

Reference List for Actuated Control Systems

<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Valve Size</u>	<u>Actuator Type</u>	<u>Qty</u>	<u>Supplied</u>
Moho Nord TLP	Total	Congo	-	Hyd Linear SR	2	2020
OBIAFU/OBRIKOM - OBEN (OB3) - LOT A	Nigerian National Petroleum Corporation	Nigeria	2"-48"	Pneu SR/Direct Gas SR	37	2020
North Alwyn A - N2 CGL Flowline Modifications	Total	UK	2 1/16 10000	Hyd SR	1	2020
GuAX Piping, Vessel, Structural and Construction	Exxon Mobil	Malaysia	6"-10"	Pneu SR	3	2020
Jasmine	Conoco Phillips	UK	2 1/16 (ID 53mm)*10000 - 5	Hyd Linear SR/DA	3	2020
Zirku Trains Crossover	ADNOC	UAE	10"x8"/150, 12"x8"/150	Pneu SR	4	2020
Sakhalin Island	SEIC	Russia	12"x10"/900	Pneu SR	1	2020
Sakhalin Island	SEIC	Russia	8x6"/900	Pneu SR	2	2020
Mangara	GlencoreXtrata	Chad	3"	Hyd SR	1	2020
Etude multidisciplinaire Gas Lift Puit SFNE-3	Sonatrach	Algeria	6x4"2500 and 5.1/8x5.1/8"API	Hyd SR	2	2020
Jambi Merang	Talisman	Indonesia	8"	Hyd Linear SR	1	2020
ISBL ASORC Naphtha Complex	ASORC (Assiut Oil Refining Company)	Egypt	10", 12"	Pneu SR	2	2020
Jasmine	Chrysaor	UK	-	Pneu SR	1	2020
-	-	-	6", 8"	Direct Gas	4	2020
Finlarig PS	SSE	UK	1/2" 4 Way	Hyd SR	4	2020
Anasuria FPSO	Shell	UK	-	Pneu SR	1	2020
EPCC for New Pilot Water Injection Plant at Gumry FPF	Dar Petroleum Operating Company (DPOC)	Sudan	8"x8"/150, 2"x2"/150	Pneu SR	1	2020
KPC Mercox Caustic Pre-Wash System	KPO BV	Kazakhstan	2"	Pneu SR (Low Temperature)	3	2020
Jade	ConocoPhillips	UK	2"x1/2"/API11000 6A	Hyd SR	4	2020
Takoradi T2 Expansion	Takoradi International	Ghana	-	Hyd Linear DA	1	2020

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Takoradi T2 Expansion	Takoradi International	Ghana	-	Hyd Linear DA/Seal Kits	4	2020
Urea Plant 2200 MTD - (Togliatti, Samara Region)	JSC Togliattiazot	Russia	12"	Pneu SR	1	2020
4144 Wellhead Workover/Re-Drills 2019-20	Qatar Petroleum	Qatar	2"	Hyd SR	3	2020
Produce Water Train 2 - Bonga Main	SNEPCO Deepwater (Shell)	Nigeria	12"	Pneu SR	2	2020
Mangara	GlencoreXtrata	Chad	3"	Hyd SR	4	2020
Vorlich over FPF-1 - Greater Stella	BP/Ithaca Energy	UK	2"-6"	Pneu SR	9	2019
Peru LNG	Peru LNG	Peru	12"	Pneu SR	1	2019
Puguang Gas Recovery Plant	Sinopec	China	-	Pneu SR	3	2019
Sakhalin II Assets	SEIC	Russia	2"	Pneu SR	4	2019
Sakhalin Replacement	SEIC	Russia	1.5"	Pneu SR	1	2019
Sakhalin Island	SEIC	Russia	4"	Pneu SR	2	2019
Vorlich Over FPF-1 - Greater Stella (Brownfield)	BP/Ithaca Energy	UK	3"	Pneu SR	2	2019
Mangara Q-Pad	GlencoreXtrata	Chad	-	Hyd SR	4	2019
Rumaila CPC 6 & 7 Upgrade	Rumaila	Iraq	6"-20"	Pneu SR	9	2019
Badila V-Pad	GlencoreXtrata	Chad	-	Hyd SR	2	2019
West Nile Delta	BP	Egypt	2"-24"	Pneu SR	179	2019
Aylesbury Compressor	National Grid	UK	-	Direct Gas	2	2019
Frame Agreement	Conoco Phillips	UK	-	Hyd SR	1	2019
Sakhalin Island	SEIC	Russia	-	Pneu SR	1	2019
Yibal Khuff	PDO	Oman	4"	Hyd Linear SR	4	2019
Babbage	Eon Ruhrgas	UK	-	Hyd SR	1	2019
Wilmington & Farningham	SGN	UK	-	Direct Gas	4	2019
Forties Charlie	Apache	UK	-	Pneu SR	1	2019
Bishop Auckland AGI	National Grid	UK	18"	Direct Gas	2	2019

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Dragon LNG	Dragon LNG	UK	N/A	Pneu SR	1	2019
Babbage	E-ON Ruhrgas	UK	N/A	Hyd SR	4	2019
Lamesly AGI	Northern Gas Networks	UK	16"	Direct Gas	2	2019
Dragon LNG	Dragon LNG	UK	-	Pneu SR	2	2019
Solan	Premier Oil	UK	6"	Pneu SR	1	2019
Kittiwake	EnQuest	UK	-	Pneu SR	1	2019
Refining Crude Flexibility, Project 5652	ADNOC	UAE	2"-4"	Pneu SR & DA	112	2019
2200 MTD Urea Plant	JSC Togliattiazot	Russia	3"-14"	Pneu SR	19	2019
MAA Refinery LPG Train 5	KNPC	Kuwait	1"-4"	Pneu SR	7	2019
ISBL ASORC Naphtha Complex	ASORC	Egypt	1 1/2"-4"	Pneu SR	15	2019
Sakhalin Phase II	SEIC	Russia	24"	Hyd SR (Low Temperature)	1	2019
Karachaganak (KPC)	KPO BV	Kazakhstan	4 1/16"	Pneu SR (Low Temperature)	1	2019
Pozzo Gela 97/Area Campo Gela	ENI	Italy	1"	Hyd SR	1	2019
Jasmine	Conoco Phillips	UK	-	Pneu	1	2019
Karachaganak (KPC)	KPO BV	Kazakhstan	1 1/2"	Pneu SR (Low Temperature)	2	2019
Bang Pakong Power Plant	EGAT	Thailand	20"	Gas over Oil	1	2019
Karachaganak	KPO BV	Kazakhstan	2"	Pneu SR (Low Temperature)	1	2019
Al Dabb'iyah Thamama Zone B	ADNOC	UAE	1"-3" API 10000/16"-10"	Hyd - HIPPS	16	2019
Sakhalin Replacements	SEIC	Russia	2", 6"	Pneu SR (Low Temperature)	2	2019
Sakhalin Replacements	SEIC	Russia	6"	Pneu SR (Low Temperature)	1	2019
Baronia Rejuvenation	Petronas Carigali	Malaysia	2"	Pneu SR	2	2019
Kraken FPSO	EnQuest	UK	18"	Pneu SR	1	2019
Karish & Tanin Development FPSO EPCIC	Energiean	Israel	6 x 4"/1500	Pneu SR	2	2019
Karachaganak	KPO BV	Kazakhstan	2"	Pneu SR (Low Temperature)	1	2019

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Azeri Central East (ACE)	BP	Azerbaijan	2"	Pneu SR	19	2019
Sakhalin II Assets	SEIC	Russia	1.5", 8"	Pneu SR (Low Temperature)	2	2019
Moho Nord	Total E&P	Congo	-	Hyd SR Linear	2	2019
HP Compressor Suction Scrubber Train A	JX Nippon	Malaysia	2"-18"	Pneu SR	4	2019
Kraken FPSO	EnQuest	UK	16", 18"	Pneu SR	2	2019
Badila W-Pad	GlencoreXtrata	Chad	6"	Hyd	2	2019
Hokchi Field Development	Hokchi Energy	Mexico	6"-14"	Hyd SR	46	2019
Hokchi Field Development	Hokchi Energy	Mexico	6"-14"	Hyd SR c/w HPU	44	2019
Well IS-330	Occidental	Qatar	2"	Hyd SR	2	2019
North Azadegan Oilfield	NIOC	Iran	2"-6"	Hyd SR	5	2019
Sakhalin Island	SEIC	Russia	8"	Pneu SR Low Temperature	2	2019
Sakhalin Replacements	SEIC	Russia	1.5"	Pneu SR (Low Temperature)	1	2019
Peru LNG	Peru LNG	Peru	2", 8"	Pneu SR	5	2019
Azeri	BP	Azerbaijan	-	Pneu SR	1	2019
Forties Delta	Apache	UK	4", 6"	Pneu SR	2	2018
South Pars Gas Field Phase 4 & 5	NIOC	Iran	32"	Hyd DA	2	2018
PTA Suape	-	Brazil	6"	Pneu SR	1	2018
PS1C Riser Valve Replacement	Occidental	Qatar	6"	Pneu SR	1	2018
Mina Al Saud Terminal	Chevron	Kuwait	20"	Subsea	2	2018
Kanowit PF LNG Tie-In	Petronas Carigali	Malaysia	10"	Pneu SR ITR	1	2018
-	Petronas Carigali	Malaysia	1"	Pneu SR	3	2018
Baronia Rejuvenation	Petronas Carigali	Malaysia	1"	Pneu SR	1	2018
2017 AR: GuDx Non Piping	EMEPMI	Malaysia	2"-16"	Pneu SR ITR	8	2018
Sakhalin Island	SEIC	Russia	-	Pneu SR LS-45	4	2018

