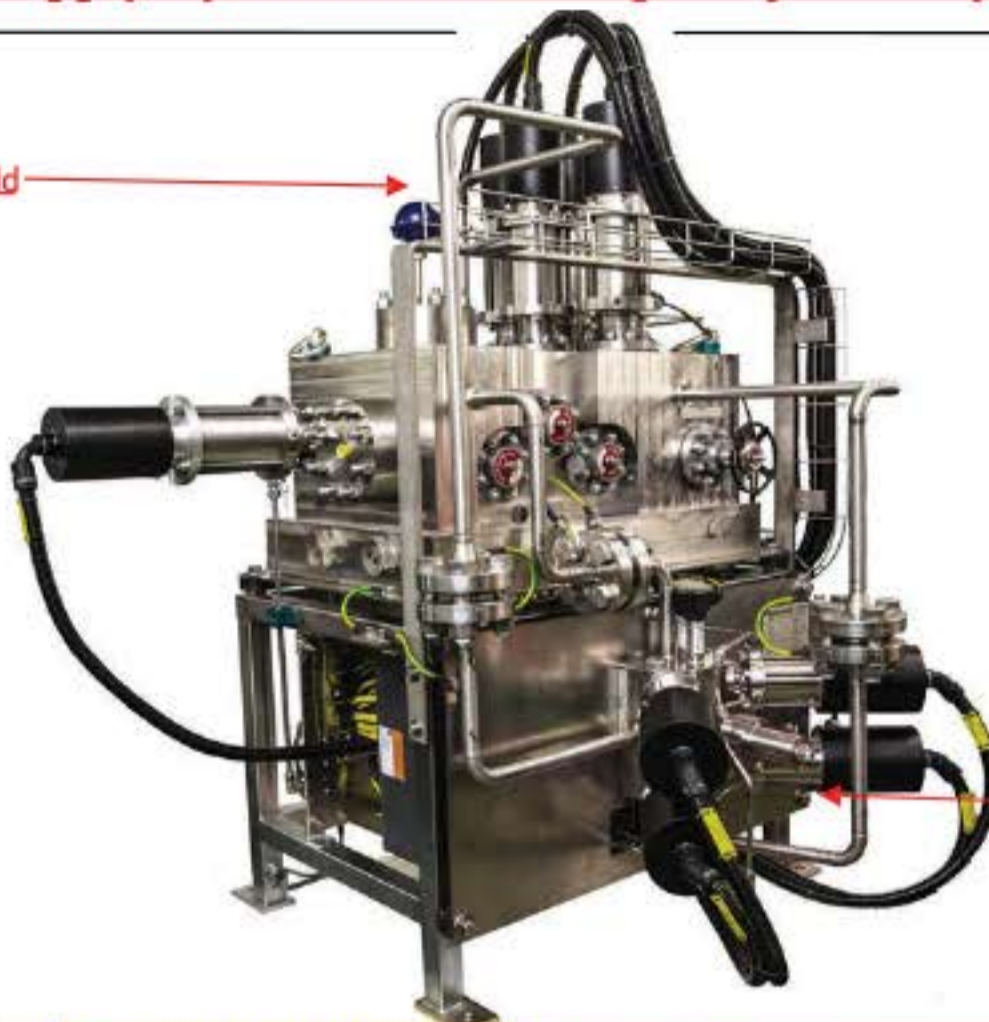


Gas Supply System for ME-GI gas-injection system Manifold



Methane Manifold



APPLICATIONS

- For the control of Methane/CNG natural gas into Dual Fuel two stroke Diesel Engines for Marine Vessels.

Nitrogen Manifold

GVT manufactured by our partner Eltronic. Photograph Electronic copyright.

Technical Data	Nitrogen Manifold	Methane Manifold
Design Pressure	400 Bar / 6000 psi	400 Bar / 6000 psi
Working Pressure	400 Bar / 6000 psi	310 Bar / 4500 psi
Test Pressure	200 Bar / 3000 psi	600 Bar / 9000 psi
Operating Temperature	-40°C to 80°C / -40°F to 176°F	-40°C to 80°C / -40°F to 176°F
Media	Nitrogen	CNG Compressed Natural Gas & Methane
Pressure Regulation	<i>Data Must Be Requested From DCL</i>	
Space Envelope	1.2mtrs L x 0.8mtrs W x 1.8mtrs H / 47.2" L x 31.5" W x 70.9" H	
Flow of LNG	<i>Data Must Be Requested From DCL</i>	
Weight of Unit		
Total No. of Valves Installed in two blocks	12 x DN 25 (1") and 5 x DN 10 (½")	

