

Leser



Garanti: 12 ay
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rn	Aıklama
4412.4554	High performance safety valve, type 441 DIN, closed bonnet, gas-tight ventilation H4, for vapors, gases and liquids
4421.4385	4421.4385 Weight: 9,200 KG / ST Item number: 84814010 Technical Specification: Order code output, line 1: K7TMB1K4XL50K3IP2AJA7X00H88H84 Order code output, line 2: H51H45H23L8JL64L49 Housing material: (H23) 0.7043 (GGG40.3) Note on materials: different material will be delivered! Nominal size inlet DN 25 Nominal size outlet DN 40 d0 (ASME-DIN) [mm] 23.0 Flange pressure level inlet (H45) PN 16 according to DIN EN 1092 Flange pressure stage outlet (H51) PN 16 according to DIN EN 1092 Flange sealing surface inlet: (H84) Form B1 (rough) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Response pressure: 7.00 Pressure unit: bar-g Response pressure [bar-g] 7.00 Response pressure in psi-g: 101.53 Cold set pressure [bar-g] 7.00 Cold set pressure [psi-g] 101.53 Operating temperature: 20 Temperature unit: ° C - Celsius Operating temperature [° C] 20.00 Operating temperature in ° F: 68 Plate, metallic / mat.: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite / 1.4401 Spring hood material: (JA7) Spring bonnet material 0.7040 / 60-40-18 Spring material (X00) Standard material Guide disc material: (K3I) Guide disc material: 1.4104 / 430F Spindle material (K4X) Spindle material: 1.4021 Pressure screw material: (K7T) 1.4104 / 430F + PTFE / glass Studs mat. Pos. 55 (L8J) Material of studs Pos. 55: 1.7225 / SA-193 B7 / SA-320 L7 Hexagon nuts mat. Pos. 56 (L9J) Material of hexagon nuts Pos. 56: 1.7225 / SA-194 size 7 / SA-320 7L Color: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Pressure setting: (L50) Valve set, but set pressure not stamped on the nameplate

4444.3644	High performance safety valve, Type 444 DIN, closed spring hood, gas-tight lifting H4, for vapors, gases and liquids Technical Specification: Order code output, line 1: H03M09X00171I72H02H01L30N70N75 Order code output, line 2: (N89) Medium: liquids liquids Housing material: (H02) 1.4404 / 316L Nominal size inlet DN 25 Nominal size outlet DN 50 d0 (ASME-DIN) [mm] 23.0 Connection entry (I71) FD - flange PN 16 EN 1092 Connection outlet (I72) FD flange PN 16 according to DIN EN 1092 Response pressure: 3.00 Pressure unit: bar-g Response pressure [bar-g] 3.00 Response pressure in psi-g: 43.51 Cold setting pressure [bar-g] 3.00 Cold set pressure [psi-g] 43.51 Operating temperature: 20 Temperature unit: ° C - Celsius Operating temperature [° C] 20.00 Operating temperature in ° F: 68 Material certification for: (H01) Housing - position 1 with material quality certificate 3.1 according to DIN EN 10204 Material certification for: (L30) Spring bonnet - item 9 with material quality certificate 3.1 according to DIN EN 10204 Delivery specification: (N70) Approval according to ASME Sec. VIII Div. 1 (UV stamp) and AD 2000 Delivery specification: (N75) according to Canada approval Delivery specification: (N89) Approval according to the Eurasian Customs Union (EAC - Eurasian Conformity) incl. Technical passport and security report Documentation: (H03) LESER CGA Certificate for Global Application acceptance test certificate 3.1 according to DIN EN 10204 Pressure setting: (M09) with water 3rd marking, pos .: p = 3 bar Type and location of the 3rd indicator: (M39) Marking with punch numbers on the flange edge at the outlet, on the side
Relief Valve	
4412.4524	
4411.4454	
200.0539.9000	
200.0639.9000	
220.1739.9000	
245.0349.0000	
270.3739.0000	
400.6149.0000	
4331.4024	
4332.4184	
4334.4304	
4334.4312	
4334.4314	
4335.8762	
4383.2864	
4393.2884	
4394.2892	
4411.4394	
4411.4424	
4411.4434	
4412.4514	
4412.4544	

4412.4564
4412.4594
4412.4832
4414.4654
4415.7413
442
4421.4395
4562.6024
4592.2474
4592.2493
4593.2513
4593-2522-3L
4594.2142
4594.2162
4594.2172
4594.2174
4594.2182
4594.2582
4623 – 3" ANSI 300 (15°C)
4623.2902
4623.2912
4624.2194
4834.7704
500.1907.0000
500.2107.0000
500.2107.0000 (500.2107.0000, fur Art. 4577.6345)
5262.0022
5262.0152
5262.2042
5263.5002
540.5892.0000
540.9552.0000
540.9982.0205
540.9982.0205 (DRUCKFEDER V100-2 Feder 2 540.9982.0205, fur Art. 4577.6345)

H01 Werkstoffgutenachweis	
H03 Prufungen	
H03 Prufungen, Abnahmen	
H28 Gehäuse-Werkstoff	
J63	
J65	
J78	
LASERSPEED 4000-303	
M33 Prufungen, Abnahmen	
Model: 4374.3142	
pr-3	
pr-3 -Leser CGA	
pr-st -	
SIV H4 (Typ 4412.4514)	
si-1v -24020404412/s	
si-1v -24050804422.4545/sz	
si-2b -41/2	
Typ 4412.4514	
V52	
V88	
PRESSURE SAFETY	VALVE, FLGD . MODEL 4412.4554, REF. NO. 01 - DN 65,55010.2/1SET PRESS. 40BAR , BODY MAT. GP 240 GH (1.0619) REF. LESERSEAT, MAT. NO. 1.4404 POS5
PRESSURE SAFETY VALVE	FLGD . MODEL 4412.4554, REF. NO. 01 - 55010.2/1 , DN 65 , SET PRESS. 40BAR , BODY MAT. GP 240 GH (1.0619) REF. LESERDISK, POS.7
PRESSURE SAFETY VALVE	FLGD . MODEL 4412.4554, REF. NO. 01 - 55010.2/1 , DN 65 , SET PRESS. 40BAR , BODY MAT. GP 240 GH (1.0619) REF. LESERGUIDE W/BUSHPOS.8
PRESSURE SAFETY VALVE	COMP. ASSY. SIZE 2 IN. , MODEL4412.4544, SET PRESS. 40.00BAR
PRESSURE SAFETY VALVE	COMP. ASSY. SIZE 2-1/2 IN. ,MODEL 4412.4554, SET PRESS.40.00 BAR ,
SAFETYRELIEF VALVE	VALVETYPE 4332.4144-H4, DN 20, PN 40 , FLANGEDREF LESER GERMANYTAG. NO. PSV 30057/58 & 70 FORC-3001/2GUIDE W/BUSH
	High performance safety valve, type 441 DIN, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7TMB1K4XK3GP2AJ36X00H88H84H51 Order code output, line 2: H47H22L8JL64L49 Medium: steam steam Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Nominal size inlet DN 125 Nominal size outlet DN 200 d0 (ASME-DIN) [mm] 98.0 Discharge coefficient D/G: 0.70 Coefficient of discharge F: 0.45 Flange rating inlet (H47) PN 40 according to DIN EN 1092 Flange rating outlet (H51) PN 16 according to DIN EN 1092 Flange facing inlet: (H84) Form B1 (rough) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Response pressure: 23.00 Pressure unit: bar-g Response pressure [bar-g] 23.00 Set pressure in psi-g: 333.59 Cold set

