



REFERENCE LIST
Subsea Chemical Injection Throttle Valve – CTV
Updated: 03/08/2009

CUSTOMER	PROJECT	TYPE	YEAR
Rotator deliveries			
StatoilHydro / Aker Solutions Subsea	Ormen Lange Compression	2 off CTV-MEG High Flow (retrievable & remote)	2010
Total / Cameron Leeds	Akpo	3 off ROV adjustable & ROV retrievable valves	2009
StatoilHydro / Vetco Gray Scandinavia	Tordis & Vigdis	2 off ROV operated for scale injection	2009
Total / Cameron GmbH, Celle	Usan	96 off Remote operated VisCom® valves	2009
StatoilHydro / FMC Kongsberg Subsea	Norne M	8 off Retrievable & remote operated valves	2009
Total / Aker Solutions Subsea	Dalia Phase III	4 off Retrievable & remote operated valves	2008
Marathon / Aker Solutions Subsea	Alvheim II	4 off Remote operated VisCom® valves	2008
Total / Cameron Leeds	Akpo	9 off ROV adjustable & ROV retrievable valves	2008
Marathon / Aker Kvaerner Subsea	MPC Alvheim	1 off Remote operated VisCom® valves	2008
StatoilHydro / FMC Kongsberg Subsea	Vega	4 off CTV-MEG High Flow (retrievable & remote)	2008
Woodside / FMC Kongsberg Subsea	Pluto	6 off CTV-MEG High Flow (retrievable & remote)	2008
Energi Mega Persada / Dril-Quip	Terang Sirasun	6 off ROV adjustable & ROV retrievable valves	2008
Woodside / FMC Kongsberg Subsea	Enfield Vincent	5 off Retrievable & remote operated valves	2007
Statoil / FMC Kongsberg Subsea	URD	4 off Retrievable & remote operated valves	2007/2008
Statoil / FMC Kongsberg Subsea	Alve	2 off Retrievable & remote operated valves	2007
Marathon / Aker Kvaerner Subsea	Volund	2 off Remote operated VisCom® valves	2007
Norske Shell / Aker Kvaerner Subsea	Draugen D3	1 off Retrievable & remote operated valve	2007
Woodside / FMC Kongsberg Subsea	ASAP Oil	12 off Retrievable & remote operated valves	2007
Total / Aker Kvaerner Subsea	Dalia Phase II	12 off Retrievable & remote operated valves	2007
BP / Aker Kvaerner Subsea	Carp / Schiehallion	10 off Remote & pod (SCM) mounted valves	2007
Norsk Hydro / Aker Kvaerner Subsea	Troll 92-96	5 off ROV operated for scale inhibitor Dyno SI 465, Dyno SI 410, Dyno PI 7020	2006
Woodside / FMC Kongsberg Subsea	Vincent	8 off Remote operated valve for various inj. fluids	2006
Woodside / FMC Kongsberg Subsea	Chinguetti Phase II	12 off Remote operated valves for various inj. fluid	2006
Norske Shell / Aker Kvaerner Subsea	Rogn South	1 off Retrievable & remote operated valve	2006
Total / FMC Kongsberg Subsea	Moho Bilondo	21 off Remote operated valves for various inj. fluids	2006/2007
BP / Aker Kvaerner Subsea	West Infield / Schiehallion	18 off Remote & pod (SCM) mounted valves	2006
Statoil / FMC Kongsberg Subsea	Norne K	8 off Remote operated valves for Scale Injection	2005/2006
Total / Cameron Leeds	Akpo	60 off ROV adjustable & ROV retrievable valves	2006/ 2007
Norsk Hydro / Kvaerner Oilfield Products	Vilje	2 off Remote operated VisCom® valves	2005
Norsk Hydro / Kvaerner Oilfield Products	Fram Øst	10 off Remote operated VisCom® valves	2005
Norsk Hydro/ Vetco Gray	Troll	2 off ROV operated for scale injection	2005
Marathon / Kvaerner Oilfield Products	Alvheim	12 off Remote operated VisCom® valves	2005
Statoil / FMC Kongsberg Subsea	Norne	11 off Remote operated for scale injection Dyno SI 4471	2004/2005
Woodside / FMC Kongsberg Subsea	Chinguetti Phase I	21 off Remote operated for chemical injection	2004/2005
Norsk Hydro/ Kvaerner Oilfield Products	Troll 87-91	5 off ROV operated for scale inhibitor Dyno SI 465, Dyno SI410, Dyno PI7020	2004
BP / Kvaerner Oilfield Products	Loyal	2 off Remote operated for chemical injection.	2004
Total / Kvaerner Oilfield Products	Dalia Phase I	22 off Retrievable remote operated for corrosion/scale inhibitor Coridos 713	2003/2004/2005
Total / Kvaerner Oilfield Products	Dalia Phase I	3 off Retrievable remote operated for methanol injection	2003/2004
Norsk Hydro / Kvaerner Oilfield Products	Tiørp Phase III	4 off ROV operated for scale inhibitor, Dyno SI 465, Dyno SI410, Dyno PI7020	2003
BP & Shell / ABB OS, Nailsea	Foinaven Phase IV	3 off Remote operated for scale injection Dyno KL 3316	2003
BP / Kvaerner FSSL	Schiehallion	4 off Remote operated for chemical injection for	2002/2003



