE BLADDER LOW & HIGH PRESSURE JOINT TESTERS

Patent #4,421,698



201	PSI TEST PRESSURE (L	OW)	100	PSI TEST PRESSURE (H	нен)		SPECIFICATIONS		
	REQUIRED	MAXIMUM		REQUIRED	MAXIMUM		MINIMUM	MAXIMU	
PART	INFLATION	TESTING	PART	INFLATION	TESTING	NOMINAL	PIPE	PIPE	
NUMBER	PRESSURE	PRESSURE	NUMBER	PRESSURE	PRESSURE	PIPE SIZE	DIAMETER	DIAMET	
	60 psi	20 psi		160 psi	100 psi	24.0"	23.0"	24.25	
432-24	(4.14 Bar)	(1.38 Bar)	434-24	(11.03 Bar)	(6.89 Bar)	(610 mm)	(584 mm)	(616 mi	
	60 psi	20 psi		160 psi	100 psi	27.0"	26.0"	27.25	
432-27	(4.14 Bar)	(1.38 Bar)	434-27	(11.03 Bar)	(6.89 Bar)	(686 mm)	(660 mm)	(692 mi	
	60 psi	20 psi		160 psi	100 psi	30.0"	29.0"	30.25	
432-30	(4.14 Bar)	(1.38 Bar)	434-30	(11.03 Bar)	(6.89 Bar)	(762 mm)	(737 mm)	(768 m	
	60 psi	20 psi		160 psi	100 psi	33.0"	32.0"	33.25	
432-33	(4.14 Bar)	(1.38 Bar)	434-33	(11.03 Bar)	(6.89 Bar)	(838 mm)	(813 mm)	(845 mi	
	60 psi	20 psi		160 psi	100 psi	36.0"	35.0"	36.25	
432-36	(4.14 Bar)	(1.38 Bar)	434-36	(11.03 Bar)	(6.89 Bar)	(900 mm)	(889 mm)	(921 mr	
	60 psi	20 psi		160 psi	100 psi	39.0"	38.0"	39.25	
432-39	(4.14 Bar)	(1.38 Bar)	434-39	(11.03 Bar)	(6.89 Bar)	(914 mm)	(965 mm)	(997 m	
	60 psi	20 psi		160 psi	100 psi	42.0"	41.0"	42.25	
432-42	'		434-42		· ·	42.0 (1067 mm)	(1041 mm)		
	(4.14 Bar)	(1.38 Bar)		(11.03 Bar)	(6.89 Bar)	(1067 mm) 45.0"	(1041 mm) 44.0"	(1073 m 45.25	
432-45	60 psi	20 psi	434-45	160 psi	100 psi				
	(4.14 Bar)	(1.38 Bar)		(11.03 Bar)	(6.89 Bar)	(1143 mm)	(1118 mm)	(1149 m	
432-48	60 psi	20 psi	434-48	160 psi	100 psi	48.0"	47.0"	48.25	
	(4.14 Bar)	(1.38 Bar)		(11.03 Bar)	(6.89 Bar)	(1219 mm)	(1194 mm)	(1226 m	
432-54	60 psi	20 psi	434-54	160 psi	100 psi	54.0"	53.0"	54.25	
	(4.14 Bar)	(1.38 Bar)		(11.03 Bar)	(6.89 Bar)	(1372 mm)	(1346 mm)	(1378 m	
432-60	60 psi	20 psi	434-60	160 psi	100 psi	60.0"	59.0"	60.25	
	(4.14 Bar)	(1.38 Bar)		(11.03 Bar)	(6.89 Bar)	(1524 mm)	(1499 mm)	(1530 m	
432-66	60 psi	20 psi	434-66	160 psi	100 psi	66.0"	65.0"	66.25	
	(4.14 Bar)	(1.38 Bar)		(11.03 Bar)	(6.89 Bar)	(1676 mm)	(1651 mm)	(1683 m	
432-72	60 psi	20 psi	434-72	160 psi	100 psi	72.0"	71.0"	72.25	
432 72	(4.14 Bar)	(1.38 Bar)	454 72	(11.03 Bar)	(6.89 Bar)	(1829 mm)	(1803 mm)	(1835 m	
432-78	60 psi	20 psi	434-78	160 psi	100 psi	78.0"	77.0"	78.25	
432 70	(4.14 Bar)	(1.38 Bar)	454 76	(11.03 Bar)	(6.89 Bar)	(1981 mm)	(1956 mm)	(1988 m	
432-84	60 psi	20 psi	434-84	160 psi	100 psi	84.0"	83.0"	84.25	
432-04	(4.14 Bar)	(1.38 Bar)	434-64	(11.03 Bar)	(6.89 Bar)	(2134 mm)	(2108 mm)	(2140 m	
432-90	60 psi	20 psi	434-90	160 psi	100 psi	90.0"	89.0"	90.25	
452-90	(4.14 Bar)	(1.38 Bar)	454-90	(11.03 Bar)	(6.89 Bar)	(2286 mm)	(2261 mm)	(2292 m	
422.00	60 psi	20 psi	424.00	160 psi	100 psi	96.0"	95.0"	96.25	
432-96	(4.14 Bar)	(1.38 Bar)	434-96	(11.03 Bar)	(6.89 Bar)	(2438 mm)	(2413 mm)	(2445 m	
422 402	60 psi	20 psi	424 402	160 psi	100 psi	102.0"	101.0"	102.25	
432-102	(4.14 Bar)	(1.38 Bar)	434-102	(11.03 Bar)	(6.89 Bar)	(2591 mm)	(2565 mm)	(2597 m	
400.465	60 psi	20 psi	404	160 psi	100 psi	108.0"	107.0"	108.25	
432-108	(4.14 Bar)	(1.38 Bar)	434-108	(11.03 Bar)	(6.89 Bar)	(2743 mm)	(2718 mm)	(2750 m	
	60 psi	20 psi		160 psi	100 psi	114.0"	113.0"	114.25	
432-114	(4.14 Bar)	(1.38 Bar)	434-114	(11.03 Bar)	(6.89 Bar)	(2896 mm)	(2870 mm)	(2902 m	
	60 psi	20 psi		160 psi	100 psi	120.0"	119.0"	120.25	
432-120	(4.14 Bar)	(1.38 Bar)	434-120	(11.03 Bar)	(6.89 Bar)	(3048 mm)	(3023 mm)	(3054 m	

