

Subsea Reference List

<u>Valve Size</u>	<u>Customer</u>	<u>Project</u>	<u>Description</u>
20"	MIR Valve	Chevron Mina Al Saud Terminal	Subsea Actuators
12"	Valentine Maritime	Gas Tankers Sea Berth	Quarter Turn Spring to Close Actuator c/w Subsea Electro-Hydraulic Control System
12"	Frenstar	-	Subsea Actuator
4"	MIR Valve SpA	Statoil Asgard Subsea Compression	Hyd DA Subsea Actuator
8"/10"/20"	PCE	Talisman Bleo Holm	Ballast System – HYS1-2-8 DA
16"	Score	BP Schiehallion	Subsea Actuators c/w Control System
10"	PBV	Shell Kingfisher	Subsea Actuators and Instrument Panels
18", 20"	VES	Esso Early Production System	Subsea Actuators c/w Controls
3", 8"	Pacson	Talisman Hannay SSIV	Subsea Actuators c/w Control Systems
4", 8"	Transmark	Shell Kestrel	Subsea Actuators c/w Controls
¾", 16"	Petrolvalves	Phillips Jade	Subsea Actuators c/w Controls
2"	Valflow	Mobil Mallory	Subsea Actuators c/w Controls
-	TK Valve	Chevron Alba	Subsea Actuators
12"	Valflow	Kerr McGee Janice	Subsea Actuator c/w Controls
20" Ball	-	Mobil North Sea	Offshore drilling platform ballast
4" Ball	-	Mobil North Sea	Storage crude submersible ballast
32" Ball	-	Mobil North Sea	Storage crude submersible ballast
8" Ball	-	Mobil North Sea	Transfer subsea crude
8", 10", 16"	Hopkinsons	BP ETAP	Subsea Actuators c/w Controls
-	TK Valve	Texaco Galley	Subsea Actuators
4" Ball	-	Mobil North Sea	Transfer subsea crude
4" Ball	Cameron	Elf	Jacket Flooding
8" Ball	TK Valve	Murchison Conoco	Platform jacket flooding
4" Ball	TK Valve	Tartan	Offshore jacket flooding

<u>Valve Size</u>	<u>Customer</u>	<u>Project</u>	<u>Description</u>
6", 8"	TK Valve	Conoco MacCulloch	Subsea Actuators c/w Controls
4" Ball	Brown & Root	Shell Fulmar	Offshore jacket flooding
4" Ball	Britoil	Clyde	Offshore jacket flooding
6" Ball	Brown & Root	Shell Fulmar	Offshore jacket flooding
3" Ball	Brown & Root	Shell Fulmar	Offshore jacket flooding
12" Ball	TK Valve	Shell Cormorant	Offshore jacket flooding
6" Ball	Argus	Total Alwyn	Offshore jacket flooding
8" Ball	TK Valve	Shell Cormorant	Offshore jacket flooding
4" Ball	TK Valve	Shell Cormorant	Offshore jacket flooding
6" Ball	TK Valve	Total Alwyn	Offshore jacket flooding
6" Ball	Cameron	Amoco NW Hutton	Offshore jacket flooding
4" Ball	BP	Miller	Offshore jacket flooding
24" Ball	Cameron	BP Magnus	Offshore jacket flooding
3" Ball	Cameron	BP Magnus	Offshore jacket flooding
24" Ball	Cameron	Claymore	Offshore jacket flooding
14" Ball	Cameron	Claymore	Offshore jacket flooding
30" Ball	Cameron	Claymore	Offshore jacket flooding
3" Ball	Cameron	Scapa	Offshore jacket flooding
4" Ball	AMEC	Phillips J Block	Offshore jacket flooding
6" Ball	Britannia	Britannia	Offshore jacket flooding
6" Ball	BP	ETAP	Offshore jacket flooding
6" Ball	British Gas	Armada	Offshore jacket flooding
4" Ball	Petrolvalves	Amerada Hess	Scott Project Riser ESDV
24" Ball	Petrolvalves	Amerada Hess Scott	Riser ESDV
10" Ball	Petrolvalves	Amerada Hess Scott	Riser ESDV
24" Ball	TK Valve	Phillips Judy Joanne	Subsea isolation valve
2" Ball	BP Exploration	ETAP	Subsea actuator type DTU 003 - jacket ballast system
16"/10"/8"	BP Exploration	ETAP	Actuator type DTUS 070/850, DTUS 060/800, DTUS 050/700 for operating production ball valves and water injection ball valves. Equipped with gear and locking system for interface.override by ROV carried torque tool

<u>Valve Size</u>	<u>Customer</u>	<u>Project</u>	<u>Description</u>
-	BP Exploration	Harding Field Gravity Base	Subsea actuators type DTUS 010 for gravity base tank remote operated ballast water valves. Equipped with built-in gear/locking system and receptacle for interface with ROV carried torque tool and also visual/tactile remote position indication system
4"	BP Exploration	Foinaven	Actuator type DTUS 005 Z2 for operating subsea pipe testing valve
14"/8"	Britannia	Britannia Infield Facilities	Subsea actuators type DTUS 090 Z2 for operating infield flowline SSIV's and DTUS 070 Z3 for operating SSIV. Equipped with visual/tactile and remote position indication system