



Shell Global Solutions

CERTIFICATE OF ACCEPTANCE

This is to certify that Supplier Technical Assessment Record (STAR) for Project Service 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:	
DN20 (3/4") class 600 Check Valve MESC 77.13.03.104.1 DN25 (1") class 1500 Check Valve MESC 77.13.43.205.1. DN20 (3/4") class 2500 Check Valve MESC 77.13.82.254.1 All Emission Class B	18 to 28 th April - 2011 Ditto 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 STAR rating 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. For an overview of manufacturers models & types qualified by this testing see page 3.	
Restrictions / Conditions Applicable:	TEC Codes : CH-PI-MG-UD-TE-BB-I15761-VH • DN 15 to 40 Full & DN 15 to 50 Red Bore Class 150, 300, 600,1500 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: 2011-04-28:3	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

CH-PI-MG-UD-XX-BB-XX-I15761		CHECK VALVES, API STD 602 ASME B16.34 ISO 15761 - PISTON, METAL SEATED, GRAPHITE SEALING COMPONENTS, UNI-DIRECTIONAL, , BOLTED BONNET ----- OR ----- CHECK VALVES, API STD 602 ISO 15761 - PISTON, METAL SEATED, GRAPHITE SEALING COMPONENTS, UNI-DIRECTIONAL, , BOLTED BONNET ----- OR ----- CHECK VALVES, API STD 602 ISO 15761 - PISTON, METAL SEATED, GRAPHITE SEALING COMPONENTS, UNI-DIRECTIONAL, , BOLTED UNION BONNET				
Mat, body	Temperature range	size range	MESC	FE class	Caps code	TQ class
AISI 316	-20°C to +450 °C	DN15 to DN40	771382	B	CHVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771013	B	CHVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771026	B	CHVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771043	B	CHVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771056	B	CHVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771114	B		ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	771035	B	CHVF	ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	771033	B	CHVF	ST
DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	771370	B	CHVF	HI
SUPER DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	771372	B	CHVF	HI
6Mo	-20°C to +400 °C	DN15 to DN40	771347	A(HS)	CHVF	MD
AISI 316	-20°C to +450 °C	DN15 to DN40	771303	B	CHVF	ST
AISI 316	-20°C to +450 °C	DN15 to DN40	771315	B	CHVF	ST
AISI 321	-20°C to +450 °C	DN15 to DN40	771320	B	CHVF	ST
AISI 347	-20°C to +450 °C	DN15 to DN40	771329	B	CHVF	MD
ALLOY 825	-20°C to +400 °C	DN15 to DN40	771638	A(HS)	CHVF	HI
ALLOY STEEL 1.25Cr-0.5Mo	-20°C to +450 °C	DN15 to DN40	771360	B	CHVF	MD
ALLOY STEEL 5Cr-0.5Mo	-20°C to +450 °C	DN15 to DN40	771350	B	CHVF	HI
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771005	B	CHVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771012	B		ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771013	B	CHVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771026	B	CHVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771043	B	CHVF	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771107	B	CHVS	ST
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771114	B		ST
CARBON STEEL, LOW TEMP	-20°C to +340 °C	DN15 to DN40	771035	B	CHVF	ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	771033	B	CHVF	ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	771038	B		ST
CARBON STEEL, LOW TEMP	-50°C to +340 °C	DN15 to DN40	771044	B	CHVF	ST
DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	771341	B	CHVF	HI
SUPER DUPLEX STAINLESS STEEL	-50°C to +300 °C	DN15 to DN40	771342	B	CHVF	HI
CARBON STEEL	-20°C to +400 °C	DN15 to DN40	771104	-		ST
Notes: Temperature range -50°C to +400°C qualifies all listed temperature ranges. Manufacturer to confirm identical design as specified Fugitive emission class A(HS) qualifies fugitive emission class B 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						

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