4412.4582	pressure [bar-g] 23.57 Cold Set Pressure [psi-g] 341.88 Operating temperature: 270 Temperature unit: °C - Celsius Operating temperature [°C] 270.00 Operating temperature in °F: 518 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X00) standard material Guide washer material: (K3G) Guide washer material: 1.0460/ SA-105 Spindle material (K4X) Spindle material:1.4021 Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Stud bolts material item 55 (L8J) Material stud bolts item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 TAG No., Valve 1: PSV-1412F TAG No., Valve 2: PSV-1422F TAG-No., valve 3: ? TAG-No., valve 4: ? Type and position of the TAG No.: (M25) Labeling with tag (foil / paper)
4594.2172	Compact Performance safety valve, type 459, closed spring cap, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7SM33MB1K4ZH03163J54X00I31I49 Order code output, line 2: L44MA9MA3MA8MA6H01 E-body material : 1.4404/316L 1.4404 / 316L Fl.Conn.Entry: (I31) DN 25 PN 40 according to DIN EN 1092 Flow connection outlet: (I49) DN 40 PN 40 according to DIN EN 1092 Nominal size inlet DN 25 Nominal size outlet DN 40 Pressure stage entry PN 40 Pressure stage outlet PN 40 d0 (ASME-DIN) [mm] 13.0 Response pressure: 40.00 Pressure unit: bar-g Response pressure [bar-g] 40.00 Set pressure in psi-g: 580.15 Cold set pressure [bar-g] 40.00 Cold Set Pressure [psi-g] 580.15 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L44) made of material 1.4404/ 316L Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7S) Pressure screw material: 1.4404/ 316L Spring cap material: (J54) Spring cap material 1.4408 / CF8M, cast version Spring material (X00) standard material Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 Discharge coefficient D/G: 0.81 Coefficient of discharge F: 0.53
4373.2604	Compact Performance safety valve, type 437, closed spring hood, gas-tight lifting H4, for vapours, gases and liquids Technical specification: Order code output, line 1: K7TM33K4XH03P2AX00V54V65L49MB8 Order code output, line 2: (H01) E body material: 1.4104/430 1.4104 / 430 Outlet body material: (MB8) Outlet body material:1.4104/ 430F Weighted Connection Entry: (V54) External thread G 1/2" according to DIN ISO 228-1 Threaded outlet: (V65) Internal thread G 1/2" according to DIN ISO 228-1 Nominal size inlet G 1/2" Nominal size outlet G 1/2" Pressure stage entry PN 250 Pressure level outlet PN 160 d0 (ASME-DIN) [mm] 10.0 Discharge coefficient D/G: 0.50 Coefficient of discharge F: 0.35 Response pressure: 9.00 Pressure unit: bar-g Response pressure [bar-g] 9.00 Set pressure in psi-g: 130.53 Cold set pressure [bar-g] 9.00 Cold Set Pressure [psi-g] 130.53 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L49) made of material: 1.4122 Spindle material (K4X) Spindle material:1.4021 Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Lifting / cap material: (K8Y) Lifting / cap Material: 1.4104/ 430F + FKM Spring material (X00) standard material Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204
	Compact Performance safety valve, type 459, closed spring hood, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7SM33MB1K4ZH03163J54X00I31I49 Order

4594.2172	code output, line 2: L44MA9MA3MA8MA6H01 E-body material : 1.4404/316L 1.4404 / 316L Fl.Conn.Entry: (I31) DN 25 PN 40 according to DIN EN 1092 Flow connection outlet: (I49) DN 40 PN 40 according to DIN EN 1092 Nominal size inlet DN 25 Nominal size outlet DN 40 Pressure stage entry PN 40 Pressure stage outlet PN 40 d0 (ASME-DIN) [mm] 13.0 Response pressure: 40.00 Pressure unit: bar-g Response pressure [bar-g] 40.00 Set pressure in psi-g: 580.15 Cold set pressure [bar-g] 40.00 Cold Set Pressure [psi-g] 580.15 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L44) made of material 1.4404/ 316L Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7S) Pressure screw material: 1.4404/ 316L Spring cap material: (J54) Spring cap material 1.4408 / CF8M, cast version the material (X00) standard material Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing # Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 Discharge coefficient D/G: 0.81 Coefficient of discharge F: 0.53
Detector 85815 LASERSPEED 4000-303	
4593.2524	Compact Performance safety valve, type 459, closed spring hood, gas-tight lifting H4, for vapours, gases and liquids Weight: 5 KG / ST Commodity number: 84814010 Technical specification: Order code output, line 1: K7RMB1K4XH03L50K3IP2AJ36X00V56 Order code issue, line 2: V67L49MA2H01 E body material: 1.4104/430 1.4104 / 430 Wrong Connection Entry: (V56) External thread G 1" according to DIN ISO 228-1 Threaded outlet: (V67) Internal thread G 1 1/2" according to DIN ISO 228-1 Nominal diameter entry G 1" Nominal size outlet G 1 1/2" Pressure stage entry PN 160 Pressure stage outlet PN 40 d0 (ASME-DIN) [mm] 17.5 Response pressure: 3.70 Pressure unit: bar-g Response pressure [bar-g] 3.70 Set pressure in psi-g: 53.66 Cold set pressure [bar-g] 3.70 Cold Set Pressure [psi-g] 53.66 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7R) Pressure screw material: 1.4104 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X00) standard material Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 Pressure setting: (L50) Valve set, but set pressure not stamped on nameplate Discharge coefficient D/G: 0.79 Coefficient of discharge F: 0.52
5393	
4374.3142	Compact Performance safety valve, type 437, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7UM33K4ZH03X00V55V76L44MA5H01 Medium: vapours/gases/liquids Vapours/Gases/Liquids E-body material : 1.4404/316L 1.4404 / 316L Outlet body material: (MA5) 1.4401/ 1.4404/ 316/ 316L Outlet nozzle Material: n.a. A flange material: n.a. Weighted Connection Entry: (V55) External thread G 3/4" according to DIN ISO 228-1 Threaded outlet: (V76) Internal thread G 3/4" according to DIN ISO 228-1 Nominal size inlet G 3/4" Nominal size outlet G 3/4" Pressure stage entry PN 250 Pressure level outlet PN 160 d0 (ASME-DIN) [mm] 10.0 Coefficient of discharge F: 0.35 Pressure unit: bar-g Cold set pressure [bar-g] 0.00 Cold Set Pressure [psi-g] 0.00 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L44) made of material 1.4404/ 316L Spindle material (K4Z) Spindle material: 1.4404/ 316L Pressure screw material: (K7U) 1.4401/ 1.4404/ 316/ 316L + PTFE/ glass Lifting / cap material: (K8T) Lifting / cap material: 1.4404/ 316L Spring material (X00) standard material Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD

	504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204
4594.2182	Compact Performance safety valve, type 459, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7SM33MB1K4ZH03I63J54X00V56V67 Order code output, line 2: L44MA3H01 E-body material : 1.4404/316L 1.4404 / 316L Wrong Connection Entry: (V56) External thread G 1" according to DIN ISO 228-1 Threaded outlet: (V67) Internal thread G 1 1/2" according to DIN ISO 228-1 Nominal diameter entry G 1" Nominal size outlet G 1 1/2" Pressure stage entry PN 160 Pressure stage outlet PN 100 d0 (ASME-DIN) [mm] 17.5 Response pressure: 50.00 Pressure unit: bar-g Response pressure [bar-g] 50.00 Set pressure in psi-g: 725.19 Cold set pressure [bar-g] 50.00 Cold Set Pressure [psi-g] 725.19 Operating temperature: 40 Temperature unit: °C - Celsius Operating temperature [°C] 40.00 Operating temperature in °F: 104 Plate, metallic / material: (L44) made of material 1.4404/ 316L Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7S) Pressure screw material: 1.4404/ 316L Spring cap material: (J54) Spring cap material 1.4408 / CF8M, cast version Spring material (X00) standard material Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 Discharge coefficient D/G: 0.79 Coefficient of discharge F: 0.52 Attachment: Catalog excerpt Type 459
4594.2142	Compact Performance safety valve, Type 459 Heavy duty design, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7SM33MB1K4ZH03I63J54X00V54V66 Order code output, line 2: L20J25MA3H01 E-body material : 1.4404/316L 1.4404 / 316L Weighted Connection Entry: (V54) External thread G 1/2" according to DIN ISO 228-1 Threaded outlet: (V66) Internal thread G 1" according to DIN ISO 228-1 Nominal size inlet G 1/2" Nominal size outlet G 1" Pressure stage entry PN 500 Pressure level outlet PN 160 d0 (ASME-DIN) [mm] 9.0 Response pressure: 400.00 Pressure unit: bar-g Response pressure [bar-g] 400.00 Set pressure in psi-g: 5,801.51 Cold set pressure [bar-g] 400.00 Cold Set Pressure [psi-g] 5801.51 Operating temperature: 40 Temperature unit: °C - Celsius Operating temperature [°C] 40.00 Operating temperature in °F: 104 Seat: (L20) Entry body with armored sealing surface Plate, metallic / Wst.: (J25) 1.4404/ 316L, metal sealing plate, rotatable with detachable lifting bell, stellated Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7S) Pressure screw material: 1.4404/ 316L Spring cap material: (J54) Spring cap material 1.4408 / CF8M, cast version Spring material (X00) standard material Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 Discharge coefficient D/G: 0.83 Coefficient of discharge F: 0.61 Attachment: Catalog excerpt Type 459
	Compact Performance safety valve, Type 459 Heavy duty design, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7SM33MB1K4ZH03I63J54X00V56V66 Order code output, line 2: L20J25MA3H01 E-body material : 1.4404/316L 1.4404 / 316L Wrong Connection Entry: (V56) External thread G 1" according to DIN ISO 228-1 Threaded outlet: (V66) Internal thread G 1" according to DIN ISO 228-1 Nominal diameter entry G 1" Nominal size outlet G 1" Pressure stage entry PN 500 Pressure level outlet PN 160 d0 (ASME-DIN) [mm] 9.0 Response pressure: 400.00 Pressure unit: bar-g Response pressure [bar-g] 400.00 Set pressure in psi-g: 5,801.51 Cold set pressure [bar-g] 400.00 Cold Set Pressure [psi-g] 5801.51 Operating temperature: -196 Temperature unit: °C - Celsius Operating temperature [°C] -196.00

4594.2142.	Operating temperature in °F: -321 Seat: (L20) Entry body with armored sealing surface Plate, metallic / Wst.: (J25) 1.4404/ 316L, metal sealing plate, rotatable with detachable lifting bell, stellated Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7S) Pressure screw material: 1.4404/ 316L Spring cap material: (J54) Spring cap material 1.4408 / CF8M, cast version Spring material (X00) standard material Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 Discharge coefficient D/G: 0.83 Coefficient of discharge F: 0.61 Attachment: Catalog excerpt Type 459
4421.4385	High performance safety valve, type 442 DIN, open spring hood, lifting H3, for vapours, gases and liquids + H01 material quality certificate + H03 tests, acceptances + M33 tests, acceptances ----- ----- Technical specification: Order code output, line 1: K7TM33MB1K4XH03K3IP2AJ36X00H88 Order code output, line 2: H84H51H45H23L8JL64L49H01 Medium: vapours/gases/liquids Vapours/Gases/Liquids Housing material: (H23) 0.7043 (GGG40.3) Note on materials: different material will be delivered! Nominal size inlet DN 25 Nominal size outlet DN 40 d0 (ASME-DIN) [mm] 23.0 Coefficient of discharge F: 0.45 Flange rating inlet (H45) PN 16 according to DIN EN 1092 Flange rating outlet (H51) PN 16 according to DIN EN 1092 Flange facing inlet: (H84) Form B1 (rough) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Pressure unit: bar-g Cold set pressure [bar-g] 0.00 Cold Set Pressure [psi-g] 0.00 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X00) standard material Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Guide washer material: (K3I) Guide washer material: 1.4104/ 430F Spindle material (K4X) Spindle material:1.4021 Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Stud bolts material item 55 (L8J) Material stud bolts item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 OFFER ! : Please specify response pressure when ordering! General information We offer a standard type. Please check the execution
4422.4565	High performance safety valve, type 442 DIN, open spring hood, lifting H3, for vapours, gases and liquids Technical specification: Order code output, line 1: K7TM33MB1K4XH03K3FP2AJ36X00H88 Order code output, line 2: H84H51H47H22L8JL64L49H01 Medium: vapours/gases/liquids Vapours/Gases/Liquids Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Nominal diameter entry DN 80 Nominal size outlet DN 125 d0 (ASME-DIN) [mm] 74.0 Coefficient of discharge F: 0.45 Flange rating inlet (H47) PN 40 according to DIN EN 1092 Flange rating outlet (H51) PN 16 according to DIN EN 1092 Flange facing inlet: (H84) Form B1 (rough) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Pressure unit: bar-g Cold set pressure [bar-g] 0.00 Cold Set Pressure [psi-g] 0.00 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X00) standard material Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Guide washer material: (K3F) Guide washer material: 1.0501 Spindle material (K4X) Spindle material:1.4021 Pressure screw material: (K7T) 1.4104/ 430F + PTFE/