All Lansas® Joint Testers are sold with a Test Control Panel and 50' Triple Hose





MANHOLE VACUUM TESTING EQUIPMENT

"Smart-BoxTM" Vacuum Kit (Part No. 151-812) Includes:

- (2) 050-812 8" x 12" Plugs
- (2) 321-20 20' Poly Rope Inflation Line with Gauge
- 110-38 38" Flat Plate Test Head
- 123-05 SUPER-VAC™ (Venturi) Vac Generator
- Durable Storage Case

	VACUUM KITS	
PART NUMBER	ITEM DESCRIPTION	USEAGE RANGE
100-2127	Vacuum Test Kit with 21.5"- 27.5" Test Head	21.5" - 27.5" (546 - 699 mm)
100-38	Vacuum Test Kit with 38" Flat Plate	14" - 34" (356 - 864 mm)
150-812	SMART-BOX™ with 21.5"- 27.5" Test Head	21.5"- 27.5" (546 - 699 mm)
151-812	SMART-BOX™ with 38" Flat Plate	14" - 34" (356 - 864 mm)

Vacuum Test Kit Each Vacuum Test Kit (100 series) contains a 40 CFM Vacuum Pump with Honda Engine 25' of Vacuum hose and your choice of either a 38" Flat Plate or 21.5"-27.5" Test Head.



The Lansas Super-Vac[™] is a lower cost alternative for manhole vacuum testing. The new Super-Vac[™] will pull over 40 CFM @ 10" of mercury. The Super-Vac[™] will deliver more than 50% more volume than others on the market. The unit has no moving parts nor does it require any maintenance. Maximum vacuum is reached with an air source producing 80 CFM or better.





Part No. 151-812

LANSAS ENGINE DRIVEN VACUUM PUMP

The industrial class Honda Engine is equipped with a low oil alert shut down to protect your engine, along with an oil lubricated Gast Vacuum Pump that will pull up to 40 CFM at 00" Hg and 17 CFM at 15" Hg. Unlike non lubricated pumps this unit will provide years of trouble free high performance.



MANHOLE VACUUM TESTING EQUIPMENT



CUSTOM 14" TEST PLATE FOR VACUUM PUMPS

LANSAS MULTI-SIZE

TEST HEADS are designed with a robust bladder on a lightweight aluminum frame. The reinforced field replaceable bladder gives us maximum expansion and will cover the widest size range in the industry. The Super Wingnut™ makes adjusting the height of the unit quick and easy. All of our Test Heads have a 1 ½" vacuum port, shut off valve, gauge measuring up to 30" of mercury, vacuum relief valve and a durable support bar. This unit is designed for use in the openings of manholes or other precast concrete structures.



THE LANSAS FLAT PLATES are fabricated of lightweight aluminum. Both the 38" and 44" sizes have a thick and durable neoprene closed cell foam pad bonded to the plate. The soft pad makes it easy to get a vacuum seal and yet durable enough to be used over and over. The plate will seal on the manhole frame or cone. It will seal any flat surface such as septic systems, vaults and other precast concrete structures.

