SCORE (EUROPE) LIMITED

Engineering Research, Design, Manufacture & Repair

Fire Test Certificate

In Accordance with Specifications ***B.S. 6755 PART 2 1987***

a ***BUTTERFLY VALVE VSS/3L*** size ***250mm (10")***

serial no. ***2838/90*** seat material ***SS2377 SST.***

manufactured by ***A.B. SOMAS***

has been tested by Score (Europe) Limited on ***12th JUNE 1990***

at Score's ***COWDENBEATH*** Works and has complied in full with the requirements.

Test carried out by ***J. R. SMITH and R. HEPBURN*** Score (Europe) Limited

Test witnessed by ***M. AXELSSON*** Manufacturer

To Certifying Authority

SCORE (EUROPE) LIMITED
QUALITY ASSURANCE INSPECTION
SIGNATURE
DATE 19/6/90.

Lloyd's Register

Project:	Somas AB Order No. 05062	*Certificate No.:*	EDB 000118/5
Client:	Score (Europe) Limited	*Office:*	EDINBURGH
Client's Order No.:	2826/8123	*Date:*	15th June, 1990
		Order Status:	COMPLETE
Inspection dates First:	12.6.90	*Final:*	14.6.90

This is to certify that at the request of Score (Europe) Limited, the undersigned Surveyor attended their Works at Woodend, Cowdenbeath, Fife for the purpose of witnessing a Fire Test on a Butterfly Valve, stated to be manufactured by Somas AB Sweden. Details of the Valve are as follows:-

Size: 250 mm
Class: PN25 ANSI 150
Material of Construction: Body: Cast Stainless Steel
Shaft: AISI 329 Hard Chromed
Disc: AISI 316
Graphite Seals
Drawing No. D-566
Valve Stamped: 2838/90.8123/4
Gearbox Nameplate Details noted as: GBE Mastergear
C8201 MY-HF/S12
SL 039

Temperature calorimeter cubes were placed as follows:-

1. Stem Flame Temperature
2. Bottom Flame Temperature
3. Stem Calorimeter Block
4. Bottom Calorimeter Block
5. Box Temperature/Trunnion Calorimeter Block
6. Skin Temperature

The Fire Test was carried out in accordance with B.S. 6755 Part 2 1987.

The Valve was mounted into a test stand with calorimeter cubes and flame environment thermocouples in their appropriate location, which were connected to a Chessell Model 4001 temperature recorder with automatic printout facilities, Serial Number 0586-410469, calibration of which was verified. A calibrated test pressure gauge 0 - 60 Bar, Serial No. S11876680 was also used.

Both/

Continued .....

Surveyor to Lloyd's Register

Control Number EDB 000118/5

Both the inlet and outlet pipework was connected to the Valve with the Valve in the partially open position, the system was filled with water and the air purged out.

The system was checked for leaks by pressurising to 14.5 bar and found tight.

During the burn period the pressure was maintained at 14.5 bar by occasional manual adjustment.

On completion of the burn period of 30 minutes duration, the Valve was cooled naturally to 100°C.

The results of the Fire Test were then recorded as follows:-

Through seat leakage at high test pressure of 14.5 bar during burn period = 4400 ml over 30 minutes.

External leakage (high test pressure) during burn and cool down periods = Zero.

Through seat leakage at low test pressure of 2.0 bar after cool down = 50 ml over 5 minutes.

External leakage (low pressure test) after cool down = Zero.

Torque to operate Valve at high test pressure differential = 100 newton metres.

External leakage with Valve pressurised to 14.5 bar in fully open position = Zero over 5 minutes.

The test was concluded at this point.

The Valve was dis-assembled and examined to verify compliance with Drawing Number D-566 and found to comply.

In respect of the test results now stated, it is considered that the test Valve complies with the requirements of B.S. 6755 Part 2, 1987.

J. Swillie
.....
Surveyor to Lloyd's Register.

pp T.A. DALLING.

DETAILS OF RANGE QUALIFIED

VALVE TESTED TO B.S. 6755 PART 2 1987

RANGE QUALIFIED IS:- SIZE: **10", 12", 14", 16", 18", 20 (DN250, 300, 350, 400, 450, 500)**

CLASS: **150, 300 (PN16, 25, 40)**

SCORE (EUROPE) LIMITED
QUALITY ASSURANCE INSPECTION
SIGNATURE
DATE 19/6/90