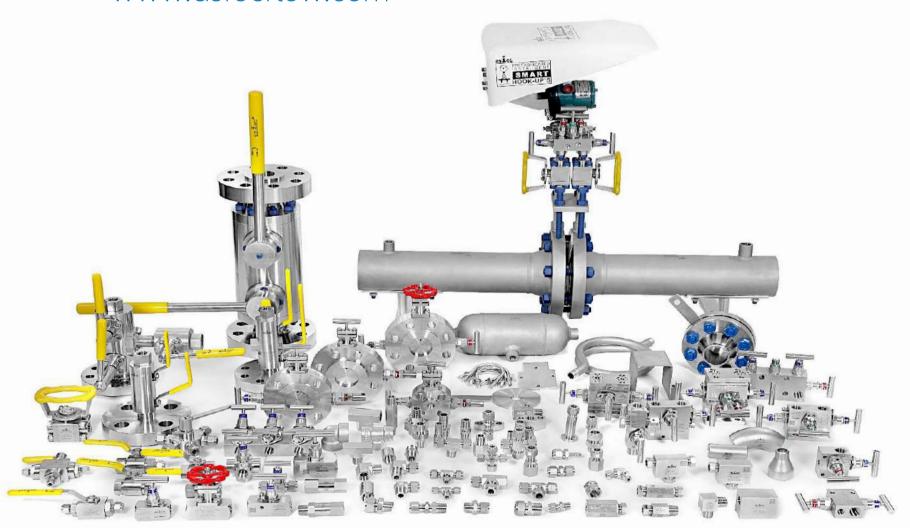


PRODUCT SELECTOR CATALOGUE

www.astecflow.com





AT YOUR SERVICE SINCE 1965



- ♦ OVER 500 PROJECTS COMPLETED FOR EPC, ŒMS, others.
- ♦ 90% PLUS OIL & GAS EXPERIENCE FOR HIGH PRESSURE
- → 70% PLUS EXPORTS TO GLOBAL OIL & GAS COMPANIES
- ♦ OVER A MILLION INSTALLATIONS IN OIL & GAS SERVICES
- → FINEST FLEET OF YAMAZAKI MAZAK CNC & VMCs in USE
- → AWARD WINNING FLUID HANDLING SOLUTIONS





- → "ASTEC' (Safe Energy group companies) is a 150+ experienced team focussed on manufacturing high pressure flow connections, valves and integrated assemblies. We have been closely working with end users to develop innovative AWARD WINNING TECHNOLOGIES for LOW CARBON EMISSION SOLUTIONS for the process instrumentation industry.
 - We have two manufacturing plants near Mumbai, India that hosts one of the finest fleet of CNC & VMC Machines & Test facilities backed by an INNOVATION, R&D & PROJECT MANAGEMENT CENTRE.
 - ♦ We are a company DEDICATED to developing technologies for CLEAN ENERGY TRANSITION with key focus on HYDROGEN products and solutions.

since 1965

CONSISTENCY



FINEST FLEET of CNC MACHINES for HIGH PRECISION PARTS







J2202-0263

RELIABLE & SAFE TEST EQUIPMENT

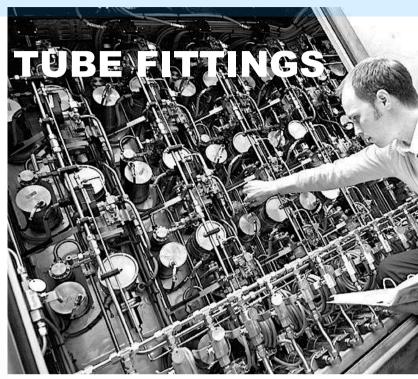
100% FACTORY TESTED





DOUBLE COMPRESSION TUBE





Tested & Certified

CSA/ANSI NGV 3.1.20
ISO 15500-2-2016
ISO 15500-19-2020
ECE R110

DCF series

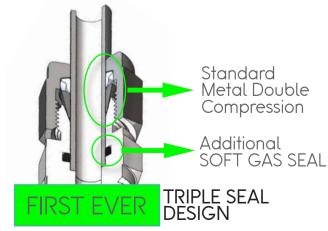
Surpasses recommended PRESSURE/ TEMPERATURE requirements of TUBE standards

