

**ITIS B.V.**

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ITIS Certificate
32067-C001 (Revision 2)
Annex: 1) drawing F12006
Annex: 2) drawing C1189460



Industrie Service

VALVE TEST QUALIFICATION CERTIFICATE

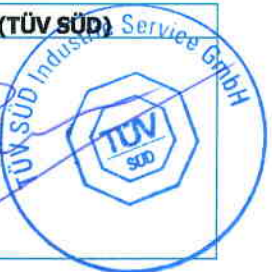
This certificate is to certify that the measured leak rates were within the limits according to the requirements of TA LUFT (Technische Anleitung zur Luft par. 5.2.6.4) Vom 24. Juli 2002 and VDI 2440 par. 3.3.1.3 November 2000, for 2500 cycles at 300°C.

Test valve details

Manufacturer	: Metso Automation Inc.
Nominal size	: 2inch / DN50
Pressure rating	: 600lbs
Valve Type	: Ball valve XU/XA/XT and M1/M2 series
Serial number	: 473021
Drawing number	: F03315 revision C date: 03-04-00
Body material	: ASTM A216 gr. WCB/1.0619
Body seal material	: AISI316+Graphite (Spiral wound)
Body seal diameter / circumference	: 3.781inch = 0.096m / 0.301m
Stem material	: ASTM A479 gr. XM-19
Stem seal material	: Graphite 25mm x 37.7mm x 6.4mm (3x)
Stem seal part no.	: H075810
Stem diameter / circumference	: 0.025m / 0.0785m
Actuator	: Metso EC10 0-8Bar 250Nm pneumatic actuator

Description	Tested valve
Stem seal material	Graphite 3X
Stem Ø/circumference	0.025m/0.0785m
Body seal material	AISI316+Graphite (Spiral wound)
Body seal Ø/circumference	0.096m/0.301m
Class	600 lbs
Temperature Class	300°C
Operational Cycles (Stroke limited to 90°)	Total: 2500 operational cycles at 300°C

This certificate is only valid in conjunction with the full ITIS BV test report number 32067-R001

Name (ITIS) C. Zegers (LT2 EN473)  C. Zegers 11-07-2013	Name authority (TUV SUD) P. Deleu  11-07-2013
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