Response Time Actuated Valves– Methane

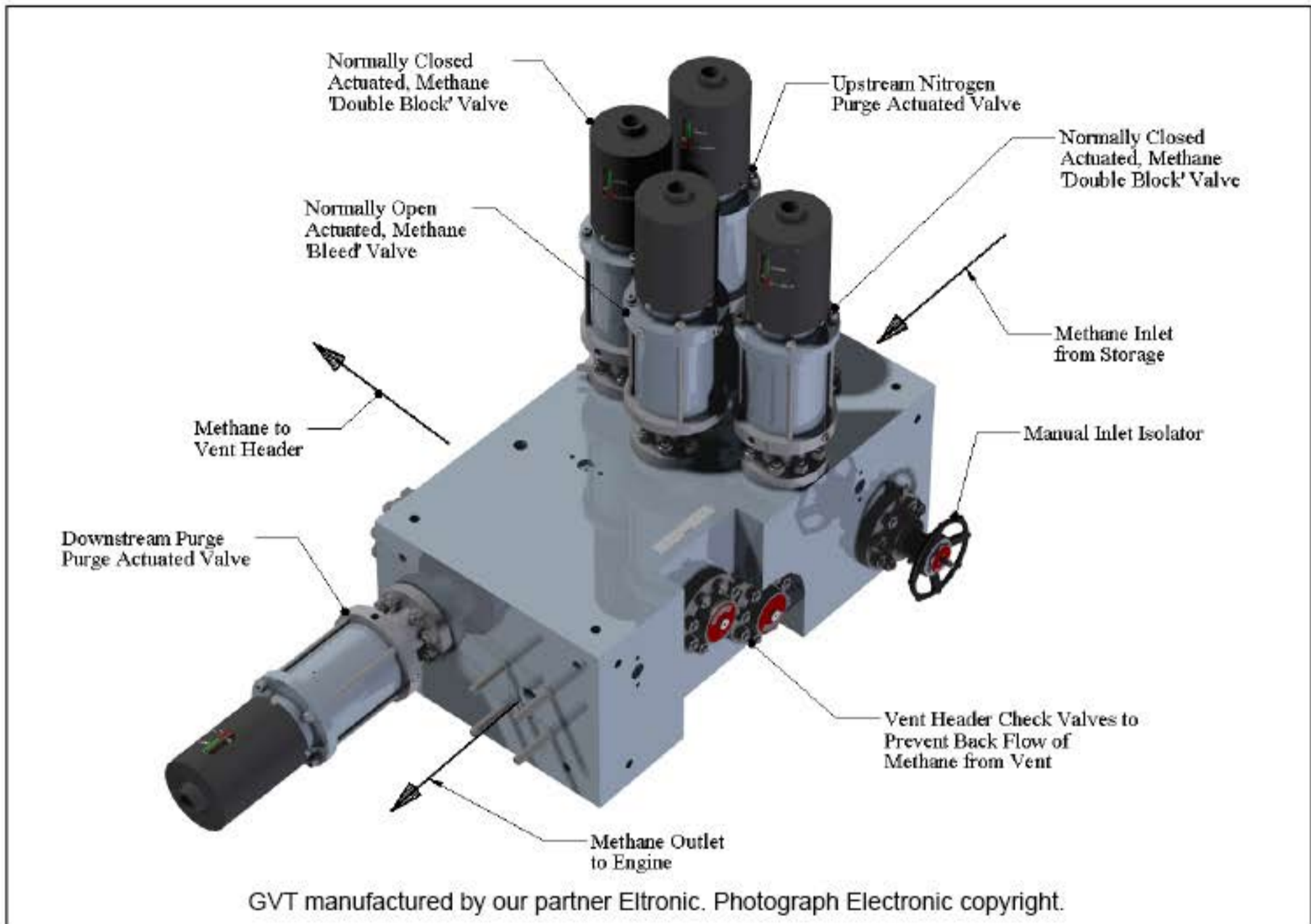
- 2 seconds open to close
- 5 seconds closed to open
- Two switches on actuated valves indicating open/closed

Principle Features of Nitrogen and Methane Manifolds

- Each valve has a double sealing arrangement to the outside environment
- The void between each seal is monitored/analyzed by a flow of air through each of the voids in the manifold block and valves, ensuring that any breaches of the primary seals is detected.
- Automatic shut down of Methane supply if leak is detected.
- Nitrogen purging system of the Methane flow paths during a planned shut down or in an emergency situation.
- All valves of cartridge design enabling quick change in the event of a failure and full maintenance whilst off line.
- Actuated Valves controlled from **XXX/XXX** source, and spring return for fail safe.
- Valve leakage to ANSI class VI

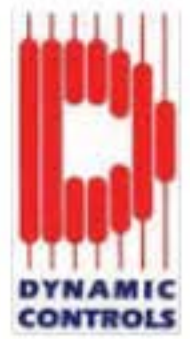
Gas Supply System for ME-GI gas-injection system Manifold

