

R.W. LYALL

COMMERCIAL MSA's with Integral By-Pass for Diaphragm Gas Meter Applications

Features & Benefits

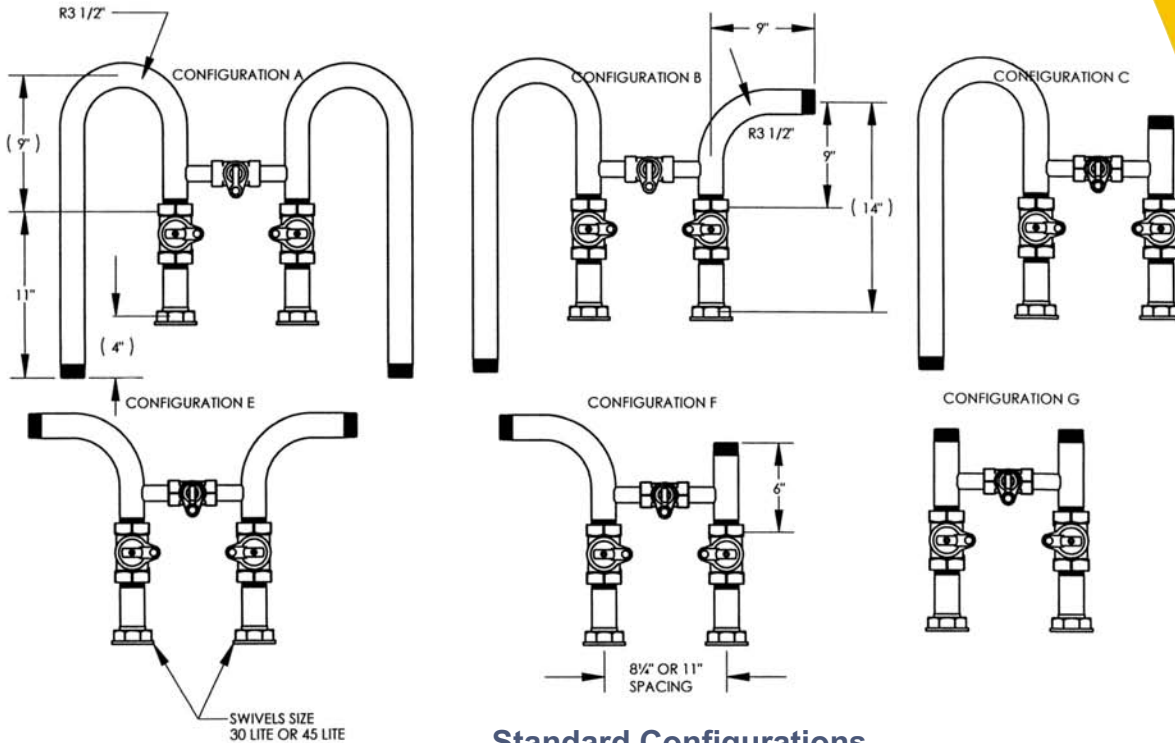
- **Ability to by-pass** This means that the gas company does not have to inconvenience the customer by shutting off the gas, particularly if the customer is a fast-food type customer.
- Lyall Commercial MSA's will have **minimal leak points** because of the reduction of threaded fittings.
- Zinc and/or polyester coatings for **corrosion resistant finish**.
- The gas utility will now have **standardization** of the Commercial MSA's.
- Lyall Commercial MSA's will provide **labor savings**, as they are ready to install.
- **Many Inlet/Outlet configurable options** can be added, including Unions, ball valves, nipples, 1" fpt vent-stack ports, or 1/4-inch taps, etc...



These benefits translate into an overall cost effective solution compared to manually or field assembled commercial meter sets



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Standard Configurations

U.S. Patent No: 5,689,938 & 5,501,331

Lyall Fabricated Commercial MSA Capabilities

Pipe Size/Forged Swivel Size Combinations

NPS 1 X 20 LITE
 NPS 1 X #1 SPRAGUE / 1" PITTSBURGH
 NPS 1 X 30 LITE
 NPS 1 1/4 X 30 LITE
 NPS 1 1/4 X 45 LITE
 NPS 1 1/4 X #3 (#4) SPRAGUE

Swaging

NPS 1 TO NPS 3/4
 NPS 1 1/4 TO NPS 1

Swivel Spacing

6", 7", 8-1/4", 11", and 13"

Bend Radius

NPS 3/4 - 2", 2 1/2" (STD), 3" Same Min bend as 1"
 NPS 1 - 2" Min Bend Length 5", 2 1/2" Min Bend Length 5-1/2, 3" (STD) Min Bend Length 6"
 NPS 1 1/4 - 3 1/2" Min Bend Length 9"
 NPS 1 1/2 Min Bend Length 4"

Vent/Tap Ports Options:

Inlet and/or outlet tap port(s) can be added to your configuration vent ports Standard sizes 1/4 inch taps.
 Vent-stack port connection 1"ft (check for other sizes).
 Double wing-lock ball valve for vent-stack applications can also be added.

Coating Options:

Electrostatically Applied Polyester.
 Zinc Plated for added protection against corrosion on the threads.
 Zinc Plated with Electrostatically Applied Polyester overcoat.

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