

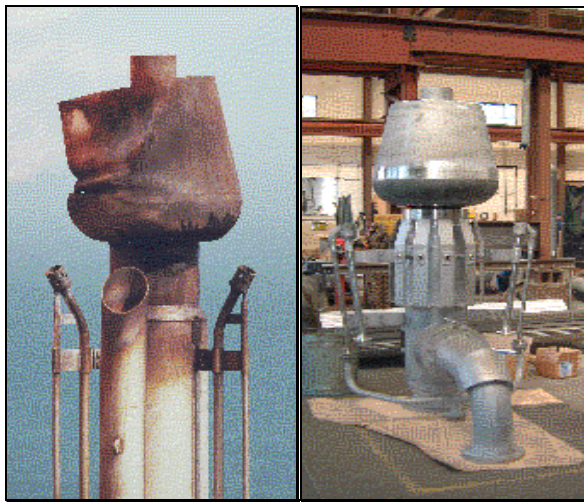


**The Beginning**

Argo Flare Services Ltd was formed in 2001 by ex-Kaldair staff looking to offer the Oil, Gas & Petrochemicals industry an operational support service not seen before from any flare company.

With expertise covering all aspects of flare design, project management, commissioning, inspection, maintenance and refurbishment Argo will be with you throughout the operational life of the flare system.

Now over ten years old and operating as part of the financially strong Sterling Industries plc group, Argo offer enhanced services to all of our clients.



From this ..... to this

**Flare Refurbishment**

● FlareRepair

Argo has carried out many flare inspection and refurbishment contracts for clients such as Apache, BP, Bluewater, Maersk, Shell and Talisman. We provide the following service:

- Take delivery of the used flares
- Dismantle, degrease, shot-blast, NDE and inspect the flare tip
- Provide a report with dimensional analysis, suitability and cost for refurbishment
- Identify design improvements based on failure mode, with the aim to tip lifecycle
- Supply 'as new' flare tip, complete with mechanical warranty
- Liaison with the flare change-out contractor and commissioning services

**Flare Inspection**

● FlareCare

There are two main methods of inspecting flares in-situ. Either physically at the flare deck (close visual inspection), or via photographic and video media (remote visual inspection). Argo provides either service; the latter ("Flyby" inspection) if a platform or plant flare shutdown is not possible. We have the two most experienced flare inspectors available today. Deliverables include:

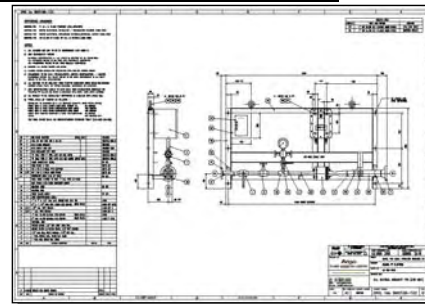
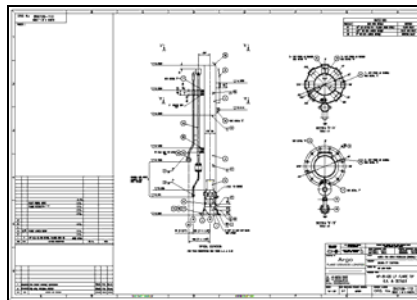
- A detailed report outlining defects and expected tip lifetime, failure modes
- Remedial, medium and long term actions
- Spares identification
- Capacity, radiation and noise studies
- Ignition system optimisation



**Flare Design & Supply**

Argo designs and supplies bespoke flare systems to meet operator requirements including:

- Sonic single point, multi point sonic and Coanda flares
- Low pressure sub-sonic pipe flares
- Sonic and sub-sonic vent systems
- Concealed flares and pit flares
- Electronic, flame front and pellet ignition systems
- Flare and vent upgrade studies including hydraulic, radiation, noise, dispersion, design and materials analysis
- Installation and commissioning support