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BP / Kvaerner FSSL	Schiehallion	corrosion / scale, Dyno KI 3317 (30 cSt), and wax, Blacksmiths VM 1000 4 off Remote operated for chemical injection for corrosion / scale, Dyno KI 3317 (30 cSt), and wax, Blacksmiths VM 1000	2001/2002
Rotator/Mareco deliveries			
Norske Shell / Kvaerner Oilfield Products Ltd	Rogn South	2 off Retrievable remote operated for corrosion and scale inhibitor injection. Scale inhibitor Baker Petrolite SP-2262	2001
BP & Shell / ABB OS, Nailsea	East Foinaven	4 off Remote operated for scale injection Dyno KL 3316	2001
BP / Kvaerner FSSL	Schiehallion	2 off Remote operated for chemical injection for corrosion / scale, Dyno KI 3317 (30 cSt), and wax, Blacksmiths VM 1000	2001
Norsk Hydro / Kvaerner Oilfield Products	Tiørp Phase II	14 off ROV operated for scale inhibitor, Dyno SI 465, Dyno SI410, Dyno PI7020	2001/2002
Norske Shell / Kvaerner Oilfield Products Ltd	Garn West	3 off Retrievable remote operated for corrosion and scale inhibitor injection, Scale inhibitor Baker Petrolite SP-2262	2001
TFE / ABB OS, Nailsea	Nuggets	6 off Retrievable remote operated for corrosion and scale inhibitor injection, Nalco EC 1403 A 6 off Retrievable remote operated for methanol injection	2001
Norsk Hydro / Kvaerner Oilfield Products	Troll Olje	3 off ROV operated for scale inhibitor injection, Dyno SI 440	2000
TBA / ABB Vetco Gray	TBA	2 off ROV operated for scale inhibitor injection	2000
Norsk Hydro / Kvaerner Oilfield Products	Tune	2 off ROV operated for scale Dyno SI 4470 PI 7020	2000
BP / Kvaerner FSSL	Schiehallion III	2 off Remote operated for corrosion / scale, Dyno KI 3317 (30 cSt), and wax, Blacksmiths VM 1000	2000
BP & Shell / ABB OS, Nailsea	Foinaven Phase III	2 off Remote operated for scale Dyno KL 3316	2000
BP / Kvaerner FSSL	Schiehallion III	8 off Remote operated for corrosion / scale, Dyno KI 3317 (30 cSt), and wax, Blacksmiths VM 1000	1998/1999
Norsk Hydro / Kvaerner Oilfield Products	Troll Olje	40 off ROV operated for scale, Dyno SI 440	1998/1999
Norsk Hydro / Kvaerner Oilfield Products	Oseberg Sør	1 off Remote operated prototype 3 off Remote operated for scale, Dyno SI 440	1998/1999
BP / Kvaerner FSSL	Schiehallion III	6 off Remote operated for corrosion / scale, Dyno KI 3317 (30 cSt), and wax, Blacksmiths VM 1000	1998/1999
Agip / FMC	Djambala	4 off ROV operated for corrosion (2 cSt)	1998/1999
Woodside Energy / Kvaerner Oilfield Products	Laminaria & Corallina	9 off ROV operated, Surflo HW 3056WA (50 cSt)	1998/1999
Deepstar / NA	Qualification Test	4 off Remote operated for paraffin Magna D Wax PT – 2028C (35 cSt)	1997
Norsk Hydro / Kvaerner Oilfield Products	Visund Utsira	2 off ROV operated for scale Dyno SI 410 (13 cSt)	1997/1998
BP & Shell / ABB OS, Nailsea	Foinaven Phase II	4 off Remote operated for scale, Dyno KL 3316	1997/1998
BP / Kvaerner FSSL	Bruse II	9 off ROV operated for scale, Calnox ML 363	1997/1998
TBA / FMC Kongsberg Offshore	Frame Agreement	2 off Remote operated	1997
Norsk Hydro / Kvaerner Oilfield Products	Troll Olje	18 off ROV operated for scale inhibitor, SI 440	1997/1998
BP / Kvaerner FSSL	Schiehallion	24 off Remote operated for corrosion / scale, Dyno	1996/1997



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Agip / FMC	Thelma	KI 3317 (30 cSt), and wax, Blacksmiths VM 1000	
Norsk Hydro ABB OS, Nailsea	Troll Olje	5 off ROV operated for scale, Servo UCA 370	1996/1997
Saga / ABB OS, Nailsea	Vigdis	8 off ROV operated for scale, Dyno SI 440	1995/1996
BP & Shell / ABB OS, Nailsea	Foinaven	11 off ROV operated for scale, Dyno SI 462, SI 436	1995/1996
Norsk Hydro / ABB OS, Nailsea	Troll Olje	14 off Remote operated for scale, Dyno KL 3316	1995/1996
		18 off ROV operated for scale, Dyno SI 440	1993/1995



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