



Shell Global Solutions

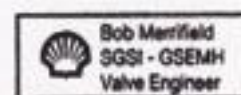
CERTIFICATE OF ACCEPTANCE

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:	
DN25 (1") class 1500 Gate Valve MESC 77.23.44.505.1 DN20 (3/4") class 2500 Gate Valve MESC 77.23.81.554.1 All Emission Class B	18 to 28 th April - 2011 Ditto
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 : GA-SG-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: 2011-04-28:1	Certificate expiry: 2016-04-15
	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

GA-FW-MG-BD-TE-BB-XX-I15761	GATE VALVES, API STD 602 ASME B16.34 ISO 15761 - WEDGE, METAL SEATED, GRAPHITE SEALING COMPONENTS, BI-DIRECTIONAL, OUTSIDE SCREW AND YOKE, BOLTED BONNET ----- OR ----- GATE VALVES, API STD 602 ISO 15761 - WEDGE, METAL SEATED, GRAPHITE SEALING COMPONENTS, BI-DIRECTIONAL, OUTSIDE SCREW AND YOKE, 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	772384	B	GAVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772020	B	GAVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772078	B	GAVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772083	B	GAVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772127	B	GASB	ST
CARBON STEEL	-20°C to +400 °C	DN20 to DN40	772136	B	GASB	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	772037	B	GAVF	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	772137	B	GASB	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	772139	B	GASB	ST
DUPLEX STAINLESS STEEL	-20°C to +300 °C	DN15 to DN40	772381	B	GAVF	HI
DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	772379	B	GANF	HI
DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	772379	B	GAVF	HI
SUPER DUPLEX STAINLESS STEEL	-20°C to +300 °C	DN15 to DN40	772382	B	GAVF	HI
SUPER DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	772383	B	GANF	HI
SUPER DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	772383	B	GAVF	HI
AISI 316	-20°C to +450 °C	DN15 to DN40	772303	B	GAVF	ST
AISI 316	-20°C to +450 °C	DN15	772315	B	GAVF	ST
AISI 316	-20°C to +450 °C	DN15 to DN40	772407	B	GAVB	ST
AISI 316	-20°C to +450 °C	DN15 to DN40	772416	B	GAVB	ST
AISI 321	-20°C to +450 °C	DN15 to DN40	772320	B	GAVF	ST
AISI 347	-20°C to +450 °C	DN15	772327	B	GAVF	MD
AISI 347	-20°C to +450 °C	DN15 to DN40	772427	B	GAVB	MD
AISI 347	-20°C to +450 °C	DN15 to DN40	772432	B	GAVB	MD
ALLOY STEEL 1.25Cr-0.5Mo	-20°C to +450 °C	DN15 to DN40	772360	B	GAVF	MD
ALLOY STEEL 5Cr-0.5Mo	-20°C to +450 °C	DN15 to DN40	772350	B	GAVF	HI
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772004	B	GAVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772020	B	GAVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772024	-		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772026	B	GAVF	ST
CARBON STEEL	-20°C to +400 °C	DN20 to DN25	772036	B		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772053	B	GAVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772104	-		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN25	772106	B		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772107	B	GAVS	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772114	B		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772126	B	GAVB	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	772127	B	GAVB	ST

GA-FW-MG-BD-TE-BB-XX-I15761		GATE VALVES, API STD 602 ASME B16.34 ISO 15761 - WEDGE, METAL SEATED, GRAPHITE SEALING COMPONENTS, BI-DIRECTIONAL, OUTSIDE SCREW AND YOKE, BOLTED BONNET ----- OR ----- GATE VALVES, API STD 602 ISO 15761 - WEDGE, METAL SEATED, GRAPHITE SEALING COMPONENTS, BI-DIRECTIONAL, OUTSIDE SCREW AND YOKE, BOLTED BONNET				
Mat, body	Temperature range	size range	MESC	FE class	Caps code	TQ class
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	772035	B	GAVF	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	772037	B	GAVF	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	772137	B	GAVB	ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	772139	B	GAVB	ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	772033	B	GAVF	ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN25	772038	B		ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	772041	B	GANF	ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	772054	B	GANF	ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	772054	B	GAVF	ST
DUPLEX STAINLESS STEEL	-20°C to +300 °C	DN15 to DN40	772344	B	GAVF	HI
DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	772341	B	GANF	HI
DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	772341	B	GAVF	HI
SUPER DUPLEX STAINLESS STEEL	-20°C to +300 °C	DN15 to DN40	772345	B	GAVF	HI
SUPER DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	772346	B	GANF	HI
SUPER DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	772346	B	GAVF	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