1					Offer N° Offer date Identifier Date Customer		1901527						
3		H		VOLE			1901	1901527					
2 3 4 5 6 7				mann						l-			05/03/2019 09:18
5				ONINO								1	
6					Project job					Tag no.			
8		Fluid	Water		job		Critical pressure			bar(a)		220,64	
9		Fluid state	Liquid				Molecular weight			kg/kmol		220,04	
10			•	Units	Condition 1			Conditio	on 2	Coi	ndition 3	Cond	lition 4
11													
12		Comments on c	onditions										
13								40,000					
14	z	Flow rate	qv	l/min	20,0000		_	13,0000 1,7500			5,0000		
15 16	SERVICE CONDITION	Inlet pressure Outlet pressure		bar(a)	1,7500 1,2000			1,7500			1,7500 1,2000		
17	ΩNO	Inlet temperature		bar(a) °C		20,0000	1		20,0000		20,0000		
18	EC	Intlet density	<u> </u>	kg/m³		998,2409			998,2409		998,2409		
19	Σ	Outtlet density		kg/m³		998,2157			998,2157		998,2157		
20	SE	Vapor pressure	PV	bar(a)		0,0234		0,0234			0,0234		
21		Viscosity		Pa s		0,0010			0,0010		0,0010		
22		Isentropic expon	ent	-									
23		Required valve Kv m³/h			1,6167		1,0705						
24		Intlet flow speed		m/s		1,8863			1,2261		0,4716		
25		Outlet flow spee	d	m/s		1,8863			1,2261		0,4716		
26 27		Travel Predicted SPL		% dB(A)		68,7019 30,7384			58,1645 26,3351		36,6936 20,0000		
28	ш		Inlet	DN 15		00,7004			20,0001	_		1	
29	LINE	Pipe line size	Outlet				1	Actuator type		PNEUMATIC	ELECTRIC		
30		Code					1	Actuator code		<u> </u>			
31		Size		DN 15			1	Operation mode			Modulating		
32		Rating						Supply			3,5 bar	6 bar	04.0.07.1
33		Characteristic		Equal percentag				Nominal drive signal		0,42-1,03 bar	0,63-1,24 bar		),84-2,07 bar .,6-3,2 bar
34 35		Kvs straight way		m³/h	5,50		ACTUATOR	l landoka al	*1	1,5-2,7 bar Yes	1,5-3,2 bar		,0-3,2 Dai
36		Kvs	angle way	m³/h				Handwheel Quick-exhaust		Yes	□ No		
37				2 way				Opening time valve					
38		Valve type		3 way use mix				Closing Time valve			7		
39				3 way use div	3 way use diverting					· ·			
40				Norm. Close	n. Close			Positioner code	$\sim$ $\wedge$	7			
41			2 way	Norm. Open			51	Pneumatic -	input	9/1		psi	
42				<b>-</b>		- 6		_					
43				NC straight w				Analogic -	input	7/		mA	
44 45				Mixing use / Mixing (Shut off on straigh	(Shut off on angle way)		POSITIONER		Input 4-20 mA				
46		Working		NC straight w				Digital	Input profibus		protocol		
47			3 way	Divert. use / Mixing	·   — · · · ·		ΙĔ		Input fieldbus				
48				(Shut off on straigh			ĕ	Feedback 4-20	mA.				
49				NC straight w	ay NO straight way			2 Endswitches					
50				Divert. use / Divert	t. Plug Divert. use / Divert. Plug		1	With gauges	7				
51 52		Stage (Sh		(Shut off on straigh			- 15						
_					No Duna Tuba		ł	Zone	Mark _				
53 54		Shut off bar		Inside t	body Flange Dump Tube		-	Voltage		1			
55		Max. temperature °C					1	voltage		1 solenoid valve	e before positioner (13744	+ M)	□ NC □ NO
56	ш			Soft class VI Metal class IV Metal class VI						e after positioner (13744_	-	NC NO	
57	VALVE									e to choose control signal			
58	>	Bonnet material								NC Solenoid	energized air trough position	ner ( Regulation )	
59		Trim material								Solenoid	not energized air direct to se		24271C
60		Inlet connection		DN 15			Į.			I NC	energized air direct to servo		
61 62		Outlet connection Flange face to face mm		DN 15		-VE			Solenoid	not energized air trough pos	itioner ( Regulation )	24271A	
63		Flanges drilling according to		1			SOLENOID VALVE	Function		1 solenoid valve	e before positioner ve after positioner to cho	ose signal	
64		Seat Diameter m					Š			Both solenoid energized air trough positioner ( Regulation ) .			
65				Standard		J.E			859	energized air direct to servoconti		14231C	
66		Type of Bonnet		Finned extensi	on		Š			Both solenoid ener	gized air direct to servocontrol		
67		Extended					I				Both solenoid not energized air trough positioner ( regulation 14231A		
68				Stuffing box	ox al + safety stuffing box					Solenoid before energized + solenoid after not energized, air trough positioner ( Regulation ) .  Solenoid before not energized + solenoid after energized			
69		Stem sealing typ	e										
70 71										Solenoid before not energized + solenoid after energized, air direct to servocontrol.  14231			
72				PTFE				<b>——</b>		lan an ect to servocc			
73		PTFE+FP						Zone	Mark				
74	1	Packing materia	I	☐ PTFE+EPDM ☐ GRAPHITE+PTFE ☐ GRAPHITE			Filter regulator		Yes	☐ No			
75							Air filter material		AL.+Plastic	S.S.316			
76						SET	Booster		Yes	No			
77				VACUUM			AIR SE	Lockup		Yes	No No		
78		<b>L</b>						Tubing material		Rilsan	S.S.304/316+E	irass	
79 80		Materials not accepted in contact with the fluid					i ubing material		S.S.304/316	Copper			
81		]					$\vdash$	Switch Type		Mech.	Proximity	Inductive	
82		TA-LUFT		Yes	Yes No		HES	Switching position			Close	Both	
83						SWITCHES		M	•				
84							S	Zone Mark					
85	ES	Predicted SPL a	ccording to :	IEC 60534-8-4 (20	15)								
86 87	NOTES	ľ											
8/	_	<u> </u>											