

From: [Vernon Uy](#)
To: [Green, Frank;](#)
cc: [Daly, Keith; Peppers, Nicki;](#)
Subject: Contract 8078, Ball Valves Equipment Submittals
Date: Thursday, February 03, 2011 9:54:00 AM
Attachments: [BallValves-CatalogueCuts.pdf](#)
[BallValves-RAMForm.pdf](#)
[TransmittalSheet.pdf](#)

Hi Frank.

Attached you'll find the submittals for the Ball Valves equipment: RAM and Catalogue Cut.

Hard copies are in the mail.

Vernon Uy
American Construction Company, Inc.
(425) 870-3217

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Marine Construction Dredging Pile Driving

1501 Taylor Way • Tacoma, Washington 98421

PHONES: Tacoma (253) 254-0118,

Seattle (206) 623-0114,

Fax (253) 254-0155



**AMERICAN
CONSTRUCTION COMPANY**

CONTRACTORS LIC NO. 223-01-AM-ER-IC*372 NO.

DATE February 3, 2011

TO:

Columbia River Crossing Project Office
700 Washington Street, Suite 300
Vancouver, WA 98660

Attn: Frank Green, P.E.

JOB #: MC 02-11

TITLE: Columbia River Bridge Temporary
Pile Test Program (#8078)

THE FOLLOWING ITEMS ARE BEING SENT:

Herewith

Under Separate Cover

Direct

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

QUANTITY	DESCRIPTION
4 EA	RAM for Ball Valves equipment (from Ta-Chen Industrial)
4 EA	Catalogue Cut of Ball Valves equipment (from Ta-Chen Industrial)

These items are being sent:

- Per your request
- Please keep us advised of action taken
- For you to process
- For your inspection and approval
- For your general information and file
- For your approval or corrections

REMARKS:

Please contact us promptly if there is a problem or question

COPY TO:

[Empty box for copy to]

AMERICAN CONSTRUCTION COMPANY, INC.

BY:

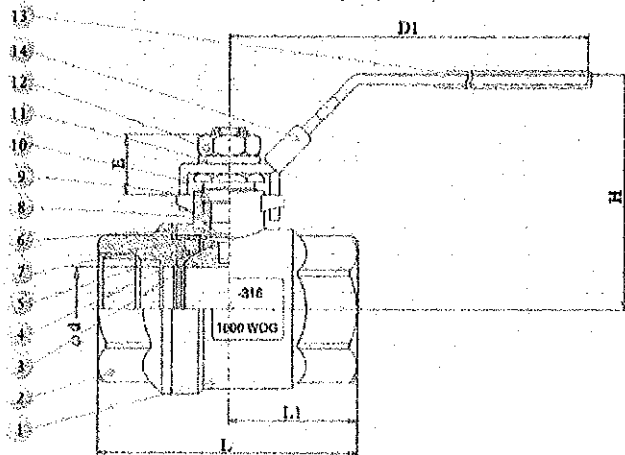
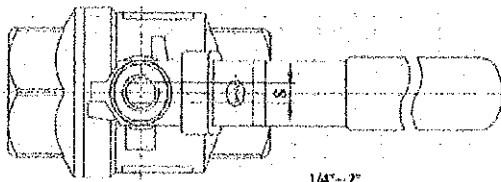
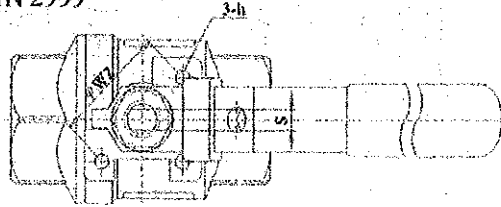
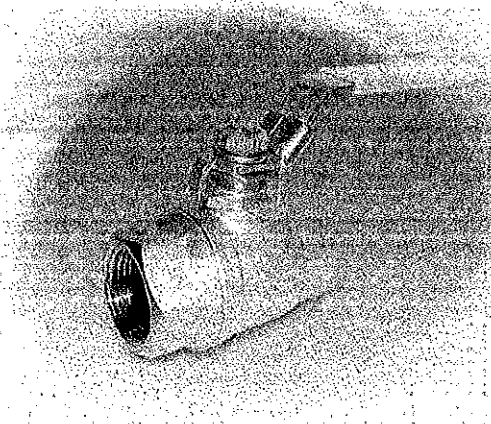
Vernon Uy

