

Reference List for Electro-Hydraulic Positional Control Systems

Ring Main Hydraulic Supply

<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Equipment Supplied</u>	<u>Supplied</u>
Al Dabbiya Thamama Zone B Phase 1	ADNOC Onshore	UAE	Hyd Linear c/w Electro-Hydraulic Controls	2020
Frame Agreement	Occidental		Positional Control (Eexd)	2020
Yibal Khuff	PDO	Oman	Electro-Hydraulic Control Systems	2020
Haliba Field Development	ADNOC (Al Dhafra)	UAE	Hyd DA Linear Actuators c/w Electro-Hydraulic Controls	2019
Frame Agreement	Occidental	UAE	Double Acting Positional Control - EExd & IS	2019
Halfdan	Maersk	Denmark	Hyd Linear DA	2019
Frame Agreement	Occidental	UAE	Double Acting Positional Control - EExd	2019
Yibal Khuff	PDO	Oman	Hyd Linear c/w Electro-Hydraulic Controls	2019
South HGA-Hassi Messaoud	Sonatrach	Algeria	Hyd SR Linear c/w Electro-Hydraulic Controls	2019
Frame Agreement	Occidental	Qatar	Double Acting Positional Control - EExd	2018
Frame Agreement	Occidental	Qatar	Double Acting Positional Control - Intrinsically Safe	2018
Frame Agreement	Occidental	Qatar	Double Acting Positional Control - EExd	2018
Frame Agreement	Occidental	Qatar	Double Acting Positional Control - EExd	2018
-	PDO	Oman	Hyd SR Linear Actuator c/w Electro-Hydraulic Controls	2018
Bokor Phase 3	Petronas	Malaysia	Hyd Linear Actuator c/w Electro-Hydraulic Control System	2018
Anyala & Madu	NNPC	Nigeria	Hyd DA Linear Actuator c/w Positional Control Ringmain	2018
Frame Agreement	Occidental	Qatar	Positional Control - Intrinsically Safe	2018
Cygnus	GDF Suez	UK	Hyd Linear Actuator c/w Electro-Hydraulic Control System	2018
Harmal RPG Pilot	PDO	Oman	Hyd SR Linear Actuators c/w Electro-Hydraulic Controls	2018

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Frame Agreement	Occidental	Qatar	Double Acting Positional Control - Intrinsically Safe	2018
Angsi Well Conversion	Petronas	Malaysia	Hyd Linear SR c/w Electro-Hydraulic Control Systems	2017
Frame Agreement	Occidental	Qatar	Double Acting Positional Control	2017
Al Dabb'iya	ADCO (ADNOC)	UAE	Hyd Linear c/w Electro-Hydraulic Control Systems	2017
Yibal Khuff	PDO	Oman	Hyd Linear Actuators c/w Electro Hydraulic Control Systems	2017
West Nile Delta	BP	Egypt	Electro-Hydraulic Control Systems	2017
Frame Agreement	Occidental	Qatar	Double Acting Positional Control	2017
Frame Agreement	Occidental	Qatar	Double Acting Positional Control	2017
Alvheim	Marathon	Norway	Stepping Actuator c/w Electro-Hydraulic Control System	2017
-	PVD Tech	Vietnam	Hyd Linear c/w Electro Hydraulic Control Systems	2017
Angsi Well Conversion	Petronas	Malaysia	Hyd Linear c/w Electro Hydraulic Control System	2017
Moho Nord TLP	Total	Congo	Hyd Linear Actuators c/w Electro-Hydraulic Control Systems	2017
Angore	Exxon Mobil	Papua New Guinea	Hyd Linear Actuators c/w Electro-Hydraulic Control Systems	2017
Upper Zakum	ZADCO (ADNOC)	UAE	Hyd Linear DA Actuator c/w Electro-Hydraulic Control System & Foundation Fieldbus	2017
NEB	ADCO (ADNOC)	UAE	Linear Hyd Actuators c/w Ringmain Positional Control Systems	2016
Upper Zakum	ZADCO (ADNOC)	UAE	Positional Control Systems c/w Foundation Fieldbus	2016
Hail Field Development	ADOC	UAE	Spring to Close c/w Electro-Hydraulic Control Systems	2016
Mender Field	ADCO (ADNOC)	UAE	Spring to Close Actuator c/w Electro Hydraulic Control Systems	2016
Dhahaban South Well	PDO	Oman	Hyd SR Linear Spring to Close Actuator c/w Electro Hydraulic Control System	2016
-	KNOC	Kuwait	Hyd Linear DA & Spares	2016
Veco Bida Al Qemzan	ADCO (ADNOC)	UAE	Hydraulic Linear Actuators c/w Electro-Hydraulic Control System	2016
PNG LNG	Esso Highlands	Papua New Guinea	Hydraulic Linear Actuator c/w Electro-Hydraulic Control System	2016
Frame Agreement	Occidental	Qatar	IS & EExd Positional Control Systems	2016

