



99 ESTIMATORS

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GATTEX-LUFKIN, TX, NEW FACILITY

OWNER

ARCHITECT

ADDENDA

Addendum Issued: NONE

Please review any Addendum issued after Date
03/13/25

ID: -1756

BIDDER NAME: _____

99 ESTIMATORS

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
			010000	DIVISION 01 - GENERAL REQUIREMENTS									
1				MOBILIZATION	1	LS							
2				BOND & INSURANCE	1	LS							
3				SUPERVISION	1	LS							
4				SUBMITTALS & SAMPLES	1	LS							
5				TEMPORARY FACILITIES & CONTROLS	1	LS							
6				PROJECT SCHEDULE	1	LS							
7				CLOSEOUT PROCEDURES	1	LS							
8				PERMITS	1	LS							
				Subtotal									
			400000	DIVISION 40 - PROCESS INTERCONNECTIONS									
				UTILITY PIPING									
				316 SS PIPE									
9				(1") CPA-32210-SS3	25	LF							
10				(1") CPA-33110-SS3	25	LF							
11				(1") CPA-33310-SS3	25	LF							
12				(1") N2-33113-SS3	25	LF							
13				(1") N2-33213-SS3	25	LF							
14				(1") N2-33313-SS3	25	LF							
15				(1")-CPA-11108-SS3	30	LF							
16				(1")-CPA-22109-SS3	25	LF							
17				(1")-CPA-32112-SS3	10	LF							
18				(1")-CPA-3310-SS3	25	LF							
19				(1")-CPA-33110-SS3	6	LF							
20				(1")-CPA-33210-SS3	6	LF							
21				(1")-CPA-33310-SS3	8	LF							
22				(1")-CPA-33310-SS3	5	LF							
23				(1")-CPA-35110-SS3	32	LF							
24				(1")-CPA-35111-SS3	15	LF							
25				(1")-CPA-36110-SS3	12	LF							
26				(1")-CPA-36111-SS3	35	LF							
27				(1")-CPA-41109-SS3	15	LF							
28				(1")-N2-12110-SS3	9	LF							
29				(1")-N2-12304-SS3	98	LF							
30				(1")-N2-24111-SS3	10	LF							
31				(1")-N2-33112-SS3	28	LF							
32				(1")-N2-33212-SS3	15	LF							
33				(1")-N2-33313-SS3	60	LF							
34				(1")-N2-35112-SS3	30	LF							
35				(1")-N2-35112-SS3	25	LF							
36				(1")-N2-93106-SS3	16	LF							
37				(1-1/2")-CPA-32112-SS3	10	LF							
38				(2") CWR-42119-SS3-C	25	LF							
39				(2") CWS-42118-SS3-C	30	LF							
40				(2") HSW-12305-SS3	30	LF							
41				(2") HSW-2214-SS3-H	45	LF							
42				(2")-HSW-22113-SS3-H	50	LF							
43				(2")-HSW-22114-SS3-H	20	LF							
44				(2")-N2-13109-SS3	25	LF							
45				(2")-N2-36112-SS3	55	LF							
46				(2")-N2-4111-SS3	6	LF							
47				(2-1/2") HSW-33104-SS3-H	20	LF							
48				(2-1/2") HSW-33204-SS3-H	20	LF							
49				(2-1/2") HSW-33304-SS3-H	20	LF							
50				(2-1/2")-HSW-22108-SS3-H	20	LF							
51				(2-1/2")-HSW-24116-SS3-H	20	LF							
52				(2-1/2")-HSW-32111-SS3-H	20	LF							
53				(2-1/2")-HSW-33104-SS3-H	50	LF							
54				(2-1/2")-HSW-33304-SS3-C	10	LF							
55				(2-1/2")-HSW-33304-SS3-H	10	LF							
56				(2-1/2")-HSW-35104-SS3-H	70	LF							
57				(2-1/2")-HSW-35107-SS3-H	16	LF							
58				(2-1/2")-HSW-36104-SS3-H	12	LF							
59				(2-1/2")-HSW-36107-SS3-H	40	LF							
60				(2-1/2")-HSW-41108-SS3-H	15	LF							
61				(2-1/2")-HSW-93101-SS3-H	25	LF							
62				(4") CWS-42108-SS3-C	43	LF							
63				(4") CWS-42109-SS3-C	45	LF							
64				(4") VENT-12202-SS1-H	150	LF							
65				(4") VENT-XXX2-SS1-H	35	LF							
66				(4") VENT-XXX4-SS3-C	45	LF							
67				(4") VENT-XXX4-SS4-C	30	LF							
68				(4")-VENT-33103-SS1	20	LF							
69				(4")-VENT-44105-SS1-ETH	15	LF							
70				(8")-VENT-42112-SS3-C	45	LF							
				PRODUCT PIPING									
				316 SS PIPE									
71				(1/2")-PRO-71103-SS1-ETH	95	LF							
72				(1-1/2")-PRO-32107-SS1-ETH	36	LF							
73				(1-1/2")-PRO-41102-SS1-ETH	7	LF							
74				(1-1/2")-PRO-41104-SS1-ETH	36	LF							
75				(1-1/2")-PRO-42101-SS1-ETH	45	LF							
76				(2")-PRO-32107-SS1-ETH	30	LF							
77				(2")-PRO-32108-SS1-ETH	25	LF							
78				(2")-PRO-71104-SS1-ETH	125	LF							
79				(2")-RMA-12403-SS1-ETH	20	LF							
80				(2")-RMA-22102-SS1-ETH	80	LF							
81				(2")-RMA-24134-SS1-H	35	LF							
82				(2")-RMA-36114-SS1-ETH	40	LF							
83				(2")-STM-24114-SS4-H	40	LF							
84				(2")-THF-41113-SS2-ETH	6	LF							
85				(2")-THF-42104-SS2-ETH	5	LF							
86				(2-1/2")-PRO-24120-SS1-ETH	20	LF							
87				(2-1/2")-PRO-25100-SS1-ETH	33	LF							
88				(2-1/2")-PRO-32101-S1-ETH	25	LF							
89				(2-1/2")-PRO-32103-SS1-ETH	72	LF							
90				(2-1/2")-PRO-32104-SS1-ETH	5	LF							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
91				(2-1/2")-PRO-32105-SS1-ETH	55	LF							
92				(2-1/2")-PRO-32106-SS1-ETH	65	LF							
93				(2-1/2")-PRO-32109-SS1-ETH	50	LF							
94				(2-1/2")-PRO-33101-SS1-ETH	5	LF							
95				(2-1/2")-PRO-33102-SS1-ETH	35	LF							
96				(2-1/2")-PRO-33104-SS1-ETH	41	LF							
97				(2-1/2")-PRO-33202-SS1-ETH	50	LF							
98				(2-1/2")-PRO-33301-SS1-ETH	50	LF							
99				(2-1/2")-PRO-35101-SS1-ETH	10	LF							
100				(2-1/2")-PRO-35102-SS1-ETH	160	LF							
101				(2-1/2")-PRO-36102-SS1-ETH	56	LF							
102				(2-1/2")-PRO-41101-SS1-ETH	6	LF							
103				(2-1/2")-PRO-XX25-SS1-ETH	25	LF							
104				(2-1/2")-RMA-11101-SS1-ETH	57	LF							
105				(2-1/2")-RMA-12403-SS1-ETH	721	LF							
106				(2-1/2")-RMA-13108-SS1-ETH	280	LF							
107				(3")-RMA-11102-SS1-ETH	70	LF							
108				(3")-HSW-11108-SS3-ETH	25	LF							
109				(3")-RMA-11102-SS1-ETH	550	LF							
110				(3")-THF-93101-CS1-H	95	LF							
111				(3")-THF-93102-CS1-H	80	LF							
112				(4")-RMA-22101-SS1-ETH	40	LF							
				INSULATION									
113				(2") TYPE "C" INSULATION	220	LF							
114				(2") TYPE "ETH" INSULATION	3070	LF							
115				(2") TYPE "H" INSULATION	845	LF							
				EQUIPMENTS & VALVES									
116				100 GAL. TANK EXPANSION	1	EA							
117				55 GAL DRUM	1	EA							
118				55 GAL. DRUM PUMP	1	EA							
119				A36120 MIXING TANK 1 AGITATOR 10HP	1	EA							
120				B-16-003 - CENTRIFUGAL BLOWER	1	EA							
121				BFP22170 - BACKFLOW PREVENTER	1	EA							
122				CIRCULATION PUMP	1	EA							
123				CONDENSATE RECEIVER	1	EA							
124				CV1110001 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
125				CV1110002 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
126				CV1110003 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
127				CV1110004 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
128				CV1110005 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
129				CV1110008 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
130				CV1110009 - CHECK VALVE - 3" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-M-SS-EP-0.50-SS	1	EA							
131				CV1210001 - CHECK VALVE - 2.5" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	1	EA							
132				CV1210002 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
133				CV1310001 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
134				CV1310002 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
135				CV1310003 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
136				CV1310004 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
137				CV22100-01 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
138				CV22100-02 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
139				CV22100-03CV22100-03	1	EA							
140				CV22170-01 - CHECK VALVE (NO DETAIL)	1	EA							
141				CV22170-02 - CHECK VALVE (NO DETAIL)	1	EA							
142				CV22170-03 - CHECK VALVE (NO DETAIL)	1	EA							
143				CV22170-04 - CHECK VALVE (NO DETAIL)	1	EA							
144				CV24100-01 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
145				CV24100-02 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
146				CV24100-03 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
147				CV24100-04 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
148				CV24100-05 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							

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149				CV24100-06 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP-0.50-SS	1	EA							
150				CV24100-07 - CHECK VALVE - 2" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-K-SS-AS-0.50-SS	1	EA							
151				CV24100-08 - CHECK VALVE - 1" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	1	EA							
152				CV24100-10 - CHECK VALVE - 2" WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-K-SS-AS-0.50-SS	1	EA							
153				CV27100-01 - CHECK VALVE - 1.5" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-J- SS-EP-0.50-SS	1	EA							
154				CV2710002 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
155				CV32100-02 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
156				CV33100-01 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	3	EA							
157				CV33100-02 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	3	EA							
158				CV33100-03 - CHECK VALVE - WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	3	EA							
159				CV33100-04 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	3	EA							
160				CV33100-05 - CHECK VALVE - WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	3	EA							
161				CV35100-01 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
162				CV35100-02 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
163				CV35100-03 - CHECK VALVE - WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	1	EA							
164				CV35100-04 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
165				CV35100-05 - CHECK VALVE - WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	1	EA							
166				CV36100-01 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
167				CV36100-02 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
168				CV36100-03 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
169				CV36100-04 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
170				CV36100-05 - CHECK VALVE - WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	1	EA							
171				CV36100-06 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
172				CV36100-07 - CHECK VALVE - WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	1	EA							
173				CV41100-01 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
174				CV41100-02 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
175				CV41100-03 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
176				CV4110004 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
177				CV41100-05 - CHECK VALVE - WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	1	EA							
178				CV42100-01 - CHECK VALVE - WATER INSET VALVE. 2.5" BODY - 316SSS BODY MATERIAL - CHECK-ALL - WV-L-SS-EP-0.50-SS	1	EA							
179				CV92-000 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
180				CV92-001 - CHECK VALVE - 1" WATER INSET VALVE - 316SSS BODY MATERIAL - CHECK-ALL - WV-H-SS-EP- 0.50-SS	1	EA							
181				CVXXXXXXX - CHECK VALVE FOR FUTURE	9	EA							
182				DOWNFLOW BOOTH	2	EA							
183				DPHXXXX - (FOR FUTURE) NO DETAIL)	1	EA							
184				E24150 REACTOR CONDENSER	1	EA							
185				EXPANSION TANK	1	EA							
186				FCV24135 - FLOW CONTROL SWITCH - EMERSON - NPS 1 2400CVF 32 SIZE 32 DVC2000 FACTORYMTGS DVC6200/DVC2000	1	EA							

