

Pressure relief valve data sheet

Project		Document number	
Revision		Date	
Prepared by		Checked by	
Tag number			

One sheet per tag number. Luofu Valve Group fills in the shaded lines. Write the unit if it differs from the one shown.

Blank form from pressurereliefdevice.com, Luofu Valve Group. The page pressurereliefdevice.com/engineering/psv-datasheet/ explains each line.

Line	Field	Unit	Value	Filled in by
General				
1	Tag number			Purchaser
2	Service			Purchaser
3	P&ID number			Purchaser
4	Design (safety, relief, or safety relief)			Purchaser
5	Type (conventional, bellows, or pilot-operated)			Purchaser or manufacturer
6	Bonnet type			Purchaser or manufacturer
7	Ambient temperature	°C		Purchaser
8	Allowable sound pressure level	dBA		Purchaser
9	Balanced valve (yes or no)			Purchaser or manufacturer
10	Spare valve (yes or no)			Purchaser
11	Upstream rupture disc required (yes or no)			Purchaser
12	Rupture disc tag number			Purchaser
13	Relief contingency			Purchaser
Line and equipment				
14	Line number			Purchaser
15	Pipe class			Purchaser
16	Equipment number			Purchaser
17	Line size	NPS or DN		Purchaser
17	Line schedule			Purchaser
18	Line material			Purchaser
19	Pipe insulation thickness			Purchaser
Process conditions				
20	Fluid			Purchaser
20	Phase			Purchaser
21	Required capacity	kg/h		Purchaser
22	Operating specific gravity			Purchaser
22	Corrosive, erosive, or toxic components			Purchaser
23	Operating pressure, normal	bar(g)		Purchaser
24	Operating temperature	°C		Purchaser
25	Set pressure	bar(g)		Purchaser
26	Relieving temperature	°C		Purchaser
27	Back pressure, constant	bar(g)		Purchaser
28	Back pressure, built-up	bar(g)		Purchaser
29	Back pressure, total	bar(g)		Purchaser
30	Allowable overpressure	%		Purchaser
30	Latent heat of vaporization	kJ/kg		Purchaser
31	Compressibility factor			Purchaser
31	Overpressure factor			Purchaser or manufacturer
32	Design pressure, maximum and minimum	bar(g)		Purchaser

Line	Field	Unit	Value	Filled in by
33	Relief viscosity	cP		Purchaser
33	Relief density	kg/m ³		Purchaser
34	Barometric pressure	bar(a)		Purchaser
34	Ratio of specific heats (Cp/Cv)			Purchaser
35	Design temperature, maximum and minimum	°C		Purchaser
36	Molecular weight	kg/kmol		Purchaser

Basis and selection

38	Design code			Purchaser
39	Sizing basis			Purchaser or manufacturer
39	Case			Purchaser
40	Calculated area	cm ²		Manufacturer
41	Selected area	cm ²		Manufacturer
42	Orifice designation			Manufacturer
42	Calculated sound pressure level	dBA		Manufacturer
43	Overpressure cause			Purchaser
43	Coefficient of discharge			Manufacturer

Connections

45	Inlet and outlet		Inlet	Outlet	
46	Size	NPS or DN			Purchaser or manufacturer
47	Rating				Purchaser
48	Facing				Purchaser
49	Inlet and outlet connection type				Purchaser

Materials

51	Body and bonnet			Purchaser or manufacturer
51	Seat and rings			Purchaser or manufacturer
52	Resilient seat seal			Purchaser or manufacturer
52	Guide and rings			Purchaser or manufacturer
53	Spring			Manufacturer
54	Pilot material			Purchaser or manufacturer

Options

56	Cap, screwed or bolted			Purchaser or manufacturer
56	Test gag			Purchaser
57	Lever, plain or packed			Purchaser
57	Valve serial number			Manufacturer
58	Spring range	bar(g)		Manufacturer
58	Spring serial number			Manufacturer
59	Back pressure capacity correction factor, vapor or liquid			Manufacturer

Purchase

61	Supplier			Purchaser
62	Manufacturer			Manufacturer
63	Model			Manufacturer
64	Purchase order number			Purchaser
65	Serial number			Manufacturer

Notes

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