ADVANCE DESIGNS

H2.CNG.LNG.GAS

ADCF series

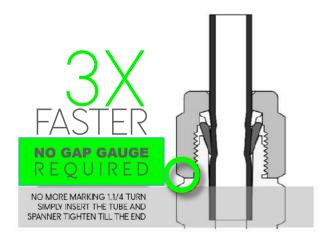
'TRILOK' Advance Triple Seal Design added to DCF series for extra safety in Low Molecular Gas Applications



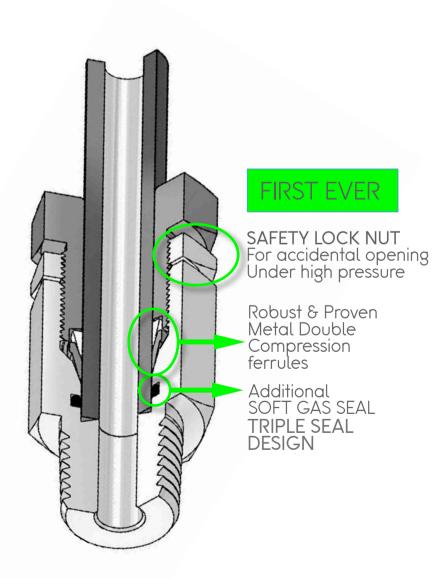
FAST INSTALLATION

NGG series

Also available with 'TRILOK' Advance Triple Seal Design for Gas applications NO GAP GAUGE REQUIRED







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SOLUTION TO CONE & THREAD FITTING DESIGN

The ADF70 series is similar to DCF series design with metal DOUBLE COMPRESSION ferrules. This innovative design tube fitting are capable to withstand high pressures up to 20K/1360 bar @ ambient temperature. They are optionally available with SAFETY LOCK NUT & THIRD GAS SEAL for high pressure and are good for low molecular gas applications. Compared to the widely used Cone & Thread Fittings that require special equipment, this design requires simply standard wrench and vice making installation lot easier, other than time and cost effective.

Tested & Certified

CSA/ANSI NGV 3.1.20 ISO 15500-2-2016 ISO 15500-19-2020 ECE R110

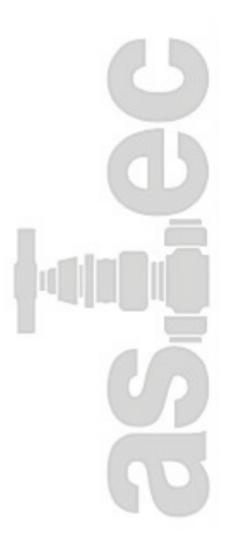
TUBING

INSTRUMENTATION & HYDRAULIC STRAIGHT LENGTH & COILED

(PVC Jacketed and/or Insulated available)

SEAMLESS BRIGHT ANNEALED TUBING





Metric, Fractional & Imperial sizes

Available Materials: SS316L, SS304, SS321, Alloy20, Alloy 400/R405, Alloy825, Alloy625, Alloy C-276, Duplex 2205 & 2507

Over 400 kilometres of installation base in Middle East, Oil & Gas along with ASTEC Tube Fittings



FITTINGS





DI-ELECTRIC TUBE FITTINGS





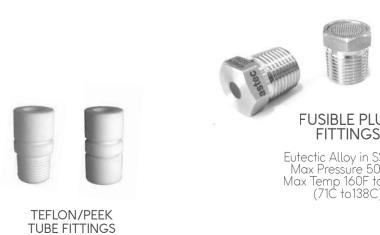


AN FITTINGS (JIC 37 deg Flare to SAE J514)



FITTINGS









VACCUM TUBE FITTINGS



HIGH PRESSURE SMALL BORE VALVES

MWP 1K to 10K PSI





SCREWED BONNET NEEDLE VALVES

MWP 20K PSI



Series: SNV Screwed Bonnet Needle Valves



www.astecflow.com



HIGH PRESSURE SMALL BORE VALVES

MWP 20K PSI





Manifolds with built in TUBE FITTINGS

www.astecflow.com



DOUBLE BLOCK & BLEED VALVES

MESC TAT CERTIFIED

EEMUA 182

API6D.

