



ORION STEEL VALVES
Company Profile



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ORION STEEL VALVES

Steel Valves

The Company has a world market distribution network and sells its products both to engineering companies and to end users, manufacturing a complete line of steel gate, globe and check valves, as well as a variety of specialty valves such as Y-Pattern, Bellows Seal and valves for specialized services such as Alkylolation, Cryogenic and Lethal service.

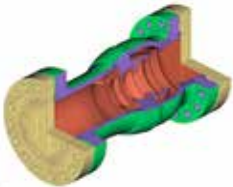
ORION PRESENTS ITS PRODUCT LINE OF STEEL VALVES INCORPORATING NEW AND REVISED DESIGNS, SPECIALLY ENGINEERED TO MEET THE EXACTING DEMANDS AND REQUIREMENTS OF THE PETROCHEMICAL INDUSTRY.

ORION products represent the best the market can offer both from the standpoint of quality of materials incorporated and standard of workmanship. All ORION valves are produced by employing the best raw material, carefully selected, correctly identified and analyzed.

The machining is carried out with the latest equipments according to the most up-to-date methods.

All ORION products are constantly tested and inspected to ensure that governing standards and tolerances are strictly complied with.

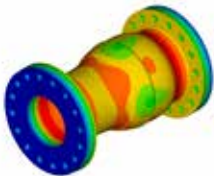
ORION valves are designed to the basic principle of hydrodynamics so that pressure drop and turbulence are reduced, thus allowing a smooth flow of fluids with the minimum of restriction.



The Company's equipment includes high volume transfer machines, bar machines, chucker, NC lathes, milling machines, drill machines, heat treatment equipment and a tool making/grinding shop.

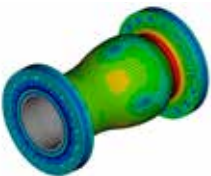
These facilities are complemented through framework agreements with prime foundry suppliers, which guarantee the Company access to the most modern casting techniques and material treatment equipments.

ORION utilizes the latest edition of SOLIDWORKS CAD system and COSMOS FINITE ELEMENTS ANALYSIS engineering software for valve design purposes. The system allows the Company to export drawings and data-sheets to standard MS-Windows PC for an easy and accurate use by the various departments.



Throughout its history, ORION has built and maintained its premier industry position through superior product design, large and flexible production capacity, strong distribution and commitment to customer service.

During the end of the 1990's, ORION management identified, and is actively pursuing, additional opportunities for improving the Company market share position by investing in high tech equipments and tools in order to satisfy the market demand for a top quality and reliable product.

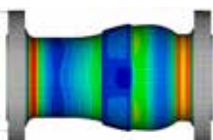


ENGINEERED VALVES AND MAIN FLEXIBILITY TO SATISFY CUSTOMER

REQUIREMENTS ARE OUR **STRENGTH**

THE **HIGHEST TECHNOLOGY LEVEL IN PRODUCT DEVELOPMENT** MEETS A **LONG EXPERIENCE IN VALVES INDUSTRY** FOR ALL APPLICATIONS SUCH AS: LNG, **REFINING**, UPSTREAM, FLOW LINES, **SEAWATER INJECTIONS**

MODERN VALVE **TEST LABORATORY** IN HOUSE





ORION STEEL VALVES Company History

IN ORDER TO CORRECTLY ESTABLISH THE HISTORY AND THE HERITAGE OF THIS COMPANY, WE NEED TO GO BACK TO THE 1950-S. I HAVE DONE THAT, BY SEEKING THE HELD OF THOSE WHO HAVE LIVED WITH ORION OVER THE YEARS, AND HAVE WITNESSED THE VARIOUS CHANGE IN THE PEOPLE, EVENTS, SCENARIOS AND EMOTION THAT ARE AT THE VERY BASIS OF WHAT I CAN DEFINE, WITHOUT BEING ARCAIC, THE "ORION IMMORTALITY".

The sheer willingness to built, produce grow and constantly improve has always been the driving force behind ORION ever since its first days. It gives me great pleasure to share the past history of this Company and shall be honored to be part of its future, through hard work, dedication, improving quality, technologies and client satisfaction.

The FARINA family is involved in the management of several companies in oil, gas and energy industry, through the production of pipes, flanges, fittings and valves.

The birth of ORION also has its roots in a family enterprise; it was in fact thanks to two brothers from Trieste, operating in the naval industry (ship engines maintenance), that ORION started its activity back in 1950.

During these years Italy as a whole and Trieste in particular are struggling to recover from the post war traumas. Almost everything was imported at the time, and Italy was not exactly playing the leading role in the energy sector. Nevertheless the entrepreneurial spirit of the two brothers was the force behind "THE MIRACLE".

The opportunity that marked the turning points was when the modest machine started working with a refinery that at the time was buying valves from the U.S.A.



Thanks to the good relationship with the refinery the two brothers managed to get some drawings and normative for the construction of valves. By 1953 the Company set up the small machine shop includes on foundry and one forging unit. In 1958 ORION, for the first time, operates a complete cycle of valve production.

Along with the trend of those years, ORION developed a truly integrated activity, from raw material to finished goods: the total number of employees rises to 600.

At the beginning of the 1960's new partners joint the two brothers in their enterprise: amongst the most important ones was undoubtedly an American Company, already a worldwide known valve manufacturer.



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It brought into ORION a significant step forward. ORION remains American until 1965, when an international crisis and the collapse of the market forced the American Company to leave the management.

It is at this point that a through re-structuring gets under way: the production process is rationalized through outsourcing and the once possible vertical integration with a complete production cycle is turned into a horizontal integration, whereby some important steps of the production cycle are committed to third party specialized companies.

The political and social impact of ORION in these years is as great as the economic one: we must consider that more than 400 families depend on ORION and it is not surprise that public regional and national companies such as assurance's one and local paper-mill became shareholders.

Eventually, however, it was once again a well known and respected family from Trieste that take over the management of ORION and successfully lead the Company until 1983.

Unfortunately, after the death of the owner in the same year, no valid succession within the family takes place, and ORION is saved by a group of foundries, which see an opportunity to re-create a wholly cycle, from raw to finished products.



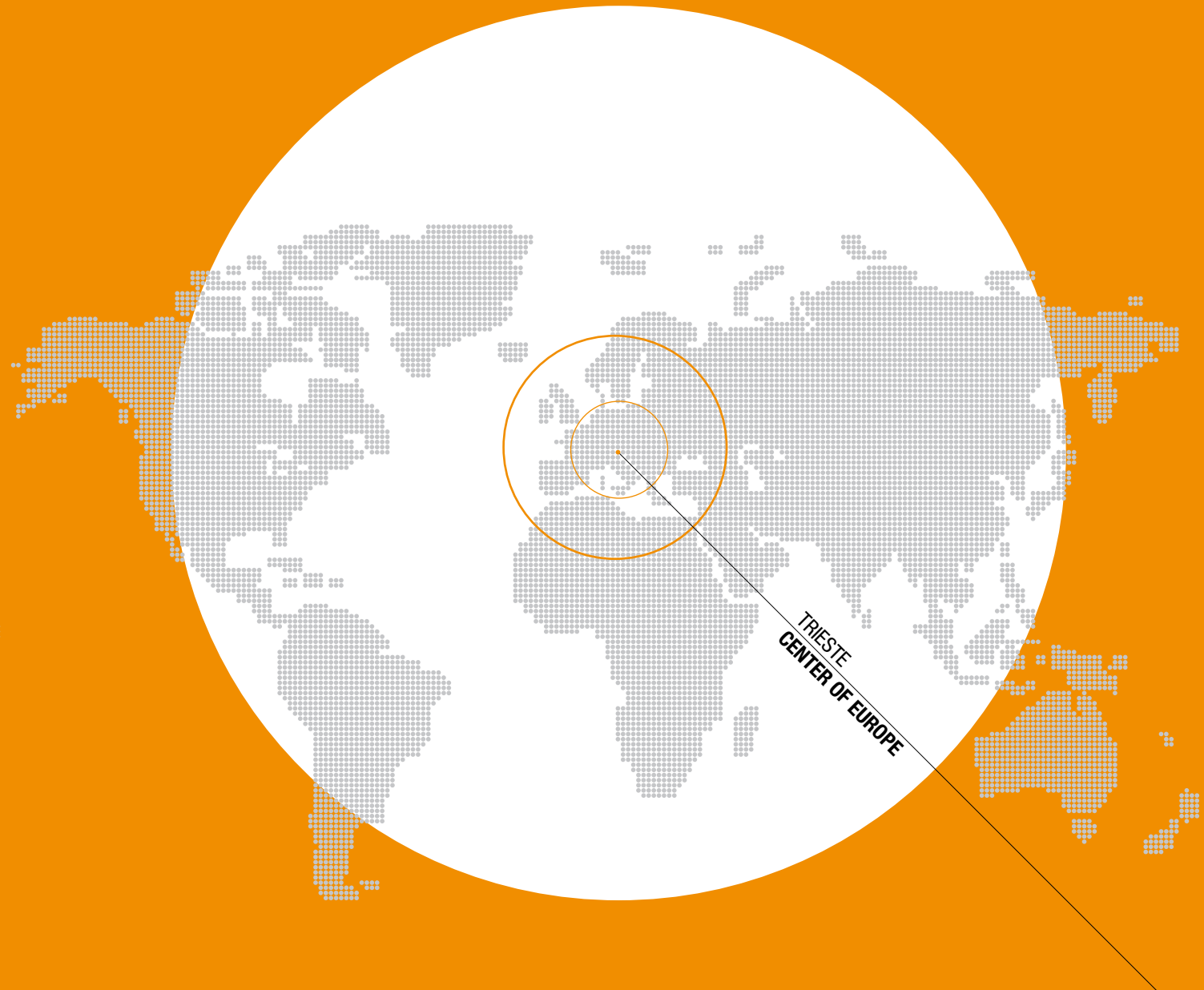
In 1996 ORION is purchased by the FARINA Group.

We look forward, through a continuous effort, to a prosperous future, and ideally joint forces with all management, administration and particularly all employees, past and present for a common success.

Let me take the opportunity to thank all those who are dauly involved in the growth and constant improvement of the ORION name.