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187				FCXXXX - FLOW CONTROL SWITCH FOR FUTURE	1	EA							
188				FIT24154 - FLOW TRANSMETER - MANF& MODEL: E+H - 8F3B08-CSIBADDFADSAASAA3+DEZ1	1	EA							
189				FIT24156 - FLOW TRANSMETER - MANF& MODEL: E+H - 8F3B08-CSIBADDFADSAASAA3+DEZ1	1	EA							
190				FIT24157 - FLOW TRANSMETER - MANF& MODEL: E+H - 8F3B08-CSIBADDFADSAASAA3+DEZ1	1	EA							
191				FIT27116 - FLOW TRANSMETER - MANF& MODEL: E+H - 5W3B40-CSEIBADDFADUAI1S0AA2+DAZ1	1	EA							
192				FIT93138 - FLOW TRANSMETER - MANF& MODEL: E+H - 5W3B40-CSEIBADDFADUAI1S0AA2+DAZ1	1	EA							
193				FITXXX - FLOW TRANSMETER	1	EA							
194				FLEX1100-01 - 3" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 48RFRT-48FCL48CLSS-72	1	EA							
195				FLEX1100-02 - 3" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 48RFRT-48FCL48CLSS-72	1	EA							
196				FLEX1100-03 - 3" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 48RFRT-48FCL48CLSS-72	1	EA							
197				FLEX1100-04 - 3" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 48RFRT-48FCL48CLSS-72	1	EA							
198				FLEX11100-01 - 3" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 48RFRT-48FCL48CLSS-72	1	EA							
199				FLEX11140-01 - 3" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 48RFRT-48FCL48CLSS-72	1	EA							
200				FLEX12100-01 - 3" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 48RFRT-48FCL48CLSS-72	1	EA							
201				FLEX22100-01 - 2" ID 316L CORRUGATED SS W/ SEAMLESS PTFE HOSE; 2"x2" FLANGE - RUBBER FAB - 32RFSSHT-32FLA32FLASS-18	1	EA							
202				FLEX22100-02 - 1" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 16RFSSHT-16FLA16FLASS-18	1	EA							
203				FLEX22100-03 - 4" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 64RFSSHT-64FLA64FLASS-18	1	EA							
204				FLEX22100-04 - 2" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFRT-40FCL40CLSS-72	1	EA							
205				FLEX22100-05 - 2" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFRT-40FCL40CLSS-72	1	EA							
206				FLEX22100-06 - 4" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 64RFSSHT-64FLA64FLASS-18	1	EA							
207				FLEX22100-08 - 2.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFSSHT-32FLA32FLASS-18	1	EA							
208				FLEX22100-09 - 2.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFSSHT-32FLA32FLASS-18	1	EA							
209				FLEX22100-10 - 4" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 64RFSSHT-64FLA64FLASS-18	1	EA							
210				FLEX22100-11 - 1.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 24RFSSHT-32FLA32FLASS-18	1	EA							
211				FLEX22100-12 - 1.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 24RFSSHT-32FLA32FLASS-18	1	EA							
212				FLEX22100-13 - 2" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFRT-40FCL40CLSS-72	1	EA							
213				FLEX22100-14 - 2" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFRT-40FCL40CLSS-72	1	EA							
214				FLEX24100-01 - 2.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFSSHT-32FLA32FLASS-18	1	EA							
215				FLEX25100-01 - 2" ID 316L CORRUGATED SS W/ SEAMLESS PTFE HOSE; 2"x2" FLANGE - RUBBER FAB - 32RFSSHT-32FLA32FLASS-18	1	EA							
216				FLEX25100-02 - 2" ID 316L CORRUGATED SS W/ SEAMLESS PTFE HOSE; 2"x2" FLANGE - RUBBER FAB - 32RFSSHT-32FLA32FLASS-18	1	EA							
217				FLEX25100-04 - 2" ID 316L CORRUGATED SS W/ SEAMLESS PTFE HOSE; 2"x2" FLANGE - RUBBER FAB - 32RFSSHT-32FLA32FLASS-18	1	EA							
218				FLEX25100-05 - 2" ID 316L CORRUGATED SS W/ SEAMLESS PTFE HOSE; 2"x2" FLANGE - RUBBER FAB - 32RFSSHT-32FLA32FLASS-18	1	EA							
219				FLEX25100-06 - 2" ID 316L CORRUGATED SS W/ SEAMLESS PTFE HOSE; 2"x2" FLANGE - RUBBER FAB - 32RFSSHT-32FLA32FLASS-18	1	EA							
220				FLEX25100-07 - 2.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFSSHT-32FLA32FLASS-18	1	EA							
221				FLEX32100-01 - 2.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFRT-40FCL40CLSS-72	6	EA							
222				FLEX35100-01 - 2.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFRT-40FCL40CLSS-72	1	EA							
223				FLEX36100-01 - 1" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 16RFSSHT-16FLA16FLASS-18	1	EA							

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							Manhour / Unit	\$/HOUR	COST				
224				FLEX36100-02 - 2.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFRTP- 40FCL40CLSS-72	1	EA							
225				FLEX36100-03 - 2" ID 316L CORRUGATED SS W/ SEAMLESS PTFE HOSE; 2"x2" FLANGE - RUBBER FAB - 32RFSSHT-32FLA32FLASS-18	1	EA							
226				FLEX36100-04 - 2" ID 316L CORRUGATED SS W/ SEAMLESS PTFE HOSE; 2"x2" FLANGE - RUBBER FAB - 32RFSSHT-32FLA32FLASS-18	5	EA							
227				FLEX36100-09 - 2.5" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 40RFSST- 32FLA32FLASS-18	1	EA							
228				FLEX36100-10 - 2" ID 316L CORRUGATED SS W/ SEAMLESS PTFE HOSE; 2"x2" FLANGE - RUBBER FAB - 32RFSSHT-32FLA32FLASS-18	1	EA							
229				FLEX92-000 - 1" ID SEAMLESS WHITE HEAVY WALL PTFE TUBE, EPDM COVER - RUBBER FAB - 16RFSST- 16FLA16FLASS-18	1	EA							
230				FT24135 - COMBINATION DEADERATOR THERMAL BUFFER/ EXPANSION	1	EA							
231				FT27115 - COMBINATION DEADERATOR THERMAL BUFFER/ EXPANSION	1	EA							
232				FT41141 - COMBINATION DEADERATOR THERMAL BUFFER/ EXPANSION	1	EA							
233				FT-XXXX - COMBINATION DEADERATOR THERMAL BUFFER/ EXPANSION	1	EA							
234				FT-XXXX - HEATER ASSEMBLY (FOR FUTURE)	2	EA							
235				HEAT EXCHANGER	1	EA							
236				HP-16-001 - BULK BAG UNLOADING	1	EA							
237				HV1110010 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
238				HV1110011 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
239				HV1110012 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
240				HV1110013 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
241				HV1110015 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
242				HV1110016 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
243				HV111002 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
244				HV1110023 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
245				HV1110024 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
246				HV1110025 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
247				HV1110026 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
248				HV1110027 - HANDVALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66- TE-M	1	EA							
249				HV1110028 - HAND VALVE - 3" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY, BALL & STEM MATERIAL - SHARPE - 3" 13-66-BW 10-R	1	EA							
250				HV1110029 - HANDVALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66- TE-M	1	EA							
251				HV111003 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
252				HV1110030 - HAND VALVE - 1/2" SERIES - 13 THREEPIECE BALL VALVE; 316 SS BODY, BALL & STEM MATERIAL - SHARPE - 1/2"13-66-TE-M	1	EA							
253				HV1110031 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
254				HV1110034 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
255				HV111004 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
256				HV111005 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
257				HV111006 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
258				HV111007 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
259				HV111008 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
260				HV111009 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							
261				HV111014 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300- 316L-W-10-H-T-32-06	1	EA							

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262				HV1114001 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
263				HV1210002 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
264				HV1210004 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	3	EA							
265				HV1210005 - HAND VALVE - SERIES 13; 1" 13-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1/2"- 13-66-TE-M	2	EA							
266				HV1210006 - HAND VALVE - SERIES 13; 1" 13-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1/2"- 13-66-TE-M	1	EA							
267				HV1210006 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
268				HV1210007 - HAND VALVE - SERIES 13; 1" 13-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1/2"- 13-66-TE-M	1	EA							
269				HV1210008 - HAND VALVE - 2-1/2" SERIES 13; 1" 3- PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 2-1/2"-13-66-BW10-R	1	EA							
270				HV1210009 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
271				HV1210010 - HAND VALVE - 2-1/2" SERIES 13; 1" 3- PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 2-1/2"-13-66-BW10-R	1	EA							
272				HV1210011 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
273				HV1210012 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
274				HV1210013 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
275				HV1210015 - HAND VALVE - 2-1/2" SERIES 13; 1" 3- PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 2-1/2"-13-66-BW10-R	1	EA							
276				HV1213004 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
277				HV1214001 - HAND VALVE - KEY: 300-316L-W-25-H-T-32- 06 MODEL: 300 SERIES - 2 WAY BALL VALVE - MANUF& MODEL: SPX - 300-316L-W-25-H-T-32-06	3	EA							
278				HV1220001 - HAND VALVE - KEY: 300-316L-W-25-H-T-32- 06 MODEL: 300 SERIES - 2 WAY BALL VALVE - MANUF& MODEL: SPX - 300-316L-W-25-H-T-32-06	4	EA							
279				HV1220002 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	2	EA							
280				HV1220003 - HAND VALVE - KEY: 300-316L-W-25-H-T-32- 06 MODEL: 300 SERIES - 2 WAY BALL VALVE - MANUF& MODEL: SPX - 300-316L-W-25-H-T-32-06	4	EA							
281				HV1220007 - HAND VALVE - (NO DETAIL)	1	EA							
282				HV1224001 - HAND VALVE - KEY: 300-316L-W-25-H-T-32- 06 MODEL: 300 SERIES - 2 WAY BALL VALVE - MANUF& MODEL: SPX - 300-316L-W-25-H-T-32-06	1	EA							
283				HV1224001 - HAND VALVE - KEY: 300-316L-W-25-H-T-32- 06 MODEL: 300 SERIES - 2 WAY BALL VALVE - MANUF& MODEL: SPX - 300-316L-W-25-H-T-32-06	2	EA							
284				HV1224004 - HAND VALVE - KEY: 300-316L-W-25-H-T-32- 06 MODEL: 300 SERIES - 2 WAY BALL VALVE - MANUF& MODEL: SPX - 300-316L-W-10-H-T-32-06	1	EA							
285				HV1230002 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
286				HV1230005 - HAND VALVE - SERIES 13; 1" 13-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1/2"- 13-66-TE-M	1	EA							
287				HV1230007 - HAND VALVE - (NO DETAIL)	1	EA							
288				HV1240005 - HAND VALVE - SERIES 13; 1/2" 13-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1/2"- 13-66-TE-M	1	EA							
289				HV1240007 - HAND VALVE - (NO DETAIL)	1	EA							
290				HV1240008 - HAND VALVE - (NO DETAIL)	1	EA							
291				HV1310002 - HAND VALVE - 1" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
292				HV1310003 - HAND VALVE - 1" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
293				HV1310004 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66- TE-M	1	EA							
294				HV1310006 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66- TE-M	1	EA							
295				HV22100-01 - HAND VALVE - 2-1/2" SERIES 13; 1" 3- PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 2-1/2"-13-66-BW10-R	1	EA							
296				HV22100-02 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
297				HV22100-03 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
298				HV22100-04 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66- TE-M	1	EA							