API607

BS6755PT2,

API 10K





Series: IDBBS
INSTRUMENT DOUBLE BLOCK & BLEED VALVES
Thread to Thread

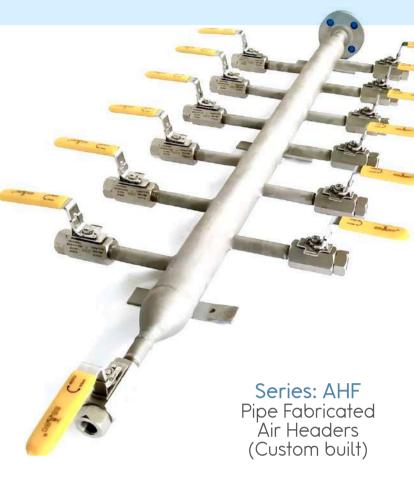


Sampling & Injection probe DBBs





ERECTION MATERIAL



AIR HEADERS



Series: BHF Barstock Compact
Air Headers
(Specify outlet ports)



Series: FR- BV
Flush Ring with Ball valves



Instrument Stand Mounting Plate, Sun Shade / Enclosure / Clamps





Syphons



Condensate Pot





LNG

CRYOGENIC PRODUCTS & SOLUTIONS



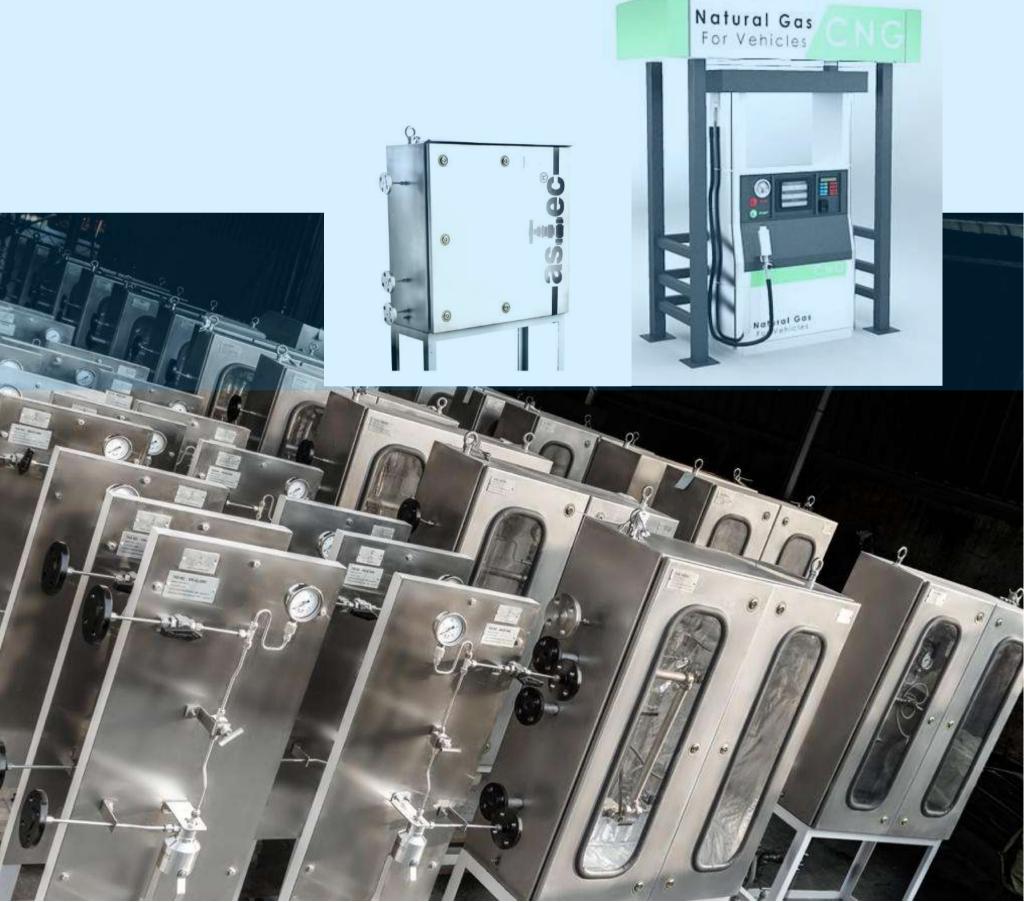






INTEGRATION SERVICES

DISPENSERS & SAMPLING SYSTEMS





HIGH SAFETY PROCESS SHUT OFF VALVES FOR ORIFICE SERVICE

ADVANTAGES:

CUTS 50% WEIGHT

CUTS 90% INSTALLATION TIME

CUTS 25% JOINTS / EMISSIONS

HIGH SAFETY - DI ELECTRIC DESIGN

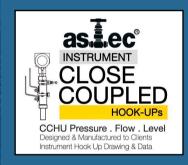
CUSTOMISED TO USERS DRAWINGS UPTO 10K PRESSURES





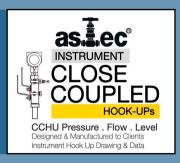
Pressure Instrument CLOSE COUPLED HOOK-UPS WINNER OF MULTIPLE AWARDS

