From: Vernon Uy
To: Green, Frank;

cc: <u>Daly, Keith; Peppers, Nicki;</u>

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 <u>Ball Valves</u> 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



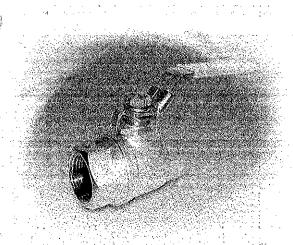


CONTRACTORS	LIC NO. 223-01-AM-ER-IC 3/2 NO.							
			DATE February 3, 2011					
CCAC I	a River Crossing Project Office	JOB #:	MC 02-11					
700 was	hington Street, Suite 300 er, WA 98660	TITLE:						
Attn: Fra	ank Green, P.E.							
THE FOLLOWIN	IG ITEMS ARE BEING SENT:	Herewith Under Separate Cover Direct	X					
QUANTITY		DESCRIPTION						
4 EA	RAM for Ball Valves equipment (fro	om Ta-Chen Industrial)						
4 EA	Catalogue Cut of Ball Valves equipr	ment (from Ta-Chen Industri	al)					
. "								
Γhese items are bei	ng sent:							
	your request							
	se keep us advised of action taken you to process							
	your inspection and approval							
X For	your general information and file		41 -					
X For	your approval or corrections							
REMARKS:								
v								
Please contact us p	romptly if there is a problem or questi	on AMERICAN COM	STRUCTION COMPANY, INC.					
COPY TO:		BY:	5					
			Vernon Uy					



Request for Approval of Material

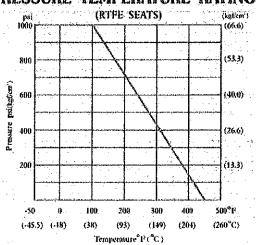
	·		<u> </u>			
Contract	8078	FA Number		_ SR T-	5 Date	23/11
Section 1-5	Columbia River Bridge	(WA 0.3 to OR	MP 308)	Coun	VA AND OR	states
Contracto AMEK	OF .		Subcontracto)r		,
	n shall be completed prior t		is not complet	e at time of	Ear Weno	T Use Only
submitta	I it may be returned for info istance in completing, se	rmation that was omitte	ed.		RAM#	I OSC OHLY
Bid	Material or	Name and Location		Specification	PE/QPL	Hdqtr./QPL
Item No.	Product/Type	Manufacturer or F		Reference	Code	Code
2&3	Furnish manifold	TA-CHEN INDA	nstrial	SPECIAL PROVISION	S	
	for both confined	5855 Ispo A		page 98		
	AND UNCOMEINED	long Beach, CA	90805			·
	BUBBLE CURTAINS	3 5				
			and the second s			
	BALL VALVES					
· · · · · · · · ·						
Project Er	ngineer	Date	State Materials	Engineer		Date
	Accentance Acti	on Codes for use by Pro	lect Engineer at	nd State Material	s Laboratory	
1. Accen		ased upon 'Satisfactory' Test				ject.
	-	Compliance for 'Acceptance' p				
	•	for 'Acceptance' prior to use of Drawings for 'Approval' prior i			Yes ∐ No	
		ed for Shipment', 'WSDOT Ins			i' material shall be u	sed.
•	tance Criteria: Submit Certifi	cate of Materials Origin to Pro	ject Engineer Offic	e.		
-		smitted to State Materials Lat	oratory for Approv	ai Action.		
8. Source	e Approved:				-	
9. Appro	oval Withheld: Submit sample	es for preliminary evaluation.				
	oval Withheld: Ilaneóus Acceptance Criteria.					
Remarks		Ottorio		•		
				•		
				,		
	<u> </u>			,		N.H 2 448 + 8
-	ngineer Distribution			Materials Engine		anaction
☐ Contra		egion Materials		eneral File her	Signing tr	ispection
		ate Materials Lab S 47365	II O1			



MATERIALS LIST

NO.	PART NAME	MATÉRIAL	QTY
1	RODA	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	S\$304	1
10	HANDLE	SS304	1
11	SPRING WASHER	\$\$304	1
12	HANDLE NUT	SS304	1
13	HANDLE SLEEVE	VINYL GRIP	1
14	LOCKING PLATE	SS304	1

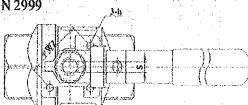
PRESSURE TEMPERATURE RATINGS



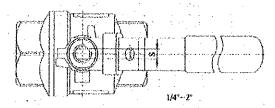
DESIGN FEATURES:

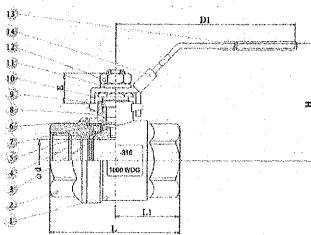
- 3 Blow-out-proof stem design
- Temperature Range: -50° F to 450° F
- Options: locking device
- TEST STANDARD: API 598
- Vacuum Service to 29" Hg
- Threaded Type: ANSI B1.20.1 (NPT) DIN 259/DIN 2999

ISO 228 BSP PT



21/2"~4"





DIMENSIONS

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ingh	prin	lach	TT US	hýh	6 /18	!sch	NO PE	meh	(E:rE)	toch	цm	inch	uae	isch	1190	inch.	nen	(Option)	FAGU	Kg	[ib
1/4"	*	0.43	11.0	0.61	15.5	228	67.8	1.13	28.8	225	51.2	021	5,45	4.06	:03	1		1	16	11.26	0.57
3/8	10	0.49	125	061	15.5	323	1.7.3	1.13	28.8	2.25	57.2	0.21	5.45	4 (4)	103	1	1		16	9.81	0.53
1/2"	15	0.59	150	057	14.5	2.43	61.7	1,21	30.7	8.3	59,1	621	5 45	416	103	1		-	26	0,0	11.66
3/4	819	0.79	200	0.83	21.0	276	70 1	138	35.0	2.16	62.6	(12)	5.1	4.04	103	***	1	34-4-4	55	0.12	0.93
Į¥	25	6.98	25,0	0.27	19.5	3.20	81.3	i.38	10.2	2.78	70.7	924	6.20	500	127	1	5		110	0.70	154
3.J/4°	32	126	32.0	.09	27.9	3,78	96.0	:85	47.2	3.00	76.2	0.24	6.20	6.03	127	\sum	1	7	150	1.10	2/12
1 1/2	46	1,59	38.0	1.50	27,5	1.43	1185	2,19	55.6	3.51	(i).j	037	9.43	50,5	153		5	, , , , , , , , , , , , , , , , , , ,	270	1.86	1.10
2	(3)	290	508	1.58	26.7	4.96	126.0	246	(8.1	3.87	123.2	937	9.40	7.65	93	\leq			500	2.85	6.28
2 1/2	65	2.65	650	163	26.0	6.63	165.5	3,35	85,8	4.35	110.6	3.37	9.40	7,60	193	2,76	70	MS*P1.86	800	6.25	13.77
3	酚	335	65,0	150	38.0	751	1914	3,33	95.)	4.83	121.0	0,47	13.00	10.95	279	4,62	102	M10°P1.5	1150	10.42	79.9
4	100	3.94	160.6	1.89	48,0	8.33	1165	126	108.3	6.63	1683	0.47	16.00	1319	.85	1.(3	102	M)0°P15	2120	17 20	37.89