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299				HV22100-05 - HAND VALVE - KEY: 300-316L-W-25-H-T-32-06 MODEL: 300 SERIES - 2 WAY BALL VALVE - MANUF& MODEL: SPX - 300-316L-W-10-H-T-32-06	1	EA							
300				HV22100-06 - HAND VALVE - KEY: 300-316L-W-25-H-T-32-06 MODEL: 300 SERIES - 2 WAY BALL VALVE - MANUF& MODEL: SPX - 300-316L-W-10-H-T-32-06	1	EA							
301				HV22100-08 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
302				HV22100-10 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
				HV22100-11 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M									
303				HV22100-12 - HAND VALVE - SERIES 13; 1.5" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1.5"-13-6-6-BW40-R	1	EA							
304				HV22100-13 - HAND VALVE - SERIES 13; 1.5" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1.5"-13-6-6-BW40-R	1	EA							
305				HV22170-01 - HAND VALVE (NO DETAIL)	1	EA							
306				HV22170-02 - HAND VALVE (NO DETAIL)	1	EA							
307				HV22170-03 - HAND VALVE (NO DETAIL)	1	EA							
308				HV22170-05 - HAND VALVE (NO DETAIL)	1	EA							
309				HV22170-06 - HAND VALVE (NO DETAIL)	1	EA							
310				HV22170-07 - HAND VALVE (NO DETAIL)	1	EA							
311				HV22170-08 - HAND VALVE (NO DETAIL)	1	EA							
312				HV22170-09 - HAND VALVE (NO DETAIL)	1	EA							
313				HV22170-10 - HAND VALVE (NO DETAIL)	1	EA							
314				HV22170-11 - HAND VALVE (NO DETAIL)	1	EA							
315				HV22170-12 - HAND VALVE (NO DETAIL)	1	EA							
316				HV22170-13 - HAND VALVE (NO DETAIL)	1	EA							
317				HV22170-14 - HAND VALVE (NO DETAIL)	1	EA							
318				HV22170-15 - HAND VALVE (NO DETAIL)	1	EA							
319				HV22170-16 - HAND VALVE (NO DETAIL)	1	EA							
320				HV22170-17 - HAND VALVE (NO DETAIL)	1	EA							
321				HV22170-18 - HAND VALVE (NO DETAIL)	1	EA							
322				HV24100-01 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
323				HV24100-03 - HAND VALVE - 3" TE2-150-030-696A3 150LB. LUGGED TRIPLE OFFSET CF8M BODY - BRAY - TE2-150-030-696A3 150LB	1	EA							
324				HV24100-04 - HAND VALVE - 3" TE2-150-030-696A3 150LB. LUGGED TRIPLE OFFSET CF8M BODY - BRAY - TE2-150-030-696A3 150LB	1	EA							
325				HV24100-06 - HAND VALVE - 3" TE2-150-030-696A3 150LB. LUGGED TRIPLE OFFSET CF8M BODY - BRAY - TE2-150-030-696A3 150LB	1	EA							
326				HV24100-10 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
327				HV24100-11 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
328				HV24100-12 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
329				HV24100-15 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
330				HV24100-16 - HAND VALVE - 2-1/2" SERIES 13; 3-PIECE BALL VALVE; 316 SS BODY - SHARPE - 2-1/2"-13-66-BW10-R	1	EA							
331				HV24100-18 - HAND VALVE - 3" TE2-150-030-696A3 150LB. LUGGED TRIPLE OFFSET CF8M BODY - BRAY - TE2-150-030-696A3 150LB	1	EA							
332				HV24100-19 - HAND VALVE - 3" TE2-150-030-696A3 150LB. LUGGED TRIPLE OFFSET CF8M BODY - BRAY - TE2-150-030-696A3 150LB	1	EA							
333				HV24120-01 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
334				HV24120-03 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
335				HV24131-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
336				HV24140-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
337				HV24140-02 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
338				HV24140-03 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
339				HV24141-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
340				HV24150-01 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
341				HV24150-03 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
342				HV24160-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
343				HV24160-02 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
344				HV24160-03 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
345				HV24160-04 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
346				HV25100-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
347				HV25100-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
348				HV25100-02 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
349				HV25100-03 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
350				HV25100-04 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
351				HV25100-05 - HAND VALVE - 2" SERIES 13 THREE-PIECE BALL VALVE; 316 SS BODY - SHARPE - 2" 13-66BW10-R	1	EA							
352				HV25100-06 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
353				HV25100-07 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
354				HV25100-08 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
355				HV25100-10 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
356				HV25100-11 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
357				HV25100-12 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
358				HV2710001 - GATE VALVE - 3/4" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY, SHARPE - 3/4" 13-66-TE-M	1	EA							
359				HV2710003 - HAND VALVE - 3/4" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY, SHARPE - 3/4" 13-66-TE-M	1	EA							
360				HV2710005 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
361				HV27100-06 - HAND VALVE - 2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 2"13-66BW10-R	1	EA							
362				HV27100-07 - HAND VALVE - 2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 2"13-66BW10-R	1	EA							
363				HV2710008 - HAND VALVE - 2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 2"13-66BW10-R	1	EA							
364				HV2710009 - HAND VALVE - 2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 2"13-66BW10-R	1	EA							
365				HV27100-10 - 1/2" 1500 PSI CWP FULL PORT BALL VALVE, TWO PIECE BODY - 316 SS BODY - BALL & STEM - SHARPE - 1266-MTE	1	EA							
366				HV27100-11 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
367				HV27100-12 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	2	EA							
368				HV2710002 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
369				HV32100-01 - HAND VALVE - 2-1/2" SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 2-1/2"-13-66-BW10-R	1	EA							
370				HV32100-02 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
371				HV32100-03 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
372				HV32100-04 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
373				HV33100-02 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
374				HV33100-03 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	3	EA							
375				HV33100-04 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	3	EA							
376				HV33100-05 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	3	EA							
377				HV33100-06 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	3	EA							

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378				HV33100-07 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	3	EA							
379				HV33100-08 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	3	EA							
380				HV33100-11 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	3	EA							
381				HV33100-13 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
382				HV33140-02 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	3	EA							
383				HV33200-10 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	2	EA							
384				HV33200-13 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	2	EA							
385				HV35100-02 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
386				HV35100-03 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
387				HV-35100-04 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
388				HV35100-05 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
389				HV35100-06 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
390				HV35100-07 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
391				HV35100-08 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
392				HV35100-13 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
393				HV35100-17 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
394				HV35100-18 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
395				HV35140-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
396				HV35140-02 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
397				HV35140-03 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
398				HV36100-01 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
399				HV36100-02 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
400				HV36100-03 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
401				HV36100-04 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
402				HV36100-05 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
403				HV36100-06 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
404				HV36100-07 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
405				HV36100-08 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
406				HV36100-09 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
407				HV36100-11 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
408				HV36100-12 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
409				HV36140-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
410				HV36140-02 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
411				HV41100-02 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							

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412				HV41100-03 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
413				HV4110004 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
414				HV4110005 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
415				HV41100-06 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
416				HV4110007 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
417				HV4110008 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
418				HV41100-12 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
419				HV41100-13 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
420				HV411009 - HAND VALVE - 2-1/2" SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 2-1/2"-13-66-BW10-R	1	EA							
421				HV41140-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
422				HV41140-02 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
423				HV41170-02 - HAND VALVE - 2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 2"13-66BW10-R	1	EA							
424				HV41170-03 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
425				HV41170-04 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
426				HV41170-05 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
427				HV41170-06 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
428				HV41700-01 - HANDVALVE (NO DETAIL)	1	EA							
429				HV42100-01 - HAND VALVE - SERIES 13; 1.5" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1.5"-13-6-6-BW40-R	1	EA							
430				HV42100-02 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
431				HV42100-03 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
432				HV42100-05 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
433				HV44100-10 - HAND VALVE (NO DETAIL)	1	EA							
434				HV71100-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
435				HV-71100-02 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
436				HV71100-03 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
437				HV71100-05 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
438				HV71100-06 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
439				HV71100-07 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
440				HV71100-08 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"-13-6-6-BW40-R	1	EA							
441				HV71100-09 - HAND VALVE - 1/2" SERIES 13 THREE PIECE BALL VALVE; 316 SS BODY - SHARPE - 1/2"13-66-TE-M	1	EA							
442				HV71100-10 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	2	EA							
443				HV71100-11 - HAND VALVE (NO DETAIL)	1	EA							
444				HV71100-12 - HAND VALVE (NO DETAIL)	1	EA							
445				HV71100-13 - HAND VALVE (NO DETAIL)	1	EA							
446				HV71100-14 - HAND VALVE (NO DETAIL)	1	EA							
447				HV71100-15 - HAND VALVE (NO DETAIL)	1	EA							
448				HV71130-01 - 1/2" 1500 PSI CWP FULL PORT BALL VALVE, TWO PIECE BODY - 316 SS BODY - BALL & STEM - SHARPE - 1266-MTE	1	EA							
449				HV71130-02 - 1/2" 1500 PSI CWP FULL PORT BALL VALVE, TWO PIECE BODY - 316 SS BODY - BALL & STEM - SHARPE - 1266-MTE	1	EA							
450				HV71130-03 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							

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451				HV71130-04 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
452				HV71130-05 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
453				HV71130-06 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
454				HV71130-07 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
455				HV71130-08 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
456				HV72100-01 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
457				HV72100-02 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
458				HV72100-03 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	2	EA							
459				HV72100-04 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
460				HV72100-05 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
461				HV72100-10 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
462				HV72100-11 - HAND VALVE (NO DETAIL)	1	EA							
463				HV72100-12 - HAND VALVE (NO DETAIL)	1	EA							
464				HV72100-13 - HAND VALVE (NO DETAIL)	1	EA							
465				HV72100-14 - HAND VALVE (NO DETAIL)	1	EA							
466				HV72100-15 - HAND VALVE (NO DETAIL)	1	EA							
467				HV72130-01 - 1/2" 1500 PSI CWP FULL PORT BALL VALVE, TWO PIECE BODY - 316 SS BODY - BALL & STEM - SHARPE - 1266-MTE	1	EA							
468				HV72130-02 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
469				HV72130-03 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
470				HV72130-04 - HAND VALVE - 300-316L-W-10-H-T-32-06; MODEL: 300 SERIES - 2 WAY BALL VALVE - SPX - 300-316L-W-10-H-T-32-06	1	EA							
471				HV73100-00 - HAND VALVE (NO DETAIL)	1	EA							
472				HV92000-00 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
473				HV9310002 - HAND VALVE - SERIES 13; 1" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1"- 13-6-6-BW40-R	1	EA							
474				HV9310004 - HAND VALVE (NO DETAIL)	1	EA							
475				HV9310005 - HAND VALVE (NO DETAIL)	1	EA							
476				HV93100-06 - HAND VALVE (NO DETAIL)	1	EA							
477				HV93100-09 - HAND VALVE - SERIES 13; 1.5" 3-PIECE BALL VALVE; SERIES 13; 316 SS BODY - SHARPE - 1.5"- 13-6-6-BW40-R	1	EA							
478				HV96000-01 - HAND VALVE (NO DETAIL)	1	EA							
479				HV96000-02 - HAND VALVE (NO DETAIL)	1	EA							
480				HV96000-04 - HAND VALVE (NO DETAIL)	1	EA							
481				HV960XXXX - HAND VALVE (NO DETAIL)	91	EA							
482				IPHXXXX - FOR FUTURE (NO DETAIL)	1	EA							
483				IPLXXXX - FOR FUTURE (NO DETAIL)	1	EA							
484				K24100 REACTOR-1 2640 GALLON WORKING VOLUME	1	EA							
485				LSH24101 - LEVEL SWITCH HIGH - MANUF& MODEL: E+H	1	EA							
486				LSHH12201 - LEVEL SWITCH HIGH - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	3	EA							
487				LSHH12401 - LEVEL SWITCH HIGH - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							
488				LSHH22101 - LEVEL SWITCH HIGH - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							
489				LSHH25101 - LEVEL SWITCH HIGH - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							
490				LSHH33101 - LEVEL SWITCH HIGH - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	3	EA							
491				LSHH35101 - LEVEL SWITCH HIGH - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							
492				LSHH36101 - LEVEL SWITCH HIGH - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							
493				LSHH41101 - LEVEL SWITCH HIGH - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							
494				LSHHXXXXXX - LEVEL SWITCH HIGH - (FUTURE USE)	5	EA							
495				LSLL12201 - LEVEL SWITCH LOW - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	4	EA							
496				LSLL24103 - LEVEL SWITCH LOW - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							
497				LSLL33103 - LEVEL SWITCH LOW - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	3	EA							
498				LSLL35103 - LEVEL SWITCH LOW - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							
499				LSLL36103 - LEVEL SWITCH LOW - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							
500				LSLL41103 - LEVEL SWITCH LOW - MANUF& MODEL: E+H - FTL51H-AAE2DC2N3A	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
501				LSLLXXXXX - LEVEL SWITCH LOW - (FUTURE USE)	5	EA							
502				LT12202 - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - MANUF& MODEL: E+H - FMR52-AAACBIBOAFK	3	EA							
503				LT12402 - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - MANUF& MODEL: E+H - FMR52-AAACBIBOAFK	1	EA							
504				LT22102 - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - MANUF& MODEL: E+H - FMR52-AAACBIBOAFK	1	EA							
505				LT24101 - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - MANUF& MODEL: E+H - FMR52-AAACBIBOAFK	1	EA							
506				LT25102 - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - MANUF& MODEL: E+H - FMR52-AAACBIBOAFK	1	EA							
507				LT33102 - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - MANUF& MODEL: E+H - FMR52-AAACBIBOAFK	3	EA							
508				LT35102 - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - MANUF& MODEL: E+H - FMR52-AAACBIBOAFK	1	EA							
509				LT36102 - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - MANUF& MODEL: E+H - FMR52-AAACBIBOAFK	1	EA							
510				LT-41102 - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - MANUF& MODEL: E+H - FMR52-AAACBIBOAFK	1	EA							
511				LTXXXXX - LEVEL TRANSMITTER - NPS 2" CI 150, PTFE>316/316L FLANGE ASME B16.5 - (FUTURE USE)	5	EA							
512				P11140 - UNLOADING PUMP - 2065, 316LSS 2.5"x2.0" 150# RF FLANGE, 5.000" Dia IMPELLER, TYPE -1 SEAL - SPX - 2065 10HP 2.5"x2"x5" 3500RPM	1	EA							
513				P12240 - STORAGE TANK 2 DISCHARGE PUMP - SPX - 2065 10HP 2.5"x2"x5" 3500RPM-	1	EA							
514				P22130 - DRUMP PUMP - GRACO - 25C778	1	EA							
515				P22170 - CIRCLATING PUMP	1	EA							
516				P-22171 - STEAM POWERED CONDENSATE PUMP	1	EA							
517				P24140 - REACTOR DISCHARGE PUMP - 2065, 216LSS, 2.5"x2.0" 150# RF FLANGE - SPX - 2065 10HP 2.5"x2"x5"3500RPM	1	EA							
518				P-27140 - PUMP (NO DETAIL)	1	EA							
519				P-33140 - PUMP (NO DETAIL)	3	EA							
520				P35140 - DECANDER DISCHARGE PUMP - 2065, 316LSS, 2.5"x2.0" 150#RF FLANGE, 5.0"Dia IMPELLER, TYPE-1 Seal, INBOUND ROTARY SILICON - SPX - 2065 10HP 2.5"x2"x5"x3500mp	1	EA							
521				P36140 - MIXING TANK DISCHARGE PUMP - 2045, 316LSS, 2.0"x1.5" 150# RF FLANGE - SPX - 2045 5HP 2"x1.5"x4.5" 3500rpm	1	EA							
522				P36170 - MIXING TANK DRUM PUMP - GRACO - 25C778	1	EA							
523				P41140 - PASTILLATOR FEED PUMP - AXIFLOW - STS. C50TCA20T20T20.S2V.22K.00 MTR. CEWDM3615T	1	EA							
524				PASTILLATOR FEED EXCHANGER	2	EA							
525				PCV11135A - PRESSURE CONTROL VALVE - MARK 68G - JORDAN VALVE - JCV-68G-100-S6/F5BBCBJLED0000	1	EA							
526				PCV11136A - PRESSURE CONTROL VALVE - MARK 68G - JORDAN VALVE - JCV-68G-100-S6/F5BBCBJLED0000	1	EA							
527				PCV12135B - PRESSURE CONTROL VALVE - MARK 68G - JORDAN VALVE - JCV-68G-100-S6/F5BBCBJLED0000	1	EA							
528				PCV12136A - PRESSURE CONTROL VALVE - MARK 68G - JORDAN VALVE - JCV-68G-100-S6/F5BBCBJLED0000	1	EA							
529				PCV12235A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL: 1" DN 25 PROCESS CONNECTION - JORDAN VALVE - JCV-68G- 100-S6/F5BBCBJLED0000	3	EA							
530				PCV12335A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL: 1" DN 25 PROCESS CONNECTION - JORDAN VALVE - JCV-68G- 100-S6/F5BBCBJLED0000	1	EA							
531				PCV13335A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL: 1" DN 25 PROCESS CONNECTION - JORDAN VALVE - JCV-68G- 100-S6/F5BBCBJLED0000	1	EA							
532				PCV22135-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL: 1" DN 25 PROCESS CONNECTION - JORDAN VALVE - JCV- 68G-100-S6/F5BBCBJLED0000	1	EA							
533				PCV22135-B - PRESSURE CONTROL VALVE - MARK 518; 1" DN25; SS BODY MATERIAL - JORDAN VALVE - 518-025-S-F-F-P-50-18	1	EA							
534				PCV22136-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL: 1" DN 25 PROCESS CONNECTION - JORDAN VALVE - JCV- 68G-100-S6/F5BBCBJLED0000	1	EA							
535				PCV22178-A - PRESSURE CONTROL VALVE - (NO DETAIL)	1	EA							