LUCA FARINA
CEO

ORION STEEL VALVES Location: TRIESTE



TRIESTE
CENTER OF EUROPE



YEAR	CUSTOMER	PROJECT	DESTINATION
2015	TRANSCANADA PIPELINES	GRAND RAPIDS PIPELINE PROJECT	CANADA
2014	AIR LIQUIDE THROUGH SOFINTER S.P.A. DIV. MACCHI	NATGASOLINE METHANOL PROJECT	USA
	NEXEN ENERGY ULC	LONG LAKE - NEXEN OIL SANDS STANDARD WELLPAD PROJECT	CANADA
2013	TRANSCANADA KEYSTONE PIPELINE, LP	HOUSTON TANK TERMINAL	USA
	IOWA FERTILIZER COMPANY (IFCO) THROUGH TECNIMONT	AMMONIA & PROCESS OSBL PROJECT	USA
	SHELL PIPELINE COMPANY LP / MUSTANG	HO-HO REVERSAL, PHASE 3	
	SPARTAN CONTROLS LTD	HOUSTON TANK TERMINAL HIGH PRESSURE DELIVERY SYSTEM	
2012	TRANS MOUNTAIN PIPELINE L.P. THROUGH KINDER MORGAN	EDMONTON TERMINAL EXPANSION	CANADA
	EXXONMOBIL CANADA / WORLEYPARSONS CANADA	HEBRON TOPSIDES PROJECT	USA
2011	SHELL PIPELINE COMPANY LP	HO-HO REVERSAL, PHASE 2	
	TRANSCANADA THROUGH UPSIDE ENGINEERING	KEYSTONE OIL PIPELINE PROJECT - HARDISTY WEST INTERCONNECT	CANADA
2010	TRANSCANADA KEYSTONE PIPELINES LIMITED PARTNERSHIP	KEYSTONE OIL PIPELINE PROJECT- NEDERLAND DELIVERY STATION, TX, USA	USA
	ENBRIDGE PIPELINES (ATHABASCA) INC.	WOODLAND PIPELINE PROJECT - CANADA	CANADA
2009	TRANSCANADA KEYSTONE PIPELINES LIMITED PARTNERSHIP	KEYSTONE OIL PIPELINE PROJECT - CUSHING DELIVERY STATION, OK, USA	USA
	DEVON ENERGY CORPORATION	JACKFISH PROJECT	CANADA
2008	TRANSCANADA	KEYSTONE XL OIL PIPELINE PROJECT	CANADA / USA
	TRANSCANADA PIPELINE LTD. THROUGH SNC LAVALIN / BECHTEL	KEYSTONE OIL PIPELINE PROJECT	
2007	SNC LAVALIN INC.	TERASEN PIPELINE CPX1 FACILITIES EXPANSION PROJECT	CANADA
2006	CRANE SUPPLY	TERASEN PIPELINE PROJECT	
2005	CHEVRON TEXACO THROUGH BONNEY FORGE	CLEANERS FUELS REFINERY PROJECT	USA
	TECHNIP / CANADIAN NATURAL'S	2213 HORIZON OIL SANDS PROJECT - PRIMARY UPGRADING	CANADA



ORION STEEL VALVES

Reference List

OF RECENT JOBS

YEAR	CUSTOMER	PROJECT	DESTINATION
2015	PETROPERU' THROUGH TECNICAS REUNIDAS	TALARA REFINERY MODERNIZATION PROJECT	PERU'
2014	PEMEX (PETROLEOS MEXICANOS)	LOW COMPRESSION PLATFORM LITORAL-A	MEXICO
	TOTAL E&P BOLIVIE	INCAHUASI AND AQUIO FIELD DEVELOPMENT	BOLIVIA
2013	BERGESEN WORLDWIDE LMTD	FPSO YÜUM K'AK'NÁAB	MEXICO
	BRAZILIAN DEEPWATER FLOATING TERMINALS INC. / SHELL	FPSO ESPIRITO SANTO TAMBÁ BV - BC10 FIELD	BRASIL
	CONSÓRCIO TECHNIP – TECHINT P-76 / PETROBRAS	CESSÃO ONEROSA AREA DEVELOPMENT	
	PDVSA	PDVSA PROJECT	VENEZUELA
	PETROBRAS / COMPERJ THROUGH SOFINTER SPA div. MACCHI	RIO DE JANEIRO PETROCHEMICAL COMPLEX	BRASIL
	PETROBRAS THROUGH SOFINTER SPA DIV. MACCHI	UNIDADE FERTILIZANTES NITROGENADOS III	
2012	BRASKEM IDESA SAPI THRU TECHNIP ITALY	ETILENO XXI PROJECT	MEXICO
	PDVSA	RPLC DEEP CONVERSION PROJECT	VENEZUELA
	PETROBRAS - ABASTECIMENTO	RAFINARIA DO NORDESTE - ABREU E LIMA - RNEST	BRASIL
	PETROBRAS NETHERLANDS B.V. / ENG. SINGLE BUOY MOORINGS INC.	FPSO CIDADE DE ILHABELA	
	OLEODUCTO BICENTENARIO DE COLOMBIA S.A.S. / ECOPELROL	COVENAS TERMINAL EXPANSION PROJECT	COLOMBIA
	UTE PERNAIBA GERAÇÃO DE ENERGIA S.A. THRU INITEC ENERGIA	MPX UTE PERNAIBA GAS PLANT - PHASE 4	BRAZIL
	YACIMIENTOS PETROLÍFEROS FISCALES BOLIVIANOS	PLANTA DE SEPARACION DE LIQUIDOS POR TURBO EXPANSION DE GRAN CHACO	BOLIVIA
2011	CARRIBEAN NITROGEN COMPANY LTD	CNC AMMONIA PLANT - CNC STABILIZATION AND UPGRADE	TRINIDAD AND TOBAGO
	PEMEX (PETROLEOS MEXICANOS)	TUZANDEPETL PROJECT	MEXICO
	REPSOL BOLIVIA THROUGH TECNICAS REUNIDAS	PLANTA MARGARITA PROJECT - NUEVA PLANTA DE GAS CENTRAL PROCESSING FACILITIES	BOLIVIA
2009	PACIFIC RUBIALES ENERGY/ OLEODUCTO DE LOS LLANOS ORIENTALES S.A. / ECOPELROL	OLEODUCTO DE LOS LLANOS ORIENTALES	COLOMBIA
	PETROBRAS	REGAP - GABRIEL PASSOS REFINERY BETIM	BRASIL
2008	PETROQUIMICA DE VENEZUELA S.A. THROUGH PROMAN / FERROSTAAL	MORÒN AMMONIA PLANT	VENEZUELA
2007	PROMAN GMBH	METHANOL HOLDING LTD - AUM COMPLEX (MHTL) - AMMONIA AND UREA PLANT (2040 MTPD)	TRINIDAD AND TOBAGO
2006	SUPEROCTANOS C.A. THROUGH SNAMPROGETTI	MTBE CONVERSION INTO ISOCTANE	VENEZUELA
2005	PETROBRAS THROUGH KANFA (NORWAY)	PIRANEMA FIELD OFFSHORE PROJECT (FPSO)	BRASIL
	TECHNIP ITALY	LOW SULFUR DIESEL PRODUCTION	CHILE
2003	JV ABB LUMMUS / SNAMPROGETTI	RIO POLIMEROS	BRASIL
	KVAERNER PROCESS SYSTEM AS (PETROBRAS BRASIL)	ALBACORA LESTE - SULPHATE REMOVAL PROJECT	
	TOYO ENGINEERING CORP: JAPAN / PETROBRAS S.A. (CLIENT: REFAP S.A.)	REFAP SECOND EXPANSION PROJECT	
1997	EXXON QUIMICA LTDA	SUNFLOWER PROJECT – BRASIL	BRASIL
1996	PDVSA-BARIVEN	VARIOUS PROJECTS	VENEZUELA
	PDVSA-CORPOVEN	VARIOUS PROJECTS	
	PDVSA-LAGOVEN	VARIOUS PROJECTS	
1995	SNAMPROGETTI	PEMEX HIDALGO REFINERY	MEXICO



YEAR	CUSTOMER	PROJECT	DESTINATION
2015	VERSALIS S.P.A. THROUGH SAIPEM S.P.A.	NUOVO IMPIANTO EP(D)M-GP27	ITALY
	STATOIL PETROLEUM AS	ÅSGARD B	NORWAY
		GULLFAKS A	
		KOLLSNES	
		KRISTIN	
		MONGSTAD	
		NORNE	
		HEIDRUN	
		VESLEFRIKK	
		SNORRE A	
		KVITEBJORN	
		TROLL	
		MONGSTAD	
		KARSTO	
		TJELDBERGODDEN	
SNØHVIT MELKØYA			
STATFJORD C PROJECTS			
PREMIER OIL UK LMTD THROUGH BW OFFSHORE LTD	CATCHER FPSO PROJECT	U.K.	
	NORTH SEA		
2014	ENEL GREEN POWER S.P.A. - DIVISIONE ENERGIE RINNOVABILI	PRODUZIONE GEOTERMICA - LARDERELLO	ITALY
	MARATHON OIL NORGE AS	FPSO ALVHEIM	NORWAY
	NORSKE SHELL	ORMEN LANGE PROJECT	
	SAIPEM SPA / ENI SPA EXPLORATION & PRODUCTION DIVISION	AQUILA PHASE 2	ITALY
	SAIPEM SPA - NORWEGIAN BRANCH	SCARABEO 5	NORWAY
	TALISMAN SINOPEC ENERGY (UK) LTD	FLYNDRE CAWDOR OVER CLYDE EPCC	U.K.
	TOTAL E&P NORGE AS	MARTIN LINGE TOPSIDES EPSCC PROJECT	NORWAY
	TOTAL OLEFINS ANTWERP NV THROUGH KINETICS TECHNOLOGY SPA	REFINERY OFF GAS (ROG) PROJECT KE156	BELGIUM
2013	CONOCOPHILLIPS	ALDER TOPSIDES PROJECT	U.K.
	ENI EXPLORATION & PRODUCTION	POTENZIAMENTO SVILIPPO VAL D'AGRI OTTIMIZZAZIONE UPGRADING WATER INJECTION	ITALY
	GDF SUEZ E&P UK LTD. THROUGH MRC TRANSMARK LTD	CYGNUS DEVELOPMENT PROJECT	U.K.
	JSC "LATVIJAS GĀZE" THROUGH SIA "ALGS RIGA"	INČUKALNS UNDERGROUND GAS STORAGE FACILITY	LATVIA
	MAERSK OLIE OG GAS AS THROUGH MARINE TECHNIC	HALFDAN BHBD FACILITIES	DENMARK
	MARATHON PETROLEUM COMPANY	ALVHEIM PROJECT	NORWAY
	SHELL UK LTD	EPC LIVING QUARTER CLIPPER PROJECT	U.K.
	SOCIETÀ ITALIANA PER L'OLEODOTTO TRANSALPINO S.P.A.	RELOCATION OF LINES AT PIAZZALE DOGANA	ITALY
	STATOIL / AIBEL AS	KOLLSNES PROJECT	NORWAY
		STATFJORD C PROJECT	
	STATOIL / APPLY SORCO AS	GULLFAKS SUBSEA COMPRESSION TOPSIDE AND PLATFORM	
	STATOIL AS THROUGH AIBEL AS	SFB - SYSTEMOPPGAVER MEKANISM - STATFJORD FIELD	
	STATOIL AS THROUGH REINERTSEN AS	GRANE GAS COOLER PROJECT	
	STATOIL / FMC	HEIDRUN FSU FISCAL METERING SYSTEM	
	STATOIL THROUGH AKER SOLUTIONS	GINA KROG TIE-IN TO SLEIPNER EPCC	
STATOIL THROUGH DRESSER RAND AS	MARINER PROJECT		



