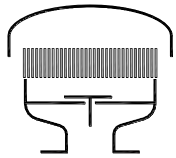
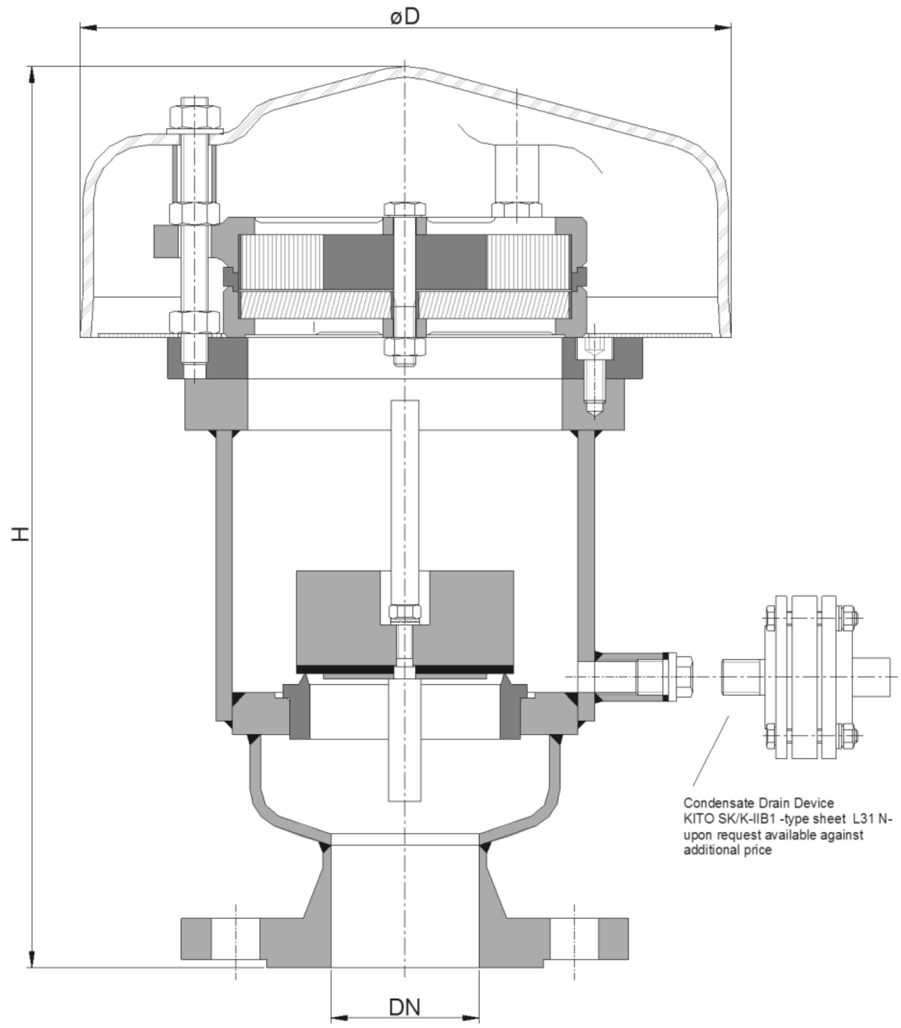
Pressure Relief Valve
KITO® DS/KS-IIB1-…





Example to order :

With additional examination and approval, applicable also for alcohols (ethanol, methanol...)

KITO® DS/KS-IIB1-50
(design with flange connection DN 50 PN 16)

Type examination certificate to DIN EN ISO 16852 and CE -designation in accordance to ATEX-Guideline 94/9/EC

DN		D	H		kg*	setting (mbar)	
DIN	ANSI		DIN	ANSI		min.	max.
50 PN 16	2“	220	332	352		1.6	123

Dimensions in mm * Indicated weights are understood without weight load and refer to the standard design.

standard valve setting 7-30 mbar -different settings against additional price-

Design subject to change performance curves: C 0.7.1 N

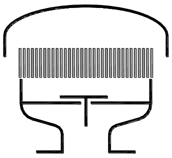
Standard design

housing	: steel, stainless steel mat. no. 1.4571
valve seat / spindle	: stainless steel mat. no. 1.4571
valve sealing	: NBR, Viton, PTFE
KITO® flame arrester element	: completely interchangeable
KITO® casing	: mat. no. 1.4408
KITO® grid	: mat. no. 1.4310 / 1.4571
weather hood	: PMMA
protective screen	: PA6
flange connection	: DIN EN 1092-1 form B1, ANSI 150 lbs. RF

Application

As an end-of-line flame arrester, explosion and endurance burning proof for all inflammable liquids and vapors of explosion group IIB1 and also for alcohols with a maximum experimental safe gap (MESG) ≥ 0.85 mm.
Safety valve for out breathing pipes of storage tanks as a protection against overpressure. By appropriate pressure adjustment the gasification losses of the storage product are prevented or strongly limited.
Usually mounted on the top of the tank in conjunction with a vacuum relief valve (see KITO® VS/KS-IIB3).