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Sai Pipeline	-	China	Hydraulic Linear Actuators c/w Electro-Hydraulic Control Systems	2016
Frame Agreement	Occidental	Qatar	Double Acting Positional Control	2016
South Pars	Pars Oil & Gas	Iran	Spring to Close c/w Electro Hydraulic Control System	2016
McMoran	McMoran	USA	Positional with Electro-Hydraulic	2015
McMoran	McMoran	USA	Positional Control Systems	2015
Upper Zakum	ZADCO (ADNOC)	UAE	Hyd Linear DA c/w Electro-Hydraulic Controls Systems with Foundation Fieldbus	2015
McMoran	McMoran	USA	Hyd Linear DA c/w Electro-Hydraulic Control Systems/TVC Positioners	2015
Sabah	Shell	Malaysia	Hyd Linear SR c/w Electro-Hydraulic Control Systems	2015
Moho Nord	Total	Congo	Positional Control Systems	2015
IDCX01 Hydraulic Gaslift	Shell	Brunei	Electro Hydraulic Control Systems	2015
-	Total	Congo	Linear Hyd Actuators with Ringmain System and Sunshade	2015
OSII Phase II	NPCC	-	Electro-Hydraulic	2015
Rumaitha	ADCO (ADNOC)	UAE	Hyd Linear SR/DA c/w Electro-Hydraulic Control Systems	2015
Hail Field Development	ADOC	UAE	Spring to Close c/w Electro-Hydraulic Control Systems	2015
Angsi-D	Petronas Carigali	Malaysia	Spring to Close c/w Electro-Hydraulic Control System	2015
Frame Agreement	Occidental	Qatar	IS Positional Control Systems	2015
Upper Zakum	ZADCO (ADNOC)	UAE	Electro-Hydraulic c/w Fisco Foundation Fieldbus	2015
-	KNOC	Kuwait	Linear Hyd Actuators c/w Pulsing Hydraulic Control System	2015
Rumaitha	ADCO (ADNOC)	UAE	Spring to Close c/w Electro-Hydraulic Control System	2015
Cygnus	GDF Suez	UK	Positional Control Systems	2014
Frame Agreement	Occidental	Qatar	Positional Control Systems 'IS'	2014
Cygnus	GDF Suez	UK	Positional Actuator with Electro-Hydraulic Controls	2014
Halfdan Charlie HCA	Maersk	Denmark	Spring to Close Actuator c/w Electro-Hydraulic Controls	2014

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Frame Agreement	Occidental	Qatar	Positional Control (IS & EXD)	2013
-	Maersk	Norway	Positional Control	2013
-	Shell Sarawak	Malaysia	Positional Control Spring to Fail	2013
In Amenas	Sonatrach/BP/Statoil	Algeria	Positional Control Double Acting	2013
Thang Long	PTSC/Lamson	Vietnam	Positional Control Double Acting	2013
Sisi Nubi	Total	Indonesia	Positional	2013
Sisi Nubi	Total	Indonesia	Positional Control Fail to Close	2013
Salman	NIOC	Iran	Electro-Hydraulic Control Cabinet	2013
Ibewa	Total	Nigeria	Spring to Close Positional	2013
Shah Gas Development	ADNOC	UAE	Positional	2013
Salman	NIOC	Iran	Electro-Hydraulic Control Cabinet	2013
Frame Agreement	Occidental	Qatar	Positional IS & EXD	2013
-	OOCEP	Oman	Positional Control	2013
Frame Agreement	Occidental	Qatar	Positional Control System with Feedback Device	2013
Frame Agreement	Occidental	Qatar	Positional Exd	2013
Frame Agreement	Occidental	Qatar	Positional Exd	2013
Pyrenees	SOFEC	Australia	Positional Control System	2013
Alvheim	Marathon Oil	Norway	Positional	2013
Frame Agreement	Occidental	Qatar	Positional IS & EXD	2013
PNG LNG	Esso Highlands	Papua New Guinea	Positional Control	2012
-	Total	Congo	Spring to Close Positional	2012
Frame Agreement	Occidental	Qatar	Double Acting Positional Control	2012
Thamama B Gas Lift	ADCO (ADNOC)	UAE	Spring to Close Positional	2012

