KITO Armaturen GmbH

Type sheet
Pressure relief valve
KITO® DS/oG-…

Dimensions (mm) and settings (mbar)

DN		D	H	setting	kg
DIN	ASME				
50 PN 16	2"	203	366		9
80 PN 16	3"	298	417		13
100 PN 16	4"	298	473		18
150 PN 16	6"	468	546	2-60	37
200 PN 10	8"	503	631		47
250 PN 10	10"	653	734		70
300 PN 10	12"	653			

Indicated weights are understood without weight load and refer to the standard design

Example for order

KITO® DS/oG-50
(design DN 50 with flange connection DN 50 PN 16)

Without EC certificate and C€-marking

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Pressure relief valve
KITO® DS/oG-…

Design

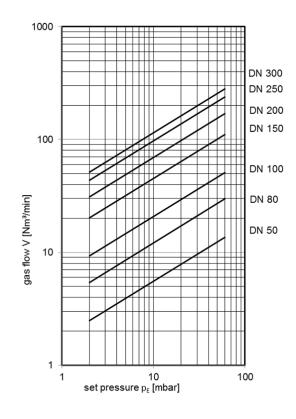|	standard	optionally
housing	steel	stainless steel mat. no. 1.4571
valve seat	stainless steel mat. no. 1.4571	
weather hood	stainless steel	
protective screen	stainless steel mat. no. 1.4301	
flange connection	EN 1092-1 type B1	ASME B16.5 Class 150 RF

Design valve pallet

design	pressure range I 2 - < 3.5 mbar	pressure range II ≥ 3.5 - 14 mbar	pressure range III > 14 - 35 mbar	pressure range IV > 35 - 60 mbar
pallet	aluminum	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571
valve spindle	aluminum / stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571	stainless steel mat. no. 1.4571
valve sealing	FEP & HD3822	FEP & HD3822	PTFE	PTFE

Performance curves

Flow capacity V based on air of a density ρ = 1.29 kg/m³ at T = 273 K and atmospheric pressure p = 1.013 mbar. For other gases the flow can be approximately calculated by

$$\dot{V}_{20\%} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \qquad or \qquad \dot{V}_b = \dot{V}_{20\%} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

The indicated flow rates will be reached by an accumulation of 20 % above valve's setting. If the allowable overpressure is less 20%, please consult der factory for the corrected volume flow.