	glass Stud bolts material item 55 (L8J) Material stud bolts Item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 OFFER ! : Please specify response pressure when ordering! General information We offer the standard version. Please check. In the case of an order, we still need the response pressure
4332.4152	Modulate Action Safety Valve, Type 433, normal SV, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Including: H01 material quality certificate H03 tests, approvals M33 tests, approvals Technical specification: Order code output, line 1: K7TM33MB1K4XH03K3IP2AJ36X00H88 Order code output, line 2: H84H15H47H22L8JL64L49H01 Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Nominal size inlet DN 25 Nominal size outlet DN 25 d0 (ASME-DIN) [mm] 18.0 Discharge coefficient D/G: 0.38 Coefficient of discharge F: 0.25 Flange rating inlet (H47) PN 40 according to DIN EN 1092 Flange rating outlet (H15) PN 40 according to DIN EN 1092 Flange facing inlet: (H84) Form B1 (rough) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Response pressure: 12.00 Pressure unit: bar-g Response pressure [bar-g] 12.00 Set pressure in psi-g: 174.05 Cold set pressure [bar-g] 12.00 Cold Set Pressure [psi-g] 174.05 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Spring material (X00) standard material Spring cap material: (J36) 0.7043 (GGG 40.3) Guide washer material: (K3I) Guide washer material: 1.4104/ 430F Spindle material (K4X) Spindle material:1.4021 Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Lifting / cap material: (K8R) Lifting / Cap Material: 1.0460/ SA-105 Stud bolts material item 55 (L8J) Material stud bolts Item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Blocking screw material: (MB5) Color scheme: (P2A)
3300_0010_W39Q67Q68Q2Y-1"x1"x1"	Q10
5263_5012_J83J70X04-1"x2"	16bar
3300_0010_Q39Q67Q68Q2Y-1"	
5263_5012_J83J70X04	
5262.0012	API Series Safety Valve, Type 526, Orifice D, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7RK2SK2RMB1K4XH03M68K3FP86J99 Order code output, line 2: X00L39H89H79H64H22L8JK1EL44H01 Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Size inlet NPS 1" Size outlet NPS 2" d0 (ASME-DIN) [mm] 14.0 Discharge coefficient D/G: 0.45 Discharge coefficient F: 0.32 Flange rating inlet (H64) 150 lbs per ASME B 16.5 Flange rating outlet (H79) 150 lbs per ASME B 16.5 Flange facing inlet: (H89) serrated spiral finish (Ra = 3.2 - 6.3µm) according to ASME B16.5 Flange sealing surface outlet: (L39) serrated spiral finish (Ra = 3.2 - 6.3µm) according to ASME B16.5 Response pressure: 10.50 Pressure unit: bar-g Response pressure [bar-g] 10.50 Set pressure in psi-g: 152.29 Self-back pressure: 1.05 Cold set pressure [bar-g] 10.50 Cold Set Pressure [psi-g] 152.29 Operating temperature: 42 Temperature unit: °C - Celsius Operating temperature [°C] 42.00 Operating temperature in °F: 108 Seat Liner Material (K1E) Seat bush material: 1.4408 / ASME SA-351 CF8M Plate, metallic / material: (L44) made of material 1.4404/ 316L Guide washer material: (K3F) Guide washer material: 1.0501 Spindle material (K4X) Spindle material:1.4021 Collar material: (K2S) Locking screw material: (K2R) Spring cap material: (J99) Spring cap material 1.0619/ WCB/ WCC Spring material (X00) standard material

	Stud bolts material item 55 (L8J) Material stud bolts item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Color scheme: (P86) Corrosion protection C5M according to ISO 12944 and Norsok Standard M-501 for unalloyed Steels (-50°C to 120°C) in RAL 5005 according to LID 1608.09 Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 Documentation: (M68) Acceptance test certificate 3.1 according to DIN EN 10204: Hydrostatic pressure test of housing and other pressure-bearing components according to LGS 0209 TAG no., valve 1: 10QJB50AA901 TAG no., valve 2: 11QJB50AA901 TAG no., valve 3: 12QJB50AA901 Type and position of the TAG No.: (M25) Labeling with tag (foil / paper) additional License plate specification: (M30) Component test label, fastened with stainless steel notched nails General information Version according to serial number 10973003
4332.4152	Modulate Action Safety Valve, Type 433, normal SV, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7TK5RM33MB1K4ZH03I63J78P2AJ36 Order code output, line 2: X04H88H84H15H47H22L8JL64L44H01 Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Nominal size inlet DN 25 Nominal size outlet DN 25 d0 (ASME-DIN) [mm] 18.0 Discharge coefficient D/G: 0.38 Coefficient of discharge F: 0.25 Flange rating inlet (H47) PN 40 according to DIN EN 1092 Flange rating outlet (H15) PN 40 according to DIN EN 1092 Flange facing inlet: (H84) Form B1 (rough) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Response pressure: 16.00 Pressure unit: bar-g Response pressure [bar-g] 16.00 Set pressure in psi-g: 232.06 External back pressure: variable variable external counter pressure Minimum external back pressure: 0.00 max. external back pressure: 1.00 Cold set pressure [bar-g] 16.00 Cold Set Pressure [psi-g] 232.06 Operating temperature: 30 Temperature unit: °C - Celsius Operating temperature [°C] 30.00 Operating temperature in °F: 86 Plate, metallic / material: (L44) made of material 1.4404/ 316L Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Bellows: (J78) Back pressure compensating bellows, material: stainless steel 1.4571 /316Ti, Spring cap with open control port Spring material (X04) Spring made of material 1.4310 (stainless steel) Spring cap material: (J36) 0.7043 (GGG 40.3) Guide washer material: (I63) Guide washer material: 1.4404/ 316L Hood Extension Material: (K5R) Hood extension Material: 1.4404/ 316L Spindle material (K4Z) Spindle material: 1.4404/ 316L Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Lifting / cap material: (K8R) Lifting / Cap Material: 1.0460/ SA-105 Stud bolts material item 55 (L8J) Material stud bolts item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Blocking screw material: (MB5) Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204
	High performance safety valve, type 441 DIN, closed bonnet, gas-tight cap H2, for vapours, gases and liquids **with J23 O-Ring-Teller Technical specification: Order code output, line 1: K7TM33MB1K4XH03K3FP2AJ36X00H88 Order code output, line 2: H84H51H47H22L8JL64J59J23H01 Medium: gases gases Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Nominal size inlet DN 32 Nominal size outlet DN 50 d0 (ASME-DIN) [mm] 29.0 Discharge coefficient D/G: 0.70 Coefficient of discharge F: 0.45 Flange rating inlet (H47) PN 40 according to DIN EN 1092 Flange rating outlet (H51) PN 16 according to DIN EN 1092 Flange facing inlet: (H84) Form B1 (rough) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Response pressure: 25.00 Pressure unit: bar-g

