spirax									
Date	12/14/2018	Quotation Ref Revision No	-		Prepared By	Brock Smit			
Sheet Quantity	-	AO Number	-		Email Telephone	317-778-6	@us.spiraxsarco.com 314		
Customer	<u> </u>			C	Order Number	-			
Project Type	-				ocation	-			
Project Name	-	Project Ref	- ND5000D00000		lob Name	-			
Model Code	2 LEA03P55U55.	.2 Cv 42 ANSI 150 + PN9123E + S	CONTROL VAL		Tag No	<u>-</u>			
1 Service Application 2 Hazard Area Class 3 Ambient Air Temperature				5 Max Safe Working Pressure 6 Pipe Material / Standard 7 Valve Type		- - / ASME B36.10 (BS1600) 2 Port			
4 Site Noise Limit		85 dB(A)		8 Design Stand			ANSI		
9 Maximum Pressui		CONDITIONS		12 Pipe Inlet / Do	SELECTED PIPE SIZ	i e	VLATION) / Schedule 40 (Pipe)		
10 Minimum Tempera		-		13 Pipe Outlet /) / Schedule 40 (Pipe)		
11 Maximum Tempera	ature	-		14 Insulation			-		
45 Madia	ı	Day Catymated Cteans	PROCES	S DATA					
15 Media 16 Process Condition		Dry Saturated Steam 1		2	3		4		
17 Name		Normal Flow	Ma	ximum Flow	-		-		
18 State		Gas	_	Gas	-		-		
19 Mass Flow 20 Volumetric Flow		552.00 lb/h 412.24 gallon/min (US)	772.00 lb/h 576.54 gallon/min (US)				-		
21 Inlet Pressure				gallon/min (US) - 00 psi gauge -			-		
22 Outlet Pressure		24.00 psi gauge	24.0	00 psi gauge	-		-		
23 Differential Pressu	ure	34.00 psi		34.00 psi	-		-		
24 Temperature 25 Normal Temperatu	ire	305.46 °F		305.46 °F	-		-		
26 Fluid SG				-	1				
27 Vapour Pressure		58.00 psi gauge		00 psi gauge	-		-		
28 Viscosity		0.0000141 Pa s		000141 Pa s -		-			
29 Critical Pressure 30 Critical Temperatu	re (Tc)			5.42 psi gauge - 705.10 °F -			-		
31 Specific Heat Ratio		705.10 °F 1.30					-		
32 Compressibility (Z		0.95540		1.30 - 0.95540 -			-		
33 Required Capacity	,	4.63 Cv	4.63 Cv		6.48 Cv -		-		
34 Percent Open 35 Noise Prediction		43%		52% -			-		
35 Noise Prediction 36 Power Ratio		78.55 dB(A) 0.05		82.55 dB(A) - 0.07 -			-		
37 Sigma		-		-	-		-		
38 SigmaMR		-		-	-		-		
39 Cavitation		None		None	-		-		
40 Outlet Velocity 41 Outlet Mach		81.56 ft/s 0.05	'	14.07 ft/s 0.07			-		
42 Upstream Pipe Vel	locity	39.41 ft/s		55.12 ft/s	-		-		
43 Downstream Pipe	Velocity	73.97 ft/s		03.45 ft/s	-		-		
44 Madel Code		011 FACODOCITOS O C. 40 A	VALVE BODY		1	1	0+ 0+ 0401		
44 Model Code 45 Valve Range		2" LEA63PSSUSS.2 Cv 42 A Spira-Trol	ANSI 150	52 Plug Material 53 Seat Material			St.St.316L St.St.316L		
46 Flow Direction		Under		54 Seating Type		316L Stainless Steel			
47 Characteristic		EQ		55 Packing Material		PTFE			
48 End Connections		ANSI 150		56 Balancing 57 Bonnet Studs/Nuts		Unbalanced ASTM A193 Gr B8 M2 / ASTM A194 Gr 8M			
49 Body Material 50 Bonnet Style		Stainless Steel Standard		57 Bonnet Studs/Nuts 58 Finish		ASTM A193 Gr B8 M2 / ASTM A194 Gr 8M Standard			
51 Trim Type / Reduct	tion	Standard / Full Port		59 Shut Off Class		Class IV			