YEAR	CUSTOMER	PROJECT	DESTINATION
2013	STATOIL PETROLEUM AS THROUGH AKER SOLUTIONS	SNORRE A PLATFORM	NORWAY
	STATOIL PETROLEUM AS	GULLFAKS, HEIDRUN, VESLEFRIKK, ASGARD, SLEIPNER	
	STATOIL PETROLEUM AS	ASGARD, SLEIPNER, NORNE	
	STATOIL / SAAS	ÅSGARD PROJECTS	
	STATOIL / SAAS	POLARBASE - SNOHVIT MELKOYA + GULLFAKS 0050C	
	STATOIL THROUGH KANFA ARAGO	AASTA HANSTEEN TOPSIDE EPC PROJECT	
	SMOE PTE LTD / DET NORSKE	IVAR AASEN FIELD DEVELOPMENT PROJECT	
	SOCIETÀ ITALIANA PER L'OLEODOTTO TRANSALPINO S.P.A.	RELOCATION OF LINES AT PIAZZALE DOGANA	ITALY
	TOTAL ANTWERPEN REFINERY N.V. THROUGH FOSTER WHEELER S.P.A.	HDS4 REVAMP PROJECT	BELGIUM
	TOTAL - FINA ANTWERP OLEFINS N.V.	FAO APOLLO PROJECT 2012	
	TOTAL RAFFINADERIJ ANTWERPEN NV	OPTARA PROJECT	
2012	DONG E&P A/S	HEJRE DEVELOPMENT PROJECT	DENMARK
	ENEL GREEN POWER S.P.A. - DIVISIONE ENERGIE RINNOVABILI PRODUZIONE GEOTERMICA	FRAME AGREEMENT FOR GATE CLADDED VALVES	ITALY
	ITHACA ENERGY, UK THRU PETROFAC	GREATER STELLA AREA (GSA) DEVELOPMENT UK CNS-PPF1 REFURBISHMENT	UNITED KINGDOM
	LUKOIL NEFTOCHIM BOURGAS AD THRU TECHNIP ITALY	HEAVY RESIDUE PROCESS COMPLEX FIRST PHASE	BULGARIA
	SIEMENS OIL & GAS OFFSHORE AS / AKER SOLUTIONS	EDVARD GRIEG EPC TOPSIDE PROJECT	NORWAY
	STATOIL PETROLEUM AS	TJELDBERGODDEN METANOL PLANT - DUAL PLATE CHECK WAFER PACKAGE	
	STATOIL PETROLEUM AS	GJEF PIGGING WATER INJECTION AT HEIDRUN	
		TJELDBERGODDEN METHANOL PLANT	
	STOGIT SPA / SNAM RETE GAS THROUGH SAIPEM SPA	CAMPO DI STOCCAGGIO GAS BORDOLANO (CR)	ITALY
TOTAL NORMANDY REFINERY THROUGH TECNICAS REUNIDAS SA	RN DG05 ISBL PROJECT	FRANCE	
2011	ENAGAS	GASODUCTO YELA-VILLAR DE ARNEDO	SPAIN
	ENEL GREEN POWER S.P.A.	PRODUZIONE GEOTERMICA - LARDERELLO	ITALY
	ENI NORGE AS / STATOIL PETROLEUM AS THROUGH HYUNDAI HEAVY INDUSTRIES CO.,LTD.	GOLIAT FPSO PROJECT	NORWAY
	TOTAL NORMANDY REFINERY THROUGH TECHNIP FRANCE	DHC & SMR DEBOTTLENECK PROJECT	FRANCE
	TOTAL NORMANDY REFINERY THROUGH TECNIMONT SPA	D11 UNIT - H101 FURNACE REVAMP	
2010	ENAGAS	GASODUCTO YELA-VILLAR DE ARNEDO	SPAIN
	ENEL GREEN POWER S.P.A.	PRODUZIONE GEOTERMICA - LARDERELLO	ITALY
	E.ON RUHRGAS UK E&P LIMITED & SEVAN MARINE AS	HUNTINGTON FIELD DEVELOPMENT	NORTH SEA NORWAY
	RAFFINERIA DI MILAZZO (RAM) / LINDE	P-1409 NUOVA UNITÀ PRODUZIONE IDROGENO HMU3 - MILAZZO (ME)	ITALY
	SHELL NEDERLAND	SHELL NEDERLAND RAFFINADERIJ B.V. - INTEGRATED HDS-6 PROJECT	THE NETHERLANDS
2009	CORINTH REFINERIES S.A. THROUGH MOTOR OIL HELLAS	CORINTH REFINERIES PROJECT	GREECE
	ENAGAS	ALMACENAMIENTO ENAGAS YELA - SPAIN	SPAIN
	ENI	IMPIANTO VACUUM RAFFINERIA ENI SAN NAZZARO DE BURGONDI	ITALY
	ENI S.P.A.	STABILIMENTO DI SARROCH - CAGLIARI	
	ENI SPA EXPLORATION & PRODUCTION DIVISION	AQUILA PHASE 2	
	GATE LNG TERMINAL B.V. / TS LNG B.V.(JV TECHINT S.P.A. AND SENER INGENIERIA Y SISTEMAS A.A.	LNG RECEIVING TERMINAL, MAASVLAKTE ROTTERDAM	THE NETHERLANDS
GRUPA LOTOS S.A. / TECHNIP ITALY	PROJ. 2328 - BUTANE DEASPHALTING SDA/ROSE PROJECT	POLAND	



YEAR	CUSTOMER	PROJECT	DESTINATION
2009	MAERSK OLIE OG GAS AS	HALFDAN B,HBD FACILITIES	DENMARK
	MURCO PETROLEUM / M.K.KELLOGG	MURCO MEX2010 - MILFORD HAVEN	UNITED KINGDOM (GALLES)
	RAFFINERIA ISAB IMPIANTI SUD DI PRIOLO GARGALLO (SR)	PROGETTO REVAMPING UNITÀ 400	ITALY
	THESSALONIKI REFINERY	CRUDE OIL STORAGE TANKS PROJECT	GREECE
2008	FLUOR S.A. - ENAGAS	TERMINAL DE REGASIFICATION DE GNL DE GIJON	SPAIN
	NESTE OIL OYI THROUGH TECHNIP ITALY	2308 - ROTTERDAM NEXBTL PLANT PROJECT - CAST VALVES	THE NETHERLANDS
	SOCIETA' ITALIANA PER L'OLEODOTTO TRANSALPINO (S.I.O.T.)	PARCO SERBATOI III - PIGGABILITY PROJECT	ITALY
	TECHNIP ITALY	PROJ. 2299 - GDANSK REFINERY RESIDUE UPGRADING PROJECT (GRUPA LOTOS S.A.)	POLAND
	TECNICAS REUNIDAS	PROJECT 4008 - 5° TANQUE DE GNL FB-251 PLANTA DE CARTAGENA - ENAGAS	SPAIN
2007	KANFA AS	OLOWI PROJECT - PROJECT NO.KA40036 FRED OLSEN FPSO CNR INTERNATIONAL	NORWAY
		PROJECT SSP300 SHELLY FIELD - KA40045 CLIENT SEVAN MARINE	
	TECHNIP ITALY	PROJ. 2277 - HDS VII PLANT - PKN ORLEN SA - POLAND	POLAND
2006	AKER KVAERNER	AKER H-6E DRILLING RIG PROJECT	NORWAY
	KANFA AS	PROJECT TOPSIDE FOR CHESTNUT	
2005	BERGESEN PEMEX	BERGESEN PEMEX KU-MALOOP-ZAAP PROJECT	NORWAY
	EDISON - STF	CENTRALE TERMOELETTTRICA A CICLO COMBINATO DI SIMERI CRICHI	ITALY
	MARATHON PETROLEUM COMPANY - VETCO	ALVHEIM PROJECT	NORWAY
	NESTE ENGINEERING OY	NATURAL GAS PROJECT SPECIFICATION FOR VALVES	FINLAND
2004	ENI POWER ITALY	307710 PROGETTO MANTOVA	ITALY
	EXXON MOBIL	SAGE TERMINAL EXPANSION ATLANTIC CROMARTY PROJECT ST. FERGUS	NORTH SEA
	FOSTER WHEELER ITALIANA	ERG RAFFINERIE MEDITERRANEE S.R.L. COMPLETAMENTO CTE UNITÀ 2000A / 1-BD-0215A	ITALY
	LINDE IMPIANTI ITALIA	ETYLEN PLANT (REVAMP) AT RAFNES/NORWAY-NORETYL	NORWAY
	SNAMPROGETTI	C/O ENI SPA-DIV.REFINING & MARKETING-RAFFINERIA DI SAN NAZZARO DE BURGONDI (PV)	ITALY
	STATOIL - NORWAY	KÅRSTO PLANT - NORWAY	NORWAY
	TECHNIP COFLEXIP (FOR MOTOR OIL HELLAS)	2141 REFINERY EXPANSION 2005 - SPECS MOTOR OIL (HELLAS) CORINTH REFINERY	GREECE
	TECNOIL SUISSE – ANSALDO	ENIPOWER PROJECTS FOR SITES BRINDISI FERRARA MANTOVA RAVENNA	ITALY
2003	LINDE ITALIA IMPIANTI (FOR STATOIL)	KOLLSNES PROJECT	NORWAY
	TECHNIP ITALY	FCC-REGENERATOR FLUE GAS CLEANING	ITALY
1999	STONE & WEBSTER	KGXX EXPANSION – BP CHEMICALS	G. BRITAIN



YEAR	CUSTOMER	PROJECT	DESTINATION
2014	JSC YAMAL LNG THROUGH TECHNIP FRANCE	YAMAL LNG PROJECT	RUSSIA
	LUKOIL OIL COMPANY THROUGH TECNICAS REUNIDAS	VGO DEEP CONVERSION COMPLEX (1st Stage)	
	RN-TUAPSINSKY NPZ	UNIT 3000 – INTEGRATED HYDRTOCRACKING AND HYDROTREATING UNIT / NEFTECHIMPROEKT	
	SAKHALIN ENERGY INVESTMENT COMPANY LTD	LUN-A CRI WELL LA-519 HOOKUP	
	TATNEFT-TANECO	TATNEFT-TANECO PROJECT	
2013	LUKOIL TRADE HOUSE, CJSC	KORCHAGIN OFFSHORE ICE-RESISTANT STATIONARY PLATFORM (MISP)	
2012	AMMONI, REPUBLIC OF TATARSTAN (ENGINEERING: MITSUBISHI HEAVY INDUSTRIES, LTD)	TAF PROJECT	
2011	SAKHALIN ENERGY INVESTMENT COMPANY	SAKHALIN II PHASE II PROJECT FACILITIES DESIGN	
2004	OMS / AMEC	SAKHALIN ISLAND OFFSHORE PLANT	
	SAKHALIN ENERGY INVESTMENT COMPANY, LTD	SAKHALIN PROJECT	
	SAMSUNG	SAKHALIN II PROJECT	
2000	FERROSTAAL PIPING SUPPLY FOR LUKOIL	PERMMNEFTEORGSINTES PROJECT	



