













Certificate Number

7584

Date First Registered

5 September 2013

Date Certificate Expires

5 September 2016



CERTIFICATE OF REGISTRATION

This Certificate has been awarded to:

OEV (Oilfield Equipment and Valves)

5132 Steadmont Dr Houston TX 77040 USA

In Recognition of the Organization's Management System which complies with:

ISO 9001:2008

For the Scope of Activities described below:

Design, Fabrication and Service of Products for the Petroleum and Natural Gas Industries.

This Certificate has been awarded by

WORLD CERTIFICATION SERVICES LTD.

Issue Date:

Issued By:

5 September 2013

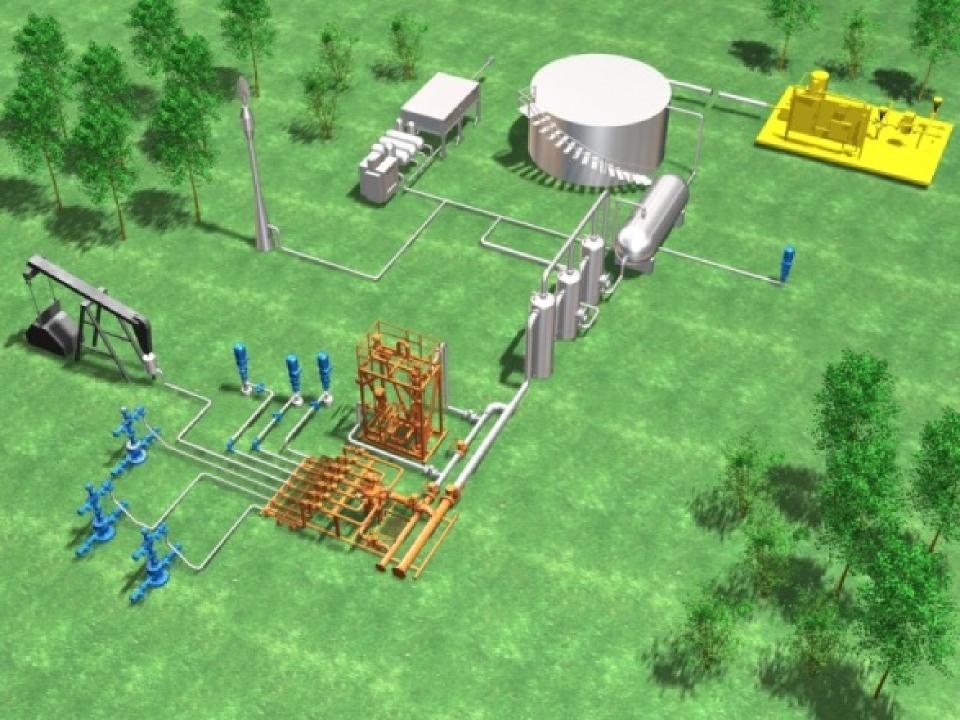
Quality Policy

To design and manufacture products and generates services that meet or exceed the product specifications and our customer expectations.



World Certification Services Ltd. Custom House, 52A Mersey View Merseyvide, L22 6QB United Kinschim

The use of the accreditation mark indicates accreditation in re-



MANUFACTURING RANGE

STANDARD SIZES

Inlet/Test outlet x Production outlet:

2"x 4" 3"x 6" 4"x 8" – 4" X 10" 6" X 12" – 6" X 16"

CLASSES AND CONNECTIONS

ASME B16.5 FLANGES CLASS 150# TO 2500# RF/RTJ API LINE PIPE THREADED (API LP)



A single MSV can manifold as many as seven flow lines through it simultaneously. Multiport Selector Valve (MSV) allows the diversion of fluids from a single flow line to a test outlet or a sampling device

EQUIPETROL'S flow selector valve can be used in a variety of oil and gas or process applications. While the one outlet is isolated, the flow from the other six is combined into a separate group outlet.

NMANIFOLD



EXPENSIVE

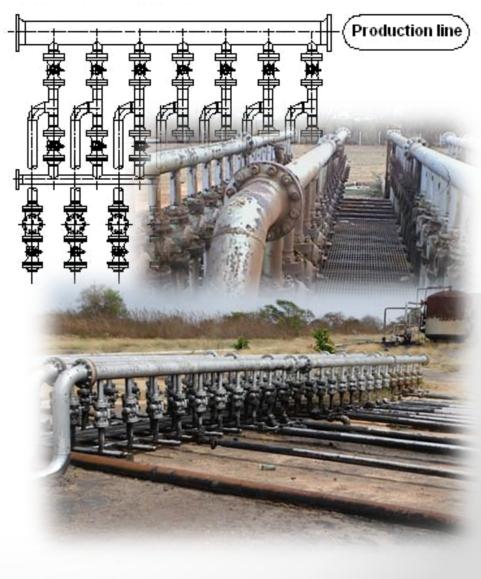
HARD FOR MAINTENENCE

MESSY

HIG RISK OF LEAKAGE

VERY HARD TO

Conventional manifold



ANSWER...

LOW COST

EASY FOR MAINTENENCE

NEAT AND CLEAN

RELIABLE

ALREADY AUTOMATED

ANSWER...