TC-02X

2PC FULL PORT 1000 WOG BALL VALVE, THREADED

DESIGN FEATURES:

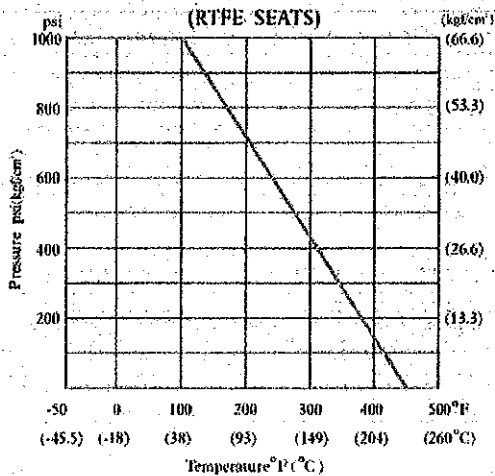
- Blow-out-proof stem design
- Temperature Range: -50° F to 450° F
- Options: locking device
- TEST STANDARD: API 598
- Vacuum Service to 29" Hg
- Threaded Type:
ANSI B1.20.1 (NPT)
DIN 259/DIN 2999
ISO 228
BSP
PT



MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY
1	BODY	ASTM A351 Gr.CF8M	1
2	CAP	ASTM A351 Gr.CF8M	1
3	BALL	ASTM A351 Gr.CF8M	1
4	STEM	ASTM A276 Gr.316	1
5	SEAT	PTFE+15% G/F	2
6	GASKET	PTFE	1
7	THRUST WASHER	PTFE	1
8	PACKING	PTFE	1
9	GLAND	SS304	1
10	HANDLE	SS304	1
11	SPRING WASHER	SS304	1
12	HANDLE NUT	SS304	1
13	HANDLE SLEEVE	VINYL GRIP	1
14	LOCKING PLATE	SS304	1

PRESSURE TEMPERATURE RATINGS



DIMENSIONS

SIZE	A	E	L	L1	H	S	D1	W2	b	Cc	Weight										
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	Factor	Kg	Lb									
1/4"	8	0.43	11.0	0.61	15.5	2.28	67.3	1.13	28.0	2.25	61.2	0.21	5.45	4.06	103	16	0.26	0.57			
3/8"	10	0.49	12.5	0.61	15.5	2.28	67.3	1.13	28.0	2.25	61.2	0.21	5.45	4.06	103	16	0.24	0.53			
1/2"	15	0.59	15.0	0.57	14.5	2.43	61.7	1.21	30.7	2.39	59.1	0.21	5.45	4.06	103	26	0.50	0.66			
3/4"	20	0.79	20.0	0.83	21.0	2.76	70.1	1.38	35.0	2.46	62.6	0.21	5.45	4.06	103	55	0.42	0.93			
1"	25	0.93	25.0	0.77	19.5	3.30	81.3	1.58	40.2	2.78	70.7	0.24	6.29	5.60	127	110	0.70	1.54			
1 1/4"	32	1.26	32.0	1.09	27.9	3.78	96.0	1.86	47.2	3.66	76.2	0.24	6.29	6.00	127	180	1.10	2.42			
1 1/2"	40	1.59	38.0	1.50	27.5	4.43	112.5	2.19	55.6	3.51	81.1	0.27	9.49	6.02	153	270	1.86	4.10			
2"	50	2.06	50.8	1.98	26.7	4.96	126.0	2.46	62.1	3.87	98.2	0.27	9.49	7.65	193	390	2.85	6.28			
2 1/2"	65	2.56	65.0	1.62	26.0	6.63	168.5	3.26	85.0	4.35	110.6	0.27	9.49	7.60	193	2.76	7.70	MS*P1.25	890	6.25	13.77
3"	80	3.16	80.0	1.50	38.0	7.51	191.1	3.78	96.3	4.84	121.0	0.47	12.00	10.98	279	4.02	10.2	M10*P1.5	1150	10.42	22.95
4"	100	3.94	100.0	1.89	48.0	8.52	216.5	4.26	108.3	6.63	168.5	0.47	16.00	13.19	335	4.02	10.2	M10*P1.5	2120	17.20	37.69