

Customer Name	FABRIMAT SARL	Quote Reference	3LC61280
Customer's Ref		Line No	10
Customer Item ref	Tag à fournir	Qty	1
Customer Rfq/Order		Sales Engineer	M. Cyril Lemenn
Project	Remplacement 18822/5/1999		

Valve Model	Portable SRV 9 Series (screwed)	Valve Type	Spring loaded SRV
Nozzle type :	Full Nozzle	Type bonnet	Closed
Valve Designation	9BX4HGHNA		

Id	Rev	Process Conditions	
1		Fluid type : Liquid	à confirmer
2		Specific Gravity :	1
3		Viscosity :	1 cP
4		Set Pressure :	34 bar (g)
5		Relieving temperature :	-20 °C
6		Mini Super Imposed Back-Pressure :	0 bar (g)
7		Maxi Super Imposed Back Pressure :	0 bar (g)
8		Built-Up Back Pressure :	0 bar (g)
9		Total Back Pressure :	0 bar (g)
10		Cold diff. test press. :	34 bar (g)
11		Overpressure β (%) :	10
12		Operating Pressure :	30.6 bar (g)
13		Max. Expected Operating Pressure :	30.6 bar (g)
14		Operating Temp :	-20 °C
15		Min Design Temp :	-20 °C
16		Atmospheric Pressure :	1.013 bar (a)
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Id	Rev	Sizing Standard
38		ISO 4126

$$A = \frac{V \cdot \sqrt{G}}{5092.2 \cdot K_w \cdot K_p \cdot 0.9 \cdot K_d \cdot \sqrt{\left(1 + \frac{\beta}{100}\right) \cdot P_{do} - P_b}}$$

Sizing Data			
Mass Capacity - W :	5568.10	kg/hr	
Volume Capacity - V :	5568.10	l/hr	
Set Pressure - Pdo :	34	bar (g)	
Back Pressure - Pb :	0	bar (g)	
Specific Gravity - G :	1		
Overpressure β (%) :	10		
Flow coefficient - Kd :	0.702		
Overpressure Coefficient - Kp :	1		
BP Correction Factor - Kw :	1		
Viscous Correction factor - Kv :	1		
Reynolds number :	364522		

Id	Rev	Sizing Results	
39		Selected Area :	0.283 cm²
40			0.044 sq. in.
41		Orifice :	B
42		Max. Reaction Force :	0 DaN
43		Max capacity :	5.5681 m3/hr
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Comments and Deviations

Désignation commerciale : La lettre P (ressort Inox), remplacée par la lettre H (ressort Inconel, nouveau standard)

Revision Control

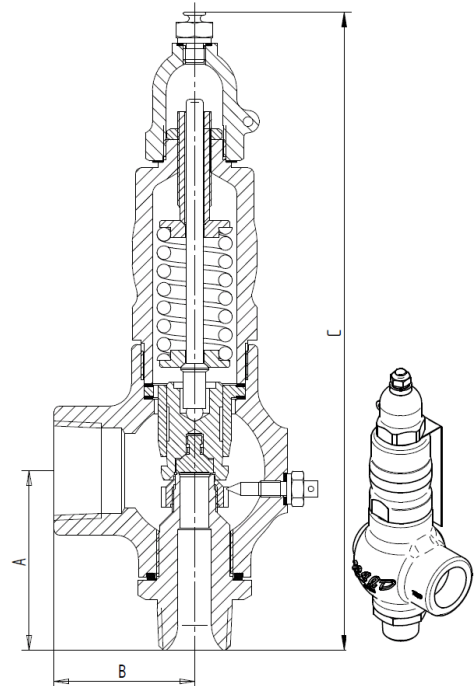
	Date				TRILLIUM Flow Technologies France		
	Date				www.trilliumflow.com		
	Date				Program Version	8.8.2	
0	Date	10/05/2023		M. Cyril Lemenn	Id Valve	1133523	XXXX

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Id	Rev	Bill Of Material
55		Body SA 351 Gr. CF3M
56		Bonnet SA 351 Gr. CF3M
57		Cap SA 351 Gr. CF3M
58		Nozzle A 479 Gr. 316L
59		Disc A 479 Gr. 316L
60		Disc holder A 479 Gr. 316L
61		Gaskets SA 240 Gr 316L
62		Spring AMS 5670 (Alloy X-750)
63		Spindle A 479 Gr. 316L
64		Guide SA 564 Gr. 630
65		Adjusting Ring A 479 Gr. 316L
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Id	Rev	End Connection Details
91		Inlet : 3/4"
92		Inlet Finish : Male (NPT)
93		Orifice : B
94		Outlet : 1"
95		Outlet Finish : Female (NPT)
96		



Dimensions & Weight

A =	50.5	mm	2	inch
B =	40	mm	1.6	inch
C* =	245	mm	9.6	inch
Weight*	1.8	Kg	4	pound

* the GAD is authoritative

Id	Rev	Valve Accessory(ies)
97		
98		
99		
100		
101		
102		
103		
104		
105		
106		
107		
108		
109		
110		
111		
112		
113		

Id	Rev	Pilot Accessory(ies)
114		
115		
116		
117		
118		
119		
120		
121		
122		
123		
124		
125		
126		
127		
128		
129		
130		