



USER DATA

Name: Marc Van De Sijpe

Company: Ritec

PROJECT INFORMATION

Ref. : PSV EXT VC

Posición: ----- NOT DEFINED -----

TAG. :

PSV. :

Number of Units: 1

Date: 07/27/2009

GENERAL INFORMATION OF VALVE

Article code: 200249683461

L1[mm]: 85

Model: 496

L2[mm]: 95

Type: AP

H[mm]: 350

Type of lift: AIT

h1[mm]: 112

Material: Nodular Iron (EN-JS1030 EN-GJS-400-15)

Weight[kg]: 8,07

Nominal Pressure [bar]: 40,00

Diameter of draining screw: 1/4"

do [mm]: 16,00

Ao [mm²]: 201,00

CONNECTIONS

DN Inlet: 20

DN Outlet: 32

Sizes of intake flange

Sizes of escape flange

D1 [mm]: 105 k1 [mm]: 75

D2 [mm]: 140 k2 [mm]: 100

I1 [mm]: 14 b1 [mm]: 16

I2 [mm]: 19 b2 [mm]: 18

Drills N°: 4

Drills N°: 4

Type: PN-25/40 EN-1092-2, EN-1092-1

Type: PN-10/16 EN-1092-2, EN-1092-1

FLUID PROPERTIES

SATURATED STEAM

Name: SATURED STEAM

Coefficient of discharge [Xd]: 0,78

Temperature of saturation [°C]: 201,38

Specific volume [m³/kg]: 0,12393

Ratio of specific heats [k]: 1,134

SERVICE CONDITIONS

Set pressure [bar]: 15,00

Back pressure [bar]: 0,00

Discharge capacity required (2)[kg/h]: 710,00

Certifiable discharge capacity (2)[kg/h]: 1.419

Standard discharge capacity (1)[kg/h]: 1.290

Actual discharge capacity (2)[kg/h]: 1.577

Additional certifiable discharge capacity (2)[%]: 49,96

do Calculated [mm]: 11,20

Ao Calculated [mm²]: 98,45

For more information about this model see our monographic leaflet.

NR: 2507

Calculus according to ISO-4126-1:2004 "Safety valves".

Note: (1).- Standard: Atmospheric counterpressure 0% overpressure.

(2).- Discharge capacity under service conditions. Over pressure 10,00 %.

Certifiable discharge capacity equals the theoretical discharge capacity multiplied by discharge coefficient and by factor 0,9.