Shell Global Solutions

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To whom it may concern,

Listed below are the valves that were Type Acceptance Tested at Virgo Valves and Controls Limited - India during April 2006 and March 2007. All valves successfully completed the testing program. These valves are being added to TAMAP with a 2 STAR rating

Please note that the valves covered by the 2006/2007 TAT will qualify the range of valves shown on the charts below. Additional ranges of valves may also be qualified (as listed in T-2.973.873), on the condition that the designs are IDENTICAL and that the design temperature and pressures are covered.

770341.654.1 Virgo cat. No. S-2-RF-3-F-OOG-F-L
¾" Class 300 Floating Ball, Ball valve. Body material Duplex, Seat material RPTFE, Trim material Duplex, FE class B, Temperature range -50°C/+200°C.
Test temperature -50°C/+200°C

770341.110.1 Virgo cat. No. S-2-RF3-R-OOG-F-L
3" Class 300 Floating Ball, Ball valve. Body material Duplex, Seat material RPTFE, Trim material Duplex, FE class B, Temperature range -50°C/+200°C.
Test temperature -50°C/+200°C

77.03.41.165.1 Virgo cat. No. S-2-RF3-R-OOG-F-G-SP
8" Class 300 lbs. Floating Ball, Ball valve. Body material Duplex, Seat material PTFE, Trim material Duplex, FE class B, Temperature range -50°C/+150°C.
Test temperature -50°C/+150°C. (due to changes in MESC and pressure limitations placed on RPTFE seat materials).

77.03.81.610.1 (superseded by 77.03.69.610.1 in MESC version 10.)
Virgo cat. No. N-3-RF-6-F-OO-L-F-G
3" Class 600 lbs. Trunnion Mounted Ball valve. Body material Duplex, Seat material PCTFE, Trim material Duplex. Temperature range -50°C/+120°C.
Test temperature -50°C/+120°C

77.03.81.616.1 (superseded by 77.03.69.616.1 in MESC version 10.)
Virgo cat. No. N-3-RF-6-F-C6-L-F-G
10" Class 600 lbs. Trunnion Mounted Ball valve. Body material Duplex, Seat material PCTFE, Trim material Duplex. Temperature range -50°C/+120°C.
Test temperature -50°C/+120°C

770073.620.1 Virgo cat. No. N-3-RF-6-F-OO-L-F-G
18" Class 600 lbs. Trunnion Mounted Ball valve. Body material Duplex, Seat material PCTFE, Trim material Duplex. Temperature range 0°C/+120°C.
Test temperature 0°C/+120°C RF Ball Valve, Full Bore, Trunnion Mounted, Soft Seated.

77.03.81.710.1 (superseded by 77.03.68.710.1 in MESC version 10.)
Virgo cat. No. N-3-RF-2-F-OO-L-F-G
3" Class 1500 lbs. Trunnion Mounted Ball valve. Body material Duplex, Seat material PCTFE, Trim material Duplex. Temperature range -50°C/+120°C.
Test temperature -50°C/+120°C

77.03.81.715.1 (superseded by 77.03.68.715.1 in MESC version 10.)
Virgo cat. No. N-3-RF-2-F-OO-L-F-G
8" Class 1500 lbs. Trunnion Mounted Ball valve. Body material Duplex, Seat material PCTFE, Trim material Duplex. Temperature range -50°C/+120°C.
Test temperature -50°C/+120°C

770073.668.1 Virgo cat. No. N-3-RF-9-F-C6-L-F-G
14" Class 900 RF Ball Valve, Full Bore, Trunnion Mounted, Soft Seated.
Trunnion Mounted Ball valve. Body material Duplex, Seat material PCTFE, Trim material Duplex. Temperature range 0°C/+120°C.
Test temperature 0°C/+120°C

The following charts show the Valves tested and the additional valves qualified.

770341 Floating Ball (-50/+200) LIP SEAL Design									
	1/2	3/4	1	1 1/2	2	3	4	6	
150	Q	Q	Q	Q	Q	Q	Q	Q	
300	Q	TQ	Q	Q	Q	TQ	Q	Q	

Additional ranges MESC covered on the condition that the designs are identical

770015 770025 770054 770029
770342 770014 770031 770004
770056 770322 770326

770341 Floating Ball (-50/+150) LIP SEAL Design						
		6	8	10	12	
150		Q	Q	Q	Q	
300		Q	TQ	Q	Q	

770381 Trunnion Mounted (-50/+120) test to +150 LIP SEAL Design								
	2	3	4	6	8	10	12	14
150	Q	Q	Q	Q	Q	Q	Q	Q
300	Q	Q	Q	Q	Q	Q	Q	Q
600	Q	TQ	Q	Q	Q	TQ	Q	Q
900	Q	Q	Q	Q	Q	Q	Q	
1500	Q	TQ	Q	Q	TQ	Q	Q	

770073 Trunnion Mounted (0/ +120) test to -20 O-Ring design							
	12	14	16	18	20	24	
150			Q	Q	Q	Q	
300			Q	Q	Q	Q	
600			Q	TQ	Q	Q	
900	Q	TQ	Q	Q			

TQ = TAT valve Qualified
Q = additional valve qualified.

This statement is made in advance of the issuance of a formal certificate

On behalf of Shell-GSI B.V.
Valves and Sealing Group

Alfred Kruijer
Principal Mechanical engineer