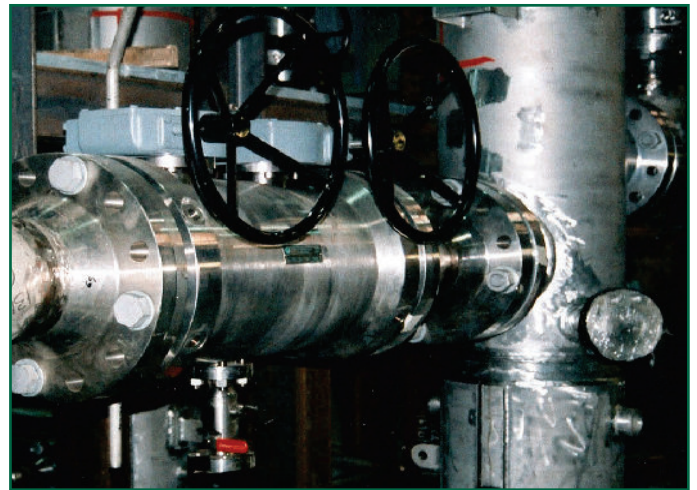
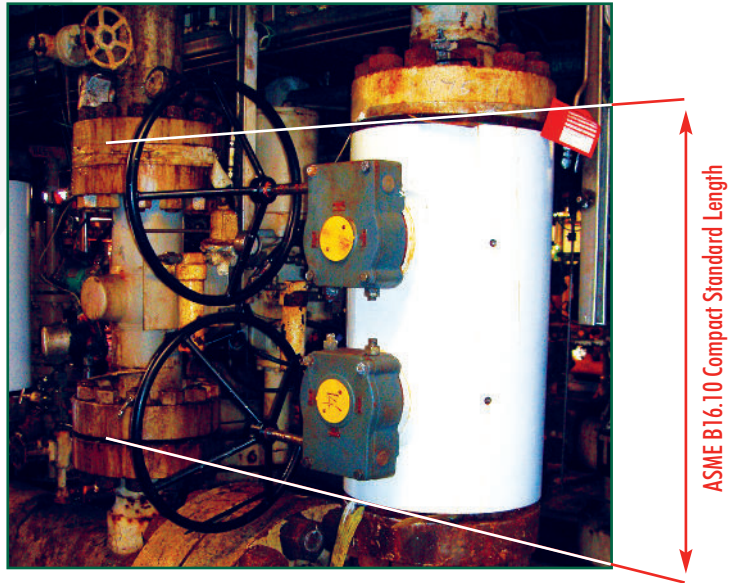


REPLACE ONE VALVE WITH TWO, WITH NO MODIFICATION TO PIPEWORK.

reliability
under
pressure

Standard ASME B16.10 Length full bore Twinsafe valves replace single Isolate valves in retrofit work and provides engineers the opportunity to move from single isolate to Double Block and Bleed without design change of pipework.



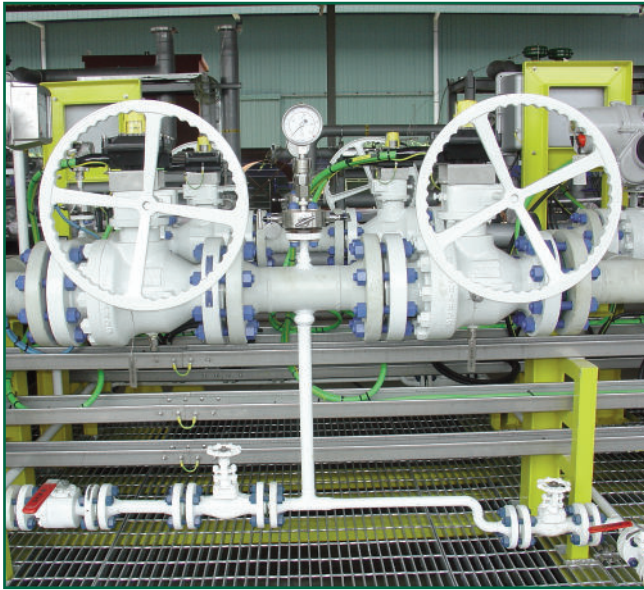
Skid package footprint reduced therefore skid cost reduced by keeping the valve envelope to standard ASME B16.10 length.



COST SAVING - WEIGHT SAVING

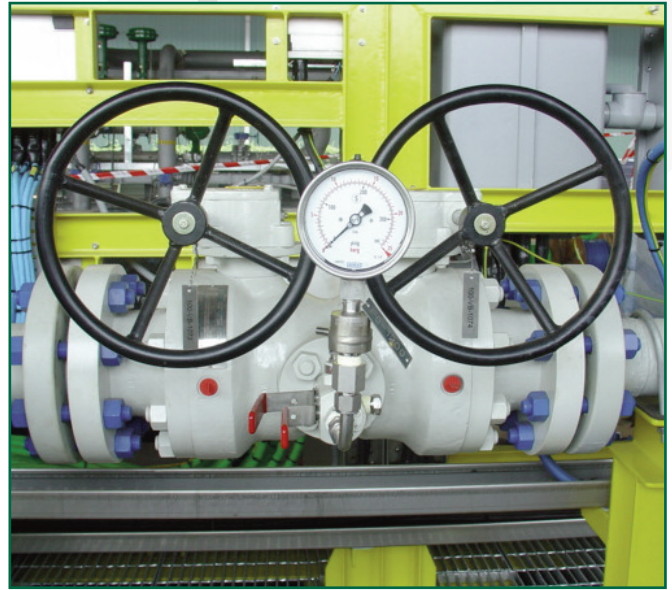
TWINSAFE vs TWO STANDARD ISOLATION BALL VALVE HOOK UP = A REDUCTION OF ALMOST HALF OF THE WEIGHT

TWO ISOLATION VALVES WITH SPOOL PIECE



$$= 217\text{kg} \times 2 = \underline{434\text{kg}}$$

COMPACT OLIVER TWINSAFE VALVE



$$= \underline{284\text{kg}}$$

Almost half the weight is taken out of a double block and bleed hookup when compared to two single isolates (more if spool piece is included) multiply this by multiple assemblies of Twinsafe on the top works of an offshore platform as shown, the weight savings and cost savings are dramatic, more so if valves are in exotic material.