THE PLATE SAVER™ PROTECTIVE
STORAGE COVER – Most damage is done to the
foam pad during transportation and storage. For a minimal
investment you can add years to the life of the pad.

VACUUM TESTING EQUIPTMENT						
PART NUMBER	DESCRIPTION	USAGE RANGE	REQUIRED INFLATION	MAXIMUM VACUUM		
110-2127	Pneumatic Vacuum Test Head	21.5" - 27.5" (546 - 699 mm)	30 psi (2.1 Bar)	10" Hg		
110-2733	Pneumatic Vacuum Test Head	27.0" - 33.0" (686 - 838 mm)	30 psi (2.1 Bar)	10" Hg		
110-3036	Pneumatic Vacuum Test Head	30.0" - 36.0" (762 - 914 mm)	30 psi (2.1 Bar)	10" Hg		
110-38	38" Flat Plate	14.0" - 34.0" (356 - 864 mm)	N/A	10" Hg		
110-44	44" Flat Plate	14.0" - 40.0" (356 - 1016 mm)	N/A	10" Hg		
121-00	5.5 HP Honda Engine	Driven Vacuum Pump	(40 CFM) Gast 3	040 series		
123-05*	SUPER-1	/AC™ Vacuum Genera	ator (Venturi)			
ACCESSORIES						
110-38PC	Plate-Saver™ Protective Storage Cover - 38" Flat Plate					
110-44PC	Plate-Saver™ Protective Storage Cover - 44" Flat Plate					
125-25	25 ft. x 3/4" Vacuum Hose					
131-30	0 - 30 Hg Vacuum Gauge - Liquid Filled					
140-00	Wheel Kit - Supplied with Engine Driven Pump					
REPLACEMENT PARTS						
110-2127B	Replacement Bladder - 21.5" - 27.5" Vacuum Test Head					
110-2733B	Replacement Bladder - 27.0" - 33.0" Vacuum Test Head					
110-3036B	Replacement Bladder - 30.0" - 36.0" Vacuum Test Head					
110-38F	Replacement Foam & Adhesive - 38" Flat Plate					
110-44F	Replacement Foam & Adhesive - 44" Flat Plate					

^{*} Maximum Vacuum is reached with an air source producing 80 CFM or better.



AIR TESTING KITS



"SMART BOX™" LINE ACCEPTANCE AIR TEST KIT

contains an air test panel, your choice of test plugs, 50' triple hose, 30' poly rope inflation line with gauge and a hand pump; all contained in a heavy duty storage container.

PACKAGE OPTIONS:

The SMART-BOX[™] Line Acceptance Air Test Kit can be configured with every Multi-Size Domehead[™] Front or Back Plug in the Lansas Plug line. Please call for pricing on larger plugs!

THE LINE ACCEPTANCE KIT

contains an air test control panel, 50' triple hose, 20' poly rope, inflation line with gauge and a hand pump.



THE LANSAS LINE ACCEPTANCE / LEAK LOCATING KITS contain virtually all of the components necessary to get the job done. All that's needed is your choice of Lansas test plugs. The two kits differ only in the hose reel. The hose reel is an all welded steel frame and spool with 500' of triple test hose and an air swivel. Model 465-500 has a lubricated air driven motor and a control valve for turning the reel. Model 466-500 has a hand crank for manual operation.

Kit includes: Air Test panel, 10' hose (panel – reel), hand pump, 20' Poly Rope Inflation Line with gauge (321-20), manhole jack (2), manhole winch, reel with 500' of triple hose (hand crank or air motor driven optional), and 22' of space hose.

Part No. 460-500 – Kit with Manual Hose Reel Part No. 461-500 – Kit with Motorized Hose Reel

AIR TESTING ACCESSORIES

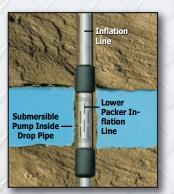




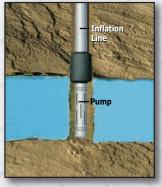
WELL-PACKERS

THE LANSAS WELL-PACKERS have many applications. They are commonly used for taking water samples from different levels in the well. Another use is to isolate sections of the well to prevent contaminates from entering the pump system.

All Lansas Packers are made to order for use in bore holes or casings ranging 1"- 36" using aluminum, carbon or stainless steel. The bladders utilize multiple layers of fabric reinforcement and can be designed for inflation pressures in excess of 500 psi. You may choose to use nitrile, neoprene or natural rubber.



Between Packer Sampling



Complete our
CUSTOM WELL-PACKER
INFORMATION FORM
at the LANSAS website
or call now for pricing!