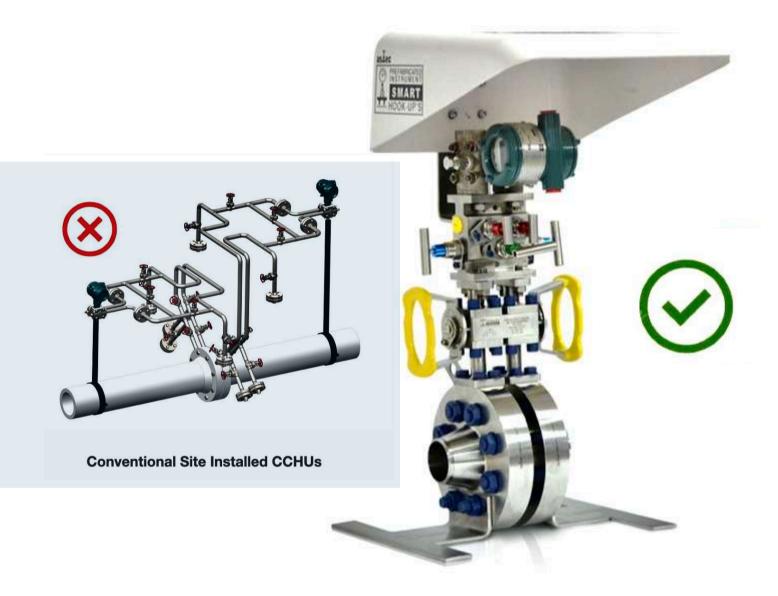






HELPING YOU WORK SMARTER

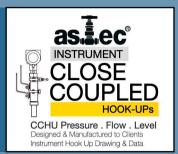


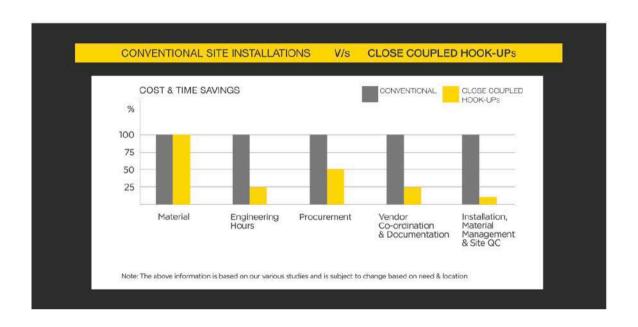


ADVANTAGE to INSTRUMENT TEAMS

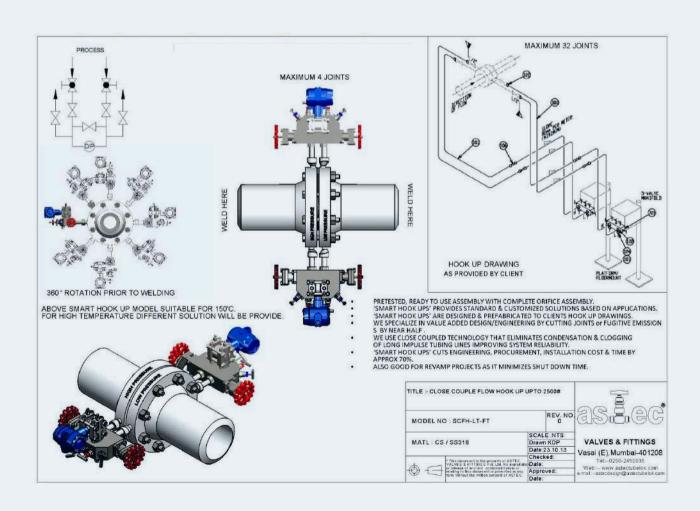
- Reduces Measurement Errors caused by long Impulse line tubing
- Reduces WEIGHT, JOINT and mainly CUTS CARBON FOOTPRINT
- Reduces EPC TIME & COST drastically
- Modular Design with DI ELECTRIC DESIGN & SAFETY
- Designed, manufactured & tested to your P&ID, Instrument Hook Up drawings, TUV NEL, UK recommendations, MESC standards, Client specs.
- Completely prefabricated & tested using Astec DBBs, Manifolds Valves and Orifice Assemblies along with Client Approved Instruments and Sunshades.