YEAR	CUSTOMER	PROJECT	DESTINATION
2014	SONATRACH ACTIVATE AMONT THROUGH PETROFAC	ALRAR INLET SEPARATION AND BOOSTING FACILITIES	ALGERIA
	TULLOW GHANA LIMITED / MODEC	TEN DEVELOPMENT PROJECT: FPSO PACKAGE	GHANA
2013	NIGERIAN NATIONAL PETROLEUM CORPORATION	-	NIGERIA
	NMPP ALLIANCE	TRANSNET LIMITED PROJECT	SOUTH AFRICA
	TULLOW GHANA LIMITED / MODEC	TEN DEVELOPMENT PROJECT: FPSO PACKAGE	GHANA
2012	CAIRO ELECTRICITY PRODUCTION COMPANY	GIZA NORTH 1500 MW COMBINED CYCLE POWER PROJECT	EGYPT
2011	SONATRACH THROUGH SAIPEM S.A.	HASSI MESSAOUD ET SEPARATION D'HUITES LDHP ZCINA	ALGERY
2010	ABB SPA / SARPI / PETROJET	EL MERK PROJECT OFFSITES FACILITIES (LOTS 3&4)	ALGERY
	NAFTEC SPA / HYUNDAI ENGINEERING CO.,LTD HANWHA ENGINEERING & COSTRUCTION	ARZEW REFINERY REHABILITATION AND ADAPTION PROJECT	
	SONATRACH THROUGH SAIPEM S.P.A.	SONATRACH GNL-3Z PROJECT, ARZEW ALGERIA - CRYOGENIC	
2009	BP ANGOLA / MODEC	BP ANGOLA FPSO DEVELOPMENT	ANGOLA
	GROUPEMENT BERKINE SONATRACH-ANADARKO	GAS DISTRIBUTION SYSTEM ENHANCEMENTS	ALGERY
	MELLITAH OIL & GAS BV THROUGH MUSTANG ENG.	BOURI GRM PROJECT	LIBYA
	MIDOR – MIDDLE EAST OIL REFINERY	2364 - HYDROCRACKER REHABILITATION PROJECT	EGYPT
	mitsubishi THROUGH SOFINTER MACCHI	ALGERIA ARZEW FERTILIZER	ALGERY
	SONATRACH THROUGH SAIPEM SA	LPG HASSI MESSAOUD	
	TOTAL EXPLORATION & PRODUCTION	TOTAL ANGOLA E&P PROJECT	ANGOLA
2008	BELAYIM PETROLEUM COMPANY (PETROBEL) THROUGH BREDIA ENERGIA S.P.A.	TUNA GAS GATHERING PROJECT - TEMSAH PLANT - SUBSEA CHECK VALVES	EGYPT
	TOTAL EXPLORATION & PRODUCTION	TOTAL CONGO E&P PROJECT	CONGO
2007	MEDGAZ S.A.	ONSHORE FACILITIES EPIC PROJECT BSCE	ALGERY
2005	BENTINI	SONATRACH/TRC - REALISATION DES STATION DE POMPAGE SP2(BISKRA) ET SP3(M'SILA) DE L'OLEODUC OB1-HAOU EL HAMRA A BEJAIA	
2004	HYUNDAI HEAVY INDUSTRIES	WESTERN LYBIA GAS PROJECT (AGIP GAS) SABRATH PLATFORM	LIBIA
	SONATRACH – BP	INAMENAS ALGERIE PROJECT	ALGERY
2003	BECHTEL LIMITED	BRITISH GAS - TUNISIA MISKAR PROJECT	TUNISIA
	JGC CORPORATION	WESTERN LIBYA GAS PROJECT - WAFI PLANTS	LIBYA
2002	JGC CORPORATION – GROVE DRESSER	OURHOUD PROJECT	ALGERIA
1996	CEYLON PETROLEUM	COLOMBO REFINERY	CEYLON
	METRAGAS-INITEC	MAROC POWER PLANT	MAROC
	METRAGAZ	GAZODUC MAGHREB EUROPE	TUNISIA
1995	ENNPI	ASSIUT REFINERY	EGYPT
	NOELL LGA	MALTA OILTANKING	MALTA
	SNAMPROGETTI	BOURI FIELD	ALGERIA
1994	SIFCA	EGPC ALEXANDRIA	EGYPT
	SUEZ OIL	GPP 133/94 PROJECT	



YEAR	CUSTOMER	PROJECT	DESTINATION
2015	YEMEN LNG COMPANY LTD	OIL&GAS PRODUCTION	YEMEN
	ADCO THROUGH CONSORTIUM GS E&C & DODSAL RUMAITHA	SHANAYEL FACILITIES - PHASE III	U.A.E.
	KUWAIT OIL COMPANY (KOC) THROUGH SANCO	REPLACEMENT OF DUAL TANK AT GC-04 AND DRY TANK AT GC-21	KUWAIT
	BP EXPLORATION (EPSILON) LIMITED THROUGH PETROFAC CENTRAL PROCESSING FACILITY(CPF)	KHAZZAN PROJECT	OMAN
	ADCO	ADCO AGREEMENT	U.A.E.
2014	ADCO	BAB FAR NORTH CO2 INJECTION PROJECT / ADCO AGREEMENT SAHIL AND SHAH FULL FIELD DEVELOPMENT PROJECT	U.A.E.
	ADCO / GALFAR ENGINEERING	EPC FOR NEW WAG WELLS & CONVERSION OF EXISTING GAS INJECTORS WELLS TO WAG WELLS AT SAHIL	
	ADCO THROUGH PETROFAC	EPC FOR ASAB FFD PROJECT	
	ADMA-OPCO THROUGH HYUNDAI ENGINEERING & COSTRUCTION	SATAH AL RAZBOOT (SARB) FIELD DEVELOPMENT PROJECT	
	ADMA-OPCO THROUGH MCDERMOTT MIDDLE EAST	D6221 ADMA OPCO - 4GI, WP3A AND 3 BARREN TOWERS PROJECT	
	ADMA-OPCO THROUGH NPCC	ZAKUM OIL LINES REPLACEMENT PROJECT (PHASE-1)	
	ADMA-OPCO THROUGH NPCC/TECHNIP	UMM LULU FULL PHASE II FIELD DEVELOPMENT PROJECT	
	AL-JULIAH TRADING & CONTRACTING CO. W.L.L. FOR KOC	CENTRAL SEAWATER INJECTION PLANT NK REBUILDING OF DAMAGED FACILITIES AT GC-15 AND BS-130	KUWAIT
	CHIYODA ALMANA ENGINEERING LLC / RASGAS COMPANY LIMITED	FLOW ASSURANCE PROJECT (FAP) RGX2 SOURWATER DEGASSERS (U-87A) MODIFICATION PROJECT	QATAR
	IBN SINA NATIONAL METHANOL COMPANY / DRAGADOS INDUSTRIAL & INTECSA INDUSTRIAL	IBN SINA POLYOXYMETHYLENE PROJECT	SAUDI ARABIA
	KGOC (KUWAIT GULF OIL COMPANY) & AGOC (ARAMCO GULF OPERATIONS COMPANY) THROUGH TECHNIP	KGOC GAS AND CONDENSATE EXPORT SYSTEM	
	LUKOIL OIL COMPANY / TOYO ENGINEERING THROUGH EMERSON	WEST QURNA FIELD 2ND PHASE PROJECT	IRAQ
	MASDAR / ADNOC THRU DOSDAL	ESI CARBON CAPTURE AND STORAGE (CCS) PROJECT	U.A.E.
	PETROFAC / ADCO	BAB HABSHAN-1 DEVELOPMENT PROJECT (PHASE-1)	
	PETROLEUM DEVELOPMENT OMAN LLC / WORLEY PARSONS OMAN	AMAL STEAM SURFACE FACILITIES PROJECT – phase 1A	OMAN
	QATARGAS OPERATING COMPANY LIMITED	QG2 FLARE REDUCTION PROJECT EARLY MECHANICAL TIE-INS	QATAR
	QATAR SHELL GTL LIMITED / QATAR KENTZ WLL THROUGH MRC	FGP GRVE IMPROVEMENT PROJECT	
	RASGAS COMPANY LIMITED THROUGH CHIYODA ALMANA ENGINEERING	FLOW ASSURANCE PROJECT (FAP)	SAUDI ARABIA
	SAIPEM S.P.A. / SAFCO (SAUDI ARABIAN FERTILIZER COMPANY)	SAFCO V - UREA STAND ALONE PROJECT	
	SAIPEM SPA / SAUDI ARAMCO	ARABIYAH & HASBAH OFFSHORE AND ONSHORE FACILITIES	
	SAUDI ARAMCO	DAYLIGHTING PHASE III PIPELINE PROJECT	
	SAUDI ARAMCO THROUGH HANWHA ENGINEERING & CONSTRUCTION	JAZAN REFINERY AND TERMINAL PROJECT	
	SAUDI ARAMCO THROUGH MCDERMOTT MIDDLE EAST INC.	ARABIYAH & HASBAH OFFSHORE AND ONSHORE FACILITIES	
SAUDI ARAMCO THROUGH MCDERMOTT MIDDLE EAST INC.	ARAMCO NORTH DOME PROJECT		
SAUDI ARAMCO THROUGH SKEC	JAZAN REFINERY AND TERMINAL PROJECT		
SAUDI BASIC INDUSTRIES CORPORATION (SABIC - JUBAIL)	UNITED FURNACE-9 PROJECT		
SAUDI BINLADIN GROUP THROUGH EUSEBI IMPIANTI	KING ABDULAZIZ INTERNATIONAL AIRPORT DEVELOPMENT PROJECT PHASE-1		
ZADCO (ZAKUM DEVELOPMENT COMPANY) THROUGH ABB SPA	EPC FOR POWER UPGRADE AT ZIRCU	U.A.E.	