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							Manhour / Unit	\$/HOUR	COST				
536				PCV24135-A - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150# FLANGED ENDS; BUNA-N SEALS; 15-45 PSIG SPRING RANGE; JORLON DIAPHRAGM; FOR ELASTOMER DIAPHRAGM ACTUATOR; NO ACCESSORIES NO PED COMPLIANCE REQUIREMENT - JORDAN VALVE - JCV-68G-100-S6/F5BBCBJLED0000	1	EA							
537				PCV24135-B - MARK 518; 1" (DN25) SIZE; STAINLESS STEEL BODY MATERIAL; FLANGE X FLANGE CONNECTIONS; PTFE DIAPHRAGM; 5 TO 22 IN W.W PRESSURE RANGE (13 TO 55 mbar) SEAT SIZE 18 (7.4 Cv (6.5 Kv); 0.71" (18mm) - 1" - Jordan Valve - 518-025-S-F-F-P-50-18	1	EA							
538				PCV24137 - Size, Schedule In: 4 in, SCH STD 54 Mfg/Model: Baumann/Sliding Stem Size, Schedule Out: 4 in, SCH STD 55 Size: 54 Eff Area: Insulation: None 56 On/Off: Modulating: VALVE BODY/BONNET Type: Globe 57 Spring Action: Closed Size: NPS 2 ANSI CL150 58 Max Allow Press: 35 psig Max Press/Temp: 100 deg F 59 Min Req'd Press: Mfg/Model: Baumann/24000CVF 60 Available Air Supply Pressure Body/Bonnet Matl: WCC Steel 61 Max: Min: Liner Matl/ID: 62 Bench Range: 5 to 15 psig End Connection In: CL150 CL150RF 63 Act Orientation: End Connection Out: CL150 CL150RF 64 Handwheel Type: None Flg Face Finish: 65 Air Failure Valve: Closed Set at: End Ext/Matl: 66 Flow Direction: Up 67 Input Signal: 4 to 20 mA dc BONNET Type: Standard 68 POSITIONER Type: I/P - Emerson - NPS 2 V200 2052 Size 1 DVC2000 Factory Mtgs DVC6200/DVC2000	1	EA							
539				PCV24139 - Internally Piloted Pressure Reducing Valve; Stainless steel material; Connection Type Flanged; Cv = 4; Inlet Pressure 100 PSIG; Reduced Pressure 25 PSIG. - Armstrong - GP-1000SS 150 FL 1" CV 4	1	EA							
540				PCV25135 - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150# FLANGED ENDS; BUNA-N SEALS; 15-45 PSIG SPRING RANGE; JORLON DIAPHRAGM; FOR ELASTOMER DIAPHRAGM ACTUATOR; NO ACCESSORIES NO PED COMPLIANCE REQUIREMENT - JORDAN VALVE - JCV-68G-100-S6/F5BBCBJLED0000	1	EA							
541				PCV25136 - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150# FLANGED ENDS; BUNA-N SEALS; 15-45 PSIG SPRING RANGE; JORLON DIAPHRAGM; FOR ELASTOMER DIAPHRAGM ACTUATOR; NO ACCESSORIES NO PED COMPLIANCE REQUIREMENT - JORDAN VALVE - JCV-68G-100-S6/F5BBCBJLED0000	1	EA							
542				PCV27139-A - PRESSURE CONTROL VALVE - INTERNALLY PILOTED PRESSURE REDUCING VALVE - SS MATERIAL - ARMSTRONG - GP-1000SS 150FL 1" CV 4	1	EA							
543				PCV27139B - PRESSURE CONTROL VALVE - INTERNALLY PILOTED PRESSURE REDUCING VALVE - SS MATERIAL - ARMSTRONG - GP-1000SS 150FL 1" CV 4	1	EA							
544				PCV32136 - PRESSURE CONTROL VALVE - (NO DETAIL)	1	EA							
545				PCV33135-A - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
546				PCV33135-B - PRESSURE CONTROL VALVE - MARK 518; 1" DN25; SS BODY MATERIAL - JORDAN VALVE - 518-025-S-F-F-P-50-18	3	EA							
547				PCV33136-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	3	EA							
548				PCV33235-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	2	EA							
549				PCV35135A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
550				PCV35135-B - PRESSURE CONTROL VALVE - MARK 518; 1" DN25; SS BODY MATERIAL - JORDAN VALVE - 518-025-S-F-F-P-50-18	1	EA							
551				PCV35136-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
552				PCV36135-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
553				PCV36135-B - PRESSURE CONTROL VALVE - MARK 518; 1" DN25; SS BODY MATERIAL - JORDAN VALVE - 518-025-S-F-F-P-50-18	1	EA							
554				PCV36136-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
555				PCV41135-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
556				PCV41135-B - PRESSURE CONTROL VALVE - MARK 518; 1" DN25; SS BODY MATERIAL - JORDAN VALVE - 518-025-S-F-F-P-50-18	1	EA							
557				PCV41136-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
558				PCV42136-A - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
559				PCV71135 - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
560				PCV71135-B - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
561				PCV71136 - PRESSURE CONTROL VALVE - (NO DETAIL)	1	EA							
562				PCV72135 - PRESSURE CONTROL VALVE - MARK 68G PRESSURE REDUCER; STANDARD MODEL; 1" DN 25 PROCESS CONNECTIONS; STAINLESS STEEL BODY (CF8M); END CONNECTIONS 150#	1	EA							
563				PCV72136 - PRESSURE CONTROL VALVE - (NO DETAIL)	1	EA							
564				PCV93135 - PRESSURE CONTROL VALVE - MARK 518; 1" DN25; SS BODY MATERIAL - JORDAN VALVE - 518-025-S-F-F-P-50-18	1	EA							
565				PCVXXXXXX - PRESSURE CONTROL VALVE - (NO DETAIL)	9	EA							
566				PI11100-01 - LOCAL PRESSURE INDICATOR - 1009 DIAL SIZE; 35 3-1/2" 1009 SS SYSTEM / 2" NPS FLANGE - ASHCROFT - 35100PSW-04LXC3PS160# - 20ADFSS04T150RFXC3CG	1	EA							
567				PI11100-02 - LOCAL PRESSURE INDICATOR - 1009 DIAL SIZE; 35 3-1/2" 1009 SS SYSTEM / 2" NPS FLANGE - ASHCROFT - 35100PSW-04LXC3PS160# - 20ADFSS04T150RFXC3CG	1	EA							
568				PI11100-03 - LOCAL PRESSURE INDICATOR - 1009 DIAL SIZE; 35 3-1/2" 1009 SS SYSTEM / 2" NPS FLANGE - ASHCROFT - 35100PSW-04LXC3PS160# - 20ADFSS04T150RFXC3CG	1	EA							
569				PI11100-04 - LOCAL PRESSURE INDICATOR - 1009 DIAL SIZE; 35 3-1/2" 1009 SS SYSTEM / 2" NPS FLANGE - ASHCROFT - 35100PSW-04LXC3PS160# - 20ADFSS04T150RFXC3CG	1	EA							
570				PI11100-05 - LOCAL PRESSURE INDICATOR - 1009 DIAL SIZE; 35 3-1/2" 1009 SS SYSTEM / 2" NPS FLANGE - ASHCROFT - 35100PSW-04LXC3PS160# - 20ADFSS04T150RFXC3CG	1	EA							
571				PI11100-08 - LOCAL PRESSURE INDICATOR - 1009 DIAL SIZE; 35 3-1/2" 1009 SS SYSTEM / 2" NPS FLANGE - ASHCROFT - 35100PSW-04LXC3PS160# - 20ADFSS04T150RFXC3CG	1	EA							
572				PI11100-09 - LOCAL PRESSURE INDICATOR - 1009 DIAL SIZE; 35 3-1/2" 1009 SS SYSTEM / 2" NPS FLANGE - ASHCROFT - 35100PSW-04LXC3PS160# - 20ADFSS04T150RFXC3CG	1	EA							
573				PI11100-10 - LOCAL PRESSURE INDICATOR - 1009 DIAL SIZE; 35 3-1/2" 1009 SS SYSTEM / 2" NPS FLANGE - ASHCROFT - 35100PSW-04LXC3PS160# - 20ADFSS04T150RFXC3CG	1	EA							
574				PI12112 - PRESSURE INDICATOR - 1009 DIAL SIZE: 35 3-1/2" 1009 SS SYSTEM - ASHCROFT - 351009SW_04LXC3PS160#	1	EA							
575				PI12113 - PRESSURE INDICATOR - 1009 DIAL SIZE: 35 3-1/2" 1009 SS SYSTEM - ASHCROFT - 351009SW_04LXC3PS160#	1	EA							
576				PI12211 - N5500 LOW PRESSURE CAPSULE GAUGE - ASHCROFT - 16N5500-S-D-04-L-150W-PD-C3	2	EA							
577				PI12249 - 1009 DIAL SIZE: (35) 3-1/2" . 1009 SS SYS. 316 SS TUBE/316L SS PROCESS CONNECTION - ASHCROFT - 351009SW-04LXC3PS160# / 2" NPS FLANGE DIMENSION - 20ADFSS04T150RFXC3CG	2	EA							
578				PI12311 - N5500 LOW PRESSURE CAPSULE GAUGE - ASHCROFT - 16N5500-S-D-04-L-150W-PD-C3	1	EA							
579				PI12411 - N5500 LOW PRESSURE CAPSULE GAUGE - ASHCROFT - 16N5500-S-D-04-L-150W-PD-C3	1	EA							