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Angsi C15 & C16 Infill Drilling	Petronas	Malaysia	Spring to Close Positional	2012
Frame Agreement	Occidental	Qatar	Positional Control Double Acting	2012
Frame Agreement	Occidental	Qatar	Double Acting Positional Control	2012
Bab Thamama B Gas Lift	ADCO (ADNOC)	UAE	Positional Control	2012
OML-130	Total E & P	Nigeria	Hyd Linear	2012
Veco Bida Al Qemzan	ADCO (ADNOC)	UAE	Spring to Close with TVC Positioner	2012
PNG LNG	Esso Highlands	Papua New Guinea	Stayput c/w Hart	2012
Viramgam Kandla Branch Pipeline	IOCL	India	DA	2012
PRPL Augmentation	IOCL	India	Self Contained Positional Control	2012
Frame Agreement	Occidental	Qatar	Positional Control - Intrinsically Safe	2012
PNG LNG	Esso Highlands	Papua New Guinea	Positional Control Double Acting	2012
OSX-3	SOFEC	Brazil	Double Acting Pulsing	2012
Moho Bilondo	Total E&P	Congo	Spring to Close Positional	2012
Leman Well H4/H5	Perenco	UK	Positional Control Double Acting	2012
-	Maersk		Positional Control Double Acting	2012
Ibewa	Total	Congo	Positional Control Spring to Fail	2012
Jerneh B	Exxon Mobil	Malaysia	Positional Control Spring to Fail	2012
Jerneh B	Exxon Mobil	Malaysia	Positional Control Spring to Fail	2012
Skarv	BP	Norway	Double Acting Positional	2012
Frame Agreement	Occidental	Qatar	Double Acting Positional Control	2012
Frame Agreement	Occidental	Qatar	Double Acting Positional Control	2012
Jack & St Malo	Chevron	Mexico	Quarter Turn Positional	2012
Frame Agreement	Occidental	Qatar	Positional Control Double Acting	2012

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Frame Agreement	Occidental	Qatar	Pulsing I.S.	2011
Sisi Nubi	Total	Indonesia	Positional Control	2011
Frame Agreement	Occidental	Qatar	Linear Stepping Control	2011
Frame Agreement	Occidental	Qatar	Linear Stepping Control	2011
30K Choke	McMoran Expl Co	USA	Linear Positional c/w Fine Speed Control & Positioning	2011
-	Shell Sarawak	Malaysia	Positional Control with Hart	2011
-	Maersk		Pulsing Exd	2011
Frame Agreement	Occidental	Qatar	Pulsing I.S.	2011
-	McMoran	USA	Linear Stayput	2011
Ibewa	Total	Nigeria	Spring to Close	2011
Frame Agreement	Occidental	Qatar	Pulsing I.S.	2011
Frame Agreement	Occidental	Qatar	Pulsing I.S.	2011
30K Choke	McMoran	USA	30K Choke Control	2011
PNG LNG	Esso Highlands (Exxon Mobil)	Papua New Guinea	Positional with Hart	2011
Baraka Tie In	DanaGas	Egypt	Electro Hydraulic Control Systems	2011
-	ROC Oil	Australia	Loop Powered Control	2011
30K Choke	McMoran	USA	Linear Stayput	2011
PNG LNG	Esso Highlands	Papua New Guinea	Positional with Hart	2011
Frame Agreement	Occidental	Qatar	Pulsing I.S.	2011
Umm Shaif	ADMA OPCO (ADNOC)	UAE	Positional Control Systems Infra Red	2010
NEB	ADCO (ADNOC)	UAE	Spring to Close Positional Control c/w ESD	2010
-	Maersk	Norway	Spring to Open Positional Control	2010
Kharyaga Phase 3	Total	Russia	Low Temperature Positional Control & Hart	2010