YEAR	CUSTOMER	PROJECT	DESTINATION
2013	ABU DHABI POLIMERS COMPANY LIMITED (BOROUGE)	BOROUGE PETROCHEMICALS JVP-EU-003	U.A.E.
	ADMA-OPCO THROUGH CCC	100 MBD DAS FACILITIES UPGRADE PROJECT SCOPE B (COMMON UTILITIES) EPC PHASE	
	ADCO / MATRIX CONSTRUCTION	EPC FOR BATCH 1 PLANT MODIFICATIONS AT BU HASA	
	ADCO THROUGH NPCC	QUSAHWIRA FULL FIELD DEVELOPMENT 1.8 MMBOPD PJ	
	AL-JULIAIAH TRADING & CONTRACTING CO. W.L.L. FOR KOC	INSTALLATION OF FLOWLINES & ASSOCIATED WORKS IN NORTH KUWAIT AREA	KUWAIT
	AL-KHAFJI JOINT OPERATIONS (KJO) THROUGH JGC GULF INTERNATIONAL	KJO WATER TREATMENT FACILITIES PHASE-3	SAUDI ARABIA
	DOLPHIN ENERGY LIMITED	EXPORT GAS COMPRESSION FACILITY UPDATE	QATAR
	DOLPHIN ENERGY THROUGH SOFINTER SPA div. MACCHI	EGC EXPANSION PROJECT	
	GASCO (ABU DHABI GAS INDUSTRIES LTD.)	HABSHAN ACID GAS FLARE RECOVERY PROJECT	U.A.E.
	HANWHA ENGINEERING & CONSTRUCTION / SAUDI ARAMCO	JAZAN REFINERY AND TERMINAL PROJECT	SAUDI ARABIA
	HYUNDAI ENG & COSTRUCTION CO.,LTD / ADMA OPCO	SATAH AL RAZBOOT (SARB) FIELD DEVELOPMENT PROJECT	U.A.E.
	KUWAIT OIL COMPANY THROUGH SAIPEM	NEW BOOSTER STATION BS171	KUWAIT
	JGC CORPORATION /SAUDI ARAMCO	MANIFA PROJECT (CENTRAL)	SAUDI ARABIA
	JOINT OPERATIONS SAUDI ARABIAN CHEVRON INC. / KUWAIT GULF OIL OIL COMPANY (K.S.C) THROUGH CONSOLIDATED CONTRACTORS COMPANY (Kuwait) W.L.L.	CONSTRUCTION OF TWO EOCENE TANKS AND TWO CHEMICAL STORAGE TANKS AT MGC PROJECT	KUWAIT
	J. RAY MCDERMOTT /SAUDI ARAMCO	SAFANIYA FIELD PROJECT	SAUDI ARABIA
	Mc DERMOTT MIDDLEEA EAST INC / ADMA-OPCO	D6221 ADMA OPCO - 4GI, WP3A AND 3 BARREN TOWERS PROJECT	U.A.E.
	NPCC / ADMA-OPCO	UMM LULU FULL FIELD DEVELOPMENT PROJECT	
	NPCC / ADMA-OPCO	ZAKUM OIL LINES REPLACEMENT PROJECT (PHASE-1)	
	PDO (PETROLEUM DEVELOPMENT OMAN LCC) / WOOD GROUP THROUGH CCC	NRPS AP FLARE GAS RECOVERY PROJECT	OMAN
	PETROFAC / ADCO	EPC FOR ASAB FFD PROJECT	U.A.E.
	PETROFAC / ADCO	EXPANSION OF BAB GAS COMPRESSION PROJECT (EBGCP), PHASE 2	
	PETROFAC / J. RAY MCDERMOTT FOR SAUDI ARAMCO	KARAN OFFSHORE PLATFORMS AND SUBSEA PIPELINES PROJECT	SAUDI ARABIA
	QATARGAS OPERATING COMPANY LIMITED	EPCM SERVICES FOR MECHANICAL TIE-INS TRAIN 6 & 7	QATAR
	RASGAS COMPANY LMTD THROUGH CHIYODA ALMANA	SALES GAS BACK-OP:TRAIN -7 TIE-IN (RGCP-530) (RFS-114)	
	SABIC / PETROKEMMYA THROUGH TECNICAS REUNIDAS	PETROKEMMYA ABS PROJECT	SAUDI ARABIA
	SAUDI ARAMCO	UPGRADE JET FUEL SHIPPING FACILITIES AT NORTH JEDDAH BULK PLANT	
	SAUDI ARAMCO SAMSUNG SAUDI ARABIA	CO2 CAPTURE & INJECTION PROJECT	
	SAUDI ARAMCO THROUGH DAELIM INDUSTRIAL CO., LTD	YANBU EXPORT REFINERY PROJECT GASOLINE PACKAGE (EPC-3)	
	SAUDI ARAMCO THROUGH SAMSUNG ENGINEERING CO.,LTD	LUBEREF YANBU REFINERY EXPANSION PROJECT	
	SAUDI ARAMCO THROUGH ENPPI	YANBU EXPORT REFINERY TANK FARM (SP-1) PROJECT	
SAUDI ARAMCO THROUGH SAIPEM S.P.A.	ARABIYAH & HASBAH OFFSHORE AND ONSHORE FACILITIES		
SAUDI ARAMCO THROUGH DAELIM INDUSTRIA	RABIGH II PETROCHEMICAL PROJECT PETROCHEMICAL-1 PACKAGE (CP1)		
SAUDI ARAMCO THROUGH MCDERMOTT MIDDLE EAST	UPGRADE OF CRUDE GATHERING FACILITIES - SAFANIYA PHASE 2 PROJECT - SUBSEA CHECK VALVES		
SAUDI ARAMCO THROUGH PETROFAC	RABIGH II PETROCHEMICAL PROJECT (U02 & U03 PACKAGES)		
SAUDI ARAMCO THROUGH SAMSUNG ENGINEERING	LUBEREF YANBU REFINERY EXPANSION PROJECT		



YEAR	CUSTOMER	PROJECT	DESTINATION
2013	SAUDI ARAMCO THROUGH TECHINT	YANBU EXPORT REFINERY PROJECT - SOLIDS HANDLING	SAUDI ARABIA
	SAUDI ARAMCO THROUGH SAIPEM	ARABIAH & HASBAH OFFSHORE AND ONSHORE FACILITIES	
	ZADCO THROUGH NPCC	ZIRKU FACILITIES PKG-1B- OILY WATER TREATMENT & DISPOSAL PROJECT	U.A.E.
	ZADCO (ZAKUM DEVELOPMENT COMPANY) THROUGH NPCC-TECHNIP CONSORTIUM	UPPER ZAKUM 750K PROJECT	
2012	ABU DHABI GAS DEVELOPMENT COMPANY LIMITED	SHAH GAS DEVELOPMENT	U.A.E.
	ADCO	NEB PHASE 1 ADDITIONAL INJECTION WELL TIE-INS	
	ADCO THRU ALSA ENGINEERING & CONSTRUCTION	EPC FOR OPTICAL NETWORK AT BAB FIELD	
	ADCO THRU NPCC	QUSAHWIRA FULL FIELD DEVELOPMENT 1.8 MMBOPD PROJECT	
	AL-KHAFJI JOINT OPERATIONS (KJO)	HOUT (KRL) OFFSHORE GAS FACILITIES	SAUDI ARABIA
	AL-KHAFJI JOINT OPERATIONS (KJO) THROUGH JGC GULF INTERNATIONAL CO.,LTD	CONSTRUCTION OF WATER TREATMENT FACILITIES - PHASE 3 (WTF-3)	
	AL-KHAFJI JOINT OPERATIONS (KJO) THROUGH TECNICAS REUNIDAS	GAS & NGL EXPORT FACILITIES	
	GASCO (ABU DHABI GAS INDUSTRIES LTD.)	MIRFA - RUWAIS NITROGEN PIPELINE PROJECT	U.A.E.
		ABBR PROJECT - BAB MODIFICATIONS	
	KOC THRU GS E&C CORPORATION	WARA PRESSURE MAINTENANCE PROJECT	KUWAIT
	MARAFIQ (POWER AND WATER UTILITY COMPANY FOR YANBU & JUBAIL) THROUGH HANWHA ENGINEERING & COSTRUCTION (KR)	MARAFIQ STG 5&6 FUEL SUPPLY PROJECT	SAUDI ARABIA
	NATIONAL IRANIAN OIL COMPANY (NIOC) / PARS OIL AND GAS COMPANY (POGS)	SOUTH PARS GAS FIELD DEVELOPMENT PHASE 12	IRAN
	PETROLEUM DEVELOPMENT OMAN LLC (PDO)	AMAL STEAM SURFACE FACILITIES PROJECT PHASE 1B	OMAN
	QATAR SHELL GTL LIMITED	PEARL GTL PROJECT	QATAR
	RASGAS COMPANY LIMITED	BARZAN ONSHORE PROJECT	
		RASGAS ONSHORE EXPANSION PROJECT PHASE 2	
		BARZAN ONSHORE PROJECT	
	SAFCO (SAUDI ARABIAN FERTILIZER COMPANY)	SAFCO V - UREA STAND ALONE PROJECT	SAUDI ARABIA
	SAUDI ARAMCO THROUGH DAELIM INDUSTRIAL CO., LTD	YANBU EXPORT REFINERY PROJECT - GASOLINE PACKAGE (EPC-3)	
	SAUDI ARAMCO THROUGH SAMSUNG ENGINEERING CO.,LTD	SHAYBAH #4 INCREASE GAS HANDLING PROJECT	
	SAUDI ARAMCO THROUGH SAMSUNG ENGINEERING	WASIT#2 GAS PLANT - COGENERATION & STEAM GENERATION PROJECT	
	SAUDI ARAMCO THROUGH SAMSUNG ENGINEERING CO. LTD	SHAYBAH #1 INLET & GAS TREATMENT PROJECT	
	SAUDI ARAMCO THRU SAMSUNG ENGINEERING CO. LTD	SHAYBAH #1 INLET & GAS TREATMENT PROJECT	
	SAUDI ARAMCO THROUGH SK ENGINEERING & CONSTRUCTION CO. LTD	WASIT INLET & GAS PROCESSING PROJECT (WGC) - PACKAGE #1	
		WASIT SRU & UTILITIES PROJECT (WUC) - PACKAGE #3	
		WASIT NGL FRACTIONATION PROJECT (WFC) - PACKAGE #4	
SAUDI ARAMCO THRU MCDERMOTT MIDDLE EAST INC	KARAN OFFSHORE PLATFORMS AND SUBSEA PIPELINES PROJECT		
SAUDI ARAMCO THRU SAUDI ARCHIRODON LTD.	YANBU EXPORT REFINERY PROJECT		
ZADCO (ZAKUM DEVELOPMENT COMPANY)	ZADCO OFFSHORE & ONSHORE FACILITIES	U.A.E.	