Multiple Twinsafe installations equals huge savings.



HUGE HIDDEN COST SAVINGS OF ONE FACTORY TESTED UNIT vs TRADITIONAL INSTALLATION.



A Single Isolate 6" Full Bore 1500 LB Ball Valve to ASME B16.10 Length Versus
An Oliver Twinsafe 6" Full Bore 1500 LB Double Block and Bleed Valve to ASME B16.10 Length.

6" 300/600lb Example

6" 1500lb Example

THE PAST

Existing Hook Up - Two Isolation valves, plus Vent Valve and Associated Materials, Fabrication, Installation and Testing				
Materials				
Pipe (A333 Gr 6) Sch XXS	6"	6	£67.24	£403.44
Flange RFWN-600# Sch XXS	6"	2	£143.75	£287.50
Flange RFWN-600# Sch XXS	3/4"	1	£13.13	£13.13
O' Lets Sch 160	3/4"	1	£22.50	£22.50
Spiral Wound Gasket - 600#	6"	4	£11.83	£47.32
Spiral Wound Gasket - 600#	3/4"	1	£2.04	£2.04
Bolts per set 6" - 600#		4	£99.60	£398.40
Bolts per set 1" - 600#		1	£11.30	£11.30
Fabricators Handling Charge @ 10%				£118.56
Valves 300/600#	6"	2	£3,300.00	£6,600.00
Valves 300/600#	3/4"	1	£400.00	£400.00
				£8,304.19
Fabrication				
Butt Weld Sch XXS	6"	2	£294.32	£588.64
Butt Weld Sch XXS	3/4"	1	£61.23	£61.23
O'let	3/4"	1	£61.23	£61.23
Radiography	6"	2	£30.63	£61.26
Radiography	3/4"	1	£19.03	£19.03
MPI	6"	2	£3.19	£6.38
MPI	3/4"	2	£1.65	£3.30
Hydrotest		1	£100.00	£100.00
Paint		1	£100.00	£100.00
				£1,001.07
Installation				
Erect Valve 600#	6"	2	11.08	22.16
Erect Valve 600#	3/4"	1	3.57	3.57
Erect Valves Pipework Sch XXS	6"	1	6.51	6.51
Bolt up Flg'd Joint 600#	6"	2	5.33	10.66
Bolt up Flg'd Joint 600#	3/4"	1	1.87	1.87
Non Prod and Sup'v @ 70%				31.34
Total Man Hours				76.11x
Man Hour Rate				£33.00
				£2,511.63
TOTAL COST				£11,816.89

Existing Hook Up - Two Isolation valves, plus Vent Valve and Associated Materials, Fabrication, Installation and Testing				
Materials				
Pipe (A333 Gr 6) Sch XXS	6"	6	£67.24	£403.44
Flange RFWN-1500# Sch XXS	6"	2	£143.75	£287.50
Flange RFWN-1500# Sch XXS	3/4"	1	£13.13	£13.13
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Bolt up Flg'd Joint 1500#	6"	2	5.33	10.66
Bolt up Flg'd Joint 1500#	3/4"	1	1.87	1.87
Non Prod and Sup'v @ 70%				31.34
Total Man Hours				76.11x
Man Hour Rate				£33.00
				£2,511.63
TOTAL COST				£15,316.89

THE FUTURE

Proposed Oliver Twinsafe Valve				
Materials				
Valve 600# Twinsafe DBB	6"	1	£5,012.00	
Spiral Wound Gasket - 600#	6"	2	£11.83	£23.66
Bolts per set 6" - 600#		2	£99.60	£199.20
				£5,234.86
Fabrication				
Not Applicable				£0
Installation				
Erect Valve 600#	6"	1	20.00	20.00
Bolt up flag'd Joint 600#	6"	2	5.33	10.66
Non Prod and Sup'v @ 70%				21.46
Total Man Hours				52.12 x
Man Hour Rate				£33.00
				£1,719.96
TOTAL COST				£6,954.82

Proposed Oliver Twinsafe Valve				
Materials				
Valve 1500# Twinsafe DBB	6"	1	£8,200.00	
Spiral Wound Gasket - 1500#	6"	2	£11.83	£23.66
Bolts per set 6" - 1500#		2	£99.60	£199.20
				£8,422.86
Fabrication				
Not Applicable				£0
Installation				
Erect Valve 1500#	6"	1	20.00	20.00
Bolt up flag'd Joint 1500#	6"	2	5.33	10.66
Non Prod and Sup'v @ 70%				21.46
Total Man Hours				52.12 x
Man Hour Rate				£33.00
				£1,719.96
TOTAL COST				£10,142.82

Total saving £4,862.07 each installation, plus saving on completion time. Leak points on joints, weight of each unit, space of each unit, safety of pressure testing of the whole unit at the factory, one item to tag as opposed to many, no specialist coded welding or MPI/Radiography inspection personnel on site.

Total saving £5,174.07 each installation, plus saving on completion time. Leak points on joints, weight of each unit, space of each unit, safety of pressure testing of the whole unit at the factory, one item to tag as opposed to many, no specialist coded welding or MPI/Radiography inspection personnel on site.