QUANTITY	REVISED QUANTITY	ITEM NO.	DESCRIPTION OF PART		PART No.	No. OF IDENTICAL PARTS	No. OF PARTS RECOMMENDED	No. OF PARTS SELECTED	DELIVERY (WEEKS)	UNIT PRICE		TOTAL	NOTES
			QTY	UNIT PRICE						TOTAL			
4	4	4	MIA	Flare Assembly	SRH1	4	2	1	42,499.00	42,499.00			
4	4	4	MIA	178 Ball Valve Sparger Kit	99-2022A-001	4	1	12	420.00	420.00		There is a minimum order value for these 4 items	
2	2	2	MIA	178 Ball Valve Sparger Kit	99-2022A-001	2	1	12	420.00	420.00			
2	2	2	MIA	178 Ball Valve Sparger Kit	99-2022A-001	2	1	12	420.00	420.00			
2	2	2	MIA	178 Ball Valve Sparger Kit	99-2022A-001	2	1	12	420.00	420.00			
4	4	4	MIA	HT Igniter Unit	FL-100	4	1	2	4298.00	4298.00			
4	4	4	MIA	HT Igniter Unit	FL-100	4	1	2	4298.00	4298.00			
1	1	1	MIA	Flare Sparger	100S2000P	1	1	2	476.00	476.00			
3	3	3	MIA	SPAIN BURNER	40-S2-A-024	3	1	2	479.00	479.00			
9	9	9	MIA	SPAIN BURNER	40-S2-A-024	9	2	2	479.00	479.00			
2	2	2	MIA	SPAIN BURNER	40-S2-A-024	2	1	2	479.00	479.00			
1	1	1	MIA	Transmitter I.S. Burner	5041	2	1	2	444.00	444.00			
2	2	2	MIA	Transmitter I.S. Burner	5041	2	1	2	444.00	444.00			
3	3	3	MIA	Transmitter I.S. Burner	5041	3	1	2	444.00	444.00			
2	2	2	MIA	Transmitter I.S. Burner	5041	2	1	2	444.00	444.00			
1	1	1	MIA	1.00 Flare	11411 1.00	1	1	2	428.00	428.00		(Supply in pack of 10)	
2	2	2	MIA	1.00 Flare	11411 2.00	2	1	2	428.00	428.00		(Supply in pack of 10)	
3	3	3	MIA	1.00 Flare	11411 3.00	3	1	2	428.00	428.00		(Supply in pack of 10)	
1	1	1	MIA	1.00 Flare	11411 5.00	1	1	2	428.00	428.00		(Supply in pack of 10)	
1	1	1	MIA	1.00 Flare	11411 5.00	1	1	2	428.00	428.00		(Supply in pack of 10)	
4	4	4	MIA	1.00 Flare	11411 5.00	4	1	2	428.00	428.00			
4	4	4	MIA	1.00 Flare	11411 5.00	4	1	2	428.00	428.00			
2	2	2	MIA	1.00 Flare	11411 5.00	2	1	2	428.00	428.00			
1	1	1	MIA	1.00 Flare	11411 5.00	1	1	2	428.00	428.00			
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**Flare Spares**

**Flare Spare**

Argo is uniquely placed to source all your flare spares. From capital spares such as flare tips and pilots to minor spares for electronic, flame front and pellet ignition systems such as pressure gauges, valves, PCV spares kits, cable, transformers, igniters, thermocouples and ignition pellets.

Argo is used as a consultancy and spares supply source by term contractors & asset managers. We will audit your spares inventory and fill in the gaps where necessary. Argo also specifies and supplies, nuts, bolts, gaskets and flange shields for flare terminations. These are provided with a joint make-up procedure to eliminate the potential of base flange leakage – a frequent problem with flares.

**Flare Rental & Sourcing • FlareShare**

Argo provides a flare rental service. We have a number of flares on standby with capacities up to 450 mmscfd. We can supply both HP and LP flare tips for any duration of time.

**Flare Crisis Management**

Our engineers aim to be available to assist operators and key customers at short notice particularly if a flaring issue is impacting a shutdown or operations. Argo engineers are familiar with most flare tip designs regardless of the OEM. The company has supported numerous operators with equipment, parts and engineering required on an urgent basis.







Alistair Blest  
Business Manager



Andy Tallentire  
Applications Manager



Ray Seale  
Projects Manager



Paul Sharman  
Snr. Mech Engineer

**“TOTAL FLARE SERVICE IS OUR GOAL”**

- FlareCare
- FlareRepair
- FlareSpare
- FlareShare



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