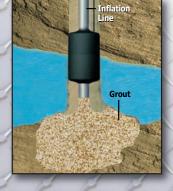
18" Well-Packer

ansas



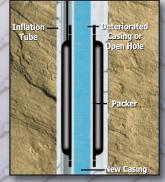
8" Custom Well-Packer

Below Packer Sampling



Relining
Deteriorated
Casing

⋖ Grouting



12" Well-Packer



SPOT REPAIR CARRIER



was designed for use with most of the Spot or Point Repair Systems on the market today. For maximum flexibility and durability our carriers are designed with a fabric reinforced natural rubber bladder. The ball style ends and small diameters allow these units to pass through most offset joints. Wheels are also available by special order.

Custom Designs Are Always™ Available

				SPOT REPA PIPELINE SECTION					
PART NUMBER	FOR PIPE SIZE	REQUIRED INFLATION PRESSURE		XIMATE CONTACT A RED INFLATION IN VA PIPE DIAMETERS		MAXIMUM PIPE DIAMETER	DEFLATED DIAMETER CARRIER BODY	BY-PASS SIZE (HOSE I.D.)	INFLATION PORT SIZE
ST CONTACT W	TTH PIPE < 15 psi		6"	8"	10"				
805-610-05	6.0" - 10.0" (152-254 mm)	25 psi (1.72 Bar)	50.0" (1270 mm)	50" (1270 mm)	47" (1194 mm)	10.25" (260 mm)	4.25" (108 mm)	1.5" (38 mm)	1/8" (F) NF
805-610-08	6.0" - 10.0" (152-254 mm)	25 psi (1.72 Bar)	85.0" (2159 mm)	85" (2159 mm)	83" (2108 mm)	10.25" (260 mm)	4.25" (108 mm)	1.5" (38 mm)	1/8" (F) NP
805-610-10	6.0" - 10.0" (152-254 mm)	25 psi (1.72 Bar)	109.0" (2769 mm)	109" (2769 mm)	107" (2718 mm)	10.25" (260 mm)	4.25" (108 mm)	1.5" (38 mm)	1/8" (F) NP
805-610-12	6.0" - 10.0" (152-254 mm)	25 psi (1.72 Bar)	133.0" (3378 mm)	133" (3378 mm)	131" (3327 mm)	10.25" (260 mm)	4.25" (108 mm)	1.5" (38 mm)	1/8" (F) NP
805-610-15	6.0" - 10.0" (152-254 mm)	25 psi (1.72 Bar)	179.0" (4547 mm)	179" (4547 mm)	177" (4496 mm)	10.25" (260 mm)	4.25" (108 mm)	1.5" (38 mm)	1/8" (F) NP
RST CONTACT W	ITH PIPE < 15 psi		8"	10"	12"				
805-812-05	8.0" - 12.0" (203-305 mm)	25 psi (1.72 Bar)	48.0" (1219 mm)	46.0" (1168 mm)	45.0" (1143 mm)	12.25" (311 mm)	5.25" (133 mm)	2.0" (50.8 mm)	1/4" (F) NP
805-812-08	8.0" - 12.0" (203-305 mm)	25 psi (1.72 Bar)	84.0" (2134 mm)	82.0" (2082 mm)	81.0" (2057 mm)	12.25" (311 mm)	5.25" (133 mm)	2.0" (50.8 mm)	1/4" (F) NF
805-812-10	8.0" - 12.0" (203-305 mm)	25 psi (1.72 Bar)	108.0" (2743 mm)	106.0" (2692 mm)	105.0" (2667 mm)	12.25" (311 mm)	5.25" (133 mm)	2.0" (50.8 mm)	1/4" (F) NF
805-812-12	8.0" - 12.0" (203-305 mm)	25 psi (1.72 Bar)	132.0" (3353 mm)	130.0" (3302 mm)	129.0" (3277 mm)	12.25" (311 mm)	5.25" (133 mm)	2.0" (50.8 mm)	1/4" (F) NP
805-812-15	8.0" - 12.0" (203-305 mm)	25 psi (1.72 Bar)	168.0" (4267 mm)	164.0" (4166 mm)	163.0" (4140 mm)	12.25" (311 mm)	5.25" (133 mm)	2.0" (50.8 mm)	1/4" (F) NP
RST CONTACT W	ITH PIPE < 15 psi	(=::===:;	12"	15"	18"	(222)	(,	(,	
805-1218-05	12.0" - 18.0" (305-457 mm)	20 psi (1.38 Bar)	49.0" (1245 mm)	44.0" (1118 mm)	43.0" (1092 mm)	18.25" (464 mm)	8.75" (222 mm)	3.0" (76.2 mm)	1/4" (F) NP
805-1218-08	12.0" - 18.0" (305-457 mm)	20 psi (1.38 Bar)	85.0" (2159 mm)	80.0" (2032 mm)	79.0" (2007 mm)	18.25" (464 mm)	8.75" (222 mm)	3.0" (76.2 mm)	1/4" (F) NP
805-1218-10	12.0" - 18.0" (305-457 mm)	20 psi (1.38 Bar)	109.0" (2767 mm)	104.0" (2642 mm)	103.0" (2616 mm)	18.25" (464 mm)	8.75" (222 mm)	3.0" (76.2 mm)	1/4" (F) NP
805-1218-12	12.0" - 18.0" (305-457 mm)	20 psi (1.38 Bar)	133.0" (3378 mm)	128.0" (3251 mm)	127.0" (3226 mm)	18.25" (464 mm)	8.75" (222 mm)	3.0" (76.2 mm)	1/4" (F) NF
805-1218-15	12.0" - 18.0" (305-457 mm)	20 psi (1.38 Bar)	169.0" (4293 mm)	164.0" (4166 mm)	163.0" (4140 mm)	18.25" (464 mm)	8.75" (222 mm)	3.0" (76.2 mm)	1/4" (F) NP
RST CONTACT W		,,	18"	20"	24"	,	,	(
805-1824-05	18.0" - 24.0" (457-610 mm)	15 psi (1.03 Bar)	47.0" (1194 mm)	44.0" (1118 mm)	42.0" (1067 mm)	24.25" (616 mm)	14.75" (375 mm)	4.0" (101.6 mm)	1/4" (F) NF
805-1824-08	18.0" - 24.0" (457-610 mm)	15 psi (1.03 Bar)	83.0" (2108 mm)	80.0" (2032 mm)	78.0" (1981 mm)	24.25" (616 mm)	14.75" (375 mm)	4.0" (101.6 mm)	1/4" (F) NF
805-1824-10	18.0" - 24.0" (457-610 mm)	15 psi (1.03 Bar)	107.0" (2718 mm)	104.0" (2642 mm)	102.0" (2591 mm)	24.25" (616 mm)	14.75" (375 mm)	4.0" (101.6 mm)	1/4" (F) NF
805-1824-12	18.0" - 24.0" (457-610 mm)	15 psi (1.03 Bar)	131.0" (3327 mm)	128.0" (3251 mm)	126.0" (3200 mm)	24.25" (616 mm)	14.75" (375 mm)	4.0" (101.6 mm)	1/4" (F) NF
805-1824-15	18.0" - 24.0" (457-610 mm)	15 psi (1.03 Bar)	167.0" (4242 mm)	164.0" (4166 mm)	162.0" (4115 mm)	24.25" (616 mm)	14.75" (375 mm)	4.0" (101.6 mm)	1/4" (F) NF