			ACTU	ATOR					
60 Actuator Model		PN9123E		74 Finish		Sta	ndard / Standard		
61 Actuator Type 62 Control		Pneumatic Single Acting		75 Hand Wheel 76 Mounting Flange		No -			
63 Travel		0.79 in		77 Valve Adapter		-			
64 Fail Position		Extend		78 Positioner Card		-			
65 Spring Range 66 Thrust Available		2.0 - 4.0 bar		79 Position Transmitter 80 Local Controller					
66 Thrust Available 67 % Thrust Used		431.63 lbf 75.15 %		81 3 Way Issolation		-			
68 Required Force To		324.37 lbf		82 Fault Indicate	or Relay		-		
69 Required Force To		22.48 lbf 58.00 psi		83 Communication Software PSCS 84 Potentiometer		-			
70 Required Shut Off 71 Air (Available / All		58.00 psi 85.00 psi gauge / 84.99 psi gauge		84 Potentiomete 85 Auxiliary Swi		- -			
72 Advised Max Diffe		101.51 psi	94494	86 Anti-Condensate Heater		_			
73 % Safety Factor		0		87 High Tempera		<u> </u>	-		
			POSIT			1			
88 Positioner Model 89 Product Number		SP5000R00000G7		92 Gauge Type / 93 Mounting Kit			0 - 7 bar / -		
90 Control Signal		3439959 4 - 20 mA		93 Mounting Kit 94 Mounting Kit			-		
91 Enclosure Rating		IP65		95 Other: -					
			OTHER ACC						
96 Air Instrument Cor	nnections	No			e / Solenoid Valve		No / No		
97 Volume Tank 98 Tank Capacity		None -		102 IP Converter 103 Limit Switch			No No		
99 Min Volume Requi	ired	-		104 Quick Exhau			No / No		
100 Filter Regulator / T		MPC2M + Metal Bowl / P		105 Other: -					
			CATES AND SP	ECIAL REQUIREMEN	NTS				
106 Material Certs Bod		None None		112 Nace 113 Control Loop Hysteresis		No No			
107 Material Certs Bon 108 Material Certs Trin		None None		113 Control Loop Hysteresis 114 Control Loop Dead Band		No No			
109 Drawings Outline		No		115 Paint Report		No			
		No		116 ATEX + CE		l	No		
110 Drawings GA		111 Drawings Hook Up No 117 Other : - STANDARD TEST CERTIFICATION							
110 Drawings GA)			CONTINUES					
110 Drawings GA 111 Drawings Hook Up	0	S	TANDARD TEST		Toet	I	No		
110 Drawings GA 111 Drawings Hook Up 118 Hydrostatic Test		No	TANDARD TEST	120 Seat Leakage			No No		
110 Drawings GA 111 Drawings Hook Up		S	MESSAGES	120 Seat Leakage 121 Positioner Ca			No No		
110 Drawings GA 111 Drawings Hook Up 118 Hydrostatic Test 119 Functional Test 122 The Actuator air s		No	MESSAGES	120 Seat Leakage 121 Positioner Ca AND NOTES					
110 Drawings GA 111 Drawings Hook Up 118 Hydrostatic Test 119 Functional Test 122 The Actuator air s 123 -		S No No	MESSAGES	120 Seat Leakage 121 Positioner Ca AND NOTES					
110 Drawings GA 111 Drawings Hook Up 118 Hydrostatic Test 119 Functional Test 122 The Actuator air s		S No No	MESSAGES	120 Seat Leakage 121 Positioner Ca AND NOTES					
110 Drawings GA 111 Drawings Hook Up 118 Hydrostatic Test 119 Functional Test 122 The Actuator air s 123 - 124 -		S No No	MESSAGES	120 Seat Leakage 121 Positioner Ca AND NOTES					