- Available for max pressure class API 10K / 2500# & max temperature 550C
- Available in most Exotic Alloys i.e. CS/LF2, Inconel, DSS, SS
- Over **15,000** CCHU Installations on Oil & Gas Applications

COST & TIME SAVINGS

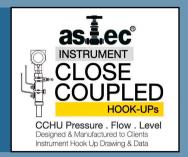




SAVE 50% COST. TIME. JOINTS



ENGINEERED TO OPTIMISE MEASUREMENT



"PRESSURE SMART CCHU"

with DBB piping valves





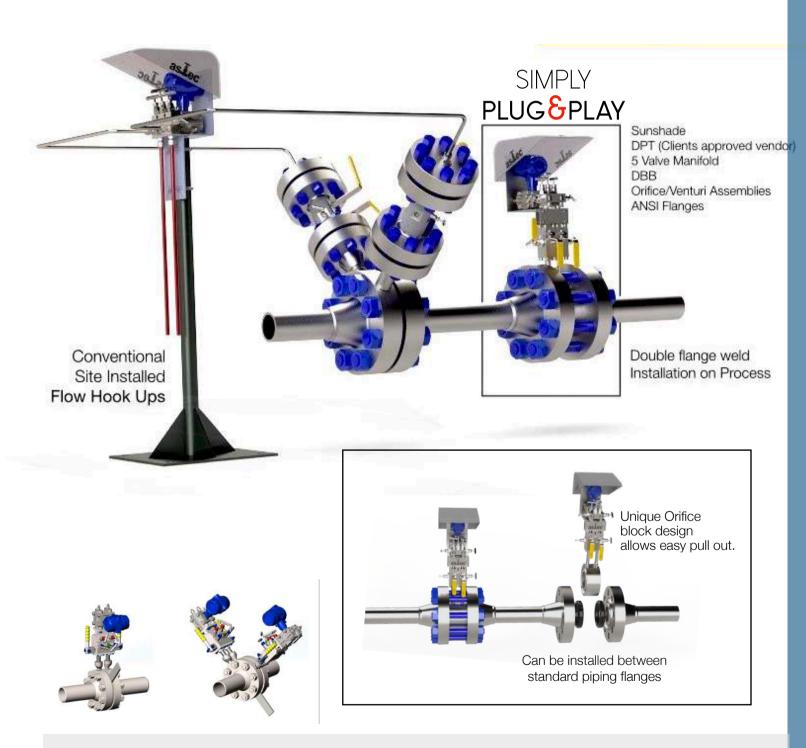


DESIGNING OUT THE CLUTTER



"FLOW SMART CCHU"

with DBB piping valves



Quick installation between standard piping flanges Modular design ensures quick parts change over Better Measurement due to avoidance of long tubing assemblies Complies to TUV NEL recommendations for Close Coupled Hook Ups 75% LESSER JOINTS or FUGITIVE EMISSIONS