EXPENSIVE

HARD FOR MAINTENENCE

MESSY

HIG RISK OF LEAKAGE

VERY HARD TO AUTOMATE



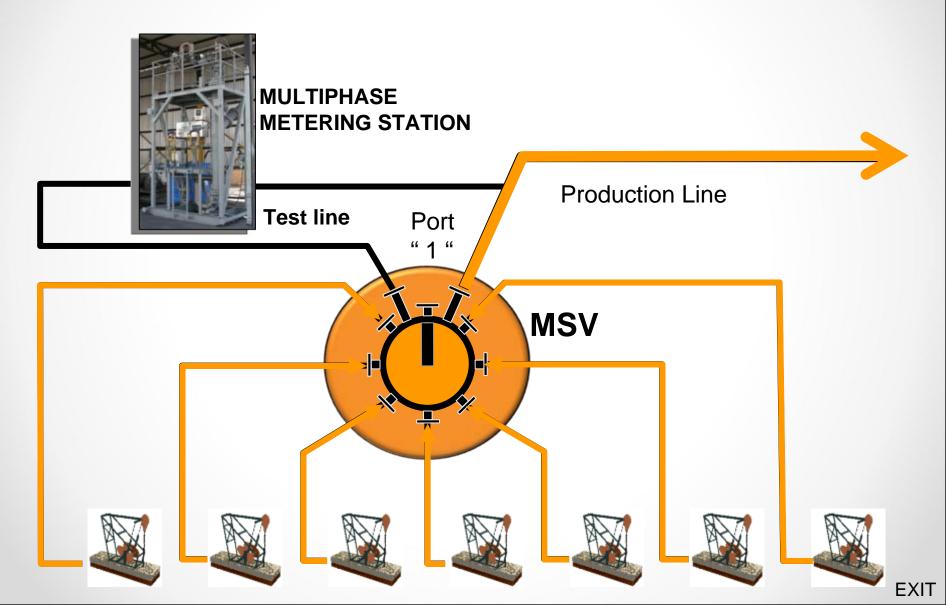
LOW COST

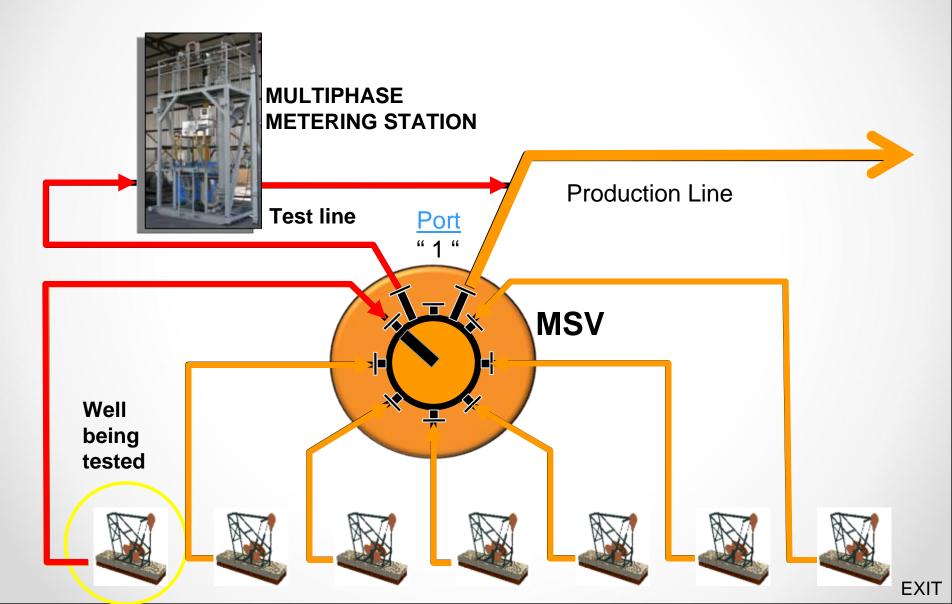
EASY FOR MAINTENENCE

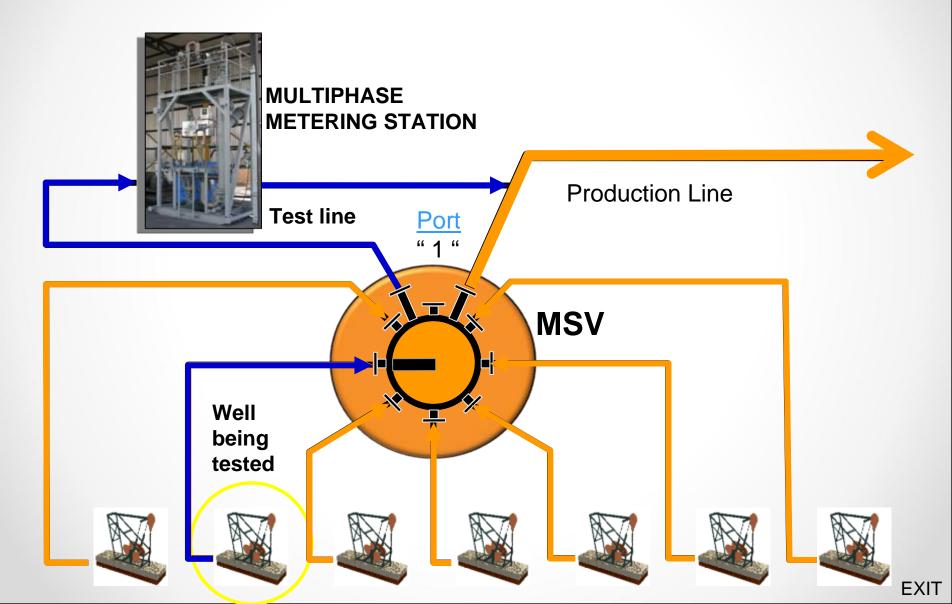
NEAT AND CLEAN

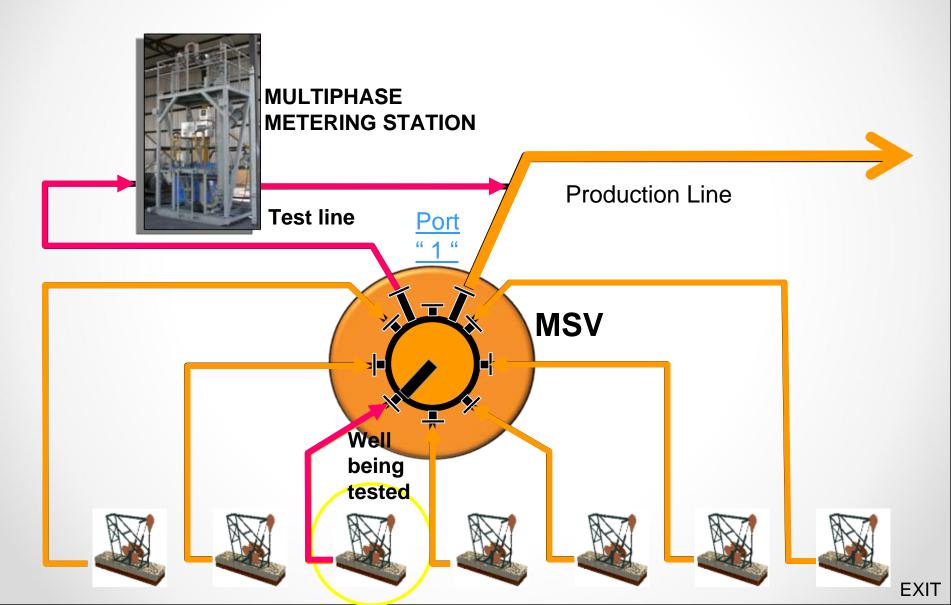