IS A MASTER DIST

Manufactured by Vanderlans & Sons, Inc.

RIPCORD VENTILATOR - STRINGER KITS

Serious CFM for a Safe Manhole!

HURCO's RIPCORD" and Super RIPCORD" feature precision balanced cast aluminum impellers for maximum air movement at high resistance. (See www.lansas.com for additional specifications.) **HURCO** also offers a "Stringer Kit" for retrieving ropes and cables for TV inspection equipment, cleaning equipment and deflection gauges.





DEFLECTION GAUGES (Aluminum or Steel)



No Other Gauge MEASURES UP

HURCO's Stationary Steel Gauges, Multi-Size Steel Gauges and new aluminum Whistle Gauges[™] are manufactured with exact laser precision, clearly marked and serialized with part number and ASTM information, and the industry's only full line of gauges manufactured with the correct number of skids to accurately gauge deflection. These gauges are field certifiable without proving rings, sized to fit through 24" manhole openings and powder coated for a durable finish.

STRINGER KITS, ROPE REELS, PARACHUTES



Retrieving and Running Ropes and Cables MADE EASY!

HURCO also offers a "Stringer Kit," Rope Reels and Parachutes for running and retrieving ropes and cables for close-circuit TV gear, cleaning equipment and their own Whistle Gauge, aluminum deflection gauge. Reels are available with nylon braided rope in 1/8", 1/4" and 3/8" diameters and lengths of 500 or 1,000 feet to meet every need. The **HURCO** Whistle Gauge can be run through pipe with a parachute and it is the fastest way to test. Manhole to manhole in less than 40 seconds, you'll never pull another deflection gauge by hand again.



RIPCORD SMOKER AND SUPER RIPCORD SMOKER



We're not just **Blowin' Smoke!**

Now equipped with the **Superjet**™ high performance and super heating muffler which atomizes the LiquiSmoke[™] fluid resulting in nearly 100% burn. HURCO has the World's Most Complete Smoke Testing System. Efficient and cost effective, smoke testing has become the world-wide standard for finding leaks in sewer and plumbing systems and HURCO is the standard bearer providing all you need to manage a complete smoke testing program better and more profitably.