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Mangara B	GlencoreXstrata	Chad	3"	Hyd SR	12	2018
Kamose Plant	NOSPCO	Egypt	10"	Hyd SR	1	2018
Karachaganak	KPO	Kazakhstan	2"	Pneu SR	2	2018
Sakhalin Island Offshore	SEIC	Russia	1.5"-14"	Pneu SR	17	2018
Layang Field Helang FPSO	JX Nippon	Malaysia	10", 14"	Pneu SR	2	2018
Kittiwake	EnQuest	UK	8"	Pneu SR	2	2018
Captain	Chevron	UK	-	Pneu SR	2	2018
Block 15/06 West Hub	ENI	Angola	4"	Hyd SR	1	2018
Karachaganak	KPO	Kazakhstan	3"	Pneu SR	1	2018
Layang Field Helang FPSO	JX Nippon	Malaysia	12"	Pneu SR	2	2018
Rumaila (Janubia Phase 1)	BP	Iraq	14", 16"	Pneu SR	4	2018
Karachaganak	KPO	Kazakhstan	4.1/16" API 10000	Pneu SR	1	2018
Rough Field Development	Centrica	UK	5"	Pneu SR	1	2018
West Nile Delta (3 & 4)	BP	Egypt	2"-20"	Pneu & Hyd Linear c/w HPU &	48	2018
West Nile Delta	BP	Egypt	2"-30"	Pneu & Hyd SR c/w HPU, Air	118	2018
West Nile Delta	BP	Egypt	2"-10"	Pneu & Hyd Linear c/w HPU &	41	2018
Karachaganak	KPO	Kazakhstan	2"	Pneu SR	1	2018
Karachaganak	KPO	Kazakhstan	6"	Pneu SR	1	2018
Gamba	Shell	Gabon	-	Pneu SR	3	2018
SWSOS	GNI	UK	36"	Direct Gas with Gas Receivers	2	2018
West Nile Delta	BP	Egypt	6"	Hyd SR c/w Electro-Hydraulic	1	2018
Greater Enfield	Woodside/Mitsui	Australia	12"	Pneu Linear	1	2018
Sakhalin Island	SEIC	Russia	6"	Pneu SR	1	2018
Sakhalin Island	SEIC	Russia	20"	Hyd SR	1	2018

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Medway Power	SSE	UK	-	Pneu SR	2	2018
Moho Nord	Total	Congo	-	Hyd SR Linear	2	2018
Mangara	GlencoreXstrata	Chad	3"	Hyd SR	8	2018
Sakhalin Island	SEIC	Russia	8"	Pneu DA	1	2018
Claymore	Talisman	UK	-	Hyd SR	3	2018
Karachaganak	KPO	Kazakhstan	-	Pneu SR	1	2018
Sakhalin Island	SEIC	Russia	-	Pneu SR	1	2018
Mangara B	GlencoreXstrata	Chad	3"	Hyd SR	4	2018
Babbage	E-ON Ruhrgas	UK	-	Hyd SR	1	2018
LP ESD Install	Statoil	USA	2-1/16 5K	Pneu SR (Low Pressure)	200	2018
LP ESD Install	Statoil	USA	2-1/16 5K	Pneu SR (Low Pressure)	275	2018
-	Statoil	USA	4", 6"	Pneu SR	4	2018
-	Mogas	USA	-	Pneu DA	15	2018
-	Mogas	USA	2"	Pneu SR	8	2018
-	Mogas	USA	-	Pneu SR	1	2018
Hattie Compressor	WPX Energy	USA	4", 6", 20"	Pneu SR	4	2018
-	Cimarex	USA	16", 20"	Pneu DA	12	2018
-	Siemens Power	USA	4", 6"	Pneu SR	4	2018
FPSO Mondo	-	Angola	2"	Pneu SR	2	2017
Peru LNG (Replacement)	Peru LNG	Peru	6", 8"	Pneu SR	5	2017
LTE BEC - KH Engineering	-	Netherlands	DN50 PN16- DN200 PN160	Pneu SR	11	2017
China PTA	CTIEI	China	10"	Pneu SR	1	2017
FPSO Jubilee Field	Tullow Ghana	Ghana	8"	Pneu SR	2	2017
Rumaila	BP	Iraq	3"	Pneu SR	1	2017

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Sakhalin	SEIC	Russia	2"	Pneu SR	2	2017
West Nile Delta	BP	Egypt	3/4", 1", 3"	Pneu SR	19	2017
Elton AGI	NGN	UK	12"	Direct Gas c/w Control Cabinet	1	2017
-	Maersk	-	6"	Hyd SR	1	2017
-	Maersk	-	3"	Pneu SR	1	2017
Greater Stella	Ithaca	UK	3", 8"	Pneu SR/Electric	4	2017
-	Apache	UK	6"	Pneu SR	1	2017
Clyde	Talisman	UK	-	Pneu SR	4	2017
Carnforth Asset Health	National Grid	UK	36"	Direct Gas	2	2017
Carnforth Asset Health	National Grid	UK	2"	Direct Gas	3	2017
Sakhalin Island Offshore	SEIC	Russia	2"-14"	Hyd & Pneu SR	7	2017
Jasmine	Conoco Phillips	UK	6"	Pneu SR	1	2017
Sakhalin Island	SEIC	Russia	2" Butterfly	Pneu SR	1	2017
-	-	-	6"	Pneu SR	1	2017
-	-	-	5", 8" Butterfly	Hyd DA	2	2017
Pierce Water Injection	Bluewater	UK	-	Pneu SR	19	2017
Forties Alpha	Apache	UK	-	Pneu SR	1	2017
Arbroath	Talisman	UK	-	Pneu SR	2	2017
Babbage	E-on Ruhrgas	UK	-	Hyd SR	1	2017
Montrose	Repsol Sinopec	UK	8"	Pneu SR	1	2017
Solan	Premier Oil	UK	-	Pneu SR	1	2017
FCP	-	Iraq	2"-6"	Pneu SR	4	2016
Peru LNG	Peru LNG	Peru	12"	Pneu SR	2	2016
Urea Casake-Gubakha	JSC Metafrax	Russia	2"-8"	Pneu SR	7	2016

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FPSO Petrojarl 1 Atlanta Field	-	Brazil	2"-6"	Pneu SR	10	2016
Sakhalin Island	SEIC	Russia	2"	Pneu Linear SR	1	2016
Malaysia Marine	Petronas Carigali	Malaysia	4", 6"	Hyd SR	18	2016
Barbara T2	ENI	Italy	2"-14"	Pneu SR/DA	6	2016
Stoccaggio Gas San Potito Cotignola	Edison	Italy	3"	Pneu SR	1	2016
-	Petronas Carigali	Malaysia	2"	Pneu SR	1	2016
Calipso	ENI	Cyprus	3"	Hyd SR	2	2016
Peru LNG	Peru LNG	Peru	12"	Pneu SR	1	2016
La Casella	-	Italy	6", 16"	Pneu DA	2	2016
Satah Al Razboot (SARB) Field development	ADMA OPCO (ADNOC)	UAE	4" 1/6 API 10000, 8"600, 8"600	Pneu SR	9	2016
Sakhalin LUN-A	SEIC	Russia	4"	Pneu DA	2	2016
Malaysia Marine	Petronas Carigali	Malaysia	4"	Hyd SR	2	2016
CTV2 Cosco Guangdong & CTV1 Cosco	MacGregor	Norway	20"	Hyd DA	4	2016
Sakhalin Island Offshore	SEIC	Russia	4"	Pneu SR	1	2016
Sakhalin Island	SEIC	Russia	3" #1500	Pneu DA	3	2016
Karachaganak	KPO	Kazakhstan	1.5"	Pneu SR	1	2016
-	GAIL	India	30" #600	Direct Gas	2	2016
Sakhalin Island Offshore	SEIC	Russia	6"	Pneu SR	1	2016
Sakhalin Island	SEIC	Russia	-	Pneu SR	2	2016
Sakhalin Island Offshore	SEIC	Russia	-	Pneu SR	1	2016
Kraken FPSO	EnQuest	UK	8" #150	Pneu DA	1	2016
Sakhalin Island Offshore	SEIC	Russia	-	Pneu SR	1	2016
Buzzard	Nexen	UK	4" #900	Pneu SR	1	2016
Sakhalin Island Offshore	SEIC	Russia	1.5"	Pneu SR	1	2016

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Sakhalin Island Offshore	SEIC	Russia	2" Butterfly	Pneu SR	1	2016
Sakhalin Island Offshore	SEIC	Russia	2"	Pneu SR	1	2016
-	Total	UK	12"	Hyd DA	1	2016
Karachaganak	KPO	Kazakhstan	1.5"	Pneu SR	3	2016
Kraken FPSO	EnQuest	UK	3"	Pneu SR	1	2016
Schooner & Ketch	Petrofac Faroe	UK	2", 3"	Hyd SR	4	2016
Beryl Alpha	Apache	UK	16"	Pneu SR	1	2016
-	Maersk	-	2", 4"	Pneu SR	3	2016
-	-	-	12"	Subsea	1	2016
Triton	Dana Petroleum	UK	10"	Hyd SR	1	2016
Solan	Premier Oil	UK	8"	Pneu SR	2	2016
-	Apache	UK	2", 3", 4"	Pneu SR	8	2016
Forties Charlie	Apache	UK	6"	Pneu SR	1	2016
DAP Fuel Gas & System Diesel Upgrade	BG Trinidad	Trinidad & Tobago	1.5", 2"	Pneu SR	4	2015
Lu An Coal to Liquid	-	China	1.5"-10"	Pneu SR	54	2015
Frame Agreement	MacGregor	Norway	16"	Hyd SR	1	2015
Insalah	JV Gas	Algeria	8"	Gas Hyd	1	2015
Moho Nord	Total	Congo	6"	Hyd SR	1	2015
Stoccaggio Gas San Potito Cotignola	Edison	Italy	3"-6"	Pneu SR	4	2015
Hull Arctic Area	MacGregor	Norway	20" #150	Hyd DA Low Temperature	6	2015
Ginaldag & Bozdag Arctic	MacGregor	Norway	20" #150	Hyd DA Low Temperature	4	2015
Sungdong	MacGregor	Norway	20" #150	Hyd DA	1	2015
South Pars 19	POGC	Iran	2", 3", 4", 8", 18"	Hyd SR	21	2015
Jade	Conoco Phillips	UK	6"	Hyd SR Linear	1	2015

