

Visual Level Indicators (VLI)

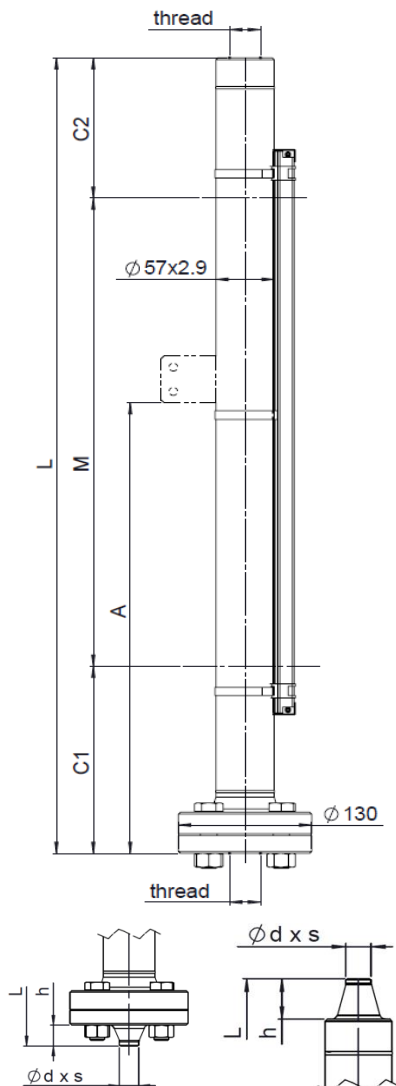
High Pressure Line

Series	Type	Material	Pipe O.D. x s (mm)	Operating Pressure	Operating Temperature	Page
High Pressure Line 80	36800-A	316&316L	57.0 x 2.9	max. 80bar@20°C	-80 400°C	2
"	36800-B	"	"	"	"	3
"	36800-K	"	"	"	"	4
"	36800-O	"	"	"	"	5
"	Pressure Temperature Rating for High Pressure Line 80					6
"	Float selection diagram for High Pressure Line 80					7
High Pressure Line 100	26411-A	316&316L	57.0 x 2.9	max. 100bar@20°C	-80 400°C	8
"	26411-B	"	"	"	"	9
"	26411-K	"	"	"	"	10
"	26411-O	"	"	"	"	11
"	Pressure Temperature Rating for High Pressure Line 100					12
"	Float selection diagram for High Pressure Line 100					13
High Pressure Line 150	25683-A	316&316L	60.33 x 3.91	max. 150bar@20°C	-80 400°C	14
"	25683-B	"	"	"	"	15
"	25683-K	"	"	"	"	16
"	25683-O	"	"	"	"	17
"	Pressure Temperature Rating for High Pressure Line 150					18
"	Float selection diagram for High Pressure Line 150					19
High Pressure Line 200	32806-A	316&316L	60.3 x 5.0	max. 200bar@20°C	-80 400°C	20
"	32806-B	"	"	"	"	21
"	32806-K	"	"	"	"	22
"	32806-O	"	"	"	"	23
"	Pressure Temperature Rating for High Pressure Line 200					24
"	Float selection diagram for High Pressure Line 200					25
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High Pressure Line 80

Type: 36800-A

Design meets the requirements of PED 2014/68/EU and harmonized standards



Float extension lower / upper:

	C1:	C2:
Standard	200	150
C1 & C2 shorter or longer if out of standard range or with damping springs		

Purchase Order Data

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.49g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 80bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5800mm (one-piece design)	mm:	

Design and Materials

Float chamber:	316&316L	
Float:	Ti-alloy	type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets: Graphite incl. reinforcing net in ss 316/316L ($\leq 400^\circ\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^\circ\text{C}$) ☐

Process Connections

- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1/2" resp. G1/2" :
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp3/4" resp. G3/4" :
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1" resp. G1" :
- Female thread acc. ANSI, without plug	NPT 1/2" :
- Female thread acc. ANSI, without plug	NPT 3/4" :
- Female thread acc. ANSI, without plug	NPT 1" :
- Butt weld ends acc. to ISO/EN; 21.3 x 2.0mm; h = 25mm	DN15:
- Butt weld ends acc. to ISO/EN; 26.9 x 2.6mm; h = 26mm	DN20:
- Butt weld ends acc. to ISO/EN; 33.7 x 2.6mm; h = 34mm	DN25:
- Butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77mm; h = 38mm	1/2" (Sch40):
- Butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87mm; h = 41.5mm	3/4" (Sch40):
- Butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38mm; h = 44.5mm	1" (Sch40):