HYDROSTATIC TEST PUMPS (OLD FAITHFUL)

We're **Pumped Up** for our water main test!

Hydrostatic testing insures the quality installation of new or repaired water mains and sewer force mains. **HURGO**'s line of hydrostatic test pumps are engineered for reliability and durability with low cost maintenance and nearly wear-free operation. **HURCO** pumps can handle up to 10% chlorine solutions and has a unique manifold system which eliminates leak points, reducing the amount of work required to repair the pump or replace diaphragms. It also features a bypass relieve valve reducing the risk of pump damage.



RE-ROUNDER

Repair Pipes Safely without Digging using the Re-Rounder!

With the **HURCO** Re-Rounder you can save time and money, eliminate dangerous work areas and avoid property damage by re-rounding deflected flexible pipe underground. Re-rounding consolidates and reshapes the soil around the pipe allowing it to retain its memory and shape. HURCO's smooth taper design and cleaner disc will not scar or damage pipe and design sizes run from 4" to as large as needed, built to your requirements. Combine HURCO's Winch System, Cable Puller, and Roller Guides for a "turn-key" system to make the job easier and quicker.





CUSTOM PRODUCTS



The new completely custom mechanical plug by Lansas is available with or without a removable by-pass. Bladders can be constructed using any type of elastomeric compound including all types and grades of rubber and silicone. For the roughest and most extreme environments and harshest chemicals we have hastelloy c276 available. This plug can be built and shipped in short order. In some cases these plugs have been built and shipped the same day.

Custom made High Pressure High Joint Tester with air actuated restraints. This Joint Tester was used in a special application of a suspended pipeline with the restraints keeping the pipes from separating during the joint test.

Custom Disc Plugs





WHAT CAN DO FOR YOU?



Butterfly Valve.



"EZ-PLUG™" ADAPTERS & ACCESSORIES



"E-Z PLUG" ADAPTERS & ACCESSORIES				
PART NUMBER	ITEM DESCRIPTION			
700-00	E-Z Plug Adapter (bolt on)			
705-00	E-Z Plug Adapter (by-pass)			
711-23	Telescoping Fiberglass Pole			

Plugs, Poles, and Adapters sold separately.

THE LANSAS "E-Z PLUG™" SYSTEM

is designed to provide a safe, fast, and cost effective method for plugging gravity flow pipe lines. The "E-Z Plug™" system will utilize an

adapter and either a new or existing single or multi-size test plug or by-pass plug. By using the "E-Z Plug™" system you will eliminate the need to set up for confined space entry when installing test plugs. The time required to install a test plug will be reduced to only a few minutes. The cost will be reduced by thousands of dollars by eliminating ventilators, safety harnesses, gas detectors, and other costly equipment. The Lansas "E-Z Plug™" system is designed to save time and money on every job. The "EZ-Plug™" adapter can be used on any plug that has a removable 3/8" eye-bolt.

8"x12" Back shown

with a model No. 700

E-Z Plug Adaptor

MULTI-SIZE WASHING BALLS



THE LANSAS MULTI-SIZE WASHING BALLS have a similar design to the original Wayne Ball. This design, along with adequate head pressure, creates a water vortex action along the pipe walls. This action will wash away packed sand, sludge, rock, grease, and other debris. The Multi-Size Washing Ball is built with the same design and construction as our Domehead™ plugs. These balls have a water fill port that allows the user to control the buoyancy. This feature enhances the performance of these products.

MULTI-SIZE WASHING BALLS							
	FOR		RANGE OF USE		PRODUCT DIMENSIONS		
PART NUMBER	PIPE SIZE	MINIMUM PIPE DIAMETER	MAXIMUM PIPE DIAMETER	REQUIRED INFLATION PRESSURE	LENGTH	DEFLATED DIAMETER	WEIGHT
210-1518	15.0" - 18.0" (381 - 457 mm)	14.5" (368 mm)	18.5" (470 mm)	INFLATE	25.0" (635 mm)	10.0" (254 mm)	18.0 lbs. (8.16 kg)
210-1824	18.0" - 24.0" (457 - 610 mm)	17.5" (445 mm)	24.5" (622 mm)	UNTIL THE	32.0" (813 mm)	14.0" (356 mm)	50.0 lbs. (22.68 kg)
210-2030	20.0" - 30.0" (508 - 762 mm)	19.5" (495 mm)	30.5" (775 mm)	WASH BALL	42.0" (1067 mm)	16.0" (406 mm)	60.0 lbs. (27.22 kg)
210-2436	24.0" - 36.0" (624 - 914 mm)	23.0" (584 mm)	36.5" (927 mm)	JUST FITS	55.0" (1397 mm)	16.0" (406 mm)	80.0 lbs. (36.29 kg)
210-3648	36.0" - 48.0" (914 - 1219 mm)	35.0" (889 mm)	48.5" (1232 mm)	THE PIPE	84.0" (2134 mm)	22.0" (559 mm)	120.0 lbs. (54.43 kg)
210-4860	48.0" - 60.0" (1219 - 1524 mm)	47.0" (1194 mm)	60.5" (1537 mm)	SNUG	76.0" (1930 mm)	34.0" (864 mm)	175.0 lbs. (79.38 kg)