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Sakhalin Island Offshore	SEIC	Russia	4"	Pneu SR	1	2015
Affleck over Clyde	Talisman	UK	-	Hyd SR	2	2015
North Azadegan Oilfield	NIOC	Iran	12"	Gas Hydraulic c/w Control Cabinet,	1	2015
Cladhan over Tern	TAQA	UK	1", 3"	Pneu SR	8	2015
Judy Riser Platform	Conoco Phillips	UK	2"	Hyd Linear	13	2015
Jade	Conoco Phillips	UK	2"	Hyd SR Linear	1	2015
Beckton	Thames Water	UK	1"	Direct Gas c/w Control Cabinet	1	2015
Mossmoran Gas Plant	Exxon Mobil	UK	18" Gate	Hyd DA Linear c/w Accumulator Bank	1	2015
Buzzard	Nexen	UK	-	Pneu SR	1	2015
Cladhan over Tern	TAQA	UK	1"-10"	Pneu SR	12	2015
Sakhalin Island	SEIC	Russia	6" Butterfly	Pneu SR	1	2015
Judy/Joanne	Conoco Phillips	UK	12"	Pneu SR	1	2015
West Azeri	BP Caspian	Azerbaijan	2"	Pneu SR	4	2015
Theddlethorpe Gas Terminal	Conoco Phillips	UK	2", 6"	Pneu SR	7	2015
Forties Delta	Apache	UK	-	Pneu SR	1	2015
Aylesbury Compressor	National Grid	UK	6"	Direct Gas	1	2015
Dragon LNG	Dragon LNG	UK	1.5", 3"	Pneu SR	7	2015
Kirriemuir	National Grid	UK	-	Direct Gas	4	2015
Kraken FPSO	EnQuest	UK	2"-24"	Pneu SR/DA	91	2015
Sakhalin Island II Piltun Offshore	SEIC	Russia	3"	Pneu SR	1	2015
Pipeline to the West	Bord Gais	UK	-	Gas Hyd/Site Work	1	2015
Dragon LNG	Dragon LNG	UK	8", 10"	Pneu SR	2	2015
Kraken FPSO	EnQuest	UK	6"	Pneu SR	2	2015
Uzbekistan-China Gas Pipeline	Asia Trans Gas	Uzbekistan	4"	Pneu SR	1	2015

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Yadavaran Oil Field	NIOC	Iran	4"	Pneu SR	3	2015
Aylesbury Compressor Station	National Grid	UK	6"	Direct Gas	1	2015
West Azeri	BP Caspian	Azerbaijan	3"	Pneu SR	1	2015
Jasmine	Conoco Phillips	UK	6"	Pneu SR	2	2015
Wormington Compressor	National Grid	UK	-	Pneu SR	1	2015
Tapis C	Exxon Mobil	Malaysia	3"	Pneu SR	6	2015
Theddlethorpe	Conoco Phillips	UK	2", 3"	Pneu SR	4	2015
Melut Basin Oil Development	CNPC	Sudan	6", 8", 24"	Pneu SR	8	2015
Jasmine	Conoco Phillips	UK	-	Pneu SR	3	2015
Kirriemuir	National Grid	UK	4"	Direct Gas	4	2015
Britannia	Britannia	UK	1.5"	Pneu Linear	1	2015
Sakhalin Island Offshore	SEIC	Russia	3" Butterfly	Pneu SR	2	2015
-	Enquest	-	2"	Pneu SR	1	2015
Aylesbury Compressor	National Grid	UK	2"	Direct Gas	2	2015
Baglan Bay	General Electric	UK	4"	Pneu SR	4	2015
Forties Charlie	Apache	UK	6"	Pneu DA	4	2015
West Sole Alpha	Perenco	UK	-	Hyd SR	1	2015
Paull AGI	National Grid	UK	-	Gas Over Oil	1	2015
Alwyn B	Total	UK	2"	Pneu SR	2	2015
North Alwyn	Total	UK	18"	Hyd DA	1	2015
Dragon LNG	Dragon LNG	UK	-	Pneu SR	1	2015
Amethyst	BP	UK	-	Pneu SR	2	2015
Litoral A Platform	Dragados/Pemex	Mexico	2", 3"	Pneu SR	4	2014
Sumy Ucraina	-	-	DN65 PN40	Pneu SR	1	2014

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SKID	ENI	Congo	6"	Hyd DA	2	2014
Lu An Coal to Liquid	-	China	2"-8"	Pneu SR	14	2014
Litoral B Platform	Dragados/Pemex	Mexico	2"-24"	Pneu SR	45	2014
Ansaldo	-	-	4", 8"	HW/HPHC	2	2014
SKID	ENI	Congo	8"	Pneu DA	2	2014
Litoral B Platform	Dragados/Pemex	Mexico	2"-12"	Pneu SR	24	2014
Majnoon - FCP Gas Export Pipeline	Shell	Iraq	6"-24"	Gas Hyd	5	2014
Zora Gas Field	DanaGas PJSC	UAE	1"	Hyd SR	1	2014
Majnoon - Sweet Process Gas	Shell	Iraq	8"-24"	Pneu SR	6	2014
Frames	-	-	2"	Pneu SR	1	2014
Bouri Gas Utilization	Eni Oil	Libya	2", 3" & 6"	Pneu SR	3	2014
Bouri Gas Utilization	Eni Oil	Libya	2"	Pneu SR	9	2014
Jade	Conoco Phillips	UK	2"	Hyd SR	2	2014
Tapis EOR & Rejuvenation	Exxon Mobil	Malaysia	2", 3", 10"	Pneu SR c/w Air Receivers	141	2014
Sakhalin Island Offshore	SEIC	Russia	14"	Pneu DA	1	2014
Kamelia Lawit	HESS	Malaysia	1", 2"	Pneu SR	2	2014
Tapis C	Exxon Mobil	Malaysia	3" & 4"	Pneu SR	27	2014
Sakhalin IslandOffshore	SEIC	Russia	N/A	Pneu SR	2	2014
Beckton CHiP	National Grid	UK	4", 8"	Gas Hyd	2	2014
Bleo Holm	Talisman	UK	-	Pneu SR	1	2014
Jade	Conoco Phillips	UK	2"	Hyd SR	5	2014
Raz Az Zawr	Ma'aden	Saudi Arabia	12"	Pneu DA	1	2014
Sakhalin Island Offshore	SEIC	Russia	3" Butterfly	Pneu SR	1	2014
Britannia	Britannia	UK	1.5", 2.5"	Pneu Linear	2	2014

Reference List for Actuated Control Systems

<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Valve Size</u>	<u>Actuator Type</u>	<u>Qty</u>	<u>Supplied</u>
Karachaganak	KPO	Kazakhstan	6"	Pneu Linear SR	1	2014
Minworth	National Grid	UK	4"	Direct Gas	1	2014
Theddlethorpe Expansion	Conoco Phillips	UK	2"-20"	Pneu SR	29	2014
Jasmine	Conoco Phillips	UK	2"	Hyd Linear	9	2014
Jasmine	Conoco Phillips	UK	14"	Pneu SR	1	2014
Cleeton	BP	UK	-	Hyd DA	1	2014
North Alwyn	Total	UK	8"	Pneu SR	1	2014
Ketch	Tullow	UK	1/2"	Hyd SR	1	2014
Tapis	Exxon Mobil	Malaysia	8"	Pneu SR	1	2014
Karachaganak	KPO	Kazakhstan	6"	Pneu Linear SR c/w Spare Parts	2	2014
Clipper	RWE	UK	1"	Hyd SR	1	2014
Karachaganak	KPO	Kazakhstan	1.5", 2"	Pneu SR	2	2014
Jasmine	Conoco Phillips	UK	2"	Hyd SR Linear	6	2014
Ichthys	-	Australia	2", 4"	Pneu SR	3	2014
Cladhan over Tern	TAQA	UK	2"	Pneu SR	2	2014
Cladhan over Tern	TAQA	UK	2", 4", 10"	Pneu SR	5	2014
Sakhalin Island Offshore	SEIC	Russia	2", 6" Butterfly	Pneu SR	2	2014
Cladhan over Tern	TAQA	UK	4", 8"	Pneu SR	2	2014
-	Total	-	10"	Pneu SR	1	2014
Judy/Joanne	Conoco Phillips	UK	2"	Pneu SR	1	2014
Affleck over Clyde	Talisman	UK	2"	Hyd SR	2	2014
Kinbuck AGI	National Grid	UK	36"	Gas Hyd c/w Control Cabinet	1	2014
Britannia	Britannia	UK	-	Hyd SR	1	2014
Judy Riser Platform	Conoco Phillips	UK	3"	Pneu SR	1	2014

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<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Valve Size</u>	<u>Actuator Type</u>	<u>Qty</u>	<u>Supplied</u>
Mickle Trafford	National Grid	UK	-	Control Panel	0	2014
Sakhalin Island Offshore	SEIC	Russia	14"	Pneu SR	1	2014
South Pars 20 & 21	NIOC	Iran	2"-18"	Pneu SR/28 x Control Systems	104	2013
Frame Agreement		Norway	20"	Hyd DA	1	2013
Litoral A Platform	Dragados/Pemex	Mexico	6"-30"	Pneu SR	10	2013
Frame Agreement		Norway	20"	Hyd DA	3	2013
Frame Agreement		Norway	20"	Hyd DA	2	2013
Asgard Subsea Compression	Statoil	Norway	4"	Hy DA SUB100	1	2013
Jade	Conoco Phillips	UK	3"	Hyd SR	2	2013
West Azeri	BP Caspian	Azerbaijan	3"	Pneu SR (Stainless Steel)	65	2013
South Pars 20 & 21	POGC	Iran	1", 2"	Pneu SR Linear	12	2013
Kamelia A Wellhead Platform	Hess	Malaysia	1", 2", 12"	Pneu SR	4	2013
Yadavaran Oil Field	NIOC	Iran	4"	Hyd SR	26	2013
Jade	Conoco Phillips	UK	3"	Hyd SR	2	2013
Kamelia A	Petronas	Malaysia	1", 2"	Pneu SR	2	2013
Forties	Apache	UK	6", 8"	Pneu DA	21	2013
Jade	Conoco Phillips	UK	1.5", 2"	Hyd SR	5	2013
Peru LNG	Peru LNG	Peru	-	Pneu SR	1	2013
Burun Field	Burren Energy Services	Turkmenistan	2"-24"	Pneu SR/DA c/w Air Receivers	30	2013
Frame Agreement	Occidental	Qatar	4" Choke	Hyd SR	2	2013
Solan	Premier Oil	UK	1"-16"	Pneu SR	82	2013
Kamelia Lawit	HESS	Malaysia	2", 16"	Pneu SR/DA	4	2013
Yadavaran Oil Field	NIOC	Iran	4", 6"	Pneu SR	4	2013
St Huberts Lane	National Grid	UK	18"	Gas Over Oil	1	2013