RELIABLE

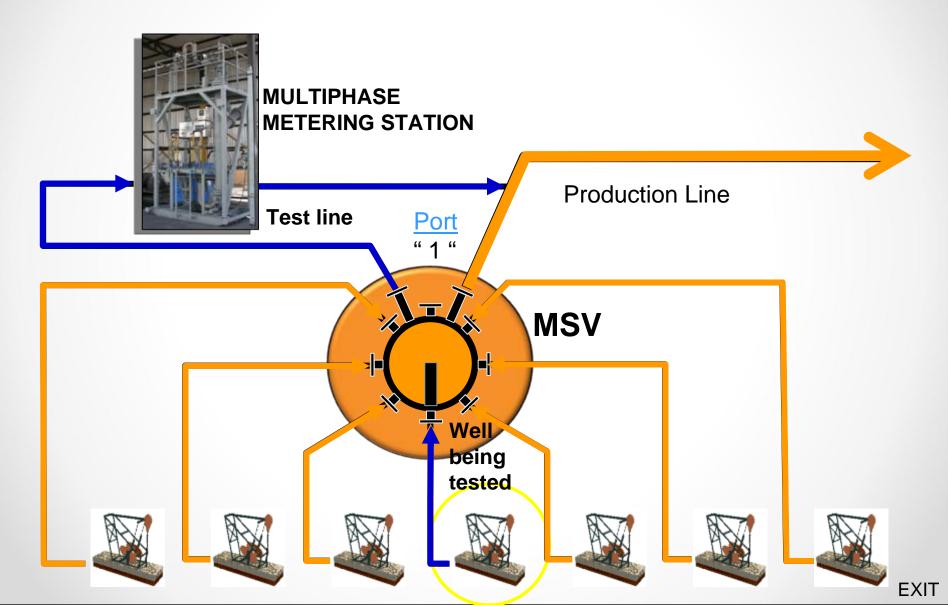
ALREADYAUTOMATED

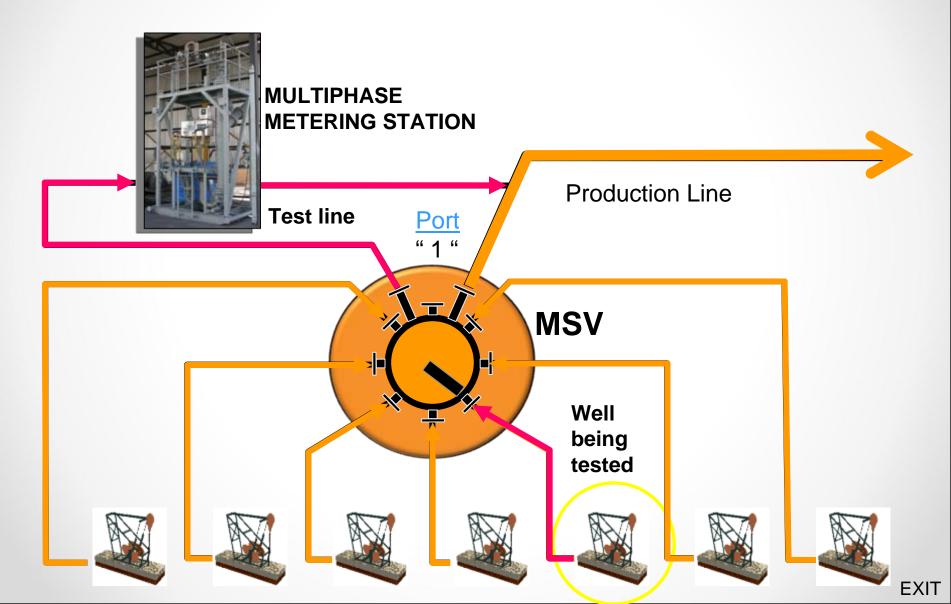


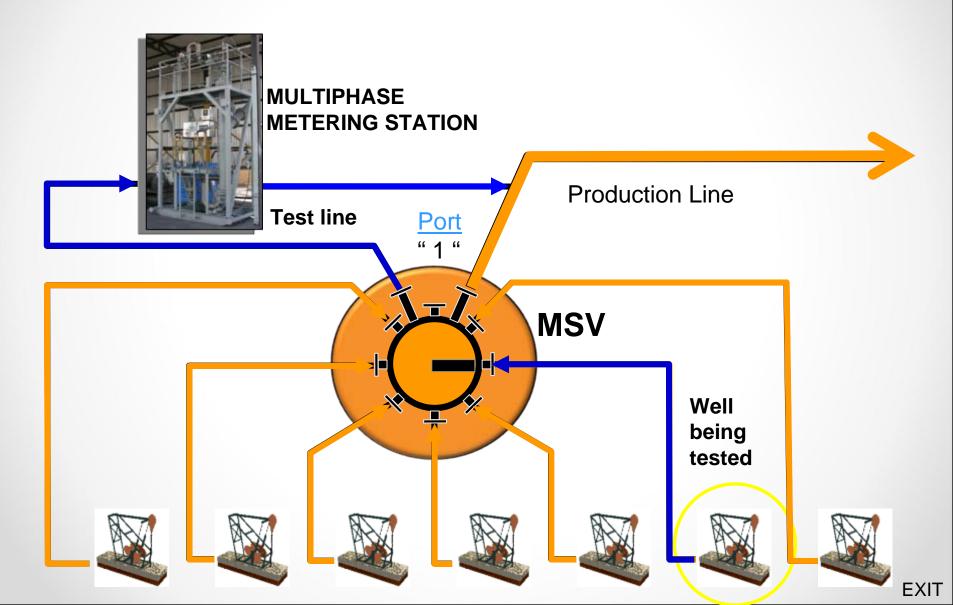


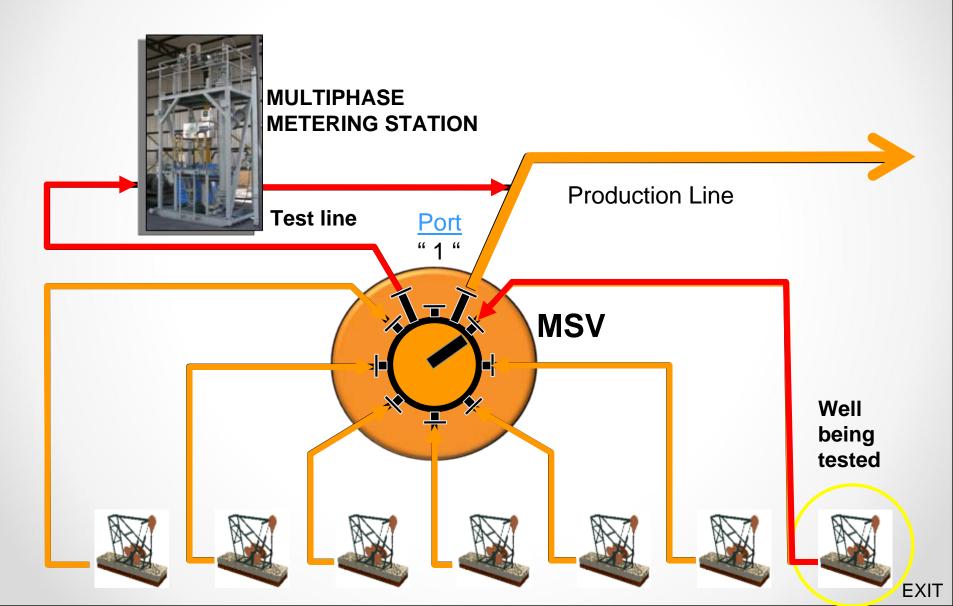




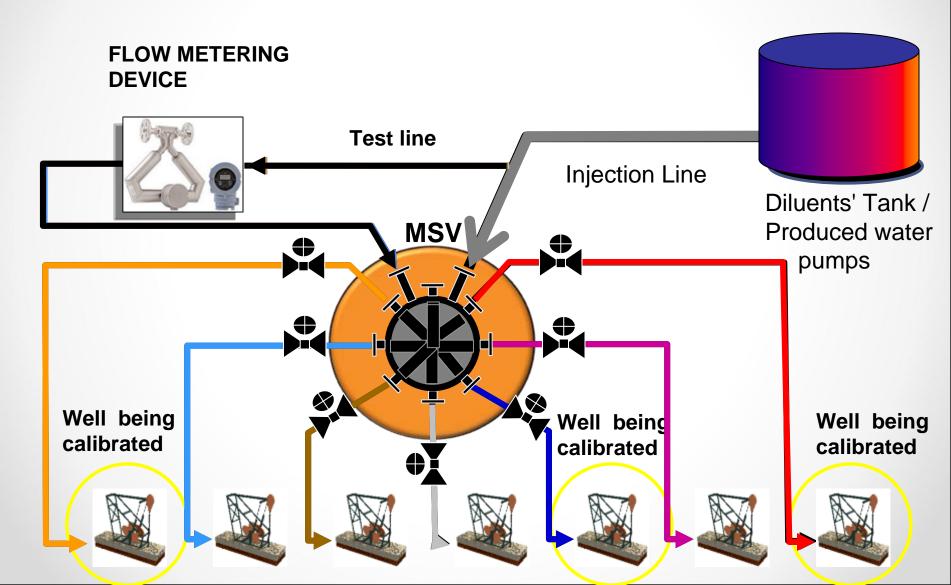




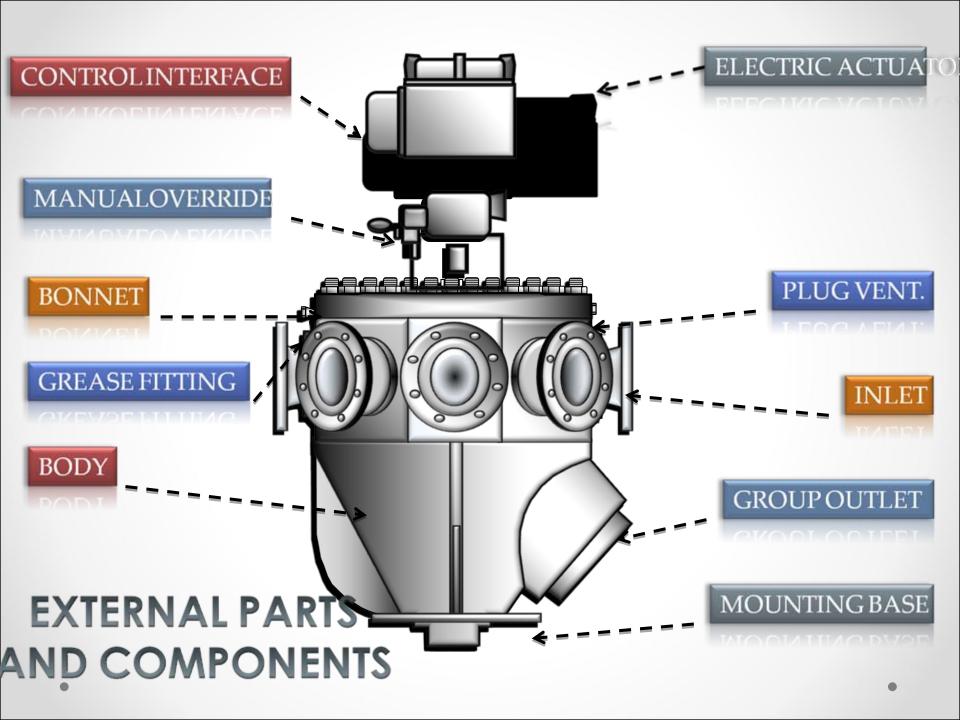