OVER Instrument Hook-UP assemblies

asiec°
INSTRUMENT
CLOSE CCHU Pressure . Flow . Level Designed & Manufactured to Clients Instrument Hook Up Drawing & Data

in USE

INCLUDES

Instrument of your choice 2 or 3 Valve Manifolds





API, ISO & PERFORMANCE NOTES

CERTIFICATIONS

API-6D & API-609





ISO 45001. ISO 9001. ISO 14001







PERFORMANCE LETTERS

ESSAR OIL (now Nayara Energy) is the WORLDS 2nd LARGEST GRASSROOT REFINERY and has over 5,00,000 nos ASTEC valves & Fittings in use since over 15 years. Essar Oil Limited Fetnery Division Date: 20th Sept: 2006 To, Astec Valves & Fittings Pvt Ltd. 103, Ravi Industrial estate, off Mahakali Caves road, Andhort East, Numbai 400093. Sub: Service support of Astec Fittings & Valves Dear Sir. On your request for a feedback requested of the Service provided by your company for our Refinery most of the fittings are from ASTEC instrumentation Fittings & Valves. We are in the process of installing nearly 1000000 nos of Astec products. Their service support is satisfactory. They are also helpful in delivering our urgent requirements with in short span of time. They have also earmarked a dedicated person for our project. We are yet to ascertain the performance of the fittings. Regards, **Leastmera/sygnari GMinistrumentation ESSAR Cit Limited **Their Service Support is satisfactory. They are also helpful in delivering our urgent requirements with in short span of time. They have also earmarked a dedicated person for our project. We are yet to ascertain the performance of the fittings. Regards, **Leastmera/sygnari GMinistrumentation ESSAR Cit Limited

consortium after our services after few years and several thousand units in operation on their OFFSHORE PLATFORMS

BG India

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Amar Gupta Asst. Manager - Porchase