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							Manhour / Unit	\$/HOUR	COST				
580				PI13111 - N5500 LOW PRESSURE CAPSULE GAUGE - ASHCROFT - 16N5500-S-D-04-L-150IW-PD-C3	1	EA							
581				PI22111 - POST INDICATOR VALVE - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - ASHCROFT - 351009SW_04LXC3PS160#	1	EA							
582				PI22112 - PRESSURE INDICATOR VALVE - N5500 Low Pressure Capsule Gauge; 316Ti SS Capsule; 316SS Process Connections; Dry-Case- 1/2" NPT Male Process Connection Size; Lower process Connection Location; Pressure Range 150 INWC; Polycarbonate Windowdown; Certificate according to EN 10204 3.1 C3 - Ashcroft - 16N5500-S-D-04-L-150IW-PD-C3	1	EA							
583				PI22113 - PRESSURE INDICATOR VALVE - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
584				PI22171 - PRESSURE INDICATOR VALVE (NO DETAIL)	1	EA							
585				PI22172 - PRESSURE INDICATOR VALVE (NO DETAIL)	1	EA							
586				PI22173 - PRESSURE INDICATOR VALVE (NO DETAIL)	1	EA							
587				PI22174 - PRESSURE INDICATOR VALVE (NO DETAIL)	1	EA							
588				PI24111 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
589				PI24112 - N5500 Low Pressure Capsule Gauge; 316Ti SS Capsule; 316SS Process Connections; Dry-Case- 1/2" NPT Male Process Connection Size; Lower process Connection Location; Pressure Range 150 INWC; Polycarbonate Windowdown; Certificate according to EN 10204 3.1 C3 - Ashcroft - 16N5500-S-D-04-L-150IW-PD-C3	1	EA							
590				PI25111 - N5500 Low Pressure Capsule Gauge; 316Ti SS Capsule; 316SS Process Connections; Dry-Case- 1/2" NPT Male Process Connection Size; Lower process Connection Location; Pressure Range 150 INWC; Polycarbonate Windowdown; Certificate according to EN 10204 3.1 C3 - Ashcroft - 16N5500-S-D-04-L-150IW-PD-C3	1	EA							
591				PI25112 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
592				PI25113 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
593				PI27111 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
594				PI27113 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: {} Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
595				PI27114 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: {} Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
596				PI31311	1	EA							
597				PI32111 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: {} Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
598				PI33111 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: {} Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	3	EA							
599				PI33112 - N5500 Low Pressure Capsule Gauge; 316Ti SS Capsule; 316SS Process Connections; Dry-Case- 1/2" NPT Male Process Connection Size; Lower process Connection Location; Pressure Range 150 INWC; Polycarbonate Window; Certificate according to EN 10204 3.1 C3 - Ashcroft - 16N5500-S-D-04-L-150W-PD-C3	3	EA							
600				PI33113 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: {} Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	3	EA							
601				PI33311 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: {} Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
602				PI35111 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: {} Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
603				PI35112 - N5500 Low Pressure Capsule Gauge; 316Ti SS Capsule; 316SS Process Connections; Dry-Case- 1/2" NPT Male Process Connection Size; Lower process Connection Location; Pressure Range 150 INWC; Polycarbonate Window; Certificate according to EN 10204 3.1 C3 - Ashcroft - 16N5500-S-D-04-L-150W-PD-C3	1	EA							
604				PI35113 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: {} Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
605				PI36111 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
606				PI36112 - N5500 Low Pressure Capsule Gauge; 316Ti SS Capsule; 316SS Process Connections; Dry-Case- 1/2" NPT Male Process Connection Size; Lower process Connection Location; Pressure Range 150 INWC; Polycarbonate Window; Certificate according to EN 10204 3.1 C3 - Ashcroft - 16N5500-S-D-04-L-150IW-PD-C3	1	EA							
607				PI36113 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
608				PI41111 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
609				PI41112 - N5500 Low Pressure Capsule Gauge; 316Ti SS Capsule; 316SS Process Connections; Dry-Case- 1/2" NPT Male Process Connection Size; Lower process Connection Location; Pressure Range 150 INWC; Polycarbonate Window; Certificate according to EN 10204 3.1 C3 - Ashcroft - 16N5500-S-D-04-L-150IW-PD-C3	1	EA							
610				PI41113 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
611				PI42111 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
612				PI71110 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
613				PI71112 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
614				PI71113 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160# / {DF} Flush Diaphragm Process Connection Size: {20} 2" NPS Flange Dimension Specification: {A} ASME B16.5 Diaphragm Material: {S} 316L SS Flange and Top Housing Material: {S} 316L SS Instrument Connection Size: {04T} 1/2 Female NPT Flange Class: {150} ASME 150 Class Flange Form: {RF} Raised Face Fill Fluid: - MODEL: 20ADFSS04T150RFXC3CG	1	EA							
615				PI71114 - PRESSURE INDICATOR (NO DETAIL)	1	EA							
616				PI72112 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160# / {DF} Flush Diaphragm Process Connection Size: {20} 2" NPS Flange Dimension Specification: {A} ASME B16.5 Diaphragm Material: {S} 316L SS Flange and Top Housing Material: {S} 316L SS Instrument Connection Size: {04T} 1/2 Female NPT Flange Class: {150} ASME 150 Class Flange Form: {RF} Raised Face Fill Fluid: - MODEL: 20ADFSS04T150RFXC3CG	1	EA							
617				PI72113 - PRESSURE INDICATOR (NO DETAIL)	1	EA							
618				PI72114 - PRESSURE INDICATOR (NO DETAIL)	1	EA							
619				PI93111 - PRESSURE INDICATOR - 1009 Dial Size: {35} 3 1/2in. 1009 stainless steel System: {SW} 316 SS tube/316L SS process connection (max. pressure 15,000 psi) Case Fill: { } Dry gauge - no code required Process Connection Size: {04} 1/2" NPT Male (SW system only) Process Connection Location: {L} Lower Pressure Range (psi): {160#} 0/160 Windows: {PS} Polysulfone Window Test and Calibration Report: {C3} Material Certificate - Ashcroft - 351009SW_04LXC3PS160#	1	EA							
620				PI93112 - N5500 Low Pressure Capsule Gauge; 316Ti SS Capsule; 316SS Process Connections; Dry-Case- 1/2" NPT Male Process Connection Size; Lower process Connection Location; Pressure Range 150 INWC; Polycarbonate Window; Certificate according to EN 10204 3.1 C3 - Ashcroft - 16N5500-S-D-04-L-150IW-PD-C3	1	EA							
621				PIT22111 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
622				PIT24111 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
623				PIT24149 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
624				PIT25111 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
625				PIT33112 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	3	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
626				PIT33149 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	3	EA							
627				PIT35112 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
628				PIT35149 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
629				PIT36112 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
630				PIT36149 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
631				PIT42136 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
632				PIT71111 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
633				PIT72111 - NPS 2" Cl.150 RF, 316/316L flange ASME B16.5; F15 stainless steel hygiene, plastic window; LCD, push button on display/electronics; 4-20mA HART; Plug M12, IP66/67 NEMA4X/6P; Sensor range; psi; 10bar/1MPa/150psi gauge,100mH2O/333ftH2O/4000inH2O overload: 40bar/4MPa/600psi - E+H - PMP55-AA21SI1PGFAFJA1A	1	EA							
634				PITXXXX - (FOR FUTURE)	1	EA							
635				PIXXXX - PRESSURE INDICATOR (FOR FUTURE)	17	EA							
636				PRV960XXXX - VALVE (FOR FUTURE)	2	EA							
637				PSE12297 - RUPTURE DISK - MANUF& MODEL: BS&B - RLBP-HLP-7RS KBA	3	EA							
638				PSE12298 - RUPTURE DISK - MANUF& MODEL: BS&B - RLBP-HLP-7RS KBA	3	EA							
639				PSE12497 - RUPTURE DISK - MANUF& MODEL: BS&B - RLBP-HLP-7RS KBA	1	EA							
640				PSE12498 - RUPTURE DISK - MANUF& MODEL: BS&B - RLBP-HLP-7RS KBA	1	EA							
641				PSE22197 - RUPTURE DISK - Application: Pressure Relief Model: RLBP Size: 4 inch Materials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min-Max Range: 1.6 - 2.4 psig @ 210°F nCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relief Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of Conformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
642				PSE22198 - RAPTURE DISK - Application: Pressure Relie Model: RLBP Size: 4 inch mMaterials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min- Max Range: 1.6 - 2.4 psig @ 210°F nmCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relie Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of nConformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	2	EA							
643				PSE25100-03	1	EA							
644				PSE25197 - RAPTURE DISK - Product Type 4 IN SKR Description Rupture Disk Materials Disk: 316 Nominal Burst Pressure 45psig @ 60°F Estimated Burst Pressures 42.35psig @ 200°F 39.71psig @ 400°F 38.38psig @ 510°F Manufacturing Range 0% Range: 45 - 45psig @ 60°F Certificates Burst Cert. / ASMEIXIII / Mill-Traceability Report / Cert of Conformance Tagging Details Attached Tag Tagging PSE24198 Product Type 4 IN SKR Description Rupture Disk Materials Disk: 316 Nominal Burst Pressure 45psig @ 60°F Estimated Burst Pressures 42.35psig @ 200°F 39.71psig @ 400°F 38.38psig @ 510°F Manufacturing Range 0% Range: 45 - 45psig @ 60°F Certificates Burst Cert. / ASMEIXIII / Mill-Traceability Report / Cert of - MANUF: BS&B - MODEL: 4 IN SKR 4 IN SRB-7RS-TR 4 IN ABAS+ SHAPE:SQUARE	1	EA							
645				PSE33197 - RAPTURE DISK - Application: Pressure Relie Model: RLBP Size: 4 inch mMaterials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min- Max Range: 1.6 - 2.4 psig @ 210°F nmCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relie Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of nConformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	3	EA							
646				PSE33198 - RAPTURE DISK - Application: Pressure Relie Model: RLBP Size: 4 inch mMaterials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min- Max Range: 1.6 - 2.4 psig @ 210°F nmCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relie Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of nConformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	3	EA							
647				PSE35197 - RAPTURE DISK - Application: Pressure Relie Model: RLBP Size: 4 inch mMaterials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min- Max Range: 1.6 - 2.4 psig @ 210°F nmCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relie Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of nConformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	1	EA							
648				PSE35198 - RAPTURE DISK - Application: Pressure Relie Model: RLBP Size: 4 inch mMaterials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min- Max Range: 1.6 - 2.4 psig @ 210°F nmCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relie Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of nConformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
649				PSE36197 - RAPTURE DISK - Application: Pressure Relie Model: RLBP Size: 4 inch mMaterials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min- Max Range: 1.6 - 2.4 psig @ 210°F nmCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relie Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of nConformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	1	EA							
