API STD 607 FIRE TYPE TEST CERTIFICATE
Conformity with Fire Type-Test
Acc. to API STD 607, 8TH EDITION, OCTOBER 2022

Test Certificate No: PITS/FTT/607/KANSEI/CERT/001

Date: 24/06/2023

Name & Address of the Valve Manufacturer
KANSEI VALVES AND AUTOMATIONS LLP
103, POR RAMANGAMDI INDUSTRIAL ESTATE, DIST. VADODARA, VADODARA - 391243, GUJARAT, INDIA

Name & Address of the Testing Facility
PURVA INSPECTION & TESTING SERVICES
16, SATYAM ESTATE, STEEL TOWN, BESIDE HOF, MORAIYA, CHANGODAR, AHMEDABAD, PIN CODE: 382 213, GUJARAT, INDIA

- We hereby certify that the results of Valve Tests carried out under witness of M/s DNV (TPIA) on the Industrial Valve below meeting the requirements in the standard mentioned above. The fire-tested valve has passed all the required hydrostatic, air type and production pressure tests required by the design & Manufacturing standard as listed below. For detailed Valve technical data and information refer to the Test Report.

Type of Valve (Description of Tested Valve)	DESIGN AS PER: API SPEC 6D 25TH ED NOV 2021; ASME B16.34-2020 FULL BORE 2 PIECE SOFT SEATED TRUNNION MOUNTED BALL VALVE; FLANGE END (RF); GEAR OPERATED THE VALVE IS SYMMETRIC AND INTENDED FOR BIDIRECTIONAL INSTALLATION.			
Size & Pressure Class of Valve	NPS 8 (DN 200); CLASS 150			
Assembly Drawing No.	KTMV-080-GO-150-000; REV: 00		Valve Sr. No.	WB8287
Material of Construction (MOC)	ASTM A216 GR WCB (BODY, SIDE PIECE); ASTM A479 TYPE 316 (STEM HOUSING, TRUNNION); ASTM A351 GR CF8M / ASTM A479 TYPE 316 (SEAT RETAINER); INCONEL X750 (SEAT RETAINER SPRING); SS316 (GLAND, ANTISTATIC DEVICE, SEAT & STEM SEALANT INJECTION, VENT PLUG, DRAIN PLUG)			
Ball Material	ASTM A351 GR CF8M	Stem Material	ASTM A479 TYPE 316	
Seat Material	RPTFE	Body Seal / Gasket Material	SPW316+GRAFOIL	
Stem Seal / Packing Material	GRAFOIL	Other Gasket	GRAFOIL (SEAT RETAINER, TRUNNION)	
Fasteners Material	ASTM A193 GR B7 (STUD); ASTM A194 GR 2H (NUT) (FOR BODY-DISE PIECE, TRUNNION, GEAR BOX) ASTM A193 GR B8 (GLAND HOUSING SHCS)			
Other Soft Material	SS316+PTFE (STEM BEARING, TRUNNION BEARING); VITON-B (SIDE PIECE 'O' RING); VITON-B (SEAT RETAINER 'O' RING, STEM HOUSING 'O' RING, STEM 'O' RING, TRUNNION 'O' RING); GFT (STEM WASHER)			
Weight of Valve	≈ 156 kg The type of valve body ends is not considered by this International Standard. However, the mass of the valve is determined in part by the body end type. For qualification to the present International Standard, and providing that all other qualification criteria have been met, valves with ends different to those of the test valve may also qualify provided that their mass is greater than that of the test valve, or their mass is not less than 75% of the test valve.			
Test Report No	PITS/FTT/607/KANSEI/RP/001			
Test Result	PASS			

PURVA INSPECTION & TESTING SERVICES

For, Purva Inspection & Testing Services
Dhaval Chauhan

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INSPECTION
Inspector no.: 52-088
Date: 24/06/2023
Signature:
☐ Witnessed ☐ Reviewed

Test Witnessed By
Bhavin Naliyapara (TPIA) (M/s DNV)

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Nr. Radhaswami Satsang,
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API STD 607 FIRE TYPE TEST CERTIFICATE
Conformity with Fire Type-Test
Acc. to API STD 607, 8TH EDITION, OCTOBER 2022

Test Certificate No: PITS/FTT/607/KANSEI/CERT/001 **Date: 24/06/2023**

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Qualified Range	This test for particular valve also qualifies following Sizes and Pressure Class Rating & Materials of Construction as per API STD 607, 8TH ED, OCTOBER 2022; Clause 7
Nominal Diameter Qualified	NPS 8 & LARGER or DN 200 & LARGER
Nominal Pressure Class Qualified	Qualified valves with higher PN or Class Ratings but not exceeding twice the PN or Class Rating of the tested Valve; Class Rating 150 & 300 or PN 10; 16; 25 & 40
Non-metallic Materials	RPTFE (SEAT MATERIAL); OTHER SOFT MATERIAL: GFT, VITON-B, SS316+PTFE
Further Qualification	Any change in nominal composition of non-metallic materials with respect to the seat-to-closure member seal, seat-to-body seal, stem seal, or body joint seal requires a re-qualification. Filled PTFE, however, may qualify non filled PTFE and vice versa. Retest of a single valve equal to or greater than the median size of the previously tested product range is allowed for requalification for a change in a manufacturer of packing material. Change of an elastomeric material type (e.g. FKM or HNBR) in the valve requires a retest of a single valve equal to or greater than the median size of the previously tested product range.
Materials of Construction (MOC)	For the purposes of product compliance certification or type-testing systems, the materials of construction of the pressure-retaining envelope of the valve shall be deemed to qualify other materials of construction within the generic classifications below, including but not limited to the listed material within each classification; ferritic, ASME B16.34 material groups 1.1 through 1.18
Further Qualification	If a range of valves is covered by testing of ferritic test valves, then the type-testing coverage may be extended to cover austenitic, duplex, or nickel alloy materials by carrying out a further test on a single valve of each generic material and class range per Table 4. For product lines DN 50 (NPS 2) and below, the valve shall be of the maximum size of the product range. For those where the product line extends to larger sizes, the valve shall be equal to or greater than the median size in the ferritic testing. Other materials of construction of the pressure-retaining envelope of the valve require full testing of representative size and pressure ratings as specified in clause no 7.3 and 7.4.
Declaration	The tested valve complied with the requirements of API STD 607, 8TH ED, OCTOBER 2022

Notes:

1. If the location of the valve manufacturing facilities is different than what is listed on the API STD 607, 8TH ED, OCTOBER 2022 certificate, the purchaser may request requalification.
2. This certificate is issued according to API STD 607, 8TH ED, OCTOBER 2022, based upon the results of testing report on above mentioned test valve. The additional valve qualification shall be limited on similar valves of the same basic design (type, model, and/or configuration) and construction as the same test valve and of the same non-metallic material as the test valve in the seat-to-closure member seal, seat-to-body seal, stem seal and body joint seal according to API STD 607, 8TH ED, OCTOBER 2022, Clause No 7.

PURVA INSPECTION & TESTING SERVICES

For, Purva Inspection & Testing Services
Dhaval Chauhan

INSPECTION
Inspector no.: 52088
Date: 24/06/23
Signature:
Witnessed Reviewed
Test Witnessed By:
Bhavin Naliyapara (TPIA) (M/s DNV)

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