


1			Offer N°		1901331	
2			Offer date		Rev.	
3			Identifier		1901331	
4			Date		13/05/2019 14:22:21	
5			Customer			
6			Project		Tag no.	
7			Job			
8	Fluid	Water	Critical pressure		bar(a)	
9	Fluid state	Liquid	Molecular weight		kg/kmol	
10		Units	Condition 1	Condition 2	Condition 3	Condition 4
11	Comments on conditions					
12						
13						
14	Flow rate	qv	l/min	20,0000	13,0000	5,0000
15	Inlet pressure	bar(a)		1,2000	1,2000	1,2000
16	Outlet pressure	bar(a)		1,0000	1,0000	1,0000
17	Inlet temperature	°C		20,0000	20,0000	20,0000
18	Inlet density	kg/m³		998,2157	998,2157	998,2157
19	Outlet density	kg/m³		998,2065	998,2065	998,2065
20	Vapor pressure PV	bar(a)		0,0234	0,0234	0,0234
21	Viscosity	Pa s		0,0010	0,0010	0,0010
22	Isentropic exponent	-				
23	Required valve Kv	m³/h		2,6809	1,8234	0,7927
24	Inlet flow speed	m/s		1,0610	0,6897	0,2653
25	Outlet flow speed	m/s		1,0610	0,6897	0,2653
26	Travel	%		67,6601	57,8076	36,5150
27	Predicted SPL			20,0305	20,0000	20,0000
28	LINE	Pipe line size	Inlet DN 20	Actuator type <input type="checkbox"/> PNEUMATIC <input type="checkbox"/> ELECTRIC Actuator code Operation mode <input type="checkbox"/> ON/OFF <input type="checkbox"/> Modulating Supply <input type="checkbox"/> 2,5 bar <input type="checkbox"/> 3,5 bar <input type="checkbox"/> 6 bar Nominal drive signal <input type="checkbox"/> 0,42-1,03 bar <input type="checkbox"/> 0,63-1,24 bar <input type="checkbox"/> 0,84-2,07 bar <input type="checkbox"/> 1,5-2,7 bar <input type="checkbox"/> 1,5-3,2 bar <input type="checkbox"/> 1,6-3,2 bar Handwheel <input type="checkbox"/> Yes <input type="checkbox"/> No Quick-exhaust <input type="checkbox"/> Yes <input type="checkbox"/> No Opening time valve Closing Time valve		
29		Outlet DN 20				
30		Code		Positioner code <input type="checkbox"/> Pneumatic - input _____ psi <input type="checkbox"/> Analogic - input _____ mA <input type="checkbox"/> Digital <input type="checkbox"/> Input 4-20 mA <input type="checkbox"/> Input profibus <input type="checkbox"/> Input fieldbus <input type="checkbox"/> Feedback 4-20 mA <input type="checkbox"/> 2 Endswitches built in positioner <input type="checkbox"/> With gauges Zone _____ Mark _____		
31		Size	DN 20			
32		Rating				
33		Characteristic	Equal percentage			
34		Kvs straight way	m³/h 9,50			
35		Kvs angle way	m³/h			
36		Valve type	<input type="checkbox"/> 2 way <input type="checkbox"/> 3 way use mixing <input type="checkbox"/> 3 way use diverting			
37						
38						
39						
40		Working	2 way <input type="checkbox"/> Norm. Close <input type="checkbox"/> Norm. Open <input type="checkbox"/> NC straight way <input type="checkbox"/> NO straight way Mixing use / Mixing plug (Shut off on straight way) Mixing use / Mixing plug (Shut off on angle way) 3 way <input type="checkbox"/> NC straight way <input type="checkbox"/> NO straight way Divert. use / Mixing Plug (Shut off on straight way) Divert. use / Mixing Plug (Shut off on angle way) <input type="checkbox"/> NC straight way <input type="checkbox"/> NO straight way Divert. use / Divert. Plug (Shut off on straight way) Divert. use / Divert. Plug (Shut off on angle way)			
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52		Stage	No	Voltage <input type="checkbox"/> 1 solenoid valve before positioner (13744_M) <input type="checkbox"/> NC <input type="checkbox"/> NO <input type="checkbox"/> 1 solenoid valve after positioner (13744_V) <input type="checkbox"/> NC <input type="checkbox"/> NO <input type="checkbox"/> 1 solenoid valve to choose control signal <input type="checkbox"/> NC Solenoid energized air trough positioner (Regulation) 24271C Solenoid not energized air direct to servocontrol <input type="checkbox"/> NC Solenoid energized air direct to servocontrol 24271A Solenoid not energized air trough positioner (Regulation) Function <input type="checkbox"/> 1 solenoid valve before positioner + 1 solenoid valve after positioner to choose signal <input type="checkbox"/> Both solenoid energized air trough positioner (Regulation) . 14231C <input type="checkbox"/> Both solenoid not energized air direct to servocontrol. <input type="checkbox"/> Both solenoid energized air direct to servocontrol 14231A <input type="checkbox"/> Both solenoid not energized air trough positioner (regulation) Solenoid before energized + solenoid after not energized, air trough positioner (Regulation) . <input type="checkbox"/> Solenoid before not energized + solenoid after energized, air direct to servocontrol. 14231 Zone _____ Mark _____		
53		number of stage	Tot.Qty			
54		Shut off	bar			
55		Max. temperature	°C			
56		Seal	<input type="checkbox"/> Soft class VI <input type="checkbox"/> Metal class IV <input type="checkbox"/> Metal class VI			
57		Body material				
58		Bonnet material				
59		Trim material				
60		Inlet connection	DN 20			
61		Outlet connection	DN 20			
62		Flange face to face	mm			
63		Flanges drilling according to				
64		Seat Diameter	mm			
65		Type of Bonnet	<input type="checkbox"/> Standard <input type="checkbox"/> Finned extension <input type="checkbox"/> Extended			
66						
67						
68		Stem sealing type	<input type="checkbox"/> Stuffing box <input type="checkbox"/> Bellow seal + safety stuffing box			
69						
70						
71						
72						
73		Packing material	<input type="checkbox"/> PTFE <input type="checkbox"/> PTFE+FPM <input type="checkbox"/> PTFE+EPDM <input type="checkbox"/> GRAPHITE+PTFE <input type="checkbox"/> GRAPHITE <input type="checkbox"/> VACUUM			
74						
75						
76						
77						
78						
79		Materials not accepted in contact with the fluid				
80						
81						
82		TA-LUFT	<input type="checkbox"/> Yes <input type="checkbox"/> No			
83		Zone	Mark			
84						
85	NOTES	Predicted SPL according to : IEC 60534-8-4 (2015)				
86						
87						