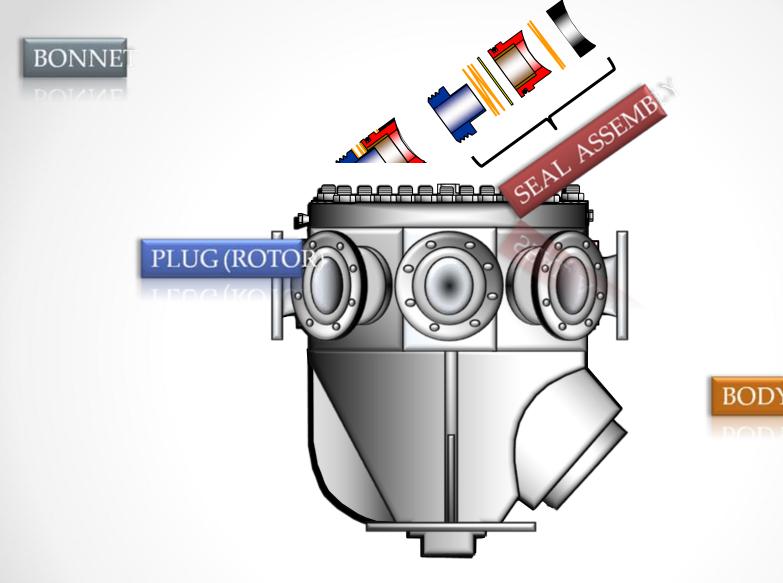


DILUENT / PRODUCED WATER INJECTION TYPICAL ARRANGE



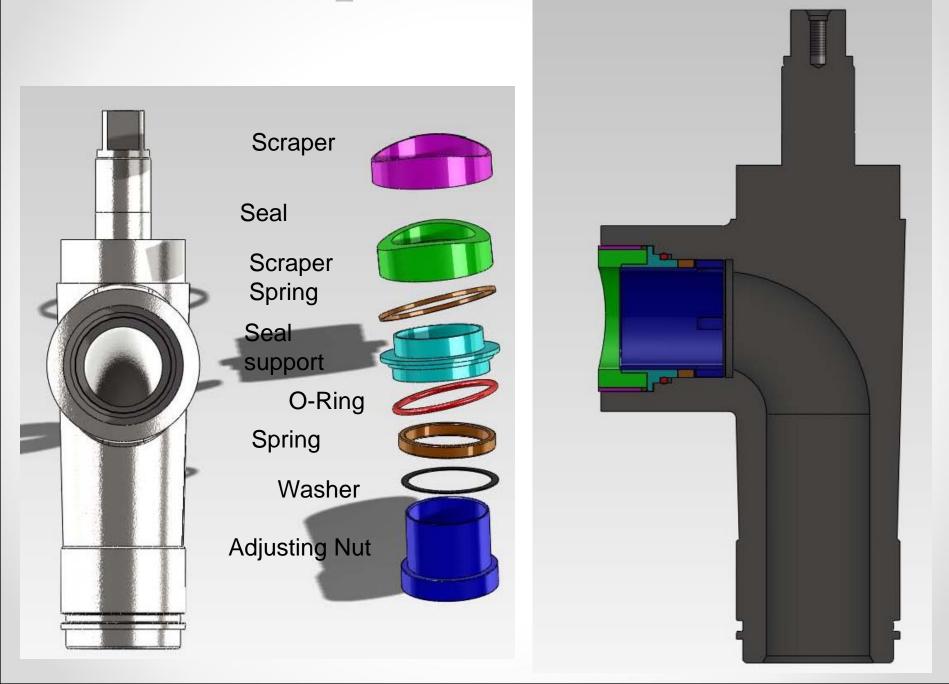
Parts and Components

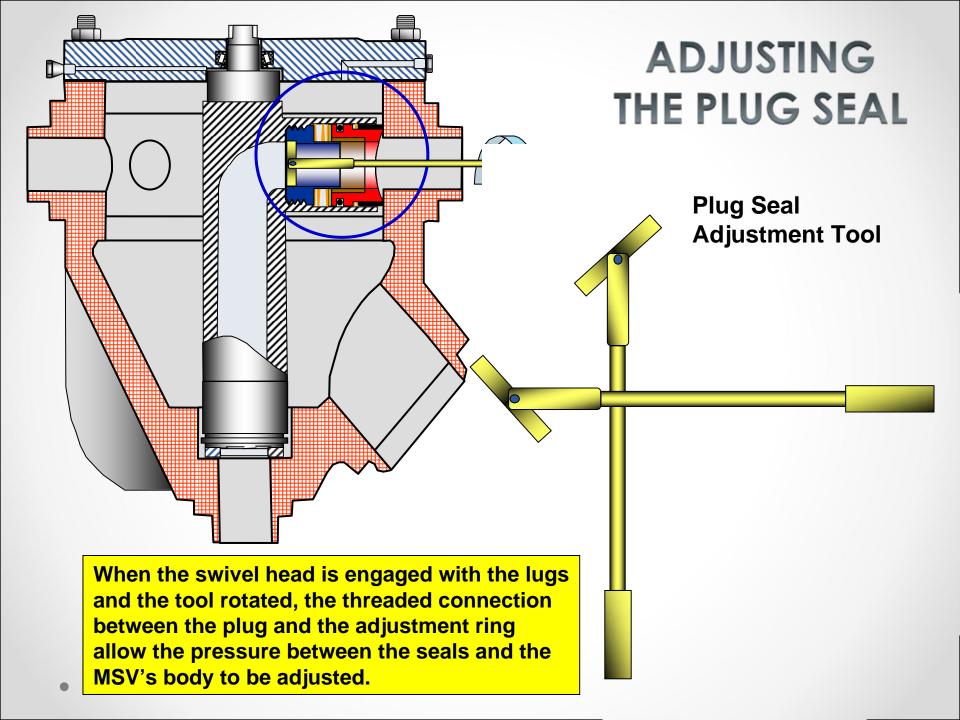


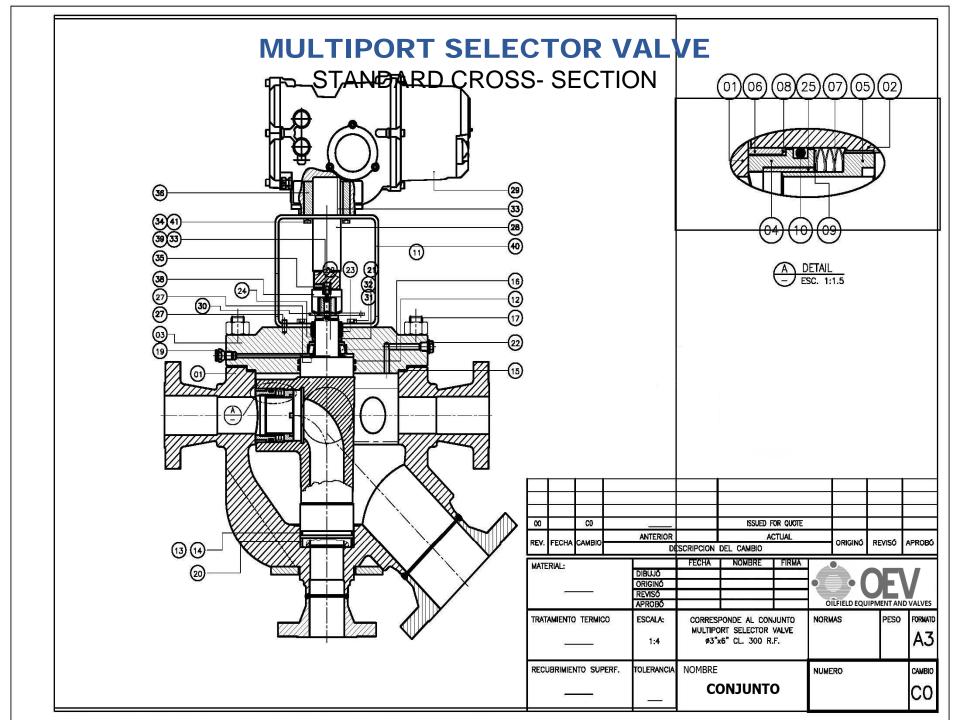


AECHANICAL PARTS AND COMPONENTS