650				PSE36198 - RAPTURE DISK - Application: Pressure Relie Model: RLBP Size: 4 inch mMaterials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min- Max Range: 1.6 - 2.4 psig @ 210°F nmCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relie Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of nConformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	1	EA							
651				PSE41197 - RAPTURE DISK - Application: Pressure Relie Model: RLBP Size: 4 inch mMaterials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min- Max Range: 1.6 - 2.4 psig @ 210°F nmCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relie Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of nConformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	1	EA							
652				PSE41198 - RAPTURE DISK - Application: Pressure Relie Model: RLBP Size: 4 inch mMaterials Disk: 316 / Seal: Chemfilm Nominal Burst Pressure: 2 psig @ 210°F Min- Max Range: 1.6 - 2.4 psig @ 210°F nmCertificates: Burst Cert. / Mill-Traceability Report / Cert of Conformance Product Type: Safety Head Application: Pressure Relie Model: HLP-7RS Size: 4 inch Materials Inlet: 316 / Outlet: 316 Flange Rating: ANSI/ASME B16.5 150 Certificates: Mill-Traceability Report / Cert of nConformance nTagging Details: Steel Stamping - BS&B - MODEL: RLBP HLP-7RS KBA	1	EA							
653				PSEXXXXXX - RATURE DISK (FOR FUTURE)	10	EA							
654				PSV12299 - PRESSURE SAFETY VALVE - PROTECTOSEAL - F18544D4	2	EA							
655				PSV12399 - PRESSURE SAFETY VALVE - PROTECTOSEAL - F18544D4	1	EA							
656				PSV12499 - PRESSURE SAFETY VALVE - PROTECTOSEAL - F18544D4	1	EA							
657				PSV22178 - PRESSURE SAFETY VALVE (NO DETAIL)	1	EA							
658				PSV22179 - PRESSURE SAFETY VALVE (NO DETAIL)	1	EA							
659				PSV22198 - PRESSURE SAFETY VALVE - RELIEF VALVE TYPE: CONVENTIONAL, DIRECT SPRING-OP INLET/OUTLET: 1 1/2" 150# X 3" 150# BODY MATERIAL: SS SA351-CF8M SET PRESSURE: 100 PSIG FLUIDSTATE: LIQUID - Emerson - CROSBY® 1.5H3JLTJOS-E15S6J	1	EA							
660				PSV22199 - PRESSURE SAFETY VALVE - PIPEAWAY CNSERVATION VENT, SS316, 4" X 4" Size: 4" inlet x 4" outle Connection: Mates with 150# RF, ANSI Housing: 316 S.S Internals: 316 S.S Diaphragm: FE Pressure Setting: 0.3 PSIG - Weight: stainless steel Vacuum Setting: 0.10 PSIG - Weight:stainless steel ProtectoSeal F18544D4	1	EA							
661				PSV241-00 - RELIEF VALVE TYPE: CONVENTIONAL, DIRECT SPRING-OP INLET/OUTLET: 1 1/2" 150# X 2" 150# BODY MATERIAL: SS SA351-CF8M SET PRESSURE: 135 PSIG FLUIDSTATE: LIQUID - Emerson - CROSBY® 1.5F2JLTJOS-E15S6J	1	EA							
662				PSV241-01 - Pressure Safety Valve - RELIEF VALVE TYPE: BALANCED SPINDLE, DSO, PLASTIC SEAT INLET/OUTLET: 1" X 1" BODY MATERIAL: SS SA351- CF8M SET PRESSURE: 135 PSIG FLUIDSTATE: LIQUID - Emerson - ANDERSON GREENWOOD 81PSM88-8 TV	1	EA							
663				PSV241-02 - Pressure Safety Valve - RELIEF VALVE TYPE: BALANCED SPINDLE, DSO, PLASTIC SEAT INLET/OUTLET: 1" X 1" BODY MATERIAL: SS SA351- CF8M SET PRESSURE: 135 PSIG FLUIDSTATE: LIQUID - Emerson - ANDERSON GREENWOOD 81PSM88-8 TV	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
664				PSV24196 - Pressure Safety Valve - RELIEF VALVE TYPE: CONVENTIONAL, DIRECT SPRING-OP INLET/OUTLET: 1 1/2" 150# X 3" 150# BODY MATERIAL: SS SA351-CF8M SET PRESSURE: 45 PSIG FLUIDSTATE: LIQUID - Emerson - CROSBY® 1.5G3JLTJOS-E15S6J	1	EA							
665				PSV24197 - RELIEF VALVE TYPE: CONVENTIONAL, DIRECT SPRING-OP INLET/OUTLET: 1 1/2" 150# X 3" 150# BODY MATERIAL: SS SA351-CF8M SET PRESSURE: 100 PSIG FLUIDSTATE: LIQUID - Emerson - CROSBY® 1.5G3JLTJOS-E15S6J	1	EA							
666				PSV24199 - RELIEF VALVE TYPE: CONVENTIONAL, DIRECT SPRING-OP INLET/OUTLET: 1 1/2" 150# X 3" 150# BODY MATERIAL: SS SA351-CF8M SET PRESSURE: 100 PSIG FLUIDSTATE: LIQUID - Emerson - CROSBY® 1.5G3JLTJOS-E15S6J	1	EA							
667				PSV27199 - Pressure Safety Valve - RELIEF VALVE TYPE: BALANCED SPINDLE, DSO, PLASTIC SEAT INLET/OUTLET: 1" X 1" BODY MATERIAL: SS SA351- CF8M SET PRESSURE: 135 PSIG FLUIDSTATE: LIQUID - Emerson - ANDERSON GREENWOOD 81PSM88-8 TV	1	EA							
668				PSV33199 - Pressure Safety Valve - PIPEAWAY CNSERVATION VENT, SS316, 4" X 4" Size: 4" inlet x 4" outle Connection: Mates with 150# RF, ANSI Housing: 316 S.S Internals: 316 S.S Diaphragm: FE Pressure Setting: 0.3 PSIG - Weight: stainless steel Vacuum Setting: 0.10 PSIG - Weight:stainless steel - ProtectoSeal - F18544D4	3	EA							
669				PSV35199 - Pressure Safety Valve - PIPEAWAY CNSERVATION VENT, SS316, 4" X 4" Size: 4" inlet x 4" outle Connection: Mates with 150# RF, ANSI Housing: 316 S.S Internals: 316 S.S Diaphragm: FE Pressure Setting: 0.3 PSIG - Weight: stainless steel Vacuum Setting: 0.10 PSIG - Weight:stainless steel - ProtectoSeal - F18544D4	1	EA							
670				PSV36199 - Pressure Safety Valve - PIPEAWAY CNSERVATION VENT, SS316, 4" X 4" Size: 4" inlet x 4" outle Connection: Mates with 150# RF, ANSI Housing: 316 S.S Internals: 316 S.S Diaphragm: FE Pressure Setting: 0.3 PSIG - Weight: stainless steel Vacuum Setting: 0.10 PSIG - Weight:stainless steel - ProtectoSeal - F18544D4	1	EA							
671				PSV41195 - Pressure Safety Valve - RELIEF VALVE TYPE: BALANCED SPINDLE, DSO, PLASTIC SEAT INLET/OUTLET: 1" X 1" BODY MATERIAL: SS SA351- CF8M SET PRESSURE: 135 PSIG FLUIDSTATE: LIQUID - Emerson - ANDERSON GREENWOOD 81PSM88-8 TV	1	EA							
672				PSV41196 - Pressure Safety Valve - RELIEF VALVE TYPE: BALANCED SPINDLE, DSO, PLASTIC SEAT INLET/OUTLET: 1" X 1" BODY MATERIAL: SS SA351- CF8M SET PRESSURE: 135 PSIG FLUIDSTATE: LIQUID - Emerson - ANDERSON GREENWOOD 81PSM88-8 TV	1	EA							
673				PSV41199 - Pressure Safety Valve - PIPEAWAY CNSERVATION VENT, SS316, 4" X 4" Size: 4" inlet x 4" outle Connection: Mates with 150# RF, ANSI Housing: 316 S.S Internals: 316 S.S Diaphragm: FE Pressure Setting: 0.3 PSIG - Weight: stainless steel Vacuum Setting: 0.10 PSIG - Weight:stainless steel - ProtectoSeal - F18544D4	1	EA							
674				PSVXXXXX - PRESSURE SAFETY VALVE - (FUTURE USE)	8	EA							
675				PT25163 - (NO DETAIL)	1	EA							
676				PT41112 - (NO DETAIL)	1	EA							
677				PT41149 - (NO DETAIL)	1	EA							
678				PT41179 - (NO DETAIL)	1	EA							
679				PT960XX	9	EA							
680				PXXXXXXX - PASTILLATOR FEED PUMP	1	EA							
681				R-12100 - STORAGE TANK 1 - JOJOBA WAX (9000 GAL)	1	EA							
682				R-12200 - STORAGE TANK 2 - LURIC ACID (9000 GAL)	1	EA							
683				R12300 - STORAGE TANK 3 - STEARIC ACID - 9000 GAL.	1	EA							
684				R-12300 - STORAGE TANK 3 - STEARIC ACID (9000 GAL)	1	EA							
685				R-12400 - STORAGE TANK 4 - (9000 GAL)	1	EA							
686				R12400 - STORAGE TANK 4 - 9000 GAL.	1	EA							
687				R22100 - REACTOR FEED HOPPER - 2640 GALLON.	1	EA							
688				R25100 REACTOR RECEIVER 1500 GALLON	1	EA							
689				R33100 INTERMIATE STORAGE TANK 1	1	EA							
690				R33200 INTERMIATE STORAGE TANK 2	1	EA							
691				R33300 INTERMEDIATE STORAGE TANK 3 - 2700 GAL.	1	EA							
692				R35100 DECANter STORAGE TANK - 5000 GALLONS.	1	EA							
693				R41100 PASTILLATOR INLET TANK, 5000 GAL.	1	EA							
694				RXXXXX PASTILLATOR INLET TANK, 5000 GAL.	1	EA							
695				RXXXXXXX - STORAGE TANK 4 - 9000 GAL. - (FUTURE USE)	4	EA							
696				S71130-A -Cartridge Filter - 5um Cartridge Filter	1	EA							
697				S71130-B -Cartridge Filter - 15um BAG Filter	1	EA							
698				S72130-A -Cartridge Filter - 5um Cartridge Filter	1	EA							
699				SEP27100 - STEM SEPARATOR	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
700				SG24141-01 - Sight Glass - 2.5" 150# Flange Connections; 316L SS, PTFE Env. Viton Gasket; Borosilicate Sight Tube; PTFE Lining - Archon - 025C20AQ00	1	EA							
701				SG24150-01	1	EA							
702				SG25100-01 - Sight Glass - 2.0" 150# Flange Connections; 316L SS, PTFE Env. Viton Gasket; Borosilicate Sight Tube; PTFE Lining - Archon - 020C20AQ00	1	EA							
703				SG32100-01 - Sight Glass - 2.0" 150# Flange Connections; 316L SS, PTFE Env. Viton Gasket; Borosilicate Sight Tube; PTFE Lining - Archon - 020C20AQ00	19	EA							
704				SG-71100-01 - Sight Glass - 1.5" 150# Flange Connections; 316L SS, PTFE Env. Viton Gasket; Borosilicate Sight Tube; PTFE Lining - Archon - 015C20AQ00	2	EA							
705				STATIC MIXER	2	EA							
706				STR22170-02 - STRAINER - ARM STRONG	1	EA							
707				STR22170-03 - STRAINER - ARM STRONG	1	EA							
708				STR22170-04 - STRAINER - ARM STRONG	1	EA							
709				STR27116 - STRAINER - ARM STRONG	1	EA							
710				STR27118 - STRAINER - ARM STRONG	1	EA							
711				STRXXXX - STRAINER (FOR FUTURE)	3	EA							
712				TCV22179-A - Temperature Control Valve - Emerson - NPS 1 24000CVF 32 Size 32 DVC2000 Factory Mtgs DVC6200/DVC2000	1	EA							
713				TCV24127 - Temperature Control Valve - Emerson - NPS 1 24000CVF 32 Size 32 DVC2000 Factory Mtgs DVC6200/DVC2000	1	EA							
714				TCV24157 - Temperature Control Valve - Emerson - NPS 1 24000CVF 32 Size 32 DVC2000 Factory Mtgs DVC6200/DVC2000	1	EA							
715				TCV24167 - Temperature Control Valve - Emerson - NPS 1 24000CVF 32 Size 32 DVC2000 Factory Mtgs DVC6200/DVC2000	1	EA							
716				TCV27148 - Temperature Control Valve - Emerson - NPS 1 24000CVF 32 Size 32 DVC2000 Factory Mtgs DVC6200/DVC2000	1	EA							
717				TE2XXXX	2	EA							
718				Ti22172 - TEMPERATURE INDICATOR	1	EA							
719				Ti27105 - TEMPERATURE INDICATOR	1	EA							
720				TiLXXXX - FOR FUTURE	1	EA							
721				TIT12205 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	5	EA							
722				TIT22171 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
723				TIT24105A - TEMPERING INDICATING TRANSMITTER - Approval: AA Non-hazardous area Thermowell: A Thermometer to be assembled into existing thermowell Thermometer Design: N NPT1/2 male thread nipple- unionnipple connection Process/Thermowell Connection; Material: BA NPT1/2 male thread; 316L Thermowell Diameter; Material: A2 W/o, insert 6mm, to be assembled into existing thermowell Tip Shape: A Not needed (without thermowell) Immersion Length U: A8 200 mm Removable Neck Length E: K 142mm nipple-union-nipple Lagging Length T: A 0mm, w/o lagging Sensor Type; Measuring Range; Material: A 1xPt100 TF, -50...+400oC; 316L Sensor Standard; Classification: B IEC60751; class A, 3- wire Electrical Connection: 2D 4-20mA HART, TMT162, field transmitter Terminal Head; Material; Protect. Class:F2 Dual chamber field housing; 316L; IP67 NEMA 4X, backlit display Cable Entry Terminal Head: B 1x NPT1/2 female thread Device Model: A1 1 Details: Low range E+H - TM131-AAANBAA2AA8KAA2DF2BA1	1	EA							
724				TIT24108 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
725				TIT24109 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
726				TIT24125 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
727				TIT24153-A - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
728				TIT24153-B - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
729				TIT24153-C - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
730				TIT24153-D - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
731				TIT24153-E - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
732				TIT24169 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
733				TIT24170 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
734				TIT25105 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
735				TIT25158 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
736				TIT27106 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
737				TIT27115 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							