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<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Valve Size</u>	<u>Actuator Type</u>	<u>Qty</u>	<u>Supplied</u>
Frame Agreement	Occidental	Qatar	-	Hyd SR	4	2013
Crows Nest, Bolton	National Grid	UK	8"	Pneu DA	2	2013
Ketch	Tullow	UK	1/2"	Hyd SR	1	2013
Carrington	ESBI	UK	24"	Direct Gas	1	2013
Sakhalin Island	SEIC	Russia	3"	Pneu DA	1	2013
Jade	Conoco Phillips	UK	2"	Hyd SR	2	2013
St Fergus	Total	UK	2", 4"	Pneu SR	17	2013
-	-	Norway	24" Butterfly	Pneu SR	1	2013
Alwyn B	Total	UK	8"	Hyd DA	1	2013
Solan	Premier Oil	UK	4", 6", 8", 16"	Pneu SR	12	2013
Sakhalin Island II Piltun Offshore	SEIC	Russia	4"	Pneu SR	2	2013
Jerneh A	Exxon Mobil	Malaysia	2"	Pneu SR	6	2013
Sakhalin Island Offshore	SEIC	Russia	6"	Pneu SR	1	2013
Jade	Conoco Phillips	UK	2"	Hyd SR	3	2013
Knightsbridge FPSO	Enquest	UK	2", 3", 4", 8"	Pneu SR	6	2013
Tapis EOR & Rejuvenation	Exxon Mobil	Malaysia	2", 3", 10"	Pneu SR	4	2013
Bualuang FSO	Salamander Energy	Thailand	3", 6"	Pneu SR and Control Panel	3	2013
South Stream	Gazprom	Russia	-	Electro-Hydraulic Units	20	2013
Sakhalin Island Offshore	SEIC	Russia	-	Pneu SR	3	2013
Karachaganak	KPO	Kazakhstan	2"	Pneu SR	1	2013
Uzbekistan-China Gas Pipeline	Asia Trans Gas	Uzbekistan	2", 4", 8"	Pneu SR	40	2013
South Arne Phase 3	Hess	Denmark	2"-10"	Pneu SR	11	2012
South Arne Phase 3	Hess Denmark	Denmark	6", 10"	Hyd SR	4	2012
Kazakhstan-China Pipeline Compressor #7	KSS	Kazakhstan	4"	Gas Over Oil	2	2012

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Trangaz Kuban	Gazprom	Russia	12"	Pneu DA Linear	1	2012
South Arne Phase 3	Hess Denmark	Denmark	2", 3"	Hyd/Pneu SR	6	2012
Frame Agreement	-	Norway	20"	Hyd DA	10	2012
GPP-B Dew Point Control Unit-3	Petronas Dagangan	Malaysia	2", 18", 30"	Pneu SR	4	2012
Karachaganak	KPO	Kazakhstan	4"	Pneu SR	3	2012
Urea Casale	-	Russia	3"	Pneu SR Linear (Low Temperature)	1	2012
-	Hyundai Heavy Industries	Norway	20"	Hyd DA	2	2012
-	Samsung Heavy Industries	Norway	4"	Hyd DA	16	2012
Frame Agreement	-	Norway	20"	Hyd DA	1	2012
Frame Agreement	-	Norway	20"	Hyd DA	1	2012
Frame Agreement	-	Norway	20"	Hyd DA	1	2012
Jasmine	Conoco Phillips	UK	3/4", 2", 3", 6", 10"	Pneu/Hyd Linear	49	2012
Jasmine	Conoco Phillips	UK	3/4"-8"	Pneu/Hyd SR	47	2012
Claymore	Talisman	UK	2", 3"	Pneu SR	9	2012
Humbly Grove	Star Energy	UK	2", 4", 6", 8"	Pneu SR	13	2012
Forties Bravo	Apache	UK	3/4", 2", 3", 4", 6", 12"	Pneu SR	21	2012
York Field Development	Centrica	UK	1", 1.5", 2", 3", 14", 16"	Hyd SR	9	2012
GCP & GRIP at Minagish	KOC	Kuwait	1.5"-24"	Pneumatic Spring Return	50	2012
Humbly Grove	Star Energy	UK	3", 6", 8", 10"	Pneu SR	13	2012
Auk South Re-Development	Talisman	UK	8"	Pneu SR	1	2012
Sakhalin Island	SEIC	Russia	-	Pneu SR	1	2012
Jasmine	Conoco Phillips	UK	2"	Pneu SR	1	2012
Jasmine	Conoco Phillips	UK	6"	Pneu SR	1	2012
Britannia Long Term Compression	Britannia	UK	8"	Pneu SR	4	2012

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Raz Az Zawr	Ma'aden	Saudi Arabia	12"	Pneu DA	1	2012
Miskar	BG Tunisia	Tunisia	1", 2", 4"	Pneu SR	12	2012
Eider	Taqa	UK	6"	Pneu SR	1	2012
Cormorant Alpha	Taqa	UK	2", 4", 6", 8"	Pneu SR	9	2012
Gorgon Inlet Station	DBNGP Dampier Bunbury	Australia	12", 20"	Pneu DA	3	2012
Mondarra Gas Storage Meter Station	DBNGP Dampier Bunbury	Australia	12"	Pneu DA	8	2012
PMO	Petronas Carigali	Malaysia	2", 6"	Pneu SR/DA	5	2012
Forties Alpha Satellite	Apache	UK	6"	Pneu DA	49	2012
PS1 Platform	Occidental	Qatar	8"	Pneu SR	1	2012
Jasmine	Conoco Phillips	UK	2"	Pneu SR Linear	1	2012
Peru LNG	Peru LNG	Peru	6"	Pneu SR	1	2012
Penaspian Melaka Refinery	Petronas	Malaysia	4"	Pneu SR	3	2012
York Field Development	Centrica	UK	16"	Hyd Linear	1	2012
PMO	Petronas Carigali	Malaysia	6"	Pneu DA	4	2012
Gryphon	Maersk	UK	6", 12", 16"	Pneu SR	4	2012
Brown Range Lateral	-	-	6"	Pneu DA	1	2012
Deep Panuke	SBM	Canada	2"	Pneu SR	1	2012
Claymore	Talisman	UK	3"	Pneu SR	3	2012
ETAP	BP	UK	3"	Pneu SR	1	2012
Forties	Apache	UK	3"	Pneu SR	2	2012
Sakhalin Island	SEIC	Russia	1"	Pneu SR	1	2012
Kakap Ices - Kikeh Tie Back	Murphy Sarawak Oil	Malaysia	2", 8"	Hyd SR	3	2012
Babbage	E-ON Ruhrgas	UK	6"	Hyd DA	4	2012
Macedon Inlet Station	DBNGP Dampier Bunbury	Australia	20"	Pneu DA	1	2012

Reference List for Actuated Control Systems

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PS-1 K	Occidental	Qatar	2", 3", 4"	Pneu SR	6	2012
Frame Agreement	Occidental	Qatar	2"	Hyd SR	11	2012
Frame Agreement	Occidental	Qatar	2"	Hyd SR	10	2012
Jalilah Platform	DPE	UAE	-	ESD c/w Partial Test	1	2012
Salman SPD15	South Pars	Iran	1"-34"	Pneu SR/DA	39	2011
Yizeng PTA	-	China	6"	Pneu SR	1	2011
Aseng FPSO Project	Noble Energy	Equatorial Guinea	10"	Pneu SR	2	2011
Frame Agreement	-	Norway	20"	Hyd DA	8	2011
Tiro & Sidon FPSO	-	Norway	20"	Hyd SR	3	2011
OSX-1 FPSO Topside Upgrade	OSX	Brazil	6", 8"	Pneu SR	4	2011
OSX-1 FPSO	OSX	Brazil	2", 3", 6", 10" & 12"	Pneu SR	11	2011
CTIEI	-	China	8"	Pneu SR	1	2011
South Pars - Salman SPD16	South Pars	Iran	-	Pneu SR/DA	41	2011
OSX-1 FPSO	OSX	Brazil	2", 6" & 8"	Pneu SR	5	2011
Jiaxing PTA	-	China	8", 10"	Pneu SR/DA	2	2011
OSX-1 FPSO	OSX	Brazil	2", 4"	Pneu SR	3	2011
ISSA/P-38 Pipeline	Occidental	Qatar	4", 6"	Pneu SR	2	2011
OSX-1 FPSO	OSX	Brazil	4", 12"	Pneu SR	2	2011
Block 3 & 4 Development Phase II	CCED	Oman	2", 8", 10", 12", 16"	Pneu SR	13	2011
CPF Testing Facility	Occidental	Oman	8"	Pneu SR	5	2011
Block 3 & 4 Development Phase III	CCED	Oman	8", 10", 16"	Pneu SR	7	2011
Carrington	National Grid	UK	24"	Direct Gas	1	2011
Carrington	National Grid	UK	12"	Direct Gas	1	2011
Burnhervie MOC ROV	National Grid	UK	18"	Gas Over Oil	1	2011

