

Technip Samsu	ng Consortium	
Project	FLNG Prelude	
Year	2014	
Country	Australia	
End customer	Shell	
Scope of work	Design and manufacturing of 2 large	
	rectangular expansion joints for steam	
	duct between turbine and condenser. Full	
	vacuum and large lateral movements with	THAT
	high number of cycles (up to several millions)	
Solution	Multi-ply rectangular bellows	
Solution	DN 3640x1140 mm	
	Bellows in Inconel 625 and intermediate pig	pes in Inconel 825
		JES III IIICUIIEI 023
	Permanent leakage control device	
	Including Lloyds approval	

SBM Offshore			
Project	Kizomba A+B offshore field deepwater		A CONTRACTOR OF THE PARTY OF TH
Country	Angola		
Year	2004-2005	1	
End customer	ExxonMobil	4	
Scope of work	Manufacturing of several circular		
	expansion joints		
	Operation pressure 40 bar g	1	
	Test pressure 60 bar g		The second second
	Design Temperature 50° C		
Solution	DN 600 flanged expansion joints made of	nconel 625. Ir	nconel 625. Including pre
	Kompaflex premises and DNV approval		

Lurgi		
Project	Recycling refinery residues Ingolstadt	
Year	2000	
End customer	ExxonMobil and Esso	
Scope of work	Operational conditions up to 650 ° C and	
	250 kPa for solid and gas carrying pipes.	
	Very abrasive and corrosive media.	
Solution	Deliver of over 40 custom-made FCCU expa	, , , ,
	tons weight) Hexmesh inner construction a	nd protected bellows by special sealing
	sleeves. Bellows made of Inconel 625 LCF.	



MAN Diesel & 1	Turbo	
Project	Various Off-shore projects	
Year	1990 – today	
End customer	Various Oil&Gas customer of compressors	
Scope of work	Various expansion joints for compressors	
	Operation pressure 8 bar g, Test pressure	
	15.1 bar g. Temperature 310° C	
Solution	Lateral expansion joints DN 1626, Angular e	xpansion joints DN 1626 and axial
	expansion joints DN 2800	

Linde		
Project	Nitrogenia de Cantarell	4
Year	2009 and 2012	
Country	Mexico	
End customer	Pemex	
Scope of work	Braced expansion joints for a Nitrogen	
	plant. Operation pressure 5.4 bar g	
	Test pressure 8.8 bar g	
	Temperature 133° C	
Solution	Gimbal and angular expansion joints size fr	om DN 900 to DN 1600.

<b>Dow Chemicals</b>	
Project	Sadara Chemical Complex Project
Year	2014
End customer	Sadara
Scope of work	An oval shaped and closed walkthroughs were put in place to connect the different chemical complexes of the Sadara Project. This oval walkthrough has to absorb through the help of a bellows Angular movements of 2.4°/0.8° Axial movements of 21 mm. Oval size 4216/2032 mm and 3556/1524 mm
ution	Kompaflex unique Multi-ply Oval Bellow
	axial movements. To protect against corro
	Connecting pieces carbon steel. Including in safe walkthrough gratings.



LAB GmbH		
Project	K2,K3 und K5	
Year	2010	
End customer	MiRO Raffinerie	
Scope of work	A reliable solution for large rectangular expansion joints  Various DN 1810/1680, DN 2480/1680, DN 4040/1240, 1980/1980	
Solution	Multi-ply rectangular bellows in order to fu	Ifil movements and cycles

Nord-West Oel	eitung GmbH	
Project	Oil storage tanks	
Year	2009- today	
End customer	NWO	
Scope of work	Expansion joints to compensate seismic	
	movements for oil tank units.	
	Lateral movements +/- 225 mm	
	Angular movements 2.5°	
	Media Crude Oil	
	Design Pressure 19.8 bar g	
	Sea atmosphere (corrosive)	
Solution	Lateral expansion joint DN 900, Building ler	igth 7700 mm
	Outside bellows protection layer against co	rrosion Avesta 254 SMO

Norwegian Pipi	ing	
Project	Statoil Huldra	
Year	2006	
End customer	Statoil	
Scope of work	A replacement expansion joint was needed for the Statoil Huldra platform according to the Norsok standards	
Solution	DN 300 flange expansion joint Bellows made of Inconel 625 LCF	
	Flanges in Duplex	
	Production in just 4 weeks including full do	ocumentation (WPS, PQR, PMI,)



OMV		
Project	Refineries Burghausen / Schwechat	
Year	2005 - today	
End customer	OMV	
Scope of work	Designing the correct braced expansion joints for the pipe systems to avoid any reaction force on to the system	
Solution	Tied expansion lateral and angular DN 350 t	to DN 800, with PED confirmation
	Design pressure 6 bar g	
	Operation pressure 18 bar g	

PCK Raffinerie		
Project	Ongoing maintenance	
Year	2000 - today	
End customer	PCK	
Scope of work	Replacement of existing fabric and steel	
	expansion joints	
	Temperature 240° C	
	Operation pressure 12 bar g	
	Test pressure 29 bar g	ar works
Solution	Flange type expansion joints DN200 – DN30	0,
	Operation pressure 12 bar g	
	Test pressure 29 bar g	
	Design temperature 240° C	
	Fabric expansion joints (low pressure applic	ation)

JJ Lurgi		
Project	Palm Oil refineries	
Year	2003 – today	
End customer	Palm Oil refineries	
Scope of work	Selecting the correct tied expansion joints for tube systems on Palm Oil refineries	
Solution	Delivery of various lateral and angular expa	insion joints DN 150 – DN 1000



BASF		
Project	Titanium bellows	
Year	2010	
End customer	BASF Ludwigshafen	
Scope of work	BASF asked Kompaflex to manufacture	
	bellows made from 100% titanium.	
Solution	Special forming process had to be used in order to avoid any surface cracks on	
	Titanium bellows and welding seams.	

De Dietrich Pro	cess Systems / Rosenmund		
Project	Bellows		
Year	2010 - today		
End customer	BASF, Dow Chemical, Bayer, Novartis,		
	Roche		
Scope of work	Bellows for mechanical mixing systems,		
	which need to absorb very high		
	movements (e.g. 500 mm axial, within		
	building length of 1000 mm) in		
	combination with a lot of cycles (10'000).		
	Corrosive media (various chemicals)		
Solution	Connecting up to 4 bellows DN 50 – 200 to allow high movements/cycles		
	Special alloys Hastelloy C4, C22, C276		
	Stainless steels 1.4571, 1.4404		

Flowserve			
Project			
Year	2013 - today		
End customer	Oil&Gas end customers		
Scope of work	Very high outside pressure 50 bar g Very high tolerances on the mechanical parts		
Solution	DN 370 – DN 580		
	Duplex material, 1.4462		
	All expansion joints tested with integral helium leakage test at kompaflex facilities		



Heat		
Project	High pressure expansion joints	9 0
Year	2015	Sec. Contract of C
End customer	Oil&Gas end customers	
Scope of work	Expansion joints for heat exchangers Internal dimensions 554 mm Very high internal pressure of 110 bar g Test pressure 165 bar g Axial movements – 3 mm	
Solution	Multi-ply bellows DN 554 made of Inconel 625	
	Massive reinforcement rings for the bellows	