ocar components







One piece Inlet flanges and Body



Oversized Rotating Plug



STANDAR MATERIALS:

Rotating plug: ASTM A-216 WCB

Painting: Halar polymer (corrosive resistant)

SPECIAL MATERIALS:

Body: SDSS / DSS / SS 316 L / INCONEL AND OTHER SPECIAL CLADDING

Rotating plug: SDSS / DSS / S 316L / SS 6Mo / SOLID INCONEL

Bonnet: SDSS / DSS / SS316L / INCONELAND OTHER SPECIAL CLADDING

Internals : SDSS / DSS / INCONEL

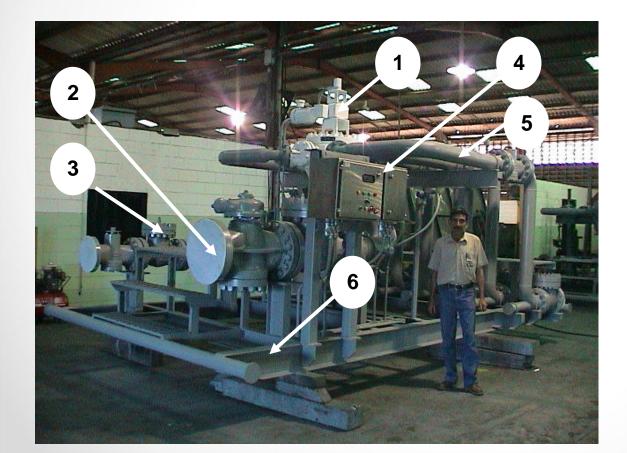
Stud and Nuts: ASTM A-193 B7M - ASTM A-194 2HM /A-193 B8M -ASTM A-194 B8M / INCONEL