BRITISH GAS & ONGC Offshore

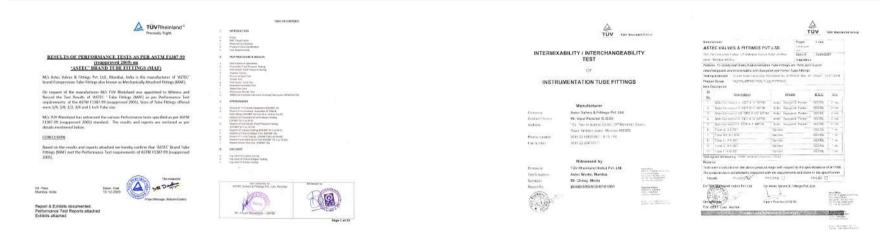


TUBE FITTINGS/VALVES

DCF Series ASTM F 1387

DCF Series Interchangeability

ASTEC, SWAGELOK. PARKER



SERTIFICATIONS

DBB Valves ISO 15848-1 FUGITIVE EMISSION TESTING



Inst Valves & Manifolds Burst Testing





ERTIFICATIONS

CNG. LNG. HYDROGEN

ADF70 Series 20K psi Tube Fittings







DCF Series 6K psi Tube Fittings







Cryogenic (LNG) Valve Testings





Proj	ect No.: 20050	Tenting Standard - 65 6364 : 1984
POI	Wo. 1900009149	
rot	Dete: 13.10.2021	
01	Manufactionin	Anter Valves & Pittings Prit List
02	TextSecution	Plot No. 43, Survey No. 55, Valle House Industrial Area, Valle, Value (E), Holphor - 455 209 Marchael, MDH.
03	hem Discription	1", Meedie Volve, GOOLE, Stinding Monoflange, Flanged RF Roth Froi HW, CSBY Entended Rosest
154	Test Specification	65 6364 - 1984
05	Test Temperature	-196°C
	Cooling Medium	Liquid Mitrogen
-06	Drawing Number	10050-900019145-001-00001: Outo 15.13.3821
.07	ITF Number	20050-900019145-IDT-00001, Bate: 11.02.2021
OF	FD Sr. No.	02
OS	PD Quertry	34 Nos.
10	Offered Countity	24 Nos.
11	Video Sc. No	MYCRS9 TO MPROBZ
12	Witness Valve Quartity	EX Nos.
	Militera Valve St. No.	F4903, WF9079 & MF9081
14	Eatch Number	V395824
15	Sie & Class	1" & 600e
	Taxt Pressure	1535 PSIG
17	Test readon	Maliam (make sulve), Purily 59 555%
-	Performed By User Valves & Filtrings PV4, U.S.	Reviewed By / Wilmested By
	CAVIX CAVIA	LRQA AND LAND
	DV/DC ROBINSON	TRE/CHALL

Inte	rection Cort. No.: K/	CHARLESONEC NAME (2000-1006/2021-22/01 Darker 01/03/2022 Fe 03/03/2022
	other Name: M/S. At ect Name: Elan LNG	lartic Gulf & Facific Company of Murtis Inc.
Beni	ect No.: 20050	Testing Standard - BS 6364 : 1988
	80.1900019145	
	Jete: 13:10:2023	
-	MARK: 23 TO 5057	
po I	Manufactures	Address variers & Fittings Put Little
00	Test constinu	Mod Ris. 4D. Survey No. 46, 105y Honey Industrial Area, 105y.
		Vasai (EE, Patghar - 401, 208 Mambal, INDW
00.	Item Description	1", Needle Valve, 19013, Similine Monofloogs, Forgod III Enth 1 to
		HW, DS&Y Extended Sowner
Dis	Test Specification	15 6364 - 1364
05	Ten Temperature	-196°C
	Cooling Medium	Liquid Nitragen
	Ornaving Number	20050-980029145-031-00003;
	ITP Ramber	: 20050-900038145-109-00001;
	PO Sr. No.	: 01
	PO GLOSTRY	34 Not.
	Offered Quantity	: 34 Nes. - AVAIGES TO MERCURAL
	Value Sr. No. Witness Value Charetti	
	Witness Valve St. No.	
	Direct Humber	V99834
	Tipe & Chico	1° 8.1908
	Tast Pressure	309 PS S
	Test medium	Industry Coulde value), Purity 98,092%
-		December 1997
82	Value Value & Fittings Put	Ind. Minimed Sy / Wineseed Sy
	Further mad By Settle Values & Fittings For GAVOR 19	Reviewed Sty / Min regret Sty
-		43(5)(5)

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	rec M/S. Attaves Out 8		tanks inc.	
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	First Cycle 803 of 203	18 No.	10 16%	MARKE
	Last trice (70 of 50)	16 No.	12-1619	
	El Incanon communication			
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INTERNATIONAL SALES AND MARKETING

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2307 – 2308, Burlington Tower, Business Bay, Dubai, U.A.E

T: +971 4 551 8180 / +971 50 222 3710

Email: mena@astecflow.com

SAFE ENERGY QFZ LLC

53/54, Business Innovation Park, Ras Bufontas Free Zone, Qatar

T: +974 33685807

Email: mena@astecflow.com

HEAD OFFICE & MANUFACTURING

Astec Valves & Fittings Pvt Ltd (PLANT 1)

10/11, Geeta Industrial Estate No. 7, Gorai Pada, Near K.T. Industrial Park, Vasai (E), Palghar – 401 208, Mumbai, INDIA.

Astec Valves & Fittings Pvt Ltd (PLANT 2)

Plot No. 40, Survey No. 66, Valiv Heavy Industrial Area, Valiv, Vasai (E), Palghar – 401 208 Mumbai, INDIA.

T: +91 96646 91000

Email: bdm2@astecflow.com