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Frame Agreement	Occidental	Qatar	Positional Control I.S.	2010
-	Maersk	Denmark	Positional Control with ESD	2010
Leman Well H4/H5	Perenco	UK	Linear Stepping Control	2010
-	Dubai Petroleum	UAE	Linear Positional Control	2010
-	PDO	Oman	Surge Relief Protection	2010
Moho Bilondo	Total E&P	Congo	Spring to Close Positional	2009
Volve	Statoil	Norway	DA Positional Control	2009
Frame Agreement	Occidental	Qatar	Positional Choke Control	2009
Kharyaga Phase 3	Total	Russia	Positional Control -40 Deg C	2009
South Pars	NIOC	Iran	Spring to Close Positional Control	2009
Kharyaga	Total E & P	Russia	Low Temperature Positional Control	2009
Skarv Development	BP	Norway	Double Acting Positional	2009
Skarv Development	BP	Norway	Stayput Positional Control	2009
Leman Well H4/H5	Perenco	UK	DA Positional Control	2009
Stybarrow - FMC	SOFEC	USA	Double Acting Positional Control	2008
Peciko 5	Total	Indonesia	Spring to Close Linear Actuators with Positional Control	2008
Peciko 6	Total	Indonesia	Spring to Close Positional Control	2008
Umm Shaif	ADMA OPCO (ADNOC)	UAE	Infra Red Positional Control Systems	2008
Zap	ROC Oil	China	Double Acting Positional Control	2008
Bongkot 3G	PTTEP	Thailand	Spring to Close Positional Control	2008
Angsi-D	Petronas Carigali	Malaysia	I.S. Positional Control	2008
Angsi D	Petronas Carigali	Malaysia	I.S. Positional Control	2008
Peciko 5	Total	Indonesia	Positional Control	2008

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Peciko 5	Total	Indonesia	Double Acting Positional Control	2008
Jerneh B	Exxon Mobil	Malaysia	Spring to Close Positional	2007
Jerneh B	Exxon Mobil	Malaysia	Spring to Close Positional	2007
Kharyaga Field Development	Total	Russia	Spring to Close Positional - Low Temperature -53 Deg C	2007
Bongkot Field Development Phase 3F	PTTEP	Thailand	Spring to Close Positional Control Systems	2007
Tapis	Exxon Mobil	Malaysia	Double Acting Positional Control Systems	2007
Maersk	Maersk	Denmark	Spring to Close Positional	2007
Maersk	Maersk	Denmark	Double Acting Positional Control	2007
Kharyaga	Total E & P	Russia	Spring to Close Positional - Low Temperature -53 Deg C	2007
Viking	Conoco Phillips	UK	Double Acting Positional	2006
Stybarrow-FMC	SOFEC	Australia	Double Acting Ring Main	2006
Sisi Nubi	Total	Indonesia	Double Acting Hart Communication	2006
Vincent	Maersk	Norway	Double Acting Stepping	2006
Viking Choke Control	Conoco Phillips	UK	Double Acting Positional	2006
Sisi Nubi	Total	Indonesia	Double Acting Ring Main	2006
South Pars 9 & 10	Pars	Iran	Spring Return EExd, Hart Communication	2005
Rashid	ENPPI	Egypt	Linear Actuators c/w 4-20 mA Feedback Devices	2005
NEB	ADCO (ADNOC)	UAE	Spring Return Eexd	2005
Volve	Maersk	Norway	Double Acting Stepping/Positional Eexme	2005
Alvheim	Marathon	Norway	Double Acting Stepping Eexme	2005
Lorien	Shell	USA	Double Acting Stepping CSA UL	2005
Salman	NIOC	Iran	I.S. Systems Double Acting	2004
Tarim Field	Petrochina	China	Double Acting Eexd	2004

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Western Desert	Khalda	Egypt	Positional Control	2001