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Jade J12 Flowline	Conoco Phillips	UK	2"	Hyd SR	2	2011
Karachaganak	KPO	Kazakhstan	2"	Pneu SR	2	2011
West Sole Alpha	BP	UK	2"	Pneu SR	1	2011
Revolution	EDF	UK	16"	Pneu SR	2	2011
Bonny	Shell	Nigeria	3" & 4"	Pneu SR	5	2011
Jade	Conoco Phillips	UK	2"	Hyd SR	2	2011
Sakhalin Island Onshore	SEIC	Russia	-	Pneu SR and Springs Only	1	2011
Tupi Oil Field	Petrobras	Brazil	3", 16", 20" & 24"	Pneu SR/DA	6	2011
Britannia	Britannia	UK	24"	Hyd SR	1	2011
Gas Pipeline Extension	Manx Electricity	UK	6"	Gas Over Oil	2	2011
Morecambe Bay Rivers	Burlington Resources	UK	4"	Pneu SR	1	2011
Magnus	BP	UK	2 1/16"	Pneu SR	1	2011
Kirriemuir	National Grid	UK	4"	Direct Gas	4	2011
EDF Revolution	EDF	UK	24" & 30"	Pneu SR	6	2011
EDF Revolution	EDF	UK	50 mm x 600	Pneu SR	4	2011
Jade J12 Flowline	Conoco Phillips	UK	1.5"	Hyd SR	1	2011
Jacky Oilfield	Ithaca Energy	UK	4"	Hyd SR	1	2011
Babbage	E-ON Ruhrgas	UK	6"	Hyd DA	1	2011
Jasmine	Conoco Phillips	UK	6", 10", 12", 14" & 16"	Pneu SR	23	2011
Jade	Conoco Phillips	UK	1.5"-4.5"	Hyd SR	5	2011
Cormorant Alpha	Shell	UK	10"	Pneu SR	1	2011
Janice	Maersk	UK	14", 20" Butterfly	Hyd DA	3	2011
Revolution	EDF	UK	50mm, 80mm, 100mm, 150mm	Pneu SR/Air Receivers	7	2011
York Field Development	Centrica	UK	-	Hyd DA	1	2011

Reference List for Actuated Control Systems

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Cappagh South	Bord Gais	UK	-	Gas Over Oil	1	2011
Revolution	EDF	UK	50mm, 80mm	Pneu SR	2	2011
Ensign Development	Centrica	UK	3/4", 2"	Hyd SR	2	2011
Alwyn North B	Total	UK	-	Pneu SR	1	2011
-	Maersk	Norway	-	Pneu SR	1	2011
Sakhalin Island	SEIC	Russia	-	Pneu SR	2	2011
Jade	Conoco Phillips	UK	1.5"	Hyd SR	1	2011
Rough Storage	Centrica	UK	4"	Pneu SR	1	2011
Miskar Hannibal	BG Tunisia	Tunisia	10"	Pneu SR	1	2011
Dimlington	BP	UK	4"	Pneu SR	1	2011
ABV for Kertih & Gombang	Petronas Gas	Malaysia	2", 3"	Gas Over Oil	2	2010
Tehran Refinery Upgrading	NIOEC	Iran	2"-20"	Pneu SR	14	2010
Resak Platform	Petronas Carigali	Malaysia	2", 6"	Pneu SR	3	2010
Zongheng PTA	Aker Kvaerner	China	6"	Pneu SR	1	2010
Tapis B	Exxon Mobil	Malaysia	28"	Pneu SR	1	2010
China PTA	CTIEI	China	8" & 10"	Pneu SR	3	2010
-	Petronas Carigali	Malaysia	3", 6" & 12"	Pneu/Hyd SR	10	2010
Bekok-C 878183	Petronas Carigali	Malaysia	3"	Pneu SR	10	2010
Phase III Pipeline Debottlenecking	Occidental	Qatar	12", 20"	Pneu/Hyd SR	7	2010
Upgrade Project	Exxon Mobil	Qatar	10" & 12"	Pneu DA/SR	34	2010
Seligi & Semangkok Pipeline	Exxon Mobil	Malaysia	6", 12"	Pneu DA/SR	51	2010
Resak Platform	Petronas Carigali	Malaysia	6"	Pneu SR	1	2010
Pipeline IS031 & IS019	Occidental	Qatar	4", 6"	Hyd/Pneu	4	2010
Karachaganak	KPO	Kazakhstan	6"	Pneu SR Linear	13	2010

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Karachaganak	KPO	Kazakhstan	8"	Pneu SR	2	2010
Sole Pit Clipper	Shell	UK	-	Pneu SR	1	2010
South Batra Booster Compression	Melrose/Odyssey	Egypt	2", 8" & 10"	Pneu SR/Air Receiver	3	2010
Dowglais AGI	Wales & West Utilities	UK	12"	Gas Over Oil c/w Slamshut Cabinets	4	2010
BS160 Gas Dehydration System	KOC	Kuwait	1"-3"	Pneumatic Spring Return	20	2010
Britannia	Britannia	UK	10"	Hyd SR	1	2010
Tern Alpha	Shell	UK	4"	Pneu SR	2	2010
Steel Mill	Corus	Netherlands	-	Hyd DA	3	2010
Fulmar	Talisman	UK	2"	Pneu SR	1	2010
Balmoral Development	CNR	UK	4"	Pneu SR	1	2010
Anasuria	Shell	UK	-	Pneu SR	1	2010
Britannia	Britannia Operator	UK	6"	Pneu SR	1	2010
Inamenas	BP/Statoil/Sonatrach	Algeria	-	Hyd SR	4	2010
Tronoh City Gas Station	Petronas Gas	Malaysia	3"	Gas Over Oil	1	2010
Britannia	Britannia Operator	UK	18"	Hyd SR	1	2010
Abbot Development	-	-	2"	Pneu SR	2	2010
Leman	Shell	UK	2" & 3"	Pneu SR	10	2010
Triton Gas Lift Import Phase 3	Shell	UK	3" & 10"	Pneu/Hyd SR	2	2010
Heather Field	Lundin	UK	24"	Pneu SR	1	2010
Kavarna	Melrose	Bulgaria	6"	Hyd SR	1	2010
Kaliakra	Melrose	Bulgaria	10"	Hyd SR	1	2010
Britannia	Britannia Operator	UK	2"	Pneu SR	1	2010
Clair	BP	UK	-	Pneu SR	1	2010
Bacton	Shell	UK	6"	Pneu SR	1	2010

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<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Valve Size</u>	<u>Actuator Type</u>	<u>Qty</u>	<u>Supplied</u>
Triton Gas Lift Phase 3	Shell	UK	2", 3" & 4"	Pneu SR	7	2010
Triton Gas Lift Phase 3	Shell	UK	3"	Pneu SR	1	2010
Leman	Shell	UK	2"	Pneu SR	3	2010
Karachaganak	KPO	Kazakhstan	2"	Pneu SR	1	2010
Jade	Conoco Phillips	UK	2"	Hyd SR	1	2010
Gilwern-Hafodyrynys	Wales & West Utilities	UK	12"	Direct Gas	2	2010
Anasuria	Shell	UK	-	Pneu SR	3	2010
Brent Charlie	Shell	UK	-	Pneu SR	1	2010
Scheihallion	BP	UK	1.5"	Pneu SR	1	2010
Sakhalin Island	SEIC	Russia	8" Butterfly	Pneu DA	2	2010
Revolution	EDF	UK	6"	Pneu SR	1	2010
Britannia	Britannia	UK	6"	Pneu SR	1	2010
Britannia	Britannia	UK	6"	Pneu SR	1	2010
Kittiwake	Shell	UK	3"	Pneu SR	1	2010
Sakhalin Island	SEIC	Russia	-	Pneu SR	3	2010
Anasuria	Shell	UK	2"	Pneu SR	1	2010
Bovanenkovo-Ukhta	Gazprom	Russia	DN300	Electro Hydraulic	20	2010
Mongstad	Statoil	Norway	2"	Pneu SR	4	2010
Peru LNG	Peru LNG	Peru	3"-30"	Pneu SR	32	2009
Peru LNG	Peru LNG	Peru	30"	Pneu SR	2	2009
Peru LNG Top Ups	Peru LNG	Peru	2"-24"	Pneu SR	24	2009
Peru LNG Top Ups	Peru LNG	Peru	12", 24"	Pneu SR	3	2009
Gas Separation Plant	PTT	Thailand	18"-34"	Pneu SR	9	2009
ESP Plant	PTT	Thailand	18"-34"	Pneu SR	17	2009

Reference List for Actuated Control Systems

<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Valve Size</u>	<u>Actuator Type</u>	<u>Qty</u>	<u>Supplied</u>
Ruby FPSO	Petronas	Vietnam	12"	Pneu SR	2	2009
Turano Lodigiano Bertonic	Sorgenia	Italy	6"	Pneu SR	3	2009
China Prosperity (Jiang Yin) PTA	-	China	3"-8"	Pneu SR	6	2009
Tehran Refinery Upgrading	NIOEC	Iran	3/4"-20"	Pneu SR	60	2009
Dulang Platform Offshore	Petronas Carigali	Malaysia	6"	Pneu DA	1	2009
Artenius Mega PTA	-	Portugal	3"-8"	Pneu SR	4	2009
ZhenHai Refinery China	SEI	China	4"-10"	Pneu SR	8	2009
ZhenHai Refinery China	SEI	China	16"-28"	Pneu SR	6	2009
FPSO Jubilee Field Unit	Tullow Ghana	Malaysia	8"	Pneu SR	2	2009
Al-Dora Refinery Baghdad	NIOC	Iraq	0.75"-12"	Hyd SR	27	2009
Sakhalin Island Onshore	SEIC	Russia	4" & 6"	Pneu SR	2	2009
Sakhalin Island	SEIC	Russia	4"	Pneu SR Linear	1	2009
Jade	Conoco Phillips	UK	2"	Hyd SR	6	2009
Forties Delta	Apache	UK	1", 2", 3" & 4"	Pneu SR	13	2009
Karachaganak	KPO	Kazakhstan	20" Gate	Hyd DA Linear, Control Cabinet &	1	2009
Babbage	E-ON Ruhrgas	UK	12"	Hyd SR	1	2009
Marshfield	Severn Gas	UK	450 mm	Gas Over Oil	1	2009
Claymore	Talisman	UK	3"	Pneu SR	6	2009
Buzzard	Nexen	UK	2"	Pneu SR	1	2009
North Alwyn	Total	UK	2"	Hyd SR	1	2009
Forties Charlie	Apache	UK	1", 1.5", 3" & 4"	Pneu SR	9	2009
Gamba	Shell	Gabon	450 mm	Pneu SR	4	2009
West Don & Don South West	Petrofac	UK	1"	Pneu SR	4	2009
Babbage	E-ON Ruhrgas	UK	1", 2", 3" & 6"	Hyd SR	13	2009

