

Pneumercator Company, Inc.

LLP-203 Series Pipeline Line Leak Detector with the TMS2000, TMS3000 and TMS4000 Series Consoles for Hourly Testing on Rigid, Flexible and Hybrid Pipelines

AUTOMATIC ELECTRONIC LINE LEAK DETECTOR

- Certification** Leak rate of 3.0 gph @ 10 psi equivalent with PD = 100% and PFA = 0%
- Leak Threshold** 1.8 gph at 10 psi equivalent.
- Applicability** A pipeline system should not be declared tight if the test result indicates a loss that equals or exceeds this threshold.
- Comments** Gasoline, diesel, aviation fuel.
California Code of Regulations require a written statement of compatibility for systems containing products other than petroleum-based fuels (biodiesel blends greater than 20%, ethanol blends greater than 10%, solvents, etc.).
- Specification** System tests pressurized fiberglass, flexible, semi-rigid and rigid pipelines. Tests are conducted at system operating pressure.
- Pipeline Capacity** If the desired Bulk Modulus value does not appear in the table, select the next LOWER value. If the desired Charge (system operating) Pressure value does not appear in the table, select the next HIGHER value.

LLP203 Piping Volume Limits Table									
Charge Pressure[psi]	Bulk Modulus[psi]								
	2000	5000	10000	20000	30000	40000	50000	60000	70000
30	117	292	584	1167	1179	1179	1179	1179	1179
40	78	195	389	778	1167	1179	1179	1179	1179
50	58	146	292	584	875	1167	1179	1179	1179
60	47	117	233	467	700	934	1167	1179	1179
70	39	97	195	389	584	778	973	1167	1179
80	33	83	167	333	500	667	834	1000	1167
90	29	73	146	292	438	584	729	875	1021
100	26	65	130	259	389	519	648	778	908
110	23	58	117	233	350	467	584	700	817
120	21	53	106	212	318	424	530	637	743

- Waiting Time** Waiting times after the delivery of product, after product is circulated through the line or after pumping has stopped are not necessary before valid tests can be conducted.
- Test Period** Response time is dependent on line volume, service pressure, and bulk modulus, and can range from 0 to 13 minutes.
- System Features** Permanent installation on pipeline.
 Automatic testing of pipeline.
 Pressure decay over time.
 Single test to determine if pipeline is leaking.
 If leak is declared: Programmable for alarm only, or alarm with system shutdown.
 Programmable for test following pump shutdown only, or hourly.
- Calibration** Leak Detection system operation must be verified annually in accordance with manufacturer's instructions.

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