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							Manhour / Unit	\$/HOUR	COST				
738				TIT27116 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
739				TIT33105 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	3	EA							
740				TIT35105 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
741				TIT36105 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
742				TIT41105 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
743				TIT41175 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
744				TIT41176 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
745				TIT42135 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
746				TIT93138 - TEMPERING INDICATING TRANSMITTER - E=H - TM131-AAANBAA2AX1KAAE2BA1AA1	1	EA							
747				TITXXXX - FOR FUTURE	18	EA							
748				TOTE VIBERATOR	1	EA							
749				TRAP-22170	1	EA							
750				TRAP24139 - STEAM TRAP - ASTM A240 GRADE 3-4L STAINLESS STEEL BODY; ALL STAINLESS STEEL-304 INTERNALS; HARDENED CHROME STEEL VALVE AND SEAT; MODEL 1810 INVERTED BUCKET STEAM TRAP; 1" BODY CONNECTION SOCKET WELD - 150 PSIG MAX WORKING PRESSURE #38 ORIFICE SIZE - Armstrong - Model 1810 - 1" SW - 150 PSIG	1	EA							
751				TRAP27117 - STEAM TRAP - ASTM A240 GRADE 3-4L STAINLESS STEEL BODY; ALL STAINLESS STEEL-304 INTERNALS; HARDENED CHROME STEEL VALVE AND SEAT; MODEL 1810 INVERTED BUCKET STEAM TRAP; 1" BODY CONNECTION SOCKET WELD - 150 PSIG MAX WORKING PRESSURE #38 ORIFICE SIZE - Armstrong - Model 1810 - 1" SW - 150 PSIG	1	EA							
752				TRAP27118 - STEAM TRAP - ASTM A240 GRADE 3-4L STAINLESS STEEL BODY; ALL STAINLESS STEEL-304 INTERNALS; HARDENED CHROME STEEL VALVE AND SEAT; MODEL 1810 INVERTED BUCKET STEAM TRAP; 1" BODY CONNECTION SOCKET WELD - 150 PSIG MAX WORKING PRESSURE #38 ORIFICE SIZE - Armstrong - Model 1810 - 1" SW - 150 PSIG	1	EA							
753				TT24107	1	EA							
754				TT24164	1	EA							
755				TT24168	1	EA							
756				TT25165	1	EA							
757				TTXXX	2	EA							
758				TWXXXXXX	6	EA							
759				U23100 RM HOPPER	1	EA							
760				WT22115 - LOAD CELLS - Hardy Gateway Module with EtherNet/IP Communications HI 6110 Monochrome Display CABLE ASSY, DISPLAY INTERCONNECT, 10FT, HI 6000 SERIES - MANUF: Hardy MODEL: HI 6600-EIP HI 6110 0509-0536-10-0 HI 6610-WP 6032-0082-0 HI 6020IT-SS1	1	EA							
761				WT25100 - LOAD CELLS - Hardy Gateway Module with EtherNet/IP Communications HI 6110 Monochrome Display CABLE ASSY, DISPLAY INTERCONNECT, 10FT, HI 6000 SERIES - MANUF: Hardy MODEL: HI 6600-EIP HI 6110 0509-0536-10-0 HI 6610-WP 6032-0082-0 HI 6020IT-SS1	1	EA							
762				WT36115 - LOAD CELLS - HI 6500 series Weight Processor mounted in a 304 swivel mount, stainless steel enclosure, 120/240 VAC Power input, Ethernet I/P, monochrome display. OneMount Load Point, Hermetic, Stainless Steel HI SBH04 Shear Beam Sensor and Mount, 22.5KLb Capacity, 20 Ft Cable. Hermetic IP68/69 Integrated Technician Summing Card in a Junction Box, NEMA 4X/IP 66 Stainless Steel Enclosure, TB10 MANUF: Hardy MODEL: HI 6500-WP-10-EIP-SME-AC HI ONELP-H-22.5K-SS HI 6020IT-SS1 C2 CABLE	1	EA							
763				WTXXXX - LOAD CELLS	1	EA							
764				XV11101 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06	1	EA							
765				XV11102 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06	1	EA							
766				XV11103 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06	1	EA							

