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Customers Order No.:	190847
LESER-Job-No.:	20415326 / 10
LESER-Customers-No.:	111733
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Attention! Translation of original and signed document.

Inspection certificate 3.2 according to DIN EN 10204 for setting of safety valves

in accordance to AD 2000-Merkblatt A2 chapter 11.4, AD 2000-Merkblatt HP 512R chapter 5, HP 512 chapter 7 and PED 2014/68/EU, annex I chapter 3.2.3

Test object

High Performance Safety Relief Valve, Type 442 DIN,
open bonnet, lifting device H3,
for steam, gas and liquid service

Art.-No.	Cold differential test pressure		Option Code: K7UM33MB1K4XH03K3GP2AJA7X00H88H84H51H47H22L8JL64L49H01			
4422.4575	18,24 barg	264,6 psig	Further SV-Info:			
Tag-No.	LESER-Job-No.	Pos.-No.	Serial-No.	Body material	Nominal size: Inlet Outlet	Pressure rating: Inlet Outlet
	20415326	10	11574734	1.0619/ WCB/ WCC	DN 100 DN 150	PN 40 PN 16
Kind of certification	VdTUEV Type Test Approval		EG-Type Examination		ASME Certification	
Rules	AD 2000-Merkblatt A2:		DIN EN ISO 4126-1:		ASME-Code Sec.VIII, Div.1:	
Certification No. / valid until	D/G:	TÜV-SV 19-576 05.24	G/S:	072020111Z0008/0/08-3 06.20	G/S:	M37044 02.24
	F:	TÜV-SV 19-576 05.24	L:	072020111Z0008/0/08-3 06.20	L:	M37055 02.24
Flow diameter	d ₀	92 [mm]	-	92 [mm]	-	3,622 [in.]
Flow area	A	6647,6 [mm ²]	A	6647,6 [mm ²]	A	10,304 [sq.in.]
Certified derated coefficient of discharge	a _w	D/G: 0,70 F: 0,45	K _{dr}	G/S: 0,70 L: 0,45	K	G/S: 0,699 L: 0,521
Certified capacity						
Lift	H	22,4 [mm]	h	22,4 [mm]	l	0,88 [in.]
Overpressure	c	D/G: 5 [%] F: 10 [%]	c	G/S: 5 [%] L: 10 [%]	-	G/S: 10[%] L: 10[%]
Cold differential test pressure	p	18,24 [bar g]	p _e	18,24 [bar g]	cdtp	264,6 [psig]
Temperature	T	250,00 [°C]	T	250,00 [°C]	T	482 [°F]
Backpressure	p _a	0,00 [bar g]	-	0,00 [bar g]	-	0,00 [psig]
Set pressure	p	18,00 [bar g]	p	18,00 [bar g]	p	261,1 [psig]

Setting

Setting at
with
at
according to LGS 0202.

[X] air
[X] ambient temperature

[] water
[] saturated steam temperature

18,24 [X] barg [] psig
[] saturated steam
[] °C [] °F

The safety valve is locked by a seal, marked with:




Anatoli Vilenski
Inspection Representative

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Representative of the AB of the TÜVNORD