YEAR	CUSTOMER	PROJECT	DESTINATION
2011	ABU DHABI COMPANY FOR ONSHORE OPERATIONS (ADCO)	ADCO PRICE AGREEMENT	U.A.E.
	ADCO THROUGH NPCC – NATIONAL PETROLEUM CONSTRUCTION COMPANY	BAB THAMAMA G & HABSHAN 2 1.8 MMBOPD PHASE-1 DEVELOPMENT PROJECT	
	DOLPHIN ENERGY LIMITED	DOLPHIN PROJECT	QATAR
	ILAM PETROCHEMICAL COMPANY (ILPC) THROUGH CANTEP INC.	OLEFIN PLANT ILAM PETROCHEMICAL COMPLEX	IRAN
	KUWAIT OIL COMPANY THROUGH SAIPEM S.P.A.	NEW BOOSTER STATION BS-171 AT WEST KUWAIT - KOC	KUWAIT
	PETROLEUM DEVELOPMENT OMAN LLC (PDO) THROUGH RIYAM ENGINEERING & SERVICES L.L.C.	AMAL STEAM SURFACE FACILITIES PROJECT PHASE 1B	OMAN
	QATARGAS OPERATING COMPANY LIMITED	QATARGAS 3 & 4 ONSHORE PROJECT	QATAR
	QATARGAS OPERATING COMPANY LIMITED THROUGH CHIYODA ALMANA	QATARGAS HELIUM (II) PROJECT	
	RASGAS COMPANY LIMITED THROUGH CHIYODA ALMANA	HELIUM 2 HEXU AND UTILITIES	
	REPUBLIC OF IRAQ MINISTRY OF OIL - STATE COMPANY FOR OIL PROJECTS (SCOP) THROUGH APS ENGINEERING COMPANY ROMA	NEW PUMP STATION OF LIGHT PRODUCTS PIPELINE (SHUAIBA-KARKH)	IRAQ
	SAUDI ARAMCO THROUGH JRM	D5854 - UPGRADE CRUDE GATHERING FACILITIES - SAFANIYA PHASE I	SAUDI ARABIA
	SAUDI ARAMCO THROUGH SAMSUNG ENGINEERING & ANSALDO CALDAIE S.P.A.	WASIT GAS PLANT - COGENERATION & STEAM GENERATION PROJECT	
	SAUDI ARAMCO THROUGH SAMSUNG ENGINEERING CO.,LTD	SHAYBAH INCREASED GAS HANDLING CAPACITY PROJECT (SHAYBAH IGHC)	
	SAUDI ARAMCO THROUGH SK ENGINEERING & CONSTRUCTION CO., LTD AND TECNICAS REUNIDAS	YANBU EXPORT REFINERY PROJECT, EPC-2 PACKAGE	
SATORP THROUGH CONSORTIUM OF CHIYODA CORPORATION/ SAMSUNG ENGINEERING (CYSE)	JUBAIL EXPORT REFINERY PROJECT (PACKAGE 4 - COKER)		
SATORP THROUGH M.R. AL-KHATHLAN EST.	JUBAIL EXPORT REFINERY AUXILIARY UTILITIES PROJECT (PACKAGE 5C)		
2010	ABU DHABI CO. (ADCO) / CONSOLIDATED CONTRACTING ENGINEERING & PROCUREMENT	SAHIL & SHAH FULL FIELD DEVELOPMENT PROJECT	U.A.E.
	ABU DHABI CO. (ADCO) / TR.ABU DHABI	EPC FOR SAHIL & SHAH FULL FIELD DEVELOPMENT PROJECT	
	ADCO THROUGH NPCC – NATIONAL PETROLEUM CONSTRUCTION COMPANY	BAB THAMAMA G & HABSHAN 2 1.8 MMBOPD PHASE-1 DEVELOPMENT PROJECT	SAUDI ARABIA
	EL SEIF ENGINEERING CONTRACTING COMPANY	CRUDE OIL PIPELINE & METERING STATION FOR RIYAD	
	IRANIAN GAS ENGINEERING & DEVELOPMENT CO.(I.G.E.D.C.) / IRAN ITOK COMPANY (IET)	POLKALEH-DEHAGH GAS COMPRESSOR STATIONS	IRAN
	KUWAIT OIL COMPANY THROUGH SAIPEM S.P.A.	NEW BOOSTER STATION BS-171 AT WEST KUWAIT - KOC	KUWAIT
	PETROFAC / GS ENG. JV – (MACCHI)	RUWAIS 4° NGL TRAIN - GASCO	U.A.E.
	SAIPEM S.P.A. - SOFINTER S.P.A. DIV. MACCHI	IMPIANTO SAIPEM / QAFCO VI MESAIEED	QATAR
	SAUDI ARAMCO - SAIPEM S.P.A.	P31840 - MANIFA CORE HYDROCARBON FACILITIES AT MANIFA CENTRAL PROCESSING FACILITIES	SAUDI ARABIA
	SAUDI ARAMCO / TECNICAS REUNIDAS	MANIFA CO-GENERATION & MAIN SUBSTATIONS PROJECT 7420	
	SAUDI ARAMCO THROUGH SUEDROHRBAU SAUDI ARABIA LTD	REFINED PRODUCTS PIPELINE RTDB-2 & DR-2 (IK) PROJECT-ARAMCO	
	SATORP THROUGH DAELIM INDUSTRIAL CO.	JUBAIL EXPORT REFINERY PROJECT (PACKAGE 2B)	
	SATORP THROUGH SK ENGINEERING & CONSTRUCTION	JUBAIL EXPORT REFINERY PROJECT (PACKAGE 5B)	
SATORP THROUGH TECHNIP ITALY	2365-JUBAIL EXPORT REFINERY PROJECT-SAUDI ARAMCO TOTAL (PACKAGE 2A)		
SAUDI ARAMCO	UTHMANIYAH WATER INJECTION PLANT #4		



YEAR	CUSTOMER	PROJECT	DESTINATION
2010	SAUDI ARAMCO THROUGH GULF CONSOLIDATED CONTRACTORS	RTDB-1 PIPELINE CAPACITY PROJECT JOB 278 - RAS TANURA	SAUDI ARABIA
	SAUDI ARAMCO THROUGH JGC CORPORATION	MANIFA CPF UTILITIES PROJECT	
	SAUDI ARAMCO THROUGH PETROFAC	KARAN UTILITIES & CO-GENERATION PROJECT	
	SATORP THROUGH SK ENGINEERING & CONSTRUCTION-MACCHI	JUBAIL EXPORT REFINERY PROJECT	
	SATORP THROUGH TECHNIP ITALY-RMT	JUBAIL EXPORT REFINERY PROJECT (PACKAGE 5A)	
	SATORP THROUGH TECHNICAS REUNIDAS	JUBAIL EXPORT REFINERY PROJECT	
2009	ABU DHABI OIL REFINING COMPANY - TAKREER	GREEN DIESEL PROJECT	U.A.E.
	J.RAY MCDERMOTT MIDDLE EAST INC.	KARAN GAS FIELD DEVELOPMENT OFFSHORE PLATFORMS AND SUBSEA PIPELINES PROJECT - SAUDI ARAMCO	SAUDI ARABIA
	KUWAIT OIL COMPANY (KOC)	BUILDING NEW BOOSTER STATION BS 160 AT SOUTH EAST KUWAIT	KUWAIT
	MINISTRY OF OIL / SOUTH OIL COMPANY (S.O.C.)	CRUDE OIL PROCESS PLANTS PACKAGES FOR DEGASSING STATION - NAHAR BIN UMMAR	IRAQ
	MOUCHEL EXCELERATE ENERGY	MINA AL AHMADI SOUTH PIER GASPORT	KUWAIT
	PETROFAC	EPC FOR ASAB FULL FIELDS DEVELOPMENT PROJECT - FOR ABU DHABI CO. (ADCO) - ONSHORE OIL OPERATION	U.A.E.
	SAUDI ARAMCO	QASSIM CRUDE OIL PIPELINE PROJECT, JOB#502	SAUDI ARABIA
		INCREASE RTDB-1 PIPELINE CAPACITY RASTANURA PROJECT	
		HARMALIYAH GOSP1 PROJECT	
		RTDB-1 PIPELINE CAPACITY RASTANURA PROJECT	
	SAUDI ARAMCO THROUGH PETROFAC/SOFINTER	KARAN PROJECT C/O KHURSANIYAH	
SUEDROHRBAU SAUDI ARABIA LTD.	MANIFA WATER SUPPLY SYSTEM & DOWNSTREAM PIPELINES (SAUDI ARAMCO)		
TR ABU DHABI	EPC FOR SAHIL & SHAH FULL FIELD DEVELOPMENT PROJECT NO. 08500 FOR ABU DHABI CO. (ADCO) - ONSHORE OIL OPERATION	U.A.E.	
2008	CONTRACTING AND TRADING CO. (C.A.T.)	MARAFIQ GAS PIPELINE (SAUDI ARAMCO)	SAUDI ARABIA
	ENI IRAN B.V. N.I.O.C. NATIONAL	DARQUAIN OIL FIELD PROJECT - SECOND STAGE OF DEVELOPMENT	IRAN
	J.RAY MCDERMOTT MIDDLE EAST INC.	D5749 ARAMCO MANIFA PROJECT	SAUDI ARABIA
	MAERSK OIL QATAR THROUGH MIKUNI (M) SDN. BHD.	BE PROCESS AND BG UTILITY PLATFORM - AL SHAHEEN DEVELOPMENT OFFSHORE PHASE 3	QATAR
	OMAN METHANOL COMPANY (OMC) THROUGH OMAN PROMAN CONTRACTING AND TRADING	M03000 METHANOL PLANT - SOHAR	OMAN
	QATAR FERTILISER COMPANY S.A.Q. THROUGH SNAMPROGETTI / SOFINTER DIV. MACCHI	QAFCO 5 PROJECT	QATAR
	SUEDROHRBAU SAUDI ARABIA LTD.	PIPELINE LOOPS FOR SHY-1 EXPANSION PHASE-II (SAUDI ARAMCO)	SAUDI ARABIA