[4412.4522](#)

Response pressure [bar-g] 25.00 Set pressure in psi-g: 362.59 Cold set pressure [bar-g] 25.00 Cold Set Pressure [psi-g] 362.59 Operating temperature: 50 Temperature unit: °C - Celsius Operating temperature [°C] 50.00 Operating temperature in °F: 122 Plate, metallic / Wst.: (J59) made of material: 1.4104/ 430F Plate, soft sealing: (J23) with soft seal FKM "L"(Viton, Fluorel, Technoflon) Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X00) standard material Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Guide washer material: (K3F) Guide washer material: 1.0501 Spindle material (K4X) Spindle material:1.4021 Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Stud bolts material item 55 (L8J) Material stud bolts Item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing - Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 TAG no., valve 1: PSV201 TAG no., valve 2: ??? Type and position of the TAG No.: (M25) Labeling with tag (foil / paper) General information Attachment: design calculation technical advice Please note the following: Due to the volume flow of 7500 Nm³/h to be discharged, we offer deviating from the Request to. Please take the calculation data from the design calculation sent with you.

[4412.4814](#)

High performance safety valve, type 441 ANSI, closed spring hood, gas-tight lifting H4, for vapours, gases and liquids M33 tests, acceptances H03 tests, acceptances H01 material quality certificate --- Technical specification: Order code output, line 1: K7TM33MB1K4XH03K3IP2AJ36X00L39 Order code output, line 2: H89H79H65H22L8JL64L49H01 Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Size inlet NPS 1" Size outlet NPS 2" d0 (ASME-DIN) [mm] 23.0 Discharge coefficient D/G: 0.70 Coefficient of discharge F: 0.45 Flange rating inlet (H65) 300 lbs per ASME B 16.5 Flange rating outlet (H79) 150 lbs per ASME B 16.5 Flange facing inlet: (H89) serrated spiral finish (Ra = 3.2 - 6.3µm) according to ASME B16.5 Flange sealing surface outlet: (L39) serrated spiral finish (Ra = 3.2 - 6.3µm) according to ASME B16.5 Response pressure: 30.00 Pressure unit: bar-g Response pressure [bar-g] 30.00 Set pressure in psi-g: 435.11 Cold set pressure [bar-g] 30.00 Cold Set Pressure [psi-g] 435.11 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X00) standard material Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Guide washer material: (K3I) Guide washer material: 1.4104/ 430F Spindle material (K4X) Spindle material:1.4021 Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Stud bolts material item 55 (L8J) Material stud bolts Item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord)

Technical specification: Order code output, line 1: K7TK5KM33MB1K4ZH03I63J88P2AJ99 Order code output, line 2: X00H88L36H15H11H24L8JL65H42J24 Order code output, line 3: (H09) Medium: gases gases Housing material: (H24) 1.7357 / WC6 Nominal diameter entry DN 80 Nominal size outlet DN 100 d0 (ASME-DIN) [mm] 60.0 Discharge coefficient D/G: 0.75 Coefficient of discharge F: 0.50 Flange rating inlet (H11) PN 160 according to DIN EN 1092 Flange rating outlet (H15) PN 40 according to DIN EN 1092 Flange sealing surface inlet: (L36) Form B2 (fine) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Response pressure: 30.00 Pressure unit: bar-g Response pressure [bar-g] 30.00 Set pressure in psi-g: 435.11 Cold set pressure [bar-g] 30.81 Cold Set Pressure [psi-g] 446.89 Operating temperature: 480

DN 80-100 PN	Temperature unit: °C - Celsius Operating temperature [°C] 480.00 Operating temperature in °F: 896 Seat Liner Material (L65) Seat liner material: 1.4404/316L stellited Plate, metallic / Wst.: (J24) 1.4122, metal sealing plate, rotatable with detachable lifting bell Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Bellows: (J88) High-temperature version with counter-pressure-compensating bellows. Spring material (X00) standard material Spring cap material: (J99) Spring cap material 1.0619/ WCB/ WCC Guide washer material: (I63) Guide washer material: 1.4404/ 316L Hood extension material: (K5K) Hood extension Material: 1.0460 / SA 105 Spindle material (K4Z) Spindle material: 1.4404/ 316L Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Lifting / cap material: (K8W) Lifting / Cap Material: 0.7040/ 60-40-18 Stud bolts material item 55 (L8J) Material stud bolts Item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Blocking screw material: (MB5) Clamps: (H42) Clamps drilled Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H09) Housing – Position 1 with material quality certificate 3.2 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 ***General information*** Due to the high temperature, 4577.6355 is offered with an open bonnet. We ask for verification.
4593.2502	Compact Performance safety valve, type 459, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7RM33MB1K4XH03K3IP2AJ36X00V55 Order code issue, line 2: V66L49MA2H01 Medium: vapours/gases/liquids Vapours/Gases/Liquids E body material: 1.4104/430 1.4104 / 430 Weighted Connection Entry: (V55) External thread G 3/4" according to DIN ISO 228-1 Threaded outlet: (V66) Internal thread G 1" according to DIN ISO 228-1 Nominal size inlet G 3/4" Nominal size outlet G 1" Pressure stage entry PN 400 Pressure stage outlet PN 40 d0 (ASME-DIN) [mm] 9.0 Response pressure: 20.00 Pressure unit: bar-g Response pressure [bar-g] 20.00 Set pressure in psi-g: 290.08 Cold set pressure [bar-g] 20.00 Cold Set Pressure [psi-g] 290.08 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7R) Pressure screw material: 1.4104 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X00) standard material Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 4.Marking, Pos.: Order 3184756 Pos. 2,000 Type and position of the 4th mark: (M17) Marking world shield 2nd line Discharge coefficient D/G: 0.83 Coefficient of discharge F: 0.61
4593.2522	Compact Performance safety valve, type 459, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7RM33MB1K4XH03K3IP2AJ36X01V56 Order code issue, line 2: V67L49MA2H01 E body material: 1.4104/430 1.4104 / 430 Wrong Connection Entry: (V56) External thread G 1" according to DIN ISO 228-1 Threaded outlet: (V67) Internal thread G 1 1/2" according to DIN ISO 228-1 Nominal diameter entry G 1" Nominal size outlet G 1 1/2" Pressure stage entry PN 160 Pressure stage outlet PN 40 d0 (ASME-DIN) [mm] 17.5 Response pressure: 25.00 Pressure unit: bar-g Response pressure [bar-g] 25.00 Set pressure in psi-g: 362.59 Cold set pressure [bar-g] 25.52 Cold Set Pressure [psi-g] 370.21 Operating temperature: 250 Temperature unit: °C - Celsius Operating temperature [°C] 250.00 Operating temperature in °F: 482 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7R) Pressure screw material: 1.4104 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X01) heat-resistant spring Color scheme: (P2A) 1-layer coating system

