



Pos. 15, 19 St.

TAIWAN VALVE COMPANY LTD.  
3,24TH ROAD TAICHUNG INDUSTRIAL PARK TAICHUNG, R.O.C

Inspection Certificate (EN 10204-3.1B)

Report No.: ECH-5A9902-050413

Page: 4/14

S/C ECH-5A9902

Customer: ECONOSTO NEDERLAND B.V.

Material: EN10213-2(1995)/1.0619

P/O 9460624 OP

Article: ECON 3PC DIN2999 BALL VALVE

Heat Treatment: 920 , Normalizing, Cooling by air, 1hr

A) Chemical Analysis

Spec		B) Tensile test / Hardness / Charpy (Test Temp RT)										
		C %	Si %	Mn %	P %	S %	Ni %	Cr %	Mo %	Cu %	V %	N %
Size	Heat No	Piece	Article	Max	Min							
DN15	ABC75	30	BODY	0.23	0.60	0.030	0.020	-	-	-	-	-
DN15	CBC56	50	BODY	0.19	0.50	0.018	0.018	-	-	-	-	-
DN15	CBD60	48	BODY	0.22	0.43	0.027	0.013	-	-	-	-	-
DN15	E9A0J	52	BODY	0.20	0.45	0.022	0.012	-	-	-	-	-
DN15	NB933	75	BODY	0.18	0.51	0.013	0.014	-	-	-	-	-
DN15	CBC57	70	CAP	0.23	0.49	0.025	0.014	-	-	-	-	-
DN15	CBD40	80	CAP	0.22	0.43	0.025	0.015	-	-	-	-	-
DN15	E9A23	75	CAP	0.20	0.42	0.024	0.016	-	-	-	-	-
DN15	EBCD2	75	CAP	0.22	0.34	0.001	0.001	-	-	-	-	-
DN15	NB334	32	CAP	0.19	0.54	0.013	0.012	-	-	-	-	-
DN15	NB934	150	CAP	0.20	0.39	0.022	0.010	-	-	-	-	-
DN15	WB159	28	CAP	0.22	0.46	0.023	0.014	-	-	-	-	-
DN20	ABD38	10	BODY	0.19	0.30	0.020	0.009	-	-	-	-	-
DN20	CBD62	60	BODY	0.19	0.54	0.011	0.013	-	-	-	-	-
DN20	NB933	15	BODY	0.20	0.43	0.022	0.012	-	-	-	-	-
Dimensional check and NDT												

Testing Item	Details	Result
Visual inspection & dimensional check	Kennzeichnung auf Aluschild H13003, H13003 H13013, H13013 H13080, H13088	OK
Surface crack inspection (PT)	H13180, H13181 H13280, H13281 H14006, H14012	
Radiographic examination (RT)	H14080, H14081 H14088, H14180 H14181, H14280	
I.K. Intergranular corrosion testing (ASTM A 262-98)	H14281	
D) Remarks:		
Delivery Condition:	Anti-rust	

It is here by certified that above results are true and correct in every detail.

Place: Taiwan Taichung

Date: 2005/04/13

Works inspector

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Page: 3/7

Customer: ECONOSTO NEDERLAND B.V.

Valve Type: ECON

Specification: EN12516-1(2000)

Date: 2005/04/13

Material: EN10213-2(1995)/1.0619

P/I NO: ECH-5A9902

Order No.: 9460624 OP

Content of Delivery

Leak and Pressure Test according to DIN EN12266-1(2003)

Item No	No of Piece	Article	Size	Class	Trim (Ball/Stem/Seat)	Shell test (Water)		Seat test (Water)		Seat test (Air)		Test Result		
						94.5Bar	15SEC	N/A	N/A	6Bar	15SEC	Shell	Seat-Water	Seat-Air
1	75	ECON 3PC DIN2999 BALL VALVE	DN15	PN63										
2	30	ECON 3PC DIN2999 BALL VALVE	DN15	PN63										
3	150	ECON 3PC DIN2999 BALL VALVE	DN15	PN63										
4	60	ECON 3PC DIN2999 BALL VALVE	DN20	PN63										
5	25	ECON 3PC DIN2999 BALL VALVE	DN20	PN63										
6	90	ECON 3PC DIN2999 BALL VALVE	DN25	PN63										
7	20	ECON 3PC DIN2999 BALL VALVE	DN32	PN63										
8	10	ECON 3PC DIN2999 BALL VALVE	DN40	PN63										
9														
10														

Test Results

Test Item		According	Result
Check of Calculation and safety Requirements acc. to		EN12516-1	Acceptable
Visual and functional tests		TV STD	Acceptable
NDE, material certificates (see material certificate, as annex)		N/A	N/A

Annexes/ 1) Material certificates of pressure parts

2) Material list of other parts

It is here by certified that above results are true and correct in every detail.

Place: Taiwan Taichung

Date: 2005/04/13

Works inspector

*A-M. Liao.*