Multiport Selector Valve

MSValves with Rotork IQTF actuator



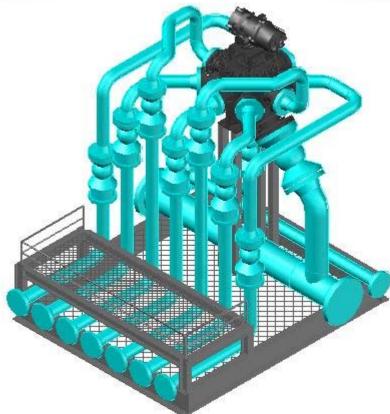
SKID MOUNTED MSV



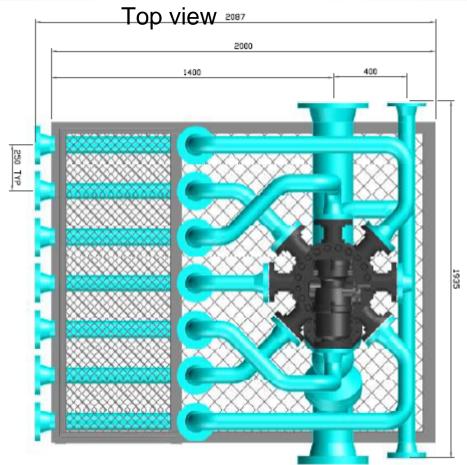
Components:

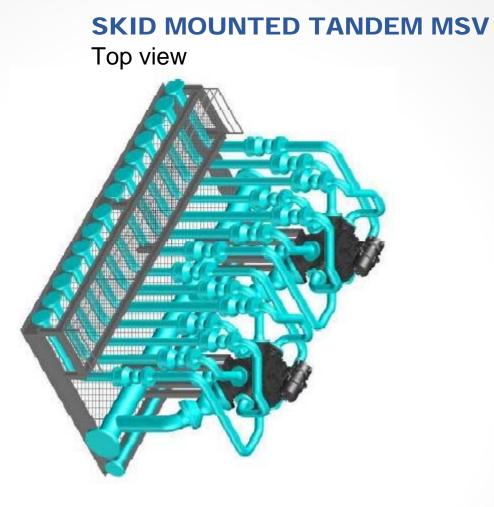
- 1. Multiport Selector Valve (MSV)
- 2. Plug Valves.
- 3. Check Valves.
- 4. Control Panel
- 5. Pipes.
- 6. Skid.

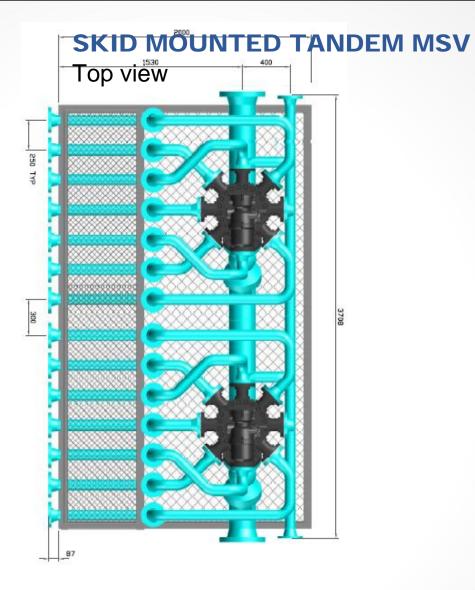
SKID MOUNTED MSV



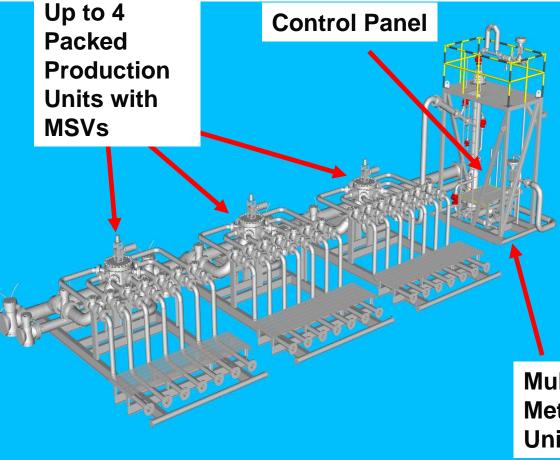
SKID MOUNTED MSV







SATELLITE METERING SYSTEM (SMS)



The Satellite Metering Station is integrated by: •From 1 to 4 Packed Production Units, •One Multiphase Metering Unit (MMU), and •One Remote Control Panel including Plc, RTU, Antenna, etc...

Multiphase Metering Unit

SKID MOUNTED MSV PLATFORM APPLICATION MARACAIBO LAKE





VSM LL65 Lago.