Other Connections

Indication Rail

PC, IP65 ($<150^\circ\text{C}$)	Flaps: red-silver	No.: 34837	Standard ☐
PC, IP68, inert gas ($<150^\circ\text{C}$)	Flaps: red-silver	No.: 41008	
Al/PC, IP54 ($<250^\circ\text{C}$)	Flaps: red-silver	No.: 34560	
Al/Glass, IP54 ($<400^\circ\text{C}$)	Flaps: black-silver	No.: 37100	
316L, IP67 ($<250^\circ\text{C}$)	Flaps: red-silver	No.: 42403	
316L, IP67 ($<400^\circ\text{C}$)	Flaps: black-silver	No.: 42404	
Special execution	Flaps:	No.:	

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	Type:
Transmitter:	Resolution [mm]:	Type:
Electrical measuring length Mel [mm]:		
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

Notes:

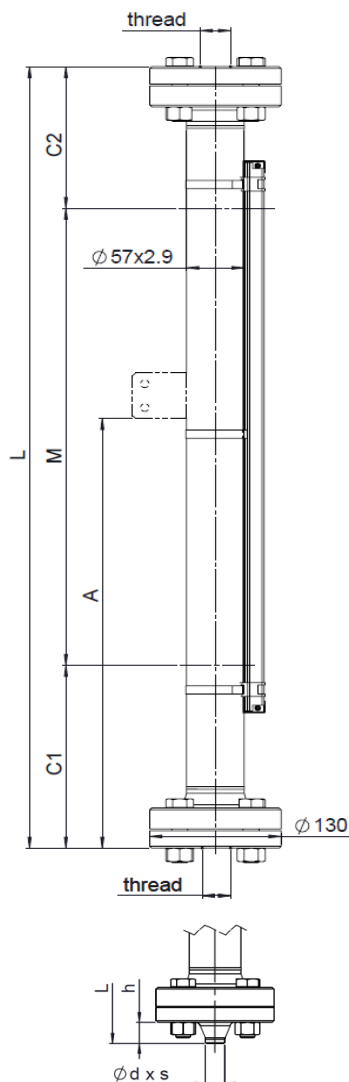
*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 80

Type: 36800-B

Design meets the requirements of PED 2014/68/EU and harmonized standards



Float extension lower / upper:

	C1:	C2:
Standard	200	155
C1 & C2 shorter or longer if out of standard range or with damping springs		

Purchase Order Data

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:		
Density:	≥ 0.49g/cm³	g/cm³:
Viscosity:	≤ 600cSt	cSt:
Operating pressure:	max. 80bar(g) @ 20°C *1)	bar(g):
Design pressure:	"	bar(g):
Operating temperature:	-80°C ... 400°C *1)	°C:
Design temperature:	"	°C:
Connecting Distance "L":	max. 5800mm (one-piece design)	mm:

Design and Materials

Float chamber:	standard execution:
Float:	316&316L
	Ti-alloy
	type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets: Graphite incl. reinforcing net in ss 316/316L ($\leq 400^{\circ}\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^{\circ}\text{C}$) ☐

Process Connections

- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1/2" resp. G1/2" :
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp3/4" resp. G3/4" :
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1" resp. G1" :
- Female thread acc. ANSI, without plug	NPT 1/2" :
- Female thread acc. ANSI, without plug	NPT 3/4" :
- Female thread acc. ANSI, without plug	NPT 1" :
- Butt weld ends acc. to ISO/EN; 21.3 x 2.0mm; h = 25mm	DN15:
- Butt weld ends acc. to ISO/EN; 26.9 x 2.6mm; h = 26mm	DN20:
- Butt weld ends acc. to ISO/EN; 33.7 x 2.6mm; h = 34mm	DN25:
- Butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77mm; h = 38mm	1/2" (Sch40):
- Butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87mm; h = 41.5mm	3/4" (Sch40):
- Butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38mm; h = 44.5mm	1" (Sch40):