Reference List for Actuated Control Systems

<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Valve Size</u>	<u>Actuator Type</u>	<u>Qty</u>	<u>Supplied</u>
Yas Island	-	UAE	16"	Gas Over Oil	1	2009
Sakhalin Island	SEIC	Russia	2"	Pneu SR	1	2009
Inamenas	BP/Statoil/Sontrach	Algeria	8"	Hyd SR c/w Hydraulic Cabinets	16	2009
Kharyaga Phase 3	Total	Russia	6" & 8"	Pneu & Hyd SR	20	2009
Triton FPSO	Amerada Hess	UK	4"	Pneu SR	2	2009
Fawley	Exxon Mobil	UK	3"	Pneu SR	1	2009
Mossmorran	Shell	UK	14"	Pneu SR	4	2009
Leman 49/27/H	Perenco	UK	1" & 6"	Pneu SR	3	2009
H2S Detection & Interlock at Amine Overhead	Petronas Gas	Malaysia	10", 12", 14" & 16"	Pneu SR	4	2009
Babbage	E-ON Ruhrgas	UK	6"	Hyd DA	6	2009
CPOC FPSO B-17 Development	Petronas Gas	Malaysia	8", 24"	Hyd SR	2	2009
North Alwyn	Total	UK	14"	Pneu DA	1	2009
Fertil Urea Debottlenecking	Petronas Gas	UAE	2", 3"	Pneu SR	3	2009
Immingham Storage	Immingham CHP	UK	14"	Pneu SR	10	2009
Braefoot Bay	Shell	UK	2"	Pneu SR	1	2009
GPP B, Tok Arun Terengganu	Petronas Gas	Malaysia	4", 10"	Pneu SR	4	2009
Forties Delta	Apache	UK	1", 2", 4", 6", 8" & 12"	Pneu/Hyd SR	15	2009
Babbage	E-ON Ruhrgas	UK	2"	Hyd SR	1	2009
Curlew 'C' Gas Lift	Maersk	Norway	2"	Hyd SR	1	2009
West Dikiris	Melrose	Egypt	2", 6" & 8"	Pneu SR	3	2009
Beryl B	Exxon Mobil	UK	4"	Pneu SR	1	2009
Britannia	Britannia	UK	10"	Hyd SR	1	2009
FSO Urwasi Keppel Shipyard	PT Apol Cemerlang	Indonesia	6", 12"	Hyd SR	3	2009
West Dikiris	Melrose	Egypt	4"	Pneu SR	1	2009

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Khor Mor LPG Recovery Plant	Crescent Petroleum/Dana Gas	UAE	6", 8"	Pneu SR	13	2009
Braishfield	Transco	UK	18" & 30"	Gas Over Oil/Slam Shut	2	2009
Kharyaga Phase 3	Total	Russia	8"	Pneu SR	1	2009
Four Gas Compressor Stations - IGAT IV	NIGC	Iran	3" & 4"	Gas Over Oil	2	2009
PFK Gas Metering Upgrading	Petronas Gas	Malaysia	-	Gas Over Oil	1	2009
Dunbar Topsides	Total	UK	8"	Pneu SR	1	2009
Resak Platform	Petronas Carigali	Malaysia	6"	Pneu DA	5	2009
Forties	Apache	UK	6"	Pneu SR	1	2009
Nelson	Shell	UK	1"	Pneu SR	2	2009
Salman Offshore	Pedco	Iran	3"	Pneu SR	1	2009
Forties	Apache	UK	6"	Pneu DA	1	2009
Scottish Power Station	-	UK	1" & 1.5"	Hyd SR	4	2009
Brent Alpha	Shell	UK	-	Pneu SR	1	2009
Underground Gas Storage Facility EPE3	Ruhrgas	Germany	16"	Pneu SR	5	2008
In Salah Gas	Sonatrach	Algeria	2" & 12"	Pneu SR	2	2008
ETCE 1464	Proman	Trinidad	8" Butterfly	Pneu SR	2	2008
FPU Petrobras 51	Petrobras	Brazil	10", 12", 16"	Pneu SR	9	2008
Nexus LP Compressor	Nexus	Norway	2"-6"	Pneu SR	6	2008
F23 Vlap & Cili Padi	Shell Sarawak Berhad	Malaysia	10" & 20"	Pneu SR	3	2008
Kirriemuir	Transco	UK	2", 6", 24" & 36"	Pneu SR	8	2008
North Alwyn B	Total	UK	6"	Pneu SR	1	2008
North Alwyn B	Total	UK	24"/1500	Hyd SR	2	2008
Dunbar Topsides	Total	UK	3", 4", 6", 8", 10"	Pneu SR	6	2008
Montrose Platform	Talisman	UK	2" & 6"	Pneu SR	3	2008

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Annabel	Venture	UK	3/4"	Hyd SR	1	2008
Sangachal Terminal	BP Caspian	Azerbaijan	10" Butterfly	Pneu SR	3	2008
Full Field Development	AIOC	Azerbaijan	6", 8" & 10"	Pneu SR	27	2008
Sangachal Terminal	BP Caspian	Azerbaijan	8" & 10"	Pneu SR	3	2008
Mongstad	Statoil	Norway	24" Butterfly	Pneu SR	3	2008
Mongstad	Statoil	Norway	4", 6", 10", 12"	Pneu SR	17	2008
Inamenas	BP/Statoil/Sontrach	Algeria	20"	Pneu SR	2	2008
Gas Metering Stations	Khalda	Egypt	2", 3", 4", 6"	Pneu SR	24	2008
Karachaganak	KPO	Kazakhstan	2", 3", 4", 9", 16"	Pneu DA & Pneu SR	17	2008
West Dikiris	Melrose	Egypt	2"	Pneu SR	1	2008
Peru LNG	Peru LNG	Peru	20", 24"	Pneu SR	5	2008
Kirriemuir	National Grid	UK	6"	Pneu SR	1	2008
Triton FPSO	Hess	UK	8"	Pneu SR	1	2008
Sakhalin Island	SEIC	Russia	2"	Pneu SR	1	2008
-	Total	-	4"	Pneu SR/Control Panel	1	2008
Humbly Grove	Star Energy	UK	2"	Pneu SR	1	2008
Jade	Conoco Phillips	UK	2"	Hyd SR	1	2008
Wytch Farm	BP	UK	4", 8", 10"	Pneu SR	3	2008
Sakhalin Island	SEIC	Russia	6"	Pneu SR	6	2008
North Alwyn	Total	UK	2"	Hyd SR	5	2008
Cormorant	Shell	UK	200 mm	Pneu SR	2	2008
Ninian North	CNR	UK	1"	Pneu SR	1	2008
Bleo Holm	Bluewater	UK	20"	Pneu SR	1	2008
Forties Charlie	Apache	UK	4"	Pneu SR	1	2008

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Ensign	SLP	UK	3" & 10"	Hyd SR	3	2008
Pembroke	Texaco	UK	16" Plug	Pneu SR	1	2008
Immingham	National Grid	UK	6", 10"	Pneu SR	2	2008
Wormington	National Grid	UK	2" & 4"	Pneu SR	2	2008
Pulai A Offshore	Petronas Carigali	Malaysia	4"	Pneu SR	1	2008
West Dikiris	Melrose	Egypt	2", 3", 4", 6" & 8"	Pneu SR	15	2008
Triton	Hess	UK	2"	Pneu SR	2	2008
Borouge 2	EU Tecnicas Reunidas	UAE	44" Butterfly	Pneu SR	1	2008
Upgrading Prai City Gate Station	Petronas Gas	Malaysia	10"	Gas Over Oil	1	2008
Thistle Alpha	Lundin	UK	2"	Pneu SR	1	2008
Sakhalin Island	SEIC	Russia	2"	Pneu SR	1	2008
West Dikiris	Melrose	Egypt	2" & 4"	Pneu SR	4	2008
Dulang B Offshore Platform	Petronas Carigali	Malaysia	8"	Pneu SR	1	2008
Leadon	Kerr McGee	UK	6"	Pneu SR	1	2008
Farningham	National Grid	UK	18"	Pneu DA	2	2008
Sean Papa	Shell	UK	-	Pneu SR	1	2008
Janice A	Maersk	UK	-	Pneu SR	6	2008
Nexus LP Compressor	Nexus	Norway	2"	Pneu SR	2	2007
Karachaganak	KPO	Kazakhstan	6"	Pneu SR Linear	4	2007
Sakhalin Island Offshore	SEIC	Russia	3", 4", 6", 10" & 12"	Pneu SR	19	2007
Milford Haven to Aberdulais Pipeline	National Grid	UK	48"	Gas Over Oil/Control Cabinet	2	2007
P53 Platform	Petrobras	Brazil	-	Pneu SR	20	2007
Sakhalin Island Phase II	SEIC	Russia	3"	Pneu SR	1	2007
Inamenas	BP/Statoil/Sonatrach	Algeria	10"	Hyd SR	8	2007