ACCESSORIES



HOSES AND ACCESSORIES					
PART NUMBER	ITEM DESCRIPTION	LENGTH			
320-20		20 ft. (6 meters)			
320-30	POLY LIFT ROPE/INFLATION HOSE (1/4" I.D.)	30 ft. (9 meters)			
320-40	, , , , , , , , , , , , , , , , , , ,	40 ft. (12 meters)			
321-20		20 ft. (6 meters)			
321-30	POLY LIFT ROPE/INFLATION HOSE WITH GAUGE ASSEMBLY (1/4" I.D.)	30 ft. (9 meters)			
321-40	· · · ·	40 ft. (12 meters)			
323-20		20 ft. (6 meters)			
323-30	DURA-LIFT ROPE/INFLATION HOSE (3/8" HYDRAULIC HOSE) WITH GAUGE	30 ft. (9 meters)			
323-40	,	40 ft. (12 meters)			
330-02		2 ft. (60.9 cm)			
330-03		3 ft. (91.4 cm)			
330-05		5 ft. (1.5 meters)			
330-10	EXTENSION AIR HOSE (1/4" I.D.)	10 ft. (3 meters)			
330-20		20 ft. (6 meters)			
330-30		30 ft. (9 meters)			
330-40		40 ft. (12 meters)			
335-20		20 ft. (6 meters)			
335-30	TEST AREA HOSE WITH GAUGE	30 ft. (9 meters)			
335-40		40 ft. (12 meters)			
345-20		20 ft. (6 meters)			
345-30	3/4" TEST AREA FILL LINE/INFLATION LINE	30 ft. (9 meters)			
345-40	,	40 ft. (12 meters)			
350-20		20 ft. (6 meters)			
350-30	INFLATION ASSEMBLY WITH HOSE, 0-60 PSI GAUGE AND INFLATION FITTING	30 ft. (9 meters)			
350-40		40 ft. (12 meters)			
530-60		0-60 psi			
530-300	GAUGES	0-300 psi			
535-00		Cover			
310-00	HIGH PRESSURE HAND PUMP WITH GAUGE	0-125 psi			



CUSTOM HOSE LENGTHS AVAILABL



ACCESSORIES & MISCELLANEOUS PARTS



TERMS AND CONDITIONS





CREDIT

Open account terms will be extended to firms with satisfactory commercial ratings. To avoid delay in servicing an order, we will accept MasterCard or Visa when proper credit information is not available.

TERMS OF PAYMENT

NET 30 DAYS unless otherwise noted. MINIMUM ORDER IS \$100.00 NOT INCLUDING FREIGHT.

RETURNED GOODS POLICY

You must call LANSAS to get an RMA and authorization for any returns. **We do not accept any returns after 30 days of purchase.** All returns are subject to a **25% RESTOCKING FEE**. Items sent without authorization or an RMA will not be accepted for return. Items must be shipped prepaid. Collect shipments will be refused. All returns are contingent on our inspection at Lansas facility.

FREIGHT POLICY

All orders will be shipped via one of the many surface carriers available. All shipments are F.O.B. Lodi, California, to one destination per purchase order. Drop shipment will be made upon request. We strongly recommend the inspection of all items for freight damage upon arrival of shipment. If there is damage to the product you need to notify both **LANSAS AND THE FREIGHT CARRIER**.

SPECIFICATIONS

The dimensions, weights, lengths, and other specifics in this and any of our catalogs, telephone quotes and any correspondence are subject to variations within reasonable tolerances as our products are handcrafted.

ORDERS

All orders are subject to acceptance by our sales office. We will not be held responsible for delays or non-fulfillment due to weather, riots, fire, floods, strikes, acts of God or any causes beyond our control. Invoicing is based on the most current price list.

PAST DUE ACCOUNTS

A SERVICE CHARGE OF 1.5% PER MONTH will be charged on all past due accounts. When purchasing Lansas products the customer agrees that any collection costs, including attorney or agency fees, will be the customer's responsibility.

For More Information on our terms and conditions go to www.lansas.com

VANDERLANS AND SONS, INC.