Methane Manifold Block Exploded View

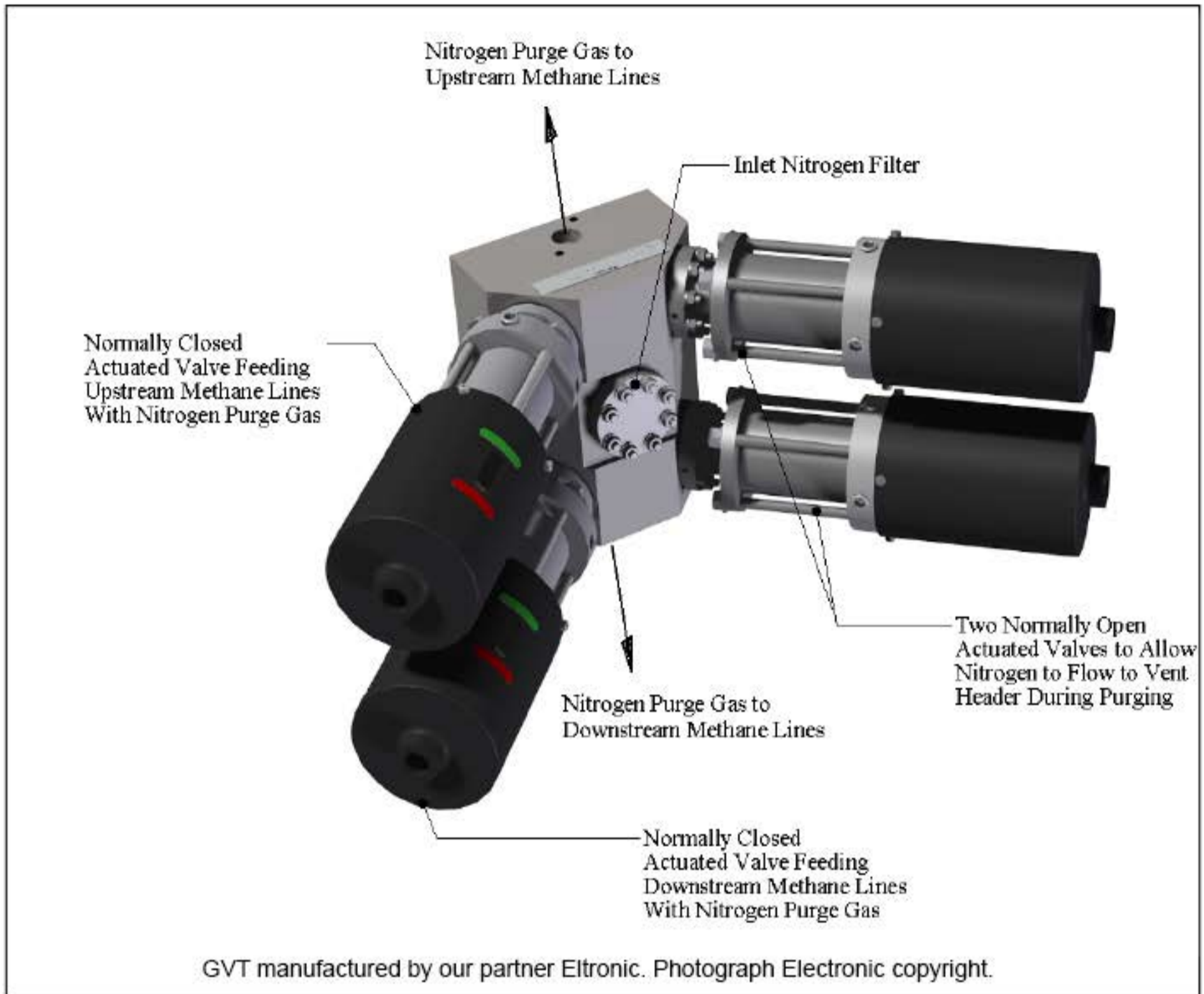


Item No.	Part Code	Title	Material	Design Pressure	Working Pressure	Size		Qty
						DN	(IN)	
1	861-C4-D-1-D-1-A-4	Stop Valve Assembly	Stainless Steel	CLASSIFIED	1	25	1"	1
2	862-C4-D-1-D-1-A-4	Non-Return Valve Cartridge Assy.	Stainless Steel			25	1"	5
3	864-C4-D-2-D-4-A-4	Filter Cartridge Assembly	Stainless Steel			25	1"	1
4	866-C4-D-3-D-1-A-4	Stop Valve, Normally Closed	Stainless Steel			25	1"	4
5	867-C4-D-3-D-1-A-4	Stop Valve, Normally Open	Stainless Steel			25	1"	1

Gas Supply System for ME-GI gas-injection system Manifold



Nitrogen Manifold Block Exploded View



Item No.	Part Code	Title	Material	Design Pressure	Working Pressure	DN	(IN)	Qty.
1	806-A2-D-3-D-1-A-4	Stop Valve, Normally Closed	Stainless Steel	CLASSIFIED		10	1/2	2
2	807-A2-D-3-D-1-A-4	Stop Valve, Normally Open	Stainless Steel			10	1/2	2
3	818A-A2-D-2-D-3-A-4	Regulator Cartridge Assy.	Stainless Steel			10	1/2	1