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							Manhour / Unit	\$/HOUR	COST				
767				XV11104 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06	1	EA							
768				XV11105 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06	1	EA							
769				XV11136-A - ACTUATED VALVE - 3PC SS BALL VALVE, FULL PORT - MODIFIED TEFLON SEATS, BUTT WELD SCH 40 - SHARPE - 1"13-66-BW40-R SPNIII-075SR9	1	EA							
770				XV11138-A - ACTUATED VALVE - 3PC SS BALL VALVE, FULL PORT - MODIFIED TEFLON SEATS, BUTT WELD SCH 40 - SHARPE - 3"1366MBW 10 SPNII-125SR9+FMVB5120+2003ACWR42D	1	EA							
771				XV12144 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
772				XV12145 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
773				XV12146 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
774				XV12147 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
775				XV12235 - ACTUATED VALVE - 3 PC SS BALL, FULL PORT - SHARPE - 1" 13-66-BW40-R - SPNII-075SR9	3	EA							
776				XV12244 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
777				XV12335 - ACTUATED VALVE - 3 PC SS BALL, FULL PORT - SHARPE - 1" 13-66-BW40-R - SPNII-075SR9	1	EA							
778				XV12344 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
779				XV12444 - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
780				XV13135-A - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
781				XV13135-B - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
782				XV13138-A - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
783				XV13138B - 3 PC SS BALL VALVE, FULL PORT - SHARPE - 2.5 1366MBW 10+SPNII-115SR10+FMVB5120+2003ACWR42D	1	EA							
784				XV13138-C - ACTUATED VALVE - KEY: 300-316L-W-30-B1-8681-11-22-T-32-0 MODEL: 300SERIES-2-WAY BALL VALL PORT - 3" - MANUF& MODEL: SPX - 300-316L-W-30-B1-8681(24VDC)-11-22(10CM)-T-32-06V	1	EA							
785				XV13138F - 3 PC SS BALL VALVE, FULL PORT - SHARPE - 2.5 1366MBW 10+SPNII-115SR10+FMVB5120+2003ACWR42D	1	EA							
786				XV22133 - ACTUATED VALVE - Key: 300-316L-W-25-B1-8681(24VDC)-11-22(10cm)-T- 32-06 Model: m300 Series - 2 Way Ball Valve Port Size Body: m2.5 " (25) Mixed Connections: mN Ports: Buttweld (W Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32 Seat: PTFE Elastomers: PTFE (T) Actuator: B1 - Linear, 125mm Normally Closed, Air To Spring Controls: Burkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - SPX - 300-316L-W-25-B1- 8681(24VDC)-11-22(10cm)-T-32-06	1	EA							
787				XV22135A - 3 PC STAINLESS BALL VALVE, FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMVB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
788				XV22135B - ACTUATED VALVE - Key: 300-316L-W-25-B1-8681(24VDC)-11-22(10cm)-T- 32-06 Model: m300 Series - 2 Way Ball Valve Port Size Body: m2.5 " (25) Mixed Connections: mN Ports: Buttweld (W Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B1 - Linear, 125mm Normally Closed, Air To Spring Controls: Burkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - SPX - 300-316L-W-25-B1- 8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
789				XV22136 - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
790				XV22138A - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
791				XV22138B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
792				XV22138C - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
793				XV22179-A - ACTUATED VALVE	1	EA							
794				XV24131-A - ACTUATED VALVE	1	EA							
795				XV24131-B - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
796				XV24132 - ACTUATED VALVE	1	EA							
797				XV24133 - ACTUATED VALVE	1	EA							
798				XV24135-A - ACTUATED VALVE	1	EA							
799				XV24135-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
800				XV24135-C - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
801				XV24135-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
802				XV24135-E - ACTUATED VALVE	1	EA							
803				XV24137-B - 8" TE2-150-080-696A3 150 lb. class Lug Triple Offset CF8M Body, CF8M disc, 17-4 stem, duplex/graphite disc seat, 316 stainless body seat complete with VTN P/N: VT240S10N VTN series, Model 240 rack & pinion pneumatic actuator, fail close all actuators quoted for fail close operation suitable for 80 psi supply pressure actuator sized per customer supplied torque data in inch lbs) VTS actuator MAX supply pressure is 110 psi - VTN actuator Max supply pressure is 115 psi LSMA-MS48-N7 SPDT Nema 7 Limit switch 10" bracket and coupler 24VDC Nema 7 solenoid valve SVM-024-VDC-N7 - Bray - 8" TE2-150-080-696A3 150 lb. LSMA-MS48-N7 SPDT SVM-024-VDC-N7	1	EA							
804				XV24137-C - 8" TE2-150-080-696A3 150 lb. class Lug Triple Offset CF8M Body, CF8M disc, 17-4 stem, duplex/graphite disc seat, 316 stainless body seat complete with VTN P/N: VT240S10N VTN series, Model 240 rack & pinion pneumatic actuator, fail close all actuators quoted for fail close operation suitable for 80 psi supply pressure actuator sized per customer supplied torque data in inch lbs) VTS actuator MAX supply pressure is 110 psi - VTN actuator Max supply pressure is 115 psi LSMA-MS48-N7 SPDT Nema 7 Limit switch 10" bracket and coupler 24VDC Nema 7 solenoid valve SVM-024-VDC-N7 - Bray - 8" TE2-150-080-696A3 150 lb. LSMA-MS48-N7 SPDT SVM-024-VDC-N7	1	EA							
805				XV24137-E - ACTUATED VALVE	1	EA							
806				XV24138-A - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
807				XV24138-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
808				XV24138-C - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
809				XV24138-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
810				XV24138-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
811				XV24139A - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
812				XV24139B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
813				XV24139C - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
814				XV24139-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
815				XV24139-F - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
816				XV24139-H - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
817				XV24142 - ACTUATED VALVE - Key: 300-316L-W-25-B1- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: m300 Series - 2 Way Ball Valve Port Size Body: m2.5 " (25) Mixed Connections: mN Ports: Buttweld (W Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32 Seat: PTFE Elastomers: PTFE (T) Actuator: B1 - Linear, 125mm Normally Closed, Air To Spring Controls: Berkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - SPX - 300-316L-W-25-B1- 8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
818				XV24143 - ACTUATED VALVE - Key: 300-316L-W-25-B1- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: m300 Series - 2 Way Ball Valve Port Size Body: m2.5 " (25) Mixed Connections: mN Ports: Buttweld (W Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32 Seat: PTFE Elastomers: PTFE (T) Actuator: B1 - Linear, 125mm Normally Closed, Air To Spring Controls: Berkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - SPX - 300-316L-W-25-B1- 8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
819				XV24145 - 8" TE2-150-080-696A3 150 lb. class Lug Triple Offset CF8M Body, CF8M disc, 17-4 stem, duplex/graphite disc seat, 316 stainless body seat complete with VTN P/N: VT240S10N VTN series, Model 240 rack & pinion pneumatic actuator, fail close all actuators quoted for fail close operation suitable for 80 psi supply pressure actuator sized per customer supplied torque data in inch lbs) VTS actuator MAX supply pressure is 110 psi - VTN actuator Max supply pressure is 115 psi LSMA-MS48-N7 SPDT Nema 7 Limit switch 10" bracket and coupler 24VDC Nema 7 solenoid valve SVM-024-VDC-N7 - Bray - 8" TE2-150-080-696A3 150 lb. LSMA-MS48-N7 SPDT SVM-024-VDC-N7	1	EA							
820				XV24148-A - 8" TE2-150-080-696A3 150 lb. class Lug Triple Offset CF8M Body, CF8M disc, 17-4 stem, duplex/graphite disc seat, 316 stainless body seat complete with VTN P/N: VT240S10N VTN series, Model 240 rack & pinion pneumatic actuator, fail close all actuators quoted for fail close operation suitable for 80 psi supply pressure actuator sized per customer supplied torque data in inch lbs) VTS actuator MAX supply pressure is 110 psi - VTN actuator Max supply pressure is 115 psi LSMA-MS48-N7 SPDT Nema 7 Limit switch 10" bracket and coupler 24VDC Nema 7 solenoid valve SVM-024-VDC-N7 - Bray - 8" TE2-150-080-696A3 150 lb. LSMA-MS48-N7 SPDT SVM-024-VDC-N7	1	EA							
821				XV24149-A - 8" TE2-150-080-696A3 150 lb. class Lug Triple Offset CF8M Body, CF8M disc, 17-4 stem, duplex/graphite disc seat, 316 stainless body seat complete with VTN P/N: VT240S10N VTN series, Model 240 rack & pinion pneumatic actuator, fail close all actuators quoted for fail close operation suitable for 80 psi supply pressure actuator sized per customer supplied torque data in inch lbs) VTS actuator MAX supply pressure is 110 psi - VTN actuator Max supply pressure is 115 psi LSMA-MS48-N7 SPDT Nema 7 Limit switch 10" bracket and coupler 24VDC Nema 7 solenoid valve SVM-024-VDC-N7 - Bray - 8" TE2-150-080-696A3 150 lb. LSMA-MS48-N7 SPDT SVM-024-VDC-N7	1	EA							
822				XV24151 - ACTUATED VALVE - 14" TE2-150-140-796A3 150 lb. class lug Triple offset, CF8M Body CF8M Disc, 17-4 stem, Duplex/Graphite Disc seat, 316 SS body Seat complet with VTS Series VTS1#250 Pneumatic Scotch Yoke Actuator, Spring return Fail Close all actuators quoted for fail close operation suitable for 80 psi supply pressure actuator sized per customer supplied torque data in inch lbs) VTS actuator MAX supply pressure is 110 psi - VTN actuator Max supply pressure is 115 psi LSMA-MS48-N7 SPDT Nema 7 Limit switch SVU-24VDC-N7 UL-1/2" inlind solenoid valve, 2 POS Normally Closed, Aluminum body, left pilot single coil explosion proof, 24vdc Class H coil, 4 way body, buna seals, 1/2" NPT conduite w/ 22 " flying leads, CSA/UL approved Bracket and coupler - Bray - 14" TE2-150-140-796A3 150 lb. LSMA-MS48-N7 SPDT SVU-24VDC-N7 UL-1/2	1	EA							
823				XV24154 - 3 PC STAINLESS BALL VALVE, FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
824				XV24156 - 3 PC STAINLESS BALL VALVE, FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
825				XV24157 - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
826				XV24159 - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
827				XV24162 - 8" TE2-150-080-696A3 150 lb. class Lug Triple Offset CF8M Body, CF8M disc, 17-4 stem, duplex/graphite disc seat, 316 stainless body seat complete with VTN P/N: VT240S10N VTN series, Model 240 rack & pinion pneumatic actuator, fail close all actuators quoted for fail close operation suitable for 80 psi supply pressure actuator sized per customer supplied torque data in inch lbs) VTS actuator MAX supply pressure is 110 psi - VTN actuator Max supply pressure is 115 psi LSMA-MS48-N7 SPDT Nema 7 Limit switch 10" bracket and coupler 24VDC Nema 7 solenoid valve SVM-024-VDC-N7 - Bray - 8" TE2-150-080-696A3 150 lb. LSMA-MS48-N7 SPDT SVM-024-VDC-N7	1	EA							
828				XV25131 - Actuated Valve - Key: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5" (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
829				XV25135-A - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
830				XV25136-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
831				XV25137 - ACTUATED VALVE	1	EA							
832				XV25138-A - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
833				XV25138-C - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
834				XV25142 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
835				XV27134 - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
836				XV27139A - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
837				XV27139-C - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	2	EA							
838				XV27139-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
839				XV32100-01 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
840				XV32126 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
841				XV32128-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
842				XV32128-B - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
843				XV33131 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	3	EA							
844				XV33135-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	3	EA							
845				XV33135-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	3	EA							
846				XV33136-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	3	EA							
847				XV33136-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	3	EA							
848				XV33138-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	3	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
849				XV33138-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	3	EA							
850				XV33138-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	3	EA							
851				XV33138-E - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	3	EA							
852				XV33140-01 - Actuated Valve	3	EA							
853				XV33140-03 - Actuated Valve	3	EA							
854				XV33142 - Actuated Valve - Key: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06	3	EA							
855				XV33143 - Actuated Valve - Key: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06	3	EA							
856				XV35131 - Actuated Valve - Key: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
857				XV35135-A - Actuated Valve - Key: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
858				XV35135-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
859				XV35136-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
860				XV35136-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
861				XV35138-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
862				XV35138-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
863				XV35138C - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
864				XV35138-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
865				XV35142 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
866				XV35143 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
867				XV36131 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
868				XV36133 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
869				XV36134 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
870				XV36135-B - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
871				XV36135-C - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
872				XV36135-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
873				XV36136-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
874				XV36136-B - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
875				XV36138-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
876				XV36138-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELDED SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
877				XV36138-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELDED SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
878				XV36138-E - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELDED SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
879				XV36142 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
880				XV36143 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
881				XV41131 - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
882				XV41135-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
883				XV41135B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
884				XV41136-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
885				XV41136-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
886				XV41138-A - Actuated Valve - Key: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2-8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
887				XV41138-B - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
888				XV41138-D - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
889				XV41138-E - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
890				XV41142 - Actuated Valve - Key: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
891				XV41143 - Actuated Valve - Key: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
892				XV42131 - Actuated Valve - Key: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06 Model: 300 Series - 2 Way Ball Valve Port Size Body: 2.5 " (25) Mixed Connections: No Ports: Buttweld (W) Material of Construction: 316L Stainless Steel (316L) Finish: Standard Finish Machined <32 Ra ID (32) Seat: PTFE Elastomers: PTFE (T) Actuator: B2 - Linear, 125mm Normally Open, Air To Sprin Controls:B urkert 8681 - 24VDC Position Indication: Non-Contact Teach-In Position System Solenoid Valve: 1 24V DC Solenoid Pin Connectors: 10cm Cord Set M12 12-Pin Eurofast QA04/QA05VV Matl. Test/Heat Cert: Yes (Body and Cap Only) - MANUF: SPX - MODEL: 300-316L-W-25-B2- 8681(24VDC)-11-22(10cm)-T- 32-06	1	EA							
893				XV42138 - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
894				XV73100-00 - ACTUATED VALVE	1	EA							
895				XV92-000 - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
896				XV92-001 - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
897				XV93138 - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
898				XV93141 - 3 PC STAINLESS BALL VALVE,FULL PORT, MODIFIED TEFLON SEATS, BUTTWELD SCHED 40 WITH SPRING RETURN FAIL CLOSE ACTUATOR SIZED FOR 80 PSI AIR AVAILABLE FMYB5120 LIMIT SWITCH, NEMA 4 4X 2 SPDT MECHANICAL SWITCHES S2003ACWR42D 24VDC SOLENOID NEMA 4 Sharpe - 1"13-66-BW40-R - SPNIII-075SR9	1	EA							
899				XV96000-03 - ACTUATED VALVE	1	EA							
900				XV96000-05 - ACTUATED VALVE	1	EA							
901				XV960XXXX - ACTUATED VALVE (FOR FUUTURE)	2	EA							
902				XVXXXXX - ACTUATED VALVE - 3 PC SS BALL, FULL PORT - (FUTURE USE)	23	EA							
903				HIGH PERFORMANCE OVEN - NS-HFC48V - 700000 BTUH	2	EA							
904				PORTABLE LAMINAR BOOTH	1	EA							
905				ESCUTCHEONS (PIPE TITE)	42	EA							
906				RUBBER BOOT (WHICH HAT)	8	EA							
907				BASE PLATE	20	EA							
908				SS SCH. 40 PIPE	190	LF							
909				(5/8"x4-3/4") HILTI HAD-TR SS ACHORS	80	EA							
910				HILTI HIT-HY 200 ADHESIVE SYSTEM W/ 1/2"x7-3/4"LG	80	EA							
				FLUSHING & TESTING	1	LS							
				PRESSURE TESTING & CLEANING OF PIPING	1	LS							
913				ALLOWANCE FOR WELD	1	LS							
914				POURABLE URATHANE SEALENT	1	LS							
915				GROUTING	1	LS							
				FITTINGS									
916				(1"x1/2") REDUCER	17	EA							
917				(10"x4") REDUCER	1	EA							
918				(2"x1") REDUCER	1	EA							
919				(2"x1/2") REDUCER	1	EA							
920				(2"x1-1/2") REDUCER	4	EA							
921				(2-1/2"x1") REDUCER	14	EA							
922				(2-1/2"x1") REDUCER	6	EA							
923				(2-1/2"x2") REDUCER	44	EA							
924				(2-1/2"x2") REDUCER	8	EA							
925				(3"x1") REDUCER	17	EA							
926				(3"x2") REDUCER	7	EA							
927				(3"x2-1/2") REDUCER	1	EA							
928				(3"x6") REDUCER	1	EA							
929				(4"x2") REDUCER	1	EA							
930				(4"x3") REDUCER	1	EA							
931				(8"x4") REDUCER	1	EA							
932				(1") 90Deg ELBOW	40	EA							
933				(1-1/2") 90Deg ELBOW	18	EA							
934				(2") 90Deg ELBOW	52	EA							
935				(3") 90Deg ELBOW	12	EA							
936				(4") 90Deg ELBOW	8	EA							
937				(1") BOLT & GASKET SET	2	EA							
938				(1-1/2") BOLT & GASKET SET	10	EA							
939				(2") BOLT & GASKET SET	14	EA							
940				(3") BOLT & GASKET SET	8	EA							
941				(32"x4"x1/4") FABRICATED SS WALL BRACKET	12	EA							
942				PS-H1 - WALL CLAMPS	48	EA							
943				(1") TEE	7	EA							
944				(1-1/2") TEE	12	EA							
945				(2") TEE	42	EA							
946				(3") TEE	9	EA							
947				(1") COUPLING	54	EA							
948				(1-1/2") COUPLING	11	EA							
949				(2") COUPLING	69	EA							
950				(2-1/2") COUPLING	240	EA							
951				(3") COUPLING	65	EA							
952				(4") COUPLING	20	EA							
953				(2") - #260 ADJ. CLEVIS HANGER	128	EA							
954				(3") - #260 ADJ. CLEVIS HANGER	98	EA							
955				(4") - #260 ADJ. CLEVIS HANGER	28	EA							
956				(3/8")-#146 ALL THREAD ROD	128	EA							
957				(1/2")-#146 ALL THREAD ROD	98	EA							
958				(3/4")-#146 ALL THREAD ROD	28	EA							
959				(3/8") HEX NUTS	256	EA							
960				(1/2")-HEX NUTS	196	EA							
961				(3/4")-HEX NUTS	56	EA							
962				(3/8") WASHER	256	EA							
963				(1/2")-WASHER	196	EA							

S#	DWG #	DETAIL #	CSI NO	DESCRIPTION	QTY.	UNIT	LABOR			MATERIAL (PER UNIT)	EQUIPMENT (PER UNIT)	COMPOSITE RATE/UNIT	TOTAL COST
							Manhour / Unit	\$/HOUR	COST				
964				(3/4")-WASHER	56	EA							
				Subtotal									
				Total									
				Add wastage of materials									
				Add Contractor's overhead & profit @ 15%									
				G.Total									
Please review prices before submission of bid													



99 ESTIMATORS