CORPORATE OFFICE: LODI, CALIFORNIA

Toll Free 1-800-452-4902 · (209) 334-4115 · Sales Fax (209) 339-8260

STOCKING WAREHOUSES:

Atlanta, GA (770) 509-9309 · Houston, TX (832) 831-4458 · Chicago, IL (800) 452-4902

SAFETY & WARRANTY INFORMATION

PRODUCTS Manufactured by Vanderlans & Sons, Inc.

AWARNING 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.

LANSAS PRODUCTS WARRANTY INFORMATION

All LANSAS products are warranted against manufacturing defects for a period of two years from the date of sale. At their option, Vanderlans and Sons, Inc., will either repair or replace any product found to have had a factory defect. Any product suspected of being defective must be returned, pre-paid freight, to the factory for inspection. Freight collect shipments will be refused.

No liability shall exist in case of misuse, abuse, over/under inflation or other negligence, or for any costs other than the replacement costs of the item in question. No liability is, or shall be, assumed for any consequential damages arising from the use of any device other than stated in this warranty.

Product warranty shall apply only to the original purchaser and is not transferable or assignable.

Manufacturer specifically disavows any other representation, warranty, or liability relating to the condition or use of this product.

Engines and vacuum pumps not manufactured by Lansas are subject to their specific manufacturer warranty only.

SAFETY NOTIFICATION

- SAFETY VIDEO AVAILABLE -

Inflatable products are intended for use in piping systems only. Do not inflate product unless totally confined within proper size pipe.

Each inflatable item is specifically rated for certain pressures under specific conditions. Do not over or under exceed these pressures, as specified for each device. If in doubt, contact the factory.

All inflatable devices must be used with proper blocking or restraints that meet or exceed the standards of the industry, consult a registered engineer.

Inflatable devices are designed for inflation in piping only. Device must conform in rated size(s) to piping size.

Through misuse, abuse, improper storage, age or component failure or malfunction, a device may fail. The user is warned to consider the failure mode of all parts (components) to be used in the system and to provide adequate safeguards to prevent personal injury, death or property damage in the event of a failure mode occurrence.

All end users must be thoroughly instructed in all safety aspects when using these products and how to provide for personal protection in the event of a failure mode.

It is the responsibility of the user to check all components for both accuracy and integrity immediately prior to use. All gauges and pressure components must be checked and certified for function and accuracy.

All end users are cautioned to review specific warnings, ratings, pressures and other information immediately prior to use. This information may be found in instruction sheets, product specification sheets, catalogs/brochures on the device, and/or on attached hang tags.

If such information cannot be located, the user is requested to call the factory at (800) 452-4902 for specific information. Such information will be supplied in written form by FAX or mail upon request. Lansas safety information can also be found on the internet. Check our website: www.lansas.com.

Do not operate or attempt to use any inflatable device without proper training and complete information regarding inflatable to be used.

For More Information on our Warranty go to www.lansas.com

USEFUL INFORMATION



AWARNING Safety Instructions are sent with each new Lansas website at www.lansas.com

HEAD IN FEET REDUCED TO POUNDS PER SQUARE INCH

CONVERTING HEAD FEET OF WATER TO POUNDS PER SQUARE INCH (PSI)						
HEAD FEET PSI	HEAD FEET	PSI	HEAD FEET	PSI	HEAD FEET	PSI
1 0.43	14	6.06	27	11.69	40	17.32
2 0.87	15	6.49	28	12.12	41	17.75
3 1.30	16	6.93	29	12.56	42	18.19
4 1.73	17	7.36	30	12.99	43	18.62
5 2.16	18	7.79	31	13.42	44	19.05
6 2.60	19	8.23	32	13.86	45	19.48
7 3.03	20	8.66	33	14.29	46	19.92
8 3.46	21	9.09	34	14.72	47	20.35
9 3.90	22	9.53	35	15.15	48	20.78
10 4.33	23	9.96	36	15.59	49	21.22
11 4.73	24	10.39	37	16.02	50	21.65
12 5.20	25	10.82	38	16.45		
13 5.63	26	11.26	39	16.89		

Please remember that pressure is pressure regardless of source and that pounds per square inch in all liquid mediums such as air or water create the same forces to the surface of a plug or testing device.

CONVERSION CHART					
To Convert:	Multiply By:	To Obtain:			
bars	14.5	pounds/square inch			
millimeters	.03937	inches			
cubic feet	7.48052	gallons			
feet	30.478	centimeters			
feet of water	.8825	inches of mercury			
feet of water	.4335	pounds/square inch			
inches	25.4	millimeters			
inches of mercury	1.133	feet of water			
inches of mercury	.4912	pounds/square inch			
kilograms	2.2046	pounds			
meters	3.281	feet			
pounds/square inch	2.307	feet of water			
pounds/square inch	2.036	inches of mercury			
$\pi = 3.14$	Square Inches = πR^2	Pounds of Force = PSI x Square Inches			

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