Other Connections

Indication Rail

PC, IP65 ($<150^{\circ}\text{C}$)	Flaps: red-silver	No.: 34837	Standard
PC, IP68, inert gas ($<150^{\circ}\text{C}$)	Flaps: red-silver	No.: 41008	
Al/PC, IP54 ($<250^{\circ}\text{C}$)	Flaps: red-silver	No.: 34560	
Al/Glass, IP54 ($<400^{\circ}\text{C}$)	Flaps: black-silver	No.: 37100	
316L, IP67 ($<250^{\circ}\text{C}$)	Flaps: red-silver	No.: 42403	
316L, IP67 ($<400^{\circ}\text{C}$)	Flaps: black-silver	No.: 42404	
Special execution	Flaps:	No.:	

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:		Dim. "A" [mm]:	
Magnetic switch:	Quantity:	Type:	
Transmitter:	Resolution [mm]:	Type:	
Electrical measuring length Mel [mm]:			
Converter:	Type:		
Additional accessories:			

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

Notes:

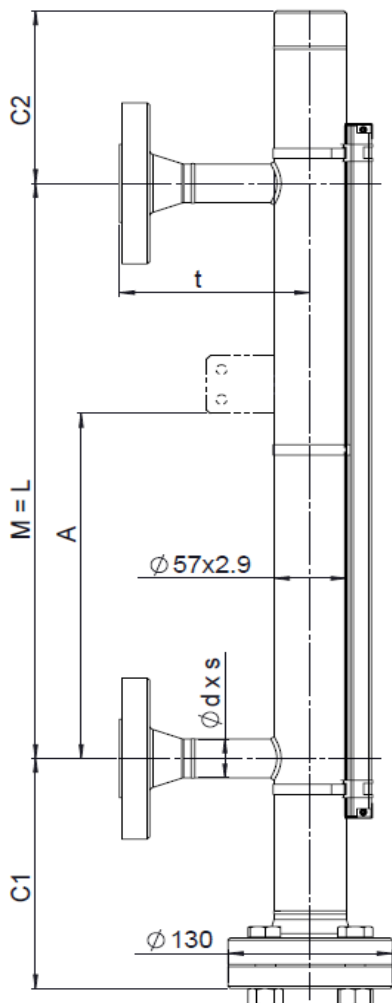
- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 80

Type: 36800-K

Design meets the requirements of PED 2014/68/EU and harmonized standards



Purchase Order Data

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.49g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 80bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5600mm (one-piece design)	mm:	

Design and Materials

Float chamber: 316&316L
Float: Ti-alloy type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401 No.: 27399 top ☐ bottom ☐
Gaskets: Graphite incl. reinforcing net in ss 316/316L ($\leq 400^{\circ}\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^{\circ}\text{C}$) ☐

Process Connections

EN-Connecting Flanges acc. EN1092-1 (Standard):
- EN1092-1/11 B1/DNxx/PN100/316L
- wn-flange, RF, Rz=12,5 50µm, turned

ANSI/class600 (= ISO/PN100) - Connecting Flanges:
- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1
- wn-flange, RF SF, Rz=12,5 50µm, turned

Other Connections

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Float extension lower / upper:

C1: C2:
Standard 200 150
C1 & C2 shorter or longer if out of standard range or with damping springs

Standard Flange Connections:

	DIN/EN	ANSI/ISO
Connection pieces, d*s:		
DN15:	21.3*2.65	21.34*2.77
DN20:	26.9*2.6	26.67*2.87
DN25:	33.7*3.2	33.40*3.38
$\geq \text{DN32} *2)$:	33.7*3.2	33.40*3.38
Dimension t / Dimension tt (w/o Flange):		
DN15:	150 / 105	150 / 91.3
DN20:	150 / 102	150 / 86
DN25:	150 / 93	150 / 81.6
$\geq \text{DN32} *2)$:	tba *3)	

Indication Rail

PC, IP65 ($<150^{\circ}\text{C}$)
PC, IP68, inert gas ($<150^{\circ}\text{C}$)
Al/PC, IP54 ($<250^{\circ}\text{C}$)
Al/Glass, IP54 ($<400^{\circ}\text{C}$)
316L, IP67 ($<250^{\circ}\text{C}$)
316L, IP67 ($<400^{\circ}\text{C}$)
Special execution

