

Reviz. H. 12.003, H. 14.003.42, H. 14.003.42



LAIWAN VALVE COMPANY LTD.

3,24TH ROAD TAICHUNG INDUSTRIAL PARK TAICHUNG, R.O.C

Inspection Certificate (EN 10204-3.1B) Certificate No.: 01 202 ROC/Q-01 0001 Report No.: 0930611009 Page: 1/17

S/C ECH-A42502 P/O 94487260P
 Customer: ECONOSTO NEDERLAND B.V. Article: ECON 3PC BUTT WELD BALL VALVE
 Material: EN10213-2(1995)/1.0619 P.O.L. 13 3.51 Heat Treatment: 920 ° Normalizing, Cooling by air, 1hr

A) Chemical Analysis

Spec				C %		Si %	Mn %	P %	S %	Ni %	Cr %	Mo %	Cu %	V %	N %	Rp 0.2		Rp 1.0		Tensile		Elong-	Reduct-	Energy Charpy Impact (Joule)				
				Min	Max											N/mm ²	N/mm ²	N/mm ²	N/mm ²	%	%		HB	1	2	3	AVG	
	Size	Heat No	Place													240	-	420	22	-	-	-	-	-	-	-	-	27
	DN15	AB608	5	BODY		0.23	0.60	1.20	0.030	0.020	-	-	-	-	-	-	-	600	-	-	-	-	-	-	-	-	-	-
	DN15	E9AUX	3	BODY		0.21	0.48	0.94	0.027	0.018	-	-	-	-	-	268	-	511	26	-	-	-	145	40	42	41	41	-
	DN15	E9AW6	12	BODY		0.20	0.45	0.66	0.014	0.001	-	-	-	-	-	268	-	513	30	-	-	-	157	48	50	47	48	-
	DN15	E9AYS	25	BODY		0.21	0.24	0.51	0.002	0.002	-	-	-	-	-	301	-	462	24	-	-	-	168	50	48	49	49	-
	DN15	64407	10	CAP		0.22	0.33	0.55	0.001	0.001	-	-	-	-	-	278	-	512	25	-	-	-	150	47	47	48	47	-
	DN15	E9A24	80	CAP		0.21	0.35	0.84	0.020	0.009	-	-	-	-	-	248	-	522	25	-	-	-	158	47	47	48	47	-
	DN15	E9A83	10	BODY		0.23	0.41	0.74	0.001	0.002	-	-	-	-	-	288	-	544	24	-	-	-	150	44	52	49	48	-
	DN20	E9AY7	20	BODY		0.18	0.37	0.51	0.020	0.014	-	-	-	-	-	268	-	522	25	-	-	-	161	48	49	51	49	-
	DN20	E9AY7	20	BODY		0.22	0.31	0.61	0.006	0.001	-	-	-	-	-	295	-	523	24	-	-	-	130	59	54	57	57	-
	DN20	80840	19	CAP		0.23	0.30	0.62	0.001	0.003	-	-	-	-	-	287	-	529	24	-	-	-	149	44	45	47	45	-
	DN20	E9ACJ	21	CAP		0.21	0.37	0.69	0.014	0.005	-	-	-	-	-	327	-	539	25	-	-	-	167	56	58	59	58	-
	DN20	WB070	20	CAP		0.21	0.43	0.62	0.019	0.004	-	-	-	-	-	252	-	531	24	-	-	-	160	51	50	48	50	-
	DN25	A8A83	3	BODY		0.18	0.37	0.51	0.020	0.014	-	-	-	-	-	268	-	522	25	-	-	-	161	48	49	51	49	-
	DN25	A8A84	25	BODY		0.19	0.48	0.55	0.008	0.008	-	-	-	-	-	254	-	531	24	-	-	-	160	48	49	47	48	-
	DN25	AB34	2	BODY		0.19	0.38	0.51	0.017	0.011	-	-	-	-	-	258	-	531	26	-	-	-	158	47	48	48	48	-
	DN25	E9APC	17	BODY		0.23	0.44	0.68	0.005	0.007	-	-	-	-	-	284	-	534	24	-	-	-	161	39	41	38	39	-

C) Dimensional check and NDT

Testing Item	Details	Result
Visual inspection & dimensional check	TV Standard	OK
Surface crack inspection (PT)	N/A	
Radiographic examination (RT)	N/A	
UT Intergranular corrosion testing (ASTM A 262-98)	N/A	

D) Results:

Delivery Condition:	Anti-rust
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It is hereby certified that above results are true and correct in every detail.

Place: Taiwan Taichung

Date: 2004/06/11

Works inspector

Taiwan Taichung



TAIWAN VALVE COMPANY LTD.
3.24TH ROAD TAICHUNG INDUSTRIAL PARK TAICHUNG, R.O.C

Inspection Certificate (EN 10204-3.1B)	Certificate No.: 01 202 ROC/Q-01 0001	Report No.: 0930611005	Page: 1/8
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Customer: ECONOSTO NEDERLAND B.V.	Valve Type: ECON	Date: 2004/06/11
Specification: EN12516-1(2000)	P/I NO: ECH-A42502	Order No.: 94487260P
Material: EN10213-2(1995)/1.0619		

Content of Delivery

				Leak and Pressure Test according to						DIN EN12266-1(2003)			
Item No	No of Piece	Article	Size	Class	Trim (Ball/Screw/Seat)	Shell test (Water)	Seat test (Water)	Seat test (Air)	Shell	Seat Water	Seat Air	Test Result	
1	40	ECON 3PC BUTT WELD BALL VALVE	DN15	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	
2	5	ECON 3PC BUTT WELD BALL VALVE	DN15	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	
3	20	ECON 3PC BUTT WELD BALL VALVE	DN20	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	
4	10	ECON 3PC BUTT WELD BALL VALVE	DN20	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	
5	30	ECON 3PC BUTT WELD BALL VALVE	DN25	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	
6	40	ECON 3PC BUTT WELD BALL VALVE	DN25	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	
7	5	ECON 3PC BUTT WELD BALL VALVE	DN25	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	
8	25	ECON 3PC BUTT WELD BALL VALVE	DN25	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	
9	15	ECON 3PC BUTT WELD BALL VALVE	DN32	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	
10	15	ECON 3PC BUTT WELD BALL VALVE	DN40	PN63		94.5Bar	15SEC	6Bar	15SEC	Acceptable	Acceptable	Acceptable	

Test Results

Test Item		Result
Check of Calculation and safety Requirements acc. to		Acceptable
Visual and functional tests		Acceptable
NDE, material certificates (see material certificate, as annex)		Acceptable
Annexes/ 1) Material certificates of pressure parts 2) Material list of other parts		N/A

It is hereby certified that above results are true and correct in every detail.
Place: Taiwan Taichung
Date: 2004/06/11
Works inspector

Taiwan Valve Co., Ltd.