YEAR	CUSTOMER	PROJECT	DESTINATION
2007	ABU DHABI POLYMERS CO.LTD (BOROUGE) THROUGH LINDE AG.	RUWAI2 PROJECT	ABU DHABI - UAE
	BONATTI S.P.A	OPTIMIZE PRODUCTION IN MUBARRAZ AREA RABIGH PROJECT (SAUDI ARAMCO)	SAUDI ARABIA
	CONSORZIO OVERSEAS BECHTEL INC. / TECHNIP ITALY S.P.A	KHURSANIYAH GAS PLANT (KGP) PROJECT - SAUDI ARAMCO	
	ENPPI - ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES ON BEHALF OF AL-KHAFJI JOINT OPERATIONS	SAUDI ARAMCO - PROCUREMENT SERVICES FOR EXPANSION OF HOUT CRUDE ONSHORE PRODUCTION FACILITIES PROJECT	QATAR
	EXXON MOBIL MIDDLE EAST GAS MARKETING LIMITED	AL KHALEEL GAS PROJECT PHASE 2 (AKG-2)	
	INITEC PLANTAS INDUSTRIALES THROUGH VALVULAS Y CONTROL DE FLUIDOS S.A.	HAWIYAH GAS PLANT EXPANSION PROJECT (PNEUMATIC ON-OFF VALVES)	SAUDI ARABIA
		HAWIYAH GAS PLANT EXPANSION PROJECT (MOTOR OPERATED VALVES)	
	J & P INTERNATIONAL CONTRACTORS	SAUDI ARAMCO X-41- NUAYIM ASL CRUDE INCREMENT FACILITIES	QATAR
	JV FOSTER WHEELER ENERGY LTD & HYUNDAI ENGINEERING & CONSTRUCTION CO.,LTD	KHURAI CENTRAL PROCESSING FACILITIES - GAS	
	JV TECHNIP / CHIYODA	QATARGAS 3&4 ONSHORE PROJECT - C.R.A. VALVES	SAUDI ARABIA
	QATAR SHELL GTL LIMITED	PEARL GTL PROJECT	
	SNAMPROGETTI	QURAYYAH SEAWATER PLANT - ARAMCO (ACTUATED GATE VALVES)	SAUDI ARABIA
SAUDI ARAMCO KHURAI WATER INJECTION FACILITIES AND UTILITIES			
SNC LAVALIN THROUGH GERAB NATIONAL ENTERPRISES	SAUDI ARAMCO - SHAYBAH CENTRAL PROCESSING FACILITIES PROJECT NO.:017280		
2006	HYUNDAI	CRUDE EXPORT FACILITIES AT NTF, STF AND MAA	KUWAIT
	INITEC PLANTAS INDUSTRIALES THROUGH VALVULAS Y CONTROL DE FLUIDOS S.A.	HAWIYAH GAS PLANT EXPANSION PROJECT (CARBON STEEL & STAINLESS VALVES)	SAUDI ARABIA
	RAS LAFFAN LIQUEFIED NATURAL GAS COMPANY LIMITED (3)	RAS GAS ONSHORE EXPANSION PROJECT PHASE II (TRAIN 6&7) EPC9	QATAR
	SAUDI ARABIAN SAIPEM LIMITED	SAOC KHURAI & GHAWAR SEAWATER PLINES	SAUDI ARABIA
	SICON OIL & GAS SRL	EXPANSION OF KHAFJI CRUDE ONSHORE PRODUCTION FACILITIES	
	SNAMPROGETTI	ARAMCO OC BV KHURSANIYAH PRODUCING FACILITIES	
QURAYYAH SEAWATER PLANT - ARAMCO (MOTORIZED OPERATED LARGE SIZE GATE VALVES)			
2005	ADCO	ASAB WATER INJECTION PROJECT	U.A.E.
	EASTERN BECHTEL CO/ ABU DHABI GAS LIMITED LTD	OGD III ONSHORE GAS DEVELOPMENT	ABU DHABI - UAE
	INITEC/ TECNICAS REUNIDAS	JU'AYMAH GAS PLANT EXPANSION	SAUDI ARABIA
	J.G.C CORPORATION	DOLPHIN ONSHORE GAS PLANT	QATAR
	JV TECHNIP - CHIYODA	QATARGAS II DEVELOPMENT	
	M.S. AL SUWAIDI	ARAMCO PROJECT	SAUDI ARABIA
	PROMAN	MO 3000 METHANOL PLANT-SOHAR, SULTANATE OF OMAN	OMAN
	TECHINT ARGENTINA	GOSP III AL HARADH CRUDE INCREMENT	SAUDI ARABIA
	TECHNIP	KHARG ETYLENE PLANT	IRAN
	SUEDROHBAU	14521-SHY-1 EXPANSION PAHSE I	SAUDI ARABIA
	SNAMPROGETTI SOFINTER MACCHI	KHURSANYAH PROJECT - ARAMCO	



YEAR	CUSTOMER	PROJECT	DESTINATION
2004	C.B. & I. (U.S.A.)	SAUDI ARAMCO QATIF PROJECT GOSP-2	SAUDI ARABIA
	DAELIM ENGINEERING FOR KUWAIT OIL COMPANY	EFFLUENT WATER DEVELOPMENT PROJECT	KUWAIT
	ENELPOWER ITALY	RAS LAFFAN COMBINED CYCLE& DESALINATION FACILITY	QATAR
	JGC CORPORATION (SAUDI ARAMCO)	BERRI GAS COGENERATION PROJECT	SAUDI ARABIA
	JV SNAMPROGETTI - TECHNIP FRANCE	OMAN-INDIA FERTILIZER PROJECT	OMAN
	KVAERNER PROCESS SYSTEMS (STATOIL & BP)	SHAH DENIZ PROJECT	AZERBAIJAN
	MACCHI	DOLPHIN PROJECT	QATAR
	QATAR PETROLEUM / PETROFAC	QATAR RAG & FLARE MITIGATION PROJECT.	
	SUEDROHBAU	10935-HARAD AL CRUDE INCREMENT III PIPELINES (ARAMCO)	SAUDI ARABIA
	TECNICA REUNIDAS	QATIF PROJECT (ARAMCO)	
	TECHNIP ABU DHABI	GASCO-HABSHAN CAPACITY ENHANCEMENT STEP 2B PROJECT	U.A.E.
	TECHNIP COFLEXIP (FRANCE) JAM PETROCHEMICAL CO.	OLEFIN 10° COMPLEX CRACKING PLANT	IRAN
	TECHNIP COFLEXIP / NPCC	ADCO NORTH EAST BAB PROJECT (NEB)	U.A.E.
	TECHNIP ITALY	RYADH REFINERY - DHT COMPLEX	SAUDI ARABIA
	TECHINT ARGENTINA	HARADH AL CRUDE INCREMENT III PROJECT (ARAMCO)	
TOYO ENGINEERING	SOUTH PARS GAS FIELD PHASE 6,7 & 8 OHNSORE DEVELOPMENT	IRAN	
2003	SNAMPROGETTI	309700 SAUDI ARAMCO QCBV QATIF GOSP-1 PROJECT	SAUDI ARABIA
	TECHNIP FRANCE	9TH OLEFIN PROJECT	IRAN
	TECHNIP ITALY (FOR SAUDI ARAMCO)	SAUDI ARAMCO QATIF GOSP-2 PROJECT	SAUDI ARABIA
SAUDI ARAMCO SABIC PROJECT 2121 SABIC ACETIC ACID PROJECT			
2002	"SNAMPROGETTI-SAIPEM-MITSUBISHI CONSORTIUM"	"OMAN GAS COMPANY, 32" FAHUD – SOHAR GAS PIPELINE"	OMAN



YEAR	CUSTOMER	PROJECT	DESTINATION
2015	SHANDONG TIANYUAN NEW ENGERY TECHNOLOGY CO. LTD	SHANDONG TIANYUAN COAL HYDROGENATION PROJECT	CHINA
	CHINA PETROLEUM MATERIALS CORPORATION	MOHE DAQING CRUDE OIL PIPELINE PROJECT	
2014	AGIP KAZAKHSTAN NORTH CASPIAN OPERATING COMPANY	KASHAGAN FIELD DEVELOPMENT PROJECT - EXPERIMENTAL PROGRAMME	KHAZAKISTAN
	BAKU OIL REFINERY THROUGH ARCOTRANS LLP	BAKU OIL REFINERY THROUGH PROJECT	AZERBAIJAN
	BAKU OIL REFINERY THROUGH EDL ANLAGENBAU GESELLSCHAFT MBH		
	BEIJING PETROCHEMICAL ENGINEERING CO. LTD.	SHAANXI YANCHANG PETROLEUM GROUP) CO. LTD. LNG 200 THOUSAND TONS/YEAR	CHINA
	BP EXPLORATION (SHAH DENIZ) LTD / KBR	SHAH DENIZ STAGE 2 PROJECT	AZERBAIJAN
	BRUNEI SHELL PETROLEUM COMPANY	BRUNEI SHELL PROJECT	BRUNEI
	CHINA DAQING REFINING AND CHEMICAL COMPANY	MIXED DIESEL HYDROGENATION UNIT OF 1.7 MILLION TONS / YEAR OF DIESEL PRODUCT QUALITY UPGRADING	CHINA
	NGHI SON REFINERY AND PETROCHEMICAL THRU JGCS CONSORTIUM	NSRP COMPLEX PROJECT	VIETNAM
2013	ZHONGKE SYNTHETIC OIL ENGINEERING CO. LTD	SHANXI LUAN HIGH HYDROPHOBIC COAL CLEAN UTILIZATION OIL ELECTRIC INTEGRATED DEMONSTRATION PROJECT	CHINA
	BP EXPLORATION LTD / KBR	SHAH DENIZ STAGE 2 PROJECT	AZERBAIJAN
	JGCS CONSORTIUM (JGC CORP., CHIYODA CORP., GSEC, SKEC, TECHNIP FRANCE, TECHNIP GEOPRODUCTION (M) SDN. BHD.	NSRP COMPLEX PROJECT	VIETNAM
	PETROCHINA THROUGH HONG KONG NEW CENTURY CONTROL EQUIPMENT CO.LTD	NC-OIL FIELD(SU QIAO) UNDERGROUND GAS STORAGE	CHINA
	PETRONAS CARIGALI	TURKMENISTAN BLOCK 1 DEVELOPMENT PROJECT - ONSHORE GAS TERMINAL	TURKMENISTAN
	PETRONAS CARIGALI SDN BHD	MASA PIPELINE & FLEXIBLE RISER DECOMMISSIONING & PRESERVATION	MALAYSIA
	PETRONAS LNG 9 SDN BHD (PL9SB) THROUGH JGC CORPORATION	PETRONAS LNG TRAIN 9 PROJECT	
SINOPEC THROUGH HONG KONG NEW CENTURY CONTROL EQUIPMENT CO.LTD	SINOPEC-S01	CHINA	
2012	AGIP KAZAKHSTAN NORTH CASPIAN OPERATING COMPANY	KASHAGAN FIELD DEVELOPMENT PROJECT	KAZAKISTAN
	CARIGALI HESS OPERATING COMPANY SDN BHD	PROVISION OF ENGINNERING DESIGN SERVICE FOR WHP10 DEVELOPMENT	MALAYSIA
	PETROCHINA GUANGXI PETROCHEMICAL COMPANY	PETROCHINA GUANGXI CRUDE OIL PROCESSING PROJECT	CHINA
	PETRONAS CHEMICALS FERTILISER SABAH ASN BHD	SABAH AMMONIA UREA (SAMUR) PROJECT	MALAYSIA
2011	PETROCHINA THROUGH HONG KONG NEW CENTURY CONTROL CO.LTD	PIPELINE 1: CHINA-BURMA	CHINA
		PIPELINE2: LANZHOU-CHENGDU	
		PIPELINE3: JINZHOU-ZHENGZHOU	
		PIPELINE4: DAQING-JINXI	
		PIPELINE5: CHANGQING-HOHHOT	
		PIPELINE6: JINLIN-CHANGCHUN	
2010	PTT AROMATIC & REFINING THROUGH SK ENGINEERING & CONSTRUCTION	CLEAN FUEL PROJECT AT MAP TA PHUT, THAILAND	THAILAND
2008	NESTE OIL OYI THROUGH TECHNIP ITALY	2308 - SINGAPORE NEXBTL PLANT PROJECT - CAST VALVES	SINGAPORE
	PETRONAS CARIGALI (TURKMENISTAN) SDN. BHD. THROUGH MMHE / TECHNIP JOINT VENTURE	TURKMENISTAN BLOCK 1 DEVELOPMENT PROJECT - ONSHORE GAS TERMINAL (OGT)	TURKMENISTAN
2004	KVAERNER PROCESS SYSTEMS (STATOIL & BP)	SHAH DENIZ PROJECT	AZERBAIJAN
	TECNICA REUNIDAS	CSPC NANHAI PETROCHEMICALS PROJECT	CHINA
2000	DESCON ENGINEERING LIMITED	"KADANWARI UP-GRADE & MIANO-FIELD DEVELOPMENT PROJECT"	PAKISTAN
1999	FOSTER WHEELER ITALIANA	EXXON – SINGAPORE ALCOHOL PROJECT	SINGAPORE



