



**Shell Global Solutions**

# CERTIFICATE OF ACCEPTANCE

This is to certify that Supplier Technical Assessment Record (STAR) for Project Service has been awarded to:

**Starline SpA**

Manufacturing location:	Via Dei Livelli Di Sopra 11. Costa di Mezzate, (BG) Italy.
Based on the Technical Qualification carried out in April 2012 in accordance with testing procedure SPE 77/300 dated September 2010 has been accepted by Shell Global solutions International B.V. based on successfully Type Acceptance Testing (TAT) result of:	
DN50 FB class 1500; trunnion mounted Ball valve with MESC - 77.02.4X.708.1 (Item-1) DN50 FB class 2500; trunnion mounted Ball valve with MESC - 77.02.4X.758.1 (Item-2) DN100 FB class 1500; trunnion mounted Ball valve with MESC - 77.02.4X.712.1 (Item-3) DN100 FB class 2500; trunnion mounted Ball valve with MESC - 77.02.4X.758.1 (Item-4)	
TAT Date:	16 <sup>th</sup> to 20 <sup>th</sup> April 2012
The Technical Audit was carried out from 12 <sup>th</sup> to 14 <sup>th</sup> October 2010 (Report GS.10.52624 of November 2010) with satisfactory results.	
The STAR Project Service Pending rating is applicable to the MESC Sub-sub Groups, as listed in Technical Specification MESC SPE 77/300B in accordance with tested valves description on page 2.	
Restrictions / Conditions Applicable:	SGSI do not support the use of elastomers in class 2500 valves. Therefore this certificate applies only to a Project Qualification as listed on page 2 and 3.
Shell GSI report no.: SR.12.11189	Original acceptance: 2012-04-20
Shell GS contract no.: 138756	Current certificate: 2012-04-20
Acceptance certificate no: 2013-02-004	Certificate expiry: 2017-04-20
	Issued by Shell Global Solutions International B.V. PTE-EMMI

Name:

**Bob Merrifield**

Signature




Bob Merrifield  
GGSI - GSEMH  
Valve Engineer

14<sup>th</sup> February 2013

## The valve qualification range according following tested valves:

### Item 1: DN50 FB pressure class 1500; trunnion mounted Ball valve with MESC - 77.02.4X.708.1

Technical Classification Code:	BA-TR-SE-BD-SB-BB-XX-I14313-ST
Product Group Description	Flanged, bolted bonnet, soft seated, TM Ball valve Design to ISO 14313, full bore Body material: ASTM A350 Grade LF2 Class-1 Ball material: SS316/316L dual certified Seat material: SS316/316L + PEEK Seal material: Graphite, HNBR-ED
Shell Fugitive Emission Class:	B
Test Temperature Range:	0 to150 °C
Size and Pressure Range:	DN 15 to 100 full and reduced bore, class 900 and 1500.
Brand name:	Starline, model: 105-PGE-G
GA Drawing of TA-tested valve:	ST-0304120103 with revision 0 from 03-04-2012

### Item 2: DN50 FB pressure class 2500; trunnion mounted Ball valve with MESC - 77.02.4X.758.1

Technical Classification Code:	BA-TR-SE-BD-SB-BB-XX-I14313-ST
Product Group Description	Flanged, bolted bonnet, soft seated, TM Ball valve Design to ISO 14313, full bore Body material: ASTM A350 Grade LF2 Class-1 Ball material: SS316/316L dual certified Seat material: SS316/316L + PEEK Seal material: Graphite, Viton FR 58/90
Shell Fugitive Emission Class:	B
Test Temperature Range:	0 to120 °C
Size and Pressure Range:	DN 15 to 100 full and reduced bore, class 900 and 1500.
Brand name:	Starline, model: 105-PGE-G
GA Drawing of TA-tested valve:	ST-0304120102 with revision 0 from 03-04-2012

### Item 3: DN100 FB pressure class 1500; trunnion mounted Ball valve with MESC - 77.02.4X.712.1

Technical Classification Code:	BA-TR-SE-BD-SB-BB-XX-I14313-ST
Product Group Description	Flanged, bolted bonnet, soft seated, TM Ball valve Design to ISO 14313, full bore Body material: ASTM A350 Grade LF2 Class-1 Ball material: SS316/316L dual certified Seat material: SS316/316L + PEEK Seal material: Graphite, HNBR-ED
Shell Fugitive Emission Class:	B
Test Temperature Range:	0 to150 °C
Size and Pressure Range:	DN 80 to 200 full and reduced bore, class 900 and 1500.
Brand name:	Starline, model: 105-PGE-G
GA Drawing of TA-tested valve:	ST-0304120101 with revision 0 from 03-04-2012

**Item 4: DN100 FB pressure class 2500; trunnion mounted Ball valve with MESC - 77.02.4X.758.1**

Technical Classification Code:	BA-TR-SE-BD-SB-BB-XX-I14313-ST
Product Group Description	Flanged, bolted bonnet, soft seated, TM Ball valve Design to ISO 14313, full bore Body material: ASTM A350 Grade LF2 Class-1 Ball material: SS316/316L dual certified Seat material: SS316/316L + PEEK Seal material: Graphite, Viton FR 58/90
Shell Fugitive Emission Class:	B
Test Temperature Range:	0 to 120 °C
Size and Pressure Range:	DN 80 to 200 full and reduced bore, class 900 and 1500.
Brand name:	Starline, model: 105-PGE-G
GA Drawing of TA-tested valve:	ST-0304120103 with revision 0 from 03-04-2012

The following manufacturer brand name / model types will be listed in TAMAP