	in RAL 5005 according to LID 1608.03 Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 Discharge coefficient D/G: 0.79 Coefficient of discharge F: 0.52
4622.3772	Compact Performance safety valve, type 462, soft seal, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7RM33MB1K4XH03K3IP2AJ99X00V55 Order code issue, line 2: V66L44J23MA2H01 Medium: gases gases E-body material : 1.4404/316L 1.4404 / 316L Weighted Connection Entry: (V55) External thread G 3/4" according to DIN ISO 228-1 Threaded outlet: (V66) Internal thread G 1" according to DIN ISO 228-1 Nominal size inlet G 3/4" Nominal size outlet G 1" Pressure stage entry PN 250 Pressure stage outlet PN 100 d0 (ASME-DIN) [mm] 9.0 Response pressure: 50.00 Pressure unit: bar-g Response pressure [bar-g] 50.00 Set pressure in psi-g: 725.19 External back pressure: constant constant external pressure constant external back pressure: 17.00 cdtp calculation based on: differential pressure method/const. Differential pressure method (response pressure minus external back pressure) Cold set pressure [bar-g] 33.00 Cold Set Pressure [psi-g] 478.62 Operating temperature: 50 Temperature unit: °C - Celsius Operating temperature [°C] 50.00 Operating temperature in °F: 122 Plate, metallic / material: (L44) made of material 1.4404/ 316L Plate, soft sealing: (J23) with soft seal FKM "L" (Viton, Fluorel, Technoflon) Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7R) Pressure screw material: 1.4104 Spring cap material: (J99) Spring cap material 1.0619/ WCB/ WCC Spring material (X00) standard material Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 TAG No., valve 1: PSV101 TAG no., valve 2: ??? Type and position of the TAG No.: (M25) Labeling with tag (foil / paper) Discharge coefficient D/G: 0.83 Coefficient of discharge F: 0.61 General information Attachment: design calculation
4594.2172	Compact Performance safety valve, type 459, closed spring hood, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7SMB1K4ZL50I63J54X00V55V66L44 Order code output, line 2: (MA3) E-body material : 1.4404/316L 1.4404 / 316L Weighted Connection Entry: (V55) External thread G 3/4" according to DIN ISO 228-1 Threaded outlet: (V66) Internal thread G 1" according to DIN ISO 228-1 Nominal size inlet G 3/4" Nominal size outlet G 1" Pressure stage entry PN 160 Pressure stage outlet PN 100 d0 (ASME-DIN) [mm] 13.0 Response pressure: 12.38 Pressure unit: bar-g Response pressure [bar-g] 12.38 Set pressure in psi-g: 179.56 Cold set pressure [bar-g] 12.38 Cold Set Pressure [psi-g] 179.56 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L44) made of material 1.4404/ 316L Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Pressure screw material: (K7S) Pressure screw material: 1.4404/ 316L Spring cap material: (J54) Spring cap material 1.4408 / CF8M, cast version Spring material (X00) standard material Pressure setting: (L50) Valve set, but set pressure not stamped on nameplate Discharge coefficient D/G: 0.81 Coefficient of discharge F: 0.53 General information Like serial no. 11600360. That means without certificates, approvals and without setting the response pressure. Please check whether this is what you want.
SAFETY VALVE SV320026/L	
DN50 43324184	
Dn65 - 43324194	

G1/2 -43732604	
NPS8- NPS12 - 44124612	
1/2 1" - L8S	
DN50 DN 80 - 44124415	
4593.2522,PN250;11/2"-11/2";6BAR-LESER) (1.K)	
4414-5682-18BARg-H65H79-3.1-1"PN300RF-2"PN150RF-	-LESER)(1.K)(315/50NCG)
4594.2182-52BARg-V56V67-3.1-G1"M-G11/2"F-	)(2.K)(315/50NCG)CO2
4414.5682	High Performance Safety Valve, Type 441 ANSI Full Nozzle, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7UM33MB1K4ZH03I64J54X00L39H89 Order code output, line 2: H79H65H28L8KL64L44H01 Housing material: (H28) 1.4408 / CF8M Size inlet NPS 1" Size outlet NPS 2" d0 (ASME-DIN) [mm] 23.0 Discharge coefficient D/G: 0.70 Coefficient of discharge F: 0.45 Flange rating inlet (H65) 300 lbs per ASME B 16.5 Flange rating outlet (H79) 150 lbs per ASME B 16.5 Flange facing inlet: (H89) serrated spiral finish (Ra = 3.2 - 6.3µm) according to ASME B16.5 Flange sealing surface outlet: (L39) serrated spiral finish (Ra = 3.2 - 6.3µm) according to ASME B16.5 Response pressure: 18.00 Pressure unit: bar-g Response pressure [bar-g] 18.00 Set pressure in psi-g: 261.07 Cold set pressure [bar-g] 18.00 Cold Set Pressure [psi-g] 261.07 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Seat Liner Material (L64) Seat bush material: 1.4404/316L Plate, metallic / material: (L44) made of material 1.4404/ 316L Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Spring material (X00) standard material Spring cap material: (J54) Spring cap material 1.4408 / CF8M, cast version Guide washer material: (I64) Guide washer material: 1.4401/ 1.4404/ 316/ 316L Spindle material (K4Z) Spindle material: 1.4404/ 316L Pressure screw material: (K7U) 1.4401/ 1.4404/ 316/ 316L + PTFE/ glass Lifting / cap material: (K8T) Lifting / cap material: 1.4404/ 316L Stud bolts material item 55 (L8K) Material stud bolts Item 55: 1.4401/A4-70/SA-193+320 B8M Hexagon nuts material item 56 (L9K) Material of hexagon nuts item 56: 1.4401/A4-70/SA-194-8M Blocking screw material: (MB5) Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204
4374.3142	Compact Performance safety valve, type 437, closed bonnet, gas-tight cap H2, for vapours, gases and liquids Technical specification: Order code output, line 1: K7UM33K4ZH03X00V54V65L44MA5H01 E-body material : 1.4404/316L 1.4404 / 316L Outlet body material: (MA5) 1.4401/ 1.4404/ 316/ 316L Outlet nozzle Material: n.a. A flange material: n.a. Weighted Connection Entry: (V54) External thread G 1/2" according to DIN ISO 228-1 Threaded outlet: (V65) Internal thread G 1/2" according to DIN ISO 228-1 Nominal size inlet G 1/2" Nominal size outlet G 1/2" Pressure stage entry PN 250 Pressure level outlet PN 160 d0 (ASME-DIN) [mm] 10.0 Discharge coefficient D/G: 0.50 Coefficient of discharge F: 0.35 Response pressure: 50.00 Pressure unit: bar-g Response pressure [bar-g] 50.00 Set pressure in psi-g: 725.19 Cold set pressure [bar-g] 50.00 Cold Set Pressure [psi-g] 725.19 Operating temperature: 40 Temperature unit: °C - Celsius Operating temperature [°C] 40.00 Operating temperature in °F: 104 Plate, metallic / material: (L44) made of material 1.4404/ 316L Spindle material (K4Z) Spindle material: 1.4404/ 316L Pressure screw material: (K7U) 1.4401/ 1.4404/ 316/ 316L + PTFE/ glass Lifting / cap material: (K8T) Lifting / cap material: 1.4404/ 316L Spring material (X00) standard material Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD

	504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204
4374.3142	
43.932.882	
4412.4554	High performance safety valve, type 441 DIN, closed spring hood, gas-tight lifting H4, for vapours, gases and liquids Technical specification: Order code output, line 1: K7TM33MB1K4XH03K3FP2AJ36X00H88 Order code output, line 2: H84H51H47H22L8JL64L49H01 Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Nominal size inlet DN 65 Nominal size outlet DN 100 d0 (ASME-DIN) [mm] 60.0 Discharge coefficient D/G: 0.70 Coefficient of discharge F: 0.45 Flange rating inlet (H47) PN 40 according to DIN EN 1092 Flange rating outlet (H51) PN 16 according to DIN EN 1092 Flange facing inlet: (H84) Form B1 (rough) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Response pressure: 10.00 Pressure unit: bar-g Response pressure [bar-g] 10.00 Set pressure in psi-g: 145.04 Cold set pressure [bar-g] 10.11 Cold Set Pressure [psi-g] 146.62 Operating temperature: 180 Temperature unit: °C - Celsius Operating temperature [°C] 180.00 Operating temperature in °F: 356 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Spring material (X00) standard material Spring cap material: (J36) 0.7043 (GGG 40.3) Guide washer material: (K3F) Guide washer material: 1.0501 Spindle material (K4X) Spindle material: 1.4021 Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Lifting / cap material: (K8W) Lifting / Cap Material: 0.7040/ 60-40-18 Stud bolts material item 55 (L8J) Material stud bolts Item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L
4562.6014	High performance safety valve, type 456, closed spring hood, gas-tight lifting H4, for vapours, gases and liquids Technical specification: Order code output, line 1: K7TM33MB1K4ZH03K3FP2AJ36X00H88 Order code output, line 2: L36H15H11H22L8JL64H42L49H01 Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Nominal size inlet DN 25 Nominal size outlet DN 50 d0 (ASME-DIN) [mm] 20.0 Discharge coefficient D/G: 0.80 Coefficient of discharge F: 0.60 Flange rating inlet (H11) PN 160 according to DIN EN 1092 Flange rating outlet (H15) PN 40 according to DIN EN 1092 Flange sealing surface inlet: (L36) Form B2 (fine) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Response pressure: 55.00 Pressure unit: bar-g Response pressure [bar-g] 55.00 Set pressure in psi-g: 797.71 Cold set pressure [bar-g] 55.00 Cold Set Pressure [psi-g] 797.71 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X00) standard material Clamps: (H42) Clamps drilled Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Guide washer material: (K3F) Guide washer material: 1.0501 Spindle material (K4Z) Spindle material: 1.4404/ 316L Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Stud bolts material item 55 (L8J) Material stud bolts Item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Decrease: (M33) Proof of testing the set pressure (TRB 513 4.2, TRD 504 3.3.4): EN 10204-3.2 (TÜV-Nord) Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN10204 TAG No., Valve 1: TH5. 11/5.273-B TAG No., Valve 2: TH5. 11/5.273-B Type and position of the TAG No.: (M25) Labeling with tag (foil / paper) Type and position of the TAG No.: (M29)

Labeling with stainless steel tag, lettering height 3 mm	
4412.4544	High performance safety valve, type 441 DIN, closed spring hood, gas-tight lifting H4, for vapours, gases and liquids Technical specification: Order code output, line 1: K7TMB1K4XH03L50K3FP2AJ36X00H88 Order code output, line 2: H84H51H47H22L8JL64L49H01 Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with triple certificate: WCB,WCC,1.0619) Nominal diameter entry DN 50 Nominal size outlet DN 80 d0 (ASME-DIN) [mm] 46.0 Discharge coefficient D/G: 0.70 Coefficient of discharge F: 0.45 Flange rating inlet (H47) PN 40 according to DIN EN 1092 Flange rating outlet (H51) PN 16 according to DIN EN 1092 Flange facing inlet: (H84) Form B1 (rough) according to DIN EN 1092 Flange sealing surface outlet: (H88) Form B1 (rough) according to DIN EN 1092 Response pressure: 18.00 Pressure unit: bar-g Response pressure [bar-g] 18.00 Set pressure in psi-g: 261.07 Cold set pressure [bar-g] 18.00 Cold Set Pressure [psi-g] 261.07 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L49) made of material: 1.4122 Sealing ring material: (MB1) Sealing ring made of graphite/1.4401 Spring cap material: (J36) 0.7043 (GGG 40.3) Spring material (X00) standard material Color scheme: (P2A) 1-layer coating system in RAL 5005 according to LID 1608.03 Guide washer material: (K3F) Guide washer material: 1.0501 Spindle material (K4X) Spindle material:1.4021 Pressure screw material: (K7T) 1.4104/ 430F + PTFE/ glass Stud bolts material item 55 (L8J) Material stud bolts Item 55: 1.7225/ SA-193 B7/ SA-320 L7 Hexagon nuts material item 56 (L9J) Material hexagon nuts item 56: 1.7225 / SA-194 size 7 / SA-320 7L Material quality verification for: (H01) Housing – Position 1 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN Pressure setting: (L50) Valve set, but set pressure not stamped on nameplate 2. Marking, item (1): Spring No.: 540.5652.0000 Type and position of the 2nd mark: (M25) Labeling with tag (foil / paper)
DN25 INLET DN25 OUTPUT - 316ss	full lift safety valve (ADJUST NOT AFTER ADJUSTMENT) CODE: ZL459325123 4593.2512 LESER E. VALVE 430F G1" Set pressure: 12 bar (175 psi)
4834.7704	Technical specification: Order code output, line 1: H03M23N04X00I16A16173I74H04B53 Order code output, line 2: J22H01L23H86A86 Housing material: (H04) 1.4435 / 316L Nominal diameter inlet DN 25 Nominal diameter outlet DN 25 Pressure stage inlet PN 16 Pressure stage outlet PN 16 d0 (ASME-DIN) [mm] 13.0 Discharge coefficient D/G: 0.60 Flow coefficient F: 0.40 Connection entry (I73) DO - clamp connection / ISO 2852/ ISO 1127 Connection exit (I74) DO - clamp connection / ISO 2852/ ISO 1127 Pipe standard entry (H86) according to ISO 1127 & DIN 11866 series B Pipe standard outlet (A86) according to ISO 1127 & DIN 11866 series B Clamp size entry / Ø inside 29.7 mm Clamp size entry / Ø outside 50.5 mm Clamp size exit / Ø inside 29.7 mm Clamp size exit / Ø outside 50.5 mm Response pressure: 5.00 Pressure unit: bar-g Response pressure [bar-g] 5.00 Response pressure in psi-g: 72.52 Cold setting pressure [bar-g] 5.00 Cold set pressure [psi-g] 72.52 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, soft seal: (J22) with soft seal EPDM "D" LESER Surface package: (B53) Clean finish Surface in contact with medium: Entry: polished Ra <= 0.75µm Underside of the plate: polished Ra <= 0.75µm Surface of the blow-out area: Inner surface: Ra <= 1.5µm Weld seam: Ra <= 3µm External surface: Ra <= 1.5µm Material quality certificate for: (H01) Housing – position 1 with material quality certificate 3.1 according to DIN EN 10204 Material quality certificate for: (L23) Plate - position 7 with material quality certificate 3.1 according to DIN EN 10204 Documentation: (H03) LESER CGA Certificate for Global Application Inspection certificate 3.1 according to DIN EN 10204 Documentation: (M23) List of materials for internal parts Documentation: (N04) Test report for special surfaces, average roughness value Ra 2. Marking, item (1): 530SV001 / VM530 2. Marking, item (2): 209301_002_01-001 2. Marking, item (3): 208039 Type and