YEAR	CUSTOMER	PROJECT	DESTINATION
1997	PNOC	PHILIPPINE NATIONAL OIL COMPANY	PHILIPPINES
1996	GASCO-KELLOG	RUWAIIS LPG COMPLEX	INDIA
	PHILIPPINE NAT. OIL CO.	GEO THERMAL ENERGY DEVELOPMENT	PHILIPPINES
	RELIANCE	POLIPROPILENE PLANT	INDIA
1995	LINDE	DALIAN PROJECT	CHINA
	LINDE	UREGOY PROJECT	
1994	BABCOCK	HONG KONG GPP II	HONG KONG
	TECHINT	ALCOHOL ETOSSYLATION	CHINA



YEAR	CUSTOMER	PROJECT	DESTINATION
2013	INPEX OPERATIONS AUSTRALIA PTY LTD	ICHTHYS GAS FIELD DEVELOPMENT PROJECT OFFSHORE FACILITIES	AUSTRALIA
	MOBIL CEPU LIMITED THROUGH SAMSUNG ENGINEERING CO. LTD	MCL BANYU URIP PROJECT EPC1 PPF	INDONESIA
	SHELL AUSTRALIA THROUGH TECHNIP FRANCE	PRELUDE FLNG PROJECT	AUSTRALIA
	WOODSIDE ENERGY LTD	WOODSIDE PROJECT	
2011	CHEVRON AUSTRALIA PTY LTD	GORGON PROJECT BARROW ISLAND LNG PLANT	AUSTRALIA
	CONOCOPHILLIPS (GRISSIK) LTD.	SUMPAL EXPANSION PROJECT / SUMPAL GAS STATION	INDONESIA
	CONOCOPHILLIPS (GRISSIK) LTD. THROUGH PT REKAYASA INDUSTRI	DAYUNG COMPRESSION PROJECT (DC-1) & CENTRAL GAS PLANT DEBOTTLENECK PROJECT (CGPX)	
	INPEX OPERATIONS AUSTRALIA PTY LTD THROUGH JGC CORPORATION	ICHTHYS ONSHORE LNG FACILITIES PROJECT	AUSTRALIA
2005	JGC CORPORATION / BP BERAU LTD	TANGGUH LNG PROJECT	INDONESIA

ORION STEEL VALVES Qualifications

QUALIFICATIONS CERTIFICATES

SYSTEM CERTIFICATES	CERTIFICATE	NO	ISSUED FROM
	ISO 9001:2008	257	APIQR®
	ISO TS 29001	TS-1498	APIQR®
	PED	DGR-0036-QS-762-15	TUV
	APIQ1®	Q1-1611	APIQR®

PRODUCT CERTIFICATES	CERTIFICATE	NO	ISSUED FROM
	API 600	600-0095	APIQR®
	API 6A	6A-0291	APIQR®
	API 6D	6D-0140	APIQR®
	API 6DSS	6DSS-0013	APIQR®
	API 594	594-0014	APIQR®
	SIL2 (Safety Integrity Level)	C-IS-242784-01 C-IS-242784-02	TUV®
	TR CU 032-2013	0255802	Politech Group

HEALTH SAFETY AND ENVIRONMENTAL CERTIFICATES

HSE CERTIFICATES	CERTIFICATE	NO	ISSUED FROM
	ISO 14001:2004	2008/509	Certification Europe
	OHSAS 18001:2007	2011/1343	Certification Europe

HEALTH, SAFETY & ENVIRONMENT (HSE)

ORION, being well aware of its responsibilities, gives the greatest commitment to a continuous improvement of the Integrated System for Safety and Environmental Protection Management in order to avoid any harmful effect to people and environment minimizing relevant risks.

ORION has obtained ISO 14001 and OHSAS 18001 certifications to guarantee a safe workplace, ensure the safe management of all the activities and the protection of the environment in compliance with national and international regulations through the application of the following principles:

- Reduction of environmental impacts.
- Improvement of environmental performance and safety standards in workplaces.
- Optimization the use of natural resources.
- Promotion of safety and active participation of personnel in the constant implementation and improvement of the Management System.
- Systematic assessment of environmental performance and safety standards through constant monitoring.
- Elimination or reduction of the risks affecting environment, safety and health of personnel.
- Analysis of the causes of any accidents, critical events, injuries or environmental emergencies in order to prevent their repeated occurrence.
- Awareness among all employees that environmental, safety and health issues, as well as the defined improvement objectives, are an integral part of the comprehensive corporate management system.





CHEMICAL ANALYSIS, SPECTROMETER
P.M.I. POSITIVE MATERIAL IDENTIFICATION



ULTRASONIC EXAMINATION



RADIOGRAPHIC EXAMINATION



MAGNETIC PARTICLE INSPECTION

ORION STEEL VALVES
Quality Control
NON DESTRUCTIVE TESTS



DYE PENETRANT INSPECTION



HARDNESS CONTROL



PAINTING CONTROL - PAINTING THICKNESS CHECK

ORION STEEL VALVES Fugitive Emission

FUGITIVE EMISSION TEST AND QUALIFICATION OF ORION VALVES

ACCORDING TO ISO 15848 Part 1 and 2

The risk associated to fugitive emissions from equipment in facilities which use, manufacture or transport toxic and dangerous fluid products, brought to new laws and regulations which aim is to reduce equipment leakage. Such regulations require in-service monitoring in order to ascertain valves performance to fugitive emissions maximum acceptance standards.

ORION S.p.A. has carried out valve *fugitive emission leak detection* in order to qualify its own production.

TEST EXECUTION:

Gate, Globe & Check Valves are tested at ambient, high and low temperature, with different number of mechanical cycles (open / close) with SATISFACTORY RESULTS.

ORION valves comply with TIGHTNESS CLASS DESIGNATION "A" and "B"

Test Equipment: Helium Detector Type

Manufacturer: PFEIFFER Vacuum

Equipment name: QUALITEST Htl 260

***ORION offers several solutions in order to reach total absence of emissions, such as bellow sealed valves for lethal , toxic and flammable services.**

[For details of the test conditions, data and test certificate please contact our Company.](#)

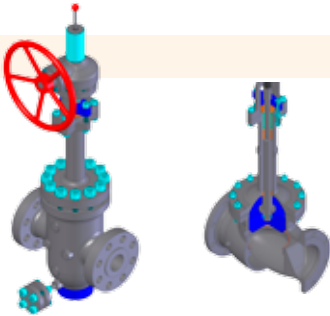
API 624 Qualification

Qualified API 624

Tested with Chesterton 1622 Low E Packing

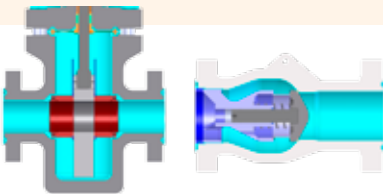
ORION STEEL VALVES

Special Technical Features



CRYOGENIC SERVICE VALVES

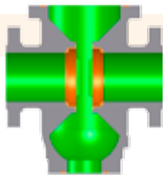
These valves are suitable for low temperature or cryogenic operating conditions, with a particular selection of materials suitable for low temperatures and the extended bonnet design in order to keep the stem packing protected from cryogenic fluid. (Design standards i.e. BS6364, MESC SPE 77-200, ...)



INTERNAL CLADDING

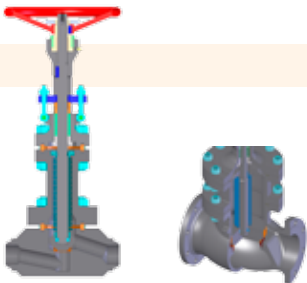
Valves internally clad are the alternative offered by ORION in aggressive service conditions. We can use valves made of carbon steel with the entire internal surfaces lined with INCONEL®, HASTELLOY® alloys or other weldable steels or CRAs.

The latest technologies for weld depositing are available in ORION to provide a controlled layer of metal, able to improve the corrosive and erosive resistance of the valve parts.



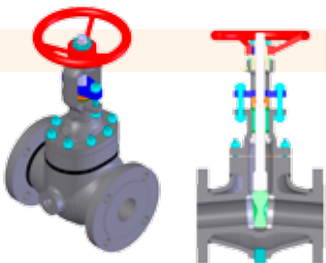
INTERNAL LINING

The entire production range of ORION valves is also available with an internal lining of polymeric products, like FBE lining. The exposed surfaces (floating seat pockets and gasket seating areas) are overlaid with a stainless steel or CRA which ensures a long lasting performance of the valve and a total protection of the wetted surfaces.



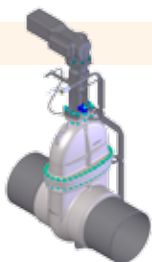
BELLOW SEALED VALVES

ORION offers bellow sealed valves for lethal, toxic and highly flammable services in order to reach the total absence of emissions. The bellow creates a physical barrier that isolates the fluid from the external environment. Traditional stem packing arrangement is still kept in place as a second contingency barrier and to maintain fire safe design.



JACKETED VALVES

To keep the valve operating temperature under control, a jacketed execution is available. The valve is enclosed into a cast steel or fabricated jacket, creating an interstice all around the body. A heating fluid is forced to flow through this interstice and keeps the valve at a controlled temperature, in order to keep the process fluid's viscosity low and avoid accumulation of material in the body. Usually sulphur and polymers application require this particular feature. The use of a jacket requires an increased flange size dimension, usually to the next size.



BURIED SERVICE VALVES

Extended drain, vent and injection piping is supplied for valves built for buried under-ground service.

POST - INDICATOR VALVES (PIV)

Similarly to buried valves, this kind of equipment has a stem extension with an open-close indicator directly positioned above ground, close to the handwheel, in order to easily check the opening status of the valve.

