



Shell Global Solutions

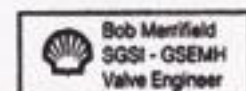
CERTIFICATE OF ACCEPTANCE

This is to certify that Supplier Technical Assessment Record (STAR) level 2 has been awarded to:

Company:	Douglas Chero Spa Valves	
Brand	Douglas Chero	
Manufacturing location:	29013 Carpaneto (PC) Predaglie, Italy	
Based on the Shell Global Solutions Technical Qualification carried out in April 2011 in accordance with testing procedure SPE 77/300 dated 2009 has been accepted by Shell Global solutions International B.V. based on succesfull Type Acceptance Testing (TAT) result of:		
DN50 (2") class 1500 GlobeValve MESC 77.33.43.208.1. Emission Class B	18 to 28 th April - 2011	
Technical Audit carried out on 14-10-2011, with a positive outcome and TQ class VH, is captured in report SR.11.13283		
The 2-STAR rating in the Shell Global Solutions Technically Accepted Manufacturers And Products (TAMAP) database is applicable to the MESC Sub-sub Groups, listed in Technical Specification MESC SPE 77/300B in accordance with tested valves description on page 2 and 3. For an overview of manufacturers models & types qualified by this testing see page 4.		
Restrictions / Conditions Applicable:	TEC Codes : GL-DI-MG-BD-TE-BB-I15761-VH • DN 15 to 40 Full & DN 15 to 50 Red Bore Class 1500 and 2500. • Temperature Qualification : -20 to +150C • Shell Fugitive Emission Class : B	
Sealing Materials	Packing graphite, Seats Stellite	
Shell GSI report nos.: SR.11.11407	Original acceptance: 2011-04-28	
Shell GS contract nos.: 137448	Current certificate: none	
Acceptance certificate no: 2011-04-28:4	Certificate expiry: 2016-04-28	
Issued by Shell Global Solutions International B.V. Projects & Technology (Mechanical, Materials & Integrity) Europe, Middle-East and Africa Region (EMEAR)		

Name: Bob Merrifield SGSI

Signature



The valve qualification range according following tested valves

GL-DI-MG-BD-TE-BB-XX-I15761	GLOBE VALVES, API STD 602 ASME B16.34 ISO 15761 - DISC, METAL SEATED, GRAPHITE SEALING COMPONENTS, BI-DIRECTIONAL, SINGLE PIECE, BOLTED BONNET ----- OR ----- GLOBE VALVES, API STD 602 ISO 15761 - DISC, METAL SEATED, GRAPHITE SEALING COMPONENTS, BI-DIRECTIONAL, SINGLE PIECE, BOLTED BONNET					
Mat, body	Temperature range	size range	MESC	FE class	Caps code	TQ class
AISI 316	-20°C to +450 °C	DN15 to DN40	773384	B	GLVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773014	B	GLVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773056	B	GLVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773083	B	GLVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773126	B	GLSB	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773127	B	GLSB	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	773037	B	GLVF	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	773137	B	GLSB	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	773139	B	GLSB	ST
DUPLEX STAINLESS STEEL	-20°C to +300 °C	DN15 to DN40	773378	B	GLVF	HI
DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	773379	B	GLVF	HI
SUPER DUPLEX STAINLESS STEEL	-20°C to +300 °C	DN15 to DN40	773377	B	GLVF	HI
SUPER DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	773381	B	GLVF	HI
AISI 316	-20°C to +450 °C	DN15 to DN40	773303	B	GLVF	ST
AISI 316	-20°C to +450 °C	DN15 to DN40	773411	B	GLVB	ST
AISI 316	-20°C to +450 °C	DN15 to DN40	773416	B	GLVB	ST
AISI 321	-20°C to +450 °C	DN15 to DN40	773320	B	GLVF	ST
AISI 347	-20°C to +450 °C	DN15 to DN40	773426	B	GLVB	MD
AISI 347	-20°C to +450 °C	DN15 to DN40	773427	B	GLVB	MD
ALLOY STEEL 1.25Cr-0.5Mo	-20°C to +450 °C	DN15 to DN40	773360	B	GLVF	MD
ALLOY STEEL 5Cr-0.5Mo	-20°C to +450 °C	DN15 to DN40	773350	B	GLVF	HI
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773005	B	GLVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773012	B		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773014	B	GLVF	ST
CARBON STEEL	-20°C to +400 °C	DN50	773020	B		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773026	B	GLVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773053	B	GLVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773104	-		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773107	B	GLVS	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773114	B		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773126	B	GLVB	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	773127	B	GLVB	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	773035	B	GLVF	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	773037	B	GLVF	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	773137	B	GLVB	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	773139	B	GLVB	ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	773033	B	GLVF	ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	773038	B		ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	773054	B	GLVF	ST
DUPLEX STAINLESS STEEL	-20°C to +300 °C	DN15 to DN40	773342	B	GLVF	HI
DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	773341	B	GLVF	HI

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Mat, body	Temperature range	size range	MESC	FE class	Caps code	TQ class
SUPER DUPLEX STAINLESS STEEL	-20°C to +300 °C	DN15 to DN40	773343	B	GLVF	HI
SUPER DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	773339	B	GLVF	HI
Notes: Temperature range -50°C to +400°C qualifies all listed temperature ranges. Manufacturer to confirm identical design as specified Where applicable; raised face (RF) flanged end qualifies ring joints (RTJ), butt-weld and clamp hub ends Higher criticality classes qualify lower classes in the order of VH, HI, MD, LO, ST Where applicable; bolted bonnet qualifies welded bonnet valves of same design						

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