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Sakhalin Island	SEIC	Russia	2" & 8"	Pneu SR Linear	2	2007
Cowpen Bewley	Transco	UK	12"	Pneu DA/Control Cabinets	2	2007
Sakhalin Island Phase II	SEIC	Russia	2"	Pneu SR	2	2007
Bhit	Lasmo	Pakistan	2"	Pneu SR	2	2007
Affleck over Clyde	Talisman	UK	6"	Hyd SR	2	2007
Kinsale Head Gas Complex	Marathon	Ireland	10"	Hyd DA	1	2007
Bacton	Shell	UK	10"	Pneu SR	1	2007
Duart Gas Lift	Talisman	UK	3"	Pneu SR	1	2007
Rio Tuba Nickel HPP	-	-	10"	Hyd DA, HPU, Accumulator Bank	1	2007
Starling over Shearwater	Shell	UK	1 1/2" & 3"	Pneu SR	2	2007
Sakhalin Island	SEIC	Russia	12"	Pneu SR	1	2007
AKPO	Total	Nigeria	-	Pneu Linear	4	2007
Isle of Grain	National Grid	UK	1.5" & 2"	Pneu SR	5	2007
Forties	Apache	UK	6"	Pneu SR	1	2007
Teeside	Conoco Phillips	UK	4", 6", 8", 10" & 12"	Pneu SR	13	2007
West Dikiris Field Dev.	Melrose	Egypt	2", 4", 6", 8" & 10"	Pneu SR	29	2007
Moho Bilondo	Total E&P	Congo	18"	Pneu SR	3	2007
OGD 3	Gasco (ADNOC)	UAE	48"	Gas Over Oil/Local Remote	1	2007
Centrica Storage	Centrica	UK	2"	Pneu SR	1	2007
North Alwyn B	Total	UK	6"	Pneu SR	2	2007
Karsto	Gassco	Norway	12" Butterfly	Pneu SR	8	2007
Janice	Kerr McGee	UK	-	Pneu SR	3	2007
Choakford AGI	National Grid	UK	16"	Direct Gas/Control Cabinets	2	2007
Port Said Optimisation	UGDC	Egypt	2"	Pneu SR	4	2007

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Bravo/Charlie Booster Pump Discharge	Shell	UK	4", 6" & 8"	Pneu SR	6	2007
Ketch	Tullow	UK	1/2"	Hyd SR	2	2007
Heather Alpha	DNO	UK	2", 10"	Pneu SR	2	2007
Fredericia Refinery	Shell	Denmark	500 mm Butterfly	Pneu SR	1	2007
Killingholme	Centrica	UK	2"	Pneu SR	1	2007
D211 Antan FPSO Topsides	Adoon PTE	UAE	2"/150-10"/1500	Pneu SR	46	2006
PS1 Platform	Occidental	Qatar	6"	Pneu SR	2	2006
AGT Pipeline	BP	Azerbaijan	2"	Actuators/Control Cabinets	3	2006
Brent Delta	Shell	UK	-	Pneu SR	1	2006
Pazanan Gas Conditioning	NIOC	Iran	6"/300 & 6"/900	Hyd SR/Control Cabinets	3	2006
Southall	Transco	UK	6"	Pneu DA	2	2006
Captain	Texaco	UK	8"/2500 Ball	Pneu SR	1	2006
Toucan	Shell	Gabon	1" & 3"	Pneu SR	4	2006
Wragby AGI	Transco	UK	18"/600	Hyd DA/Control Cabinets	1	2006
Alba North Platform	Chevron	UK	2" & 4"	Pneu SR	4	2006
Maleo Offshore	Santos	Indonesia	2"-12"	Pneu SR	30	2006
Teeside Marine Vapour Recovery	Conoco Phillips	UK	3", 8", 10", 14" & 20"	Pneu DA/SR	26	2006
Ninian Southern Platform	CNR	UK	12"/150 Butterfly	Pneu SR	1	2006
Antan Topsides	-	Nigeria	3" & 4"	Pneu SR	2	2006
Ravenspurn	BP Exploration	UK	-	Pneu SR	1	2006
Jade	Phillips	UK	1.5" & 2"	Hyd SR	5	2006
Clyde	Talisman	UK	1"	Pneu SR	1	2006
Alwyn Platform	Total	UK	-	Pneu SR	1	2006
Brent Charlie	Shell	UK	4" & 2"	Pneu SR	2	2006

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Southall	Transco	UK	30"	Hyd DA	2	2006
Toucan	Shell	Gabon	6"/600	Pneu SR	1	2006
Brent Charlie	Shell	UK	4"	Pneu SR	2	2006
Captain - BLP Gas Letdown Station	Texaco	UK	2" & 4"/1500	Pneu SR	4	2006
Brent Charlie	Shell	UK	4" & 3"	Pneu SR	2	2006
Brent-Charlie	Shell	UK	4"	Pneu SR	1	2006
Sakhalin Island	SEIC	Russia	24"	Pneu SR	1	2006
Brent Charlie Penguin	Shell	UK	4"	Pneu SR	1	2006
Milford Haven to Aberdulais Pipeline	National Grid	UK	18", 30", 36" & 48"	Gas Over Oil	8	2006
Schooner	Shell	UK	1/2"	Hyd SR	1	2006
Bleo Holm	Talisman	UK	8", 10", 20" Butterfly	Subsea Hyd DA	5	2006
Sakhalin Island II	SEIC	Russia	8"	Pneu DA	2	2006
CJSC Rospan - Onshore ESD Valves	Rospan	Russia	3", 6", 12" & 16"	Pneu SR	22	2006
Sakhalin Island II	SEIC	Russia	2"	Pneu SR	4	2006
Brecon to Tirley	National Grid	UK	18" & 30"	Gas Over Oil/Slam Shut	6	2006
Kodiana	BTC	Georgia	30"	Hyd DA/Control Cabinets	4	2006
Kinsale Head Gas Complex	Marathon	UK	10" & 12"	Pneu SR/Hyd DA	2	2006
Apache	Apache	Mexico	6", 8", 10" & 12"	Pneu SR	6	2006
Bonga	Shell	Nigeria	1" & 3"	Pneu DA	2	2006
Alba	Chevron	UK	2"	Pneu SR	1	2006
Easington	Centrica	UK	3"	Pneu SR	2	2006
Cavendish Field	Aquila	UK	1"	Pneu SR	1	2006
Tartan Simplification	Talisman	UK	4" & 6"	Pneu SR	2	2006
Tartan Process Upgrade	Talisman	UK	3" & 12"	Pneu SR	2	2006

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AKPO	Total	Nigeria	-	Pneu DA Linear	2	2006
Ketch	Tullow	UK	1/2"	Hyd SR	1	2006
Falcon	Dubai Aluminium	UAE	4"	Pneu SR	2	2006
Clyde	Talisman	UK	1.5"	Pneu SR	1	2006
Chad-Cameroon Development	Chevron	Chad	3"	Pneu SR	12	2006
Affleck over Clyde	Talisman	UK	6"	Hyd SR	1	2006
Affleck over Clyde	Talisman	UK	2" & 6"	Hyd SR	5	2006
Agrolinz	Agrolinz	Austria	-	Pneu SR	1	2005
Inamenas	BP/Statoil/Sonatrach	Algeria	10" & 12"	Hyd SR/Self Contained Power	10	2005
Toucan	Shell	Gabon	10"/150 & 4"/150 Gate	Linear SR	2	2005
Horne & Wren over Thames	Exxon Mobil	UK	1"/2500	Pneu SR	1	2005
Sakhalin Island Phase 2 - ESD Valves	SEIC	Russia	1" & 2"	Pneu SR	13	2005
Humbly Grove Gas Storage	Star Energy	UK	2"-20"	Pneu SR	75	2005
Wooler	Transco	UK	2" & 4"	Pneu SR	11	2005
Sakhalin Island Phase II	SEIC	Russia	2"-10"	Pneu DA Linear	14	2005
Jordanian Gas Pipeline	ENPPI	Jordan	16" & 20"	Pneu SR	4	2005
White Rose	-	Canada	2"	Pneu SR	2	2005
Transco - Poole	Transco	UK	24"	Linear	1	2005
Karachaganak	KPO	Kazakhstan	6"/2500	Pneu Linear SR	5	2005
QPD Japan	Qatar Petroleum	Qatar	1"-10"	Pneu SR	38	2005
Ravenspurn	BP	UK	1.5"	Pneu SR	1	2005
Clyde	Talisman	UK	6"	Pneu SR	1	2005
Karachaganak	KPO	Kazakhstan	6" & 10"	Pneu SR	7	2005
Centrica	Centrica	UK	8"	Pneu SR	1	2005

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Forties	Apache	UK	1"	Hyd SR	4	2005
CHP Conversion	Phillips	UK	2"	Pneu SR	1	2005
Sakhalin Island Phase II	SEIC	Russia	1.5", 2" & 8"	Pneu SR/DA	3	2005
Karachaganak	KPO	Kazakhstan	1"	Pneu SR	1	2005
ECAPS	Hydrocarbons Resources	UK	3/4"	Hyd SR	1	2005
Statpipe Modifications to Karsto	Statoil	Norway	1" & 2"	Pneu SR	5	2005
Hyde Platform	BP	UK	1"	Hyd SR	1	2005
Andrew Development	BP	UK	10" & 12" Gate	Pneu Linear SR	2	2005
Forties Charlie Upgrade	Apache	UK	1", 2", 3", 4" & 6"	Pneu SR	11	2005
Toucan	Shell	Gabon	8"	Pneu SR	1	2005
Beryl Alpha	Exxon Mobil	UK	36"	Pneu/Hyd DA	1	2005
Amethyst	BP	UK	1"	Hyd SR	22	2005
Salman Offshore Facilities EPC-2	-	Iran	3/4" & 3"	Pneu SR	2	2005
Claymore Alpha	Talisman	UK	2"	Pneu SR	1	2005
Atlantic & Cromarty Extension	Exxon Mobil	UK	2" & 4"	Pneu SR/DA	3	2005
Sole Pit Clipper	Shell	UK	1.5"	Pneu SR	1	2005
Jade	Phillips	UK	1.5" & 2"	Hyd SR	5	2005
Schiehallion	BP	UK	2"/150	Pneu SR	4	2005
Sakhalin Island Phase II	SEIC	Russia	2" & 3"/150 & 3" & 4"/1500 Ball	Pneu SR/DA	28	2005
De-Ruyter Development Area	Petrocanada	Dutch Sector North Sea	0.75"-16"	Pneu/Hyd SR	81	2005
ODIDI Gas Link Pipeline	Shell	Nigeria	2", 3", 4" & 8"/1500 Ball	Pneu SR	10	2005
Leman Alpha	Shell	UK	3"/150	Hyd SR	1	2005
Sakhalin Island	SEIC	Russia	6"/150 Butterfly	Pneu SR	17	2005
Leman Alpha	Shell	UK	3"/600	Pneu SR	1	2005