SKID MOUNTED MSV PLATFORM APPLICATION MARACAIBO LAKE

Flow Station LL65



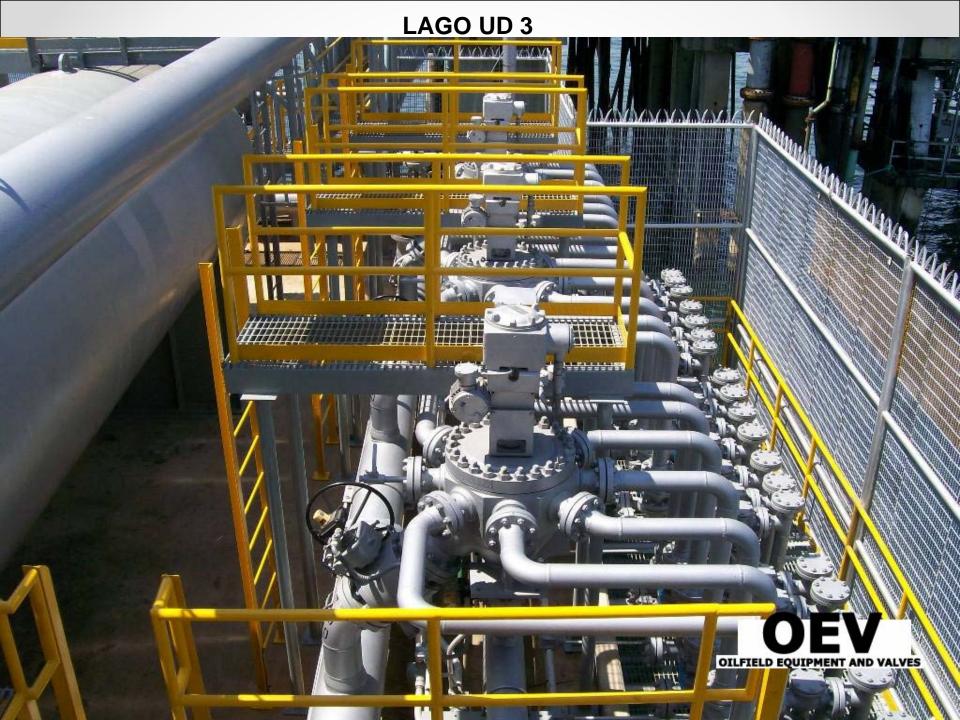
SKID MOUNTED MSV PLATFORM APPLICATION MARACAIBO LAKE

FLOW STATION PB 14











PACKED PRODUCTION ARRANGEMENT

OEV

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OILFIELD EQUIPMENT AND VALVES

PACKED PRODUCTION ARRANGEMENT



SATELLITE METERING STATION

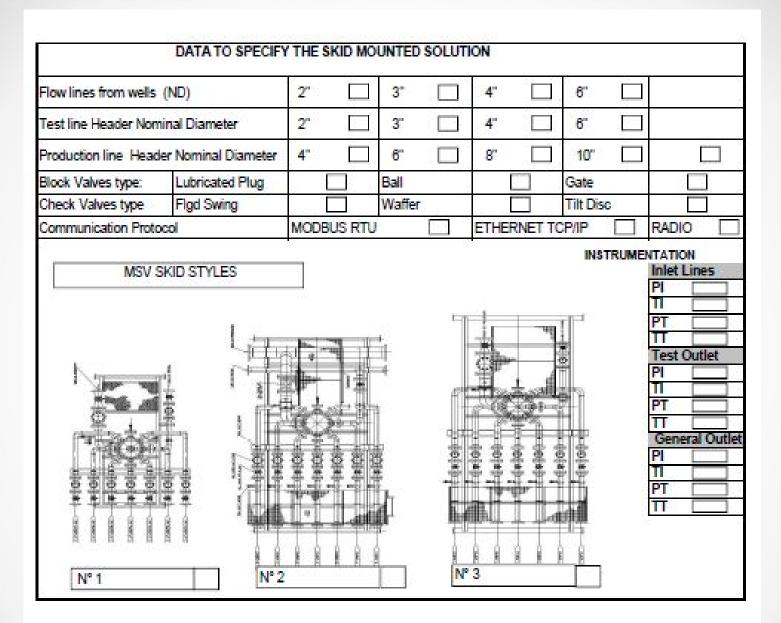


MMU and MSV PDVSA Oil field San Cristóbal



				MULTIPORT	DATA SHEE	10000			
Working Pressure				psig	Oil Density			Lbs/ft3	
Working Temperature			5	°F Gas Density				Lbs/ft3	
Liquid Flow				BBLD	Water Density			Lbs/ft3	
Water Cut				Oil Viscosity			8 ¹	сP	
Gas Flow				mmscfd	Gas Viscosity		2	cP	
the second second				_	STOKEN STATES AND A STOLEN				
Corrosive Service		Yes 🛄	NO 🛄	NACE MR 017		Yes 📃	No		
:02	Yes		% molar		H ₂ S	SI 🗖	ppm		
e: Den:	sity and visc	osity at	operation condition. Of	therwise please note (conditions				
	Nomina	Dian	neter inlet/test x 0	Seneral	2"x4"	3"x6"	4" x 8"	4" x 10"	
				Conection	LP	RF 🗌	RTJ		
				Class ASME	150#	300 #	600 #	900 #	
				a na sa	1500 #	2500 #	2.5		
			ŝ.	Actuation Type		Electic	- Contra - 1980)	3	
					Power Supply	1 Phase	3 Phase		
					Voltage		Volt	1	
					Туре	AC	DC		
		1.00	8	Body (const	uction material)	Carbon Steel	A 216WCB		
	I.	0		Douy (const	doctor material	SS 316L	A 351 CF3MN		
	1	201	1			Duplex	A 995 1B	H	
	-	446				SuperDuplex	A 995 6A	H	
		*				Inconel Clad	UNS 625/825	<u> </u>	
	P	a leis				Other	0.10 020020	H	
	att		i n	Rotor (constr	uction material		A 216WCB		
		0		the feature	a state in the set has	SS 316L	A 351 CF3MN	H	
	ST.	山杉	0			Duplex	A 995 1B		
	66		Sall			SuperDuplex	A 995 6A	<u> </u>	
	10	œ.	<u></u>			Inconel	UNS 625/825	<u> </u>	
		dila.	2			Other	0.10 0201020	<u> </u>	
		111116	38-C		Bolting		04 2H		
					Dording	A 193 B7M / A		<u> </u>	
						Inconel 625/ 8		<u> </u>	

Additional Notes:







OILFIELD EQUIPMENT AND VALVES