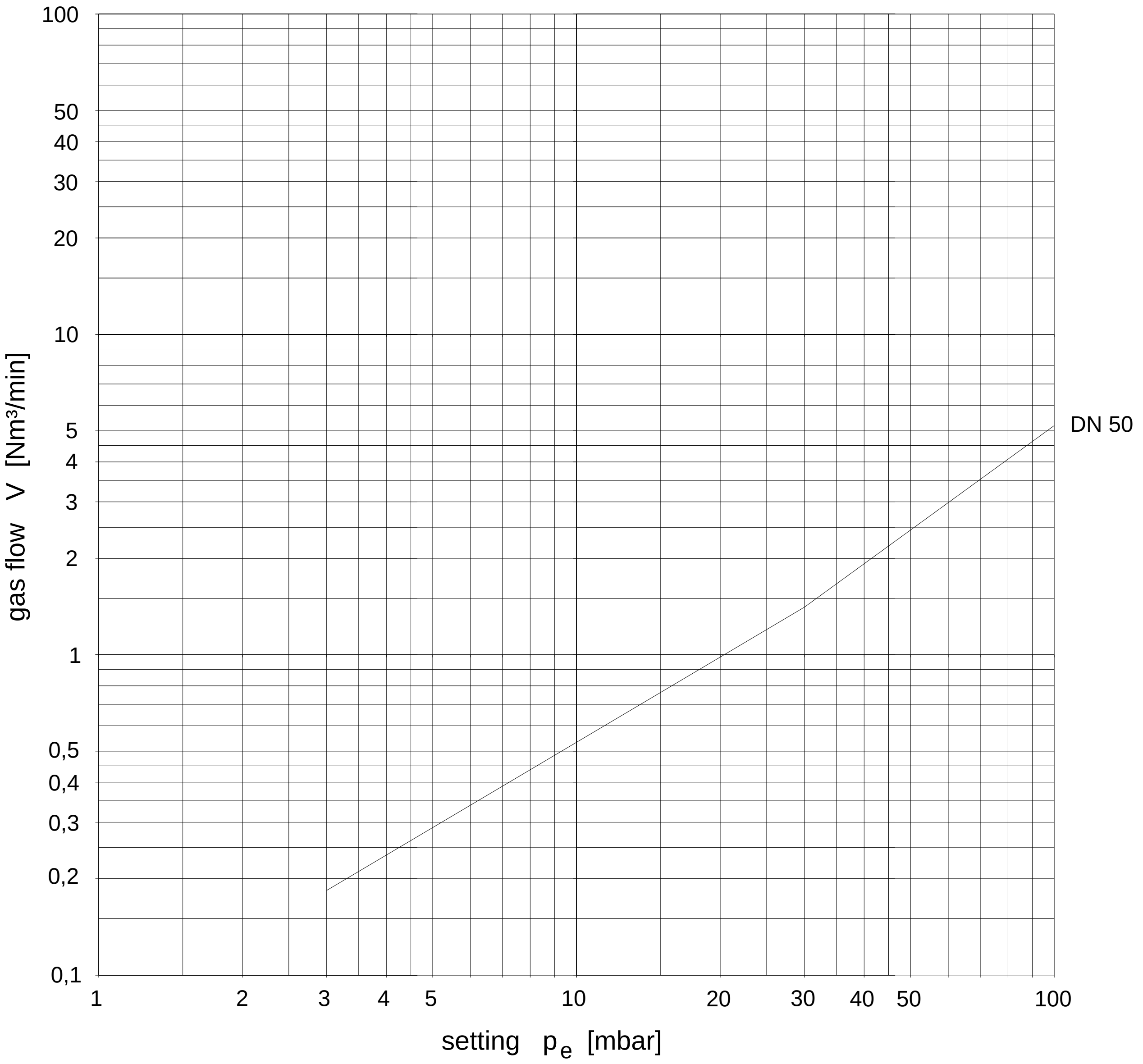
An explosion proof condensate drain is also available for this model at extra cost.



The flow capacity V refers to a density of air with ρ = 1.29 kg/m³.
The flow capacity for gases with different densities can be calculated sufficiently accurate by the following approximation equation:

$$\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \quad \text{resp.} \quad \dot{V}_b = \dot{V} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

Indicated flow rates will be reached by an accumulation of 40% above valve's setting (see DIN 4119).
If different accumulations are required see sheet A 31N sheet 1.



Design subject to change