	location of the 2nd identifier: (M25) Labeling with tag (film / paper)
Pressure Safety Valve TYPE 447	Tank Volume: 2m ³ Temperature: 38-40°C Max: 200°C Pressure: 8 bar will be set to 7 bar. Gas to be contained: Mono Ethylene Glycol (CH ₂ OH) ₂ Inled size 1 1/2" 300 Lb - Outled 3" 150 Lb Exproof and Atex Certified
4374.3142	Compact Performance safety valve, type 437, closed spring hood, gas-tight cap H2, for vapors, gases and liquids Technical specification: Order code output, line 1: K7UK4ZL50X00V54V65L44MA5 E-body material: 1.4404/316L 1.4404 / 316L Outlet housing material: (MA5) 1.4401/ 1.4404/ 316/ 316L Outlet connection material: n.a. A-flange material: n.a. Weighted connection entry: (V54) External thread G 1/2" according to DIN ISO 228-1 Weight connection outlet: (V65) Internal thread G 1/2" according to DIN ISO 228-1 Nominal width inlet G 1/2" Nominal diameter outlet G 1/2" Pressure stage inlet PN 250 Pressure stage outlet PN 160 d0 (ASME-DIN) [mm] 10.0 Discharge coefficient D/G: 0.48 Flow coefficient F: 0.35 Response pressure: 1.50 Pressure unit: bar-g Response pressure [bar-g] 1.50 Response pressure in psi-g: 21.76 Cold setting pressure [bar-g] 1.50 Cold set pressure [psi-g] 21.76 Operating temperature: 20 Temperature unit: °C - Celsius Operating temperature [°C] 20.00 Operating temperature in °F: 68 Plate, metallic / material: (L44) made of material 1.4404/316L Spindle material (K4Z) Spindle material: 1.4404/316L Pressure screw material: (K7U) 1.4401/ 1.4404/ 316/ 316L + PTFE/glass Ventilation / cap material: (K8T) Ventilation / cap material: 1.4404/ 316L Spring material (X00) Standard material Pressure setting: (L50) Valve set, but setting pressure not stamped on nameplate
4411.4424	High Performance K7TM33MB1K4XH03K3FP2AJ36X00H88H84H51H45H23L8JL64L49H0 1
60 bar diaphragm manometer	
4592.2494	
4624.2952	
4624.2964	
5264.0422	
5262.0012	
Tuv-Sv-09-980	
4411.4414	
Tag-No., Ventil 1: VI0100151	Technical version according to LESER serial no .: 11329631 5262.0022 API Series Safety Valve, Type 526, Orifice D, closed spring cap, gas-tight cap H2, for vapors, gases and liquids
459 P:80 92-909	
4332.4174	
1grs-Psv-002	
4373.3122	
5264.0142	
4593.2514	
4332.4184 Type 433	
4373.2604	
Type:4594.2562, Sn:10717185 Obsolete, Replacement 4594.2172	

En 10204-3.2	
4425.7385	
Tag-No., Ventil 1: VI0100153	Technical design in accordance with READER Serial No .: 11340304 5262.0022 API Series Safety Valve, Type 526, Orifice D, closed spring cap, gas-tight cap H2, for vapors, gases and liquids
Leser 13 Bar	
4422.4525	
8113.0760	
4624.2972	
10274223	
456.P75	
4421.4415	High Performance Safety Valve, Type 442 DIN, open bonnet, ventilation H3, for vapors, gases and liquids Gewicht: 23,100 KG / ST Warennummer: 84814010
En 10204-3.1	
4412.4514 08.98 No:02.66592.1/1	
Options	
4312.8515	
4414.4644	
11075565	
54. 055. 420. 000 - Model : Spring (Leser), 22.2bar	
M33	
Typ 4374.3144	
455,458	
4384.2982	
4414.4664	
5262.1444	API Series Safety Valve, Type 526, Orifice H, closed spring hood, gas-tight ventilation H4, for vapors, gases and liquids J83 Inconel bellows Order code output, line 1: K7RK5KK2RMB1K4XI63J83P2AJ99X00 Order code issue, line 2: L39H89H79H65H22L8AK1EJ24 Housing material: (H22) Housing made of material 1.0619 (GP240GH) (with 3-fold certificate: WCB, WCC, 1.0619) Nominal Diameter Entry NPS 2 " Nominal diameter outlet NPS 3 " d0 (ASME-DIN) [mm] 28.3 Flange pressure inlet (H65) 300 lbs to ASME B 16.5 Flange pressure outlet (H79) 150 lbs to ASME B 16.5 Flange sealing surface inlet: (H89) serrated spiral finish (Ra = 3.2 - 6.3µm) according to ASME B16.5 Flange sealing surface outlet: (L39) serrated spiral finish (Ra = 3.2 - 6.3µm) according to ASME B16.5 Set pressure: 16,20 Printing unit: bar-g Set pressure [bar-g] 16,20 Set pressure in psi-g: 234.96 Cold setting pressure [bar-g] 16,20 Cold set pressure [psi-g] 234.96 Operating temperature: 157 Temperature unit: °
4422.4515	
4412.1314 Type 441 Ansi	
4332.4154 H4 Pn40 Dn25/25 D0=18	

4332.4174 Type 433	
9740205994	
4814.7698	
Pn16 Gg25	
Tag-No., Ventil 1: VI0100155	Technical version according to READ serial no .: 11404826 5262.0152 API Series Safety Valve, Type 526, Orifice E, closed spring cap, gas-tight cap H2, for vapors, gases and liquids
4412.4502	
4393.2882	
4422.4535	
4332.8574 Sicherheitsventil	
11031613	
5263.5032	
224.2449.9000	
V66	
4593.2522	
5264.0242	
70231416	
11065961	
4414.4674	
Dn 50 - 50/80	