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Salman Offshore	Pedco	Iran	3/4"/150	Pneu SR	1	2005
Atlantic & Cromarty	Exxon Mobil	UK	1.5"/1500	Pneu SR	1	2005
Sakhalin Island Offshore	SEIC	Russia	2"/600	Pneu SR	1	2005
Medway Powerstation	SSE	UK	2"/600 & 10"/600	Pneu SR	4	2005
Sakhalin Island - Parking Loop	SEIC	Russia	8"/300	Pneu SR	7	2005
Apache	Apache	China	4"/300	Pneu DA	1	2005
ECAPS	Centrica	UK	3"/900	Hyd SR	1	2005
Bacton Gas Renewal	BP	UK	2", 4", 20" & 36"	Pneu/Hyd SR	21	2005
Forties Charlie	Apache	UK	1"-4"/600	Pneu SR	4	2005
Karsto Refinery - Statpipe Mods	Statoil	Norway	1"/300	Pneu SR	2	2005
Balmoral Development	Talisman	UK	3"/300	Pneu SR	1	2005
Sakhalin Island	SEIC	Russia	6"/150	Pneu SR	2	2005
Sakhalin Island Phase II - Offshore On/Off & ESD	SEIC	Russia	0.5"-24" Ball	Pneu/Hyd SR	262	2004
North Port Said Concession	Petrobel	Egypt	1"-3" Ball	Hyd SR	4	2004
Sakhalin Island Phase II - Offshore On/Off & ESD	SEIC	Russia	2" & 5" Butterfly	Pneu SR	138	2004
NIOC Central	NIOC	Iran	8"	Hyd SR	6	2004
North Port Said Concession PFD-54	Petrobel	Egypt	14" & 16"	Pneu DA	6	2004
Damietta	SEGAS	Egypt	20", 24", 30", 36"	Pneu SR	8	2004
Angostura	BHP Billiton	Trinidad	4", 16", 18", 20", 24", 30", 36"	Pneu SR/DA	15	2004
Bulgaria Gas Pipeline	Bulgargas	Bulgaria	2" & 8"	Hyd DA	6	2004
AGT	BP	Azerbaijan	12"/600	Direct Gas	3	2004
Karachaganak	KPO	Kazakhstan	20"	Hyd DA Linear c/w HPU	1	2004
SUTL Co-Generation Plant	-	UK	6"	Pneu SR	1	2004
Rough Compressor By-pass Valve - Centrica Easington	Centrica	UK	30"/600 Ball	Hyd SR	1	2004

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Pierce Development	Bluewater	UK	1"/300 & 1.5"/300 Ball	Pneu SR	5	2004
Rhum	BP	UK	1/2"-6" Class 150, 300 & 600	Pneu SR	7	2004
Angostura	BHP Billiton	Trinidad	2"-12"	Pneu SR/DA	12	2004
Sakhalin Island - Lunskeye Platform	SEIC	Russia	3", 6", 10" Butterfly	Pneu SR	10	2004
Sakhalin Island - Piltun Platform Offshore	SEIC	Russia	3", 4", 6" & 20" Butterfly	Pneu/Hyd SR	13	2004
Forties Echo Flowlines	Apache	UK	4" Class 1500	Hyd SR	36	2004
Alba	Chevron	UK	4" Class 300	Pneu SR	1	2004
Bonny	Shell	Nigeria	14" & 16" Class 600	Pneu DA	10	2004
Marun	NIOC/SPEC	Iran	8"-36" Class 300 & 600	Gas Over Oil	14	2004
Tengizchevroil	TCO	Kazakhstan	24" & 30" Class 600	Gas Over Oil/Control	2	2004
Rhum	BP	UK	1" Class 150	Pneu SR	2	2004
Jade	Conoco Phillips	UK	2" & 1.5" API 11 K	Hyd SR	5	2004
Lusge Gorm	Bluewater	UK	6" Class 1500	Pneu SR	1	2004
Piper Bravo	Talisman	UK	4" Class 1500	Pneu SR	1	2004
Piper Bravo	Talisman	UK	6"/1500	Pneu SR	1	2004
Buzzard	EnCana	UK	3" & 4" Class 600, 4" Class 900	Pneu SR	4	2004
Forties Delta	Apache	UK	2", 3" & 4" Class 600	Pneu SR	3	2004
AGT Pipeline	AGT	Azerbaijan	2", 4", 12"	Pneu SR/DA	5	2004
Ravenspurn North	BP	UK	1", 2"	Pneu SR	3	2004
Forties Power & Gas Ringmain	Apache	UK	2"-6"	Pneu SR	21	2004
North Alwyn B Platform	Total	UK	2"/600	Pneu SR	1	2004
Viking B Platform	Conoco Phillips	UK	2"/1500	Pneu SR	5	2004
Andrew Development	BP	UK	3", 10", 12" Gate/6" Ball	Linear/Pneu SR	5	2004
Sakhalin Island II Offshore	SEIC	Russia	1/2"	Pneu SR	1	2004

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Sakhalin Island Offshore	SEIC	Russia	2" 1500	Linear	2	2004
Viking B Platform	Conoco Phillips	UK	2"	Pneu SR	1	2004
Toucan	Shell	Gabon	2"-8"	Pneu SR	11	2004
BPA Thames	BPA Pipeline	UK	12" Class 600	Hyd DA	4	2004
Annabel Platform	BP	UK	10" x 10" 2500	Hyd SR	4	2004
Toucan	Shell	Gabon	1"	Pneu SR	3	2004
Atlantic & Cromarty	Exxon Mobil	UK	2"-16" HIPPS	Linear/Rotary Pneu SR/DA	31	2004
Bonny HAG West Gas Upgrade	Shell	Nigeria	2"/150	Pneu SR	1	2004
47/3B Bravo Platform	Centrica	UK	2"/1500	Pneu SR	4	2004
Rough Field Development	Centrica	UK	6"/300	Pneu SR	1	2004
Mobil Arthur over Thames	Exxon Mobil	UK	3"/900, 12"/900	Pneu SR	3	2004
Tartan	Talisman	UK	6"/150	Pneu SR	2	2004
Claymore Alpha	Talisman	UK	2"/300	Pneu SR	1	2004
NIGC	NIGC	Iran	30"/600	Gas Over Oil	10	2004
Atlantic & Cromarty	Exxon Mobil	UK	2"/600, 14"/900	Pneu DA	6	2004
Mobil Arthur over Thames	Exxon Mobil	UK	1"/2500, 2"/2500	Pneu SR	2	2004
VPC Venture Annabel (Audrey B Platform)	BP	UK	3/4"/2500 Ball	Hyd SR	3	2004
Inamenas	BP/Statoil/Sonatrach	Algeria	12"/600	Pneu SR	1	2004
Leman Alpha	Shell	UK	2" 600	Pneu SR	1	2004
Toucan	Shell	Gabon	6"/900	Pneu SR	2	2004
Forties Charlie	Apache	UK	2" 1500	Pneu SR	1	2004
Dragon LNG Import Terminal	Dragon LNG	UK	1.5"-30" Class 900 Ball	Pneu SR	54	2003
Karachaganak	KIVO	Kazakhstan	3", 4", 6", 8"	Pneu Linear	15	2003
Damietta	Egypt LNG	Egypt	20", 24", 56" Butterfly	Pneu SR	17	2003

Reference List for Actuated Control Systems

<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Valve Size</u>	<u>Actuator Type</u>	<u>Qty</u>	<u>Supplied</u>
AH001	Amerada Hess	UK	16"	Pneu SR	6	2003
North Alwyn LLP Production	Total Elf Fina	UK	4", 14" Ball	Pneu SR	2	2003
Angostura	BHP Billiton	Trinidad	8"-10"	Hyd SR	3	2003
NLNG Phase 3 (Obiafu-Obrcon/Irri)	NAOC	Nigeria	2"-16"	Pneu SR	27	2003
Angostura	BHP Billiton	Trinidad	2"-18" Ball	Pneu SR	101	2003
Kwale-Okpai Gas Plant	NAOC	Nigeria	4"/150 Ball	Pneu SR	1	2003
North Port Said Concession	Petrobel	Egypt	1"-10" Ball	Hyd SR/DA	13	2003
North Port Said Concession	Petrobel	Egypt	10"-26" Ball	Hyd DA	7	2003
Karachaganak	KPO	Kazakhstan	6"	Pneu Linear	2	2003
Angostura	BHP Billiton	Trinidad	8" & 10" Ball	Hyd SR	3	2003
AH001	Amerada Hess	UK	-	Hyd DA	1	2003
AH001	Amerada Hess	UK	-	Pneu SR	1	2003
Pierce Water Injection	Bluewater	UK	4" & 6"/150 Butterfly & 1"	Pneu SR	21	2003
West Sole Alpha New Compressor Package	BP	UK	2"	Pneu SR	3	2003
CNR Ninian South	CNR	UK	10"/600 Ball Valve	Pneu SR	10	2003
Loggs	Phillips	UK	2" x 1500 Ball Valve	Pneu SR	3	2003
Leman	Shell	UK	2"	Pneu SR	1	2003