

SPECIFICATION & SIZING SHEET

Pressure Relief Valve

Customer Name	FABRIMAT SARL	Quote Reference	3VE45499
Customer's Ref		Line No	10
Customer Item ref	PSV 310	Qty	1
Customer Rfq/Order		Sales Engineer	Mme Véronique Serlet
Project	476035		

Valve Model	Starflow P4 Series	Valve Type	Balanced Bellows SRV
Nozzle type :	Full Nozzle	Type bonnet	Vented to atmosphere

Valve Designation **P68Q2430A-D-VMM**

Id	Rev	Process Conditions		
1		Fluid type : Liquid	TBA	-
2		Specific Gravity :	1	
3		Viscosity :	0.5	cP
4		Set Pressure :	10.54	kg/cm2 (g)
5		Relieving temperature :	275	°C
6		Mini Super Imposed Back-Pressure :	0	kg/cm2 (g)
7		Maxi Super Imposed Back Pressure :	5	kg/cm2 (g)
8		Built-Up Back Pressure :	0	kg/cm2 (g)
9		Total Back Pressure :	5	kg/cm2 (g)
10		Cold diff. test press. :	10.54	kg/cm2 (g)
11		Overpressure β (%) :	10	
12		Max. Expected Operating Pressure :	9.49	kg/cm2 (g)
13		Operating Temp :	0	°C
14		Max Design Temp :	0	°C
15		Min Design Temp :	0	°C
16		Atmospheric Pressure :	1.013	bar (a)
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Id	Rev	Sizing Standard		
38		ASME B&PV Code Section VIII div.1		

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

Sizing Data		
Mass Capacity - W :	469780.91	Kg/h
Volume Capacity - V :	469780.91	Litre/h
Set Pressure - Pdo :	10.336	bar (g)
Back Pressure - Pb :	4.903	bar (g)
Specific Gravity - G :	1	
Overpressure β (%) :	10	
Flow coefficient - Kd :	0.701	
Overpressure Coefficient - Kp :	1	
BP Correction Factor - Kw :	0.69	
Viscous Correction factor - Kv :	1	
Reynolds number :	3.58541e+006	

Id	Rev	Sizing Results		
39		Selected Area :	12.91	sq. in.
40			83.29	cm²
41		Orifice :	Q	
42		Max. Reaction Force :	54	DaN
43		Max capacity :	469781	kg/hr
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Comments and Deviations

Suivant numero de série 009/047067/96
 Valider les conditions de process, matières, raccords, dimensions
 Débit maxi : 469781 kg/h

Revision Control				
Date				TRILLIUM Flow Technologies France
Date				www.trilliumflow.com
Date				Program Version 8.8.1

0	Date	30/06/2020		Mme Véronique Serlet	Id Valve	752781	TSAR
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SARASIN-RSBD™
Pressure Safety Devices

Pressure Relief Valve

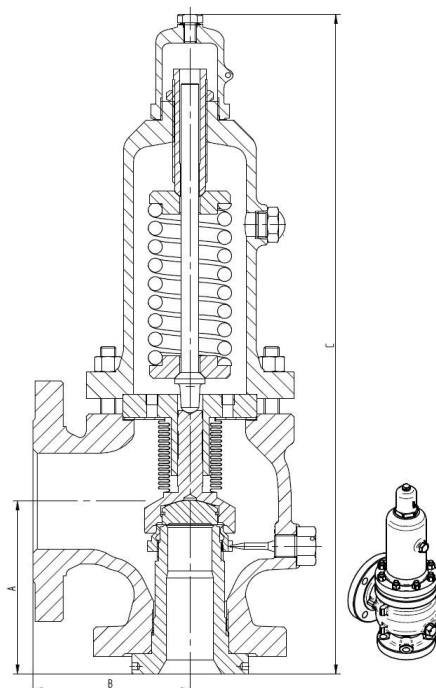
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Id	Rev	Bill Of Material
55		Body SA 216 Gr. WCC
56		Bonnet SA 216 Gr. WCC
57		Cap Carbon Steel
58		Nozzle A 479 Gr. 316L
59		Disc SA 564 Gr. 630
60		Gaskets SA 240 Gr 316L
61		Spring A 232
62		Guide A 479 Gr. 431
63		Adjusting Ring SA 351 Gr. CF3M
64		Bellows A 479 Gr. 316L
65		Stud SA 193 Gr. B7
66		Nut SA 194 Gr. 2H
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Id	Rev	End Connection Details
91		Inlet : 6"
92		Inlet Finish : Class 300 RF (125-250 AARH)
93		Orifice : Q
94		Outlet : 8"
95		Outlet Finish : Class 150 RF (125-250 AARH)
96		According to Standard:- ASME B16.5:2017



Dimensions & Weight				
A =	239.7	mm	9.4	inch
B =	241.3	mm	9.5	inch
C* =	1070	mm	42.1	inch
Weight*	255	Kg	562.2	pound

* the GAD is authoritative

Id	Rev	Valve Accessory(ies)
97		V : Test Gag
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Id	Rev	Pilot Accessory(ies)
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