Flaps: red-silver	No.: 34837	Standard	☐
Flaps: red-silver	No.: 41008		☐
Flaps: red-silver	No.: 34560		☐
Flaps: black-silver	No.: 37100		☐
Flaps: red-silver	No.: 42403		☐
Flaps: black-silver	No.: 42404		☐
Flaps:	No.:		☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	
Transmitter:	Resolution [mm]:	5 / 10
Electrical measuring length Mel [mm]:	Type:	
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

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Notes:

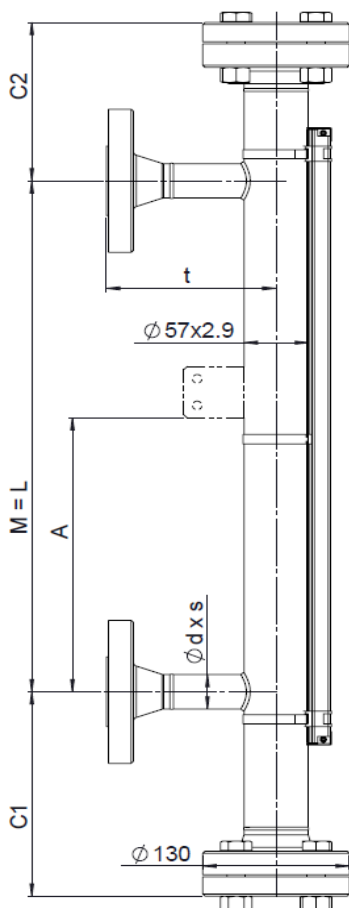
- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.
*2) With special reduction flanges.
*3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 80

Type: 36800-O

Design meets the requirements of PED 2014/68/EU and harmonized standards



Purchase Order Data

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.49g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 80bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5600mm (one-piece design)	mm:	

Design and Materials

Float chamber: 316&316L
Float: Ti-alloy type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401 No.: 27399 top ☐ bottom ☐
Gaskets: Graphite incl. reinforcing net in ss 316/316L ($\leq 400^{\circ}\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^{\circ}\text{C}$) ☐

Process Connections

EN-Connecting Flanges acc. EN1092-1 (Standard):
- EN1092-1/11 B1/DNxx/PN100/316L
- wn-flange, RF, Rz=12,5 50µm, turned

ANSI/class600 (= ISO/PN100) - Connecting Flanges:
- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1
- wn-flange, RF SF, Rz=12,5 50µm, turned

Other Connections

--

Float extension lower / upper:

C1: C2:
Standard 200 155
C1 & C2 shorter or longer if out of standard range or with damping springs

Standard Flange Connections:

	DIN/EN	ANSI/ISO
Connection pieces, d*s:		
DN15:	21.3*2.65	21.34*2.77
DN20:	26.9*2.6	26.67*2.87
DN25:	33.7*3.2	33.40*3.38
$\geq \text{DN32}^*2$:	33.7*3.2	33.40*3.38
Dimension t / Dimension tt (w/o Flange):		
DN15:	150 / 105	150 / 91.3
DN20:	150 / 102	150 / 86
DN25:	150 / 93	150 / 81.6
$\geq \text{DN32}^*2$:	tba *3)	

Indication Rail

PC, IP65 ($<150^{\circ}\text{C}$)	Flaps: red-silver	No.: 34837	Standard ☐
PC, IP68, inert gas ($<150^{\circ}\text{C}$)	Flaps: red-silver	No.: 41008	☐
Al/PC, IP54 ($<250^{\circ}\text{C}$)	Flaps: red-silver	No.: 34560	☐
Al/Glass, IP54 ($<400^{\circ}\text{C}$)	Flaps: black-silver	No.: 37100	☐
316L, IP67 ($<250^{\circ}\text{C}$)	Flaps: red-silver	No.: 42403	☐
316L, IP67 ($<400^{\circ}\text{C}$)	Flaps: black-silver	No.: 42404	☐
Special execution	Flaps:	No.:	☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	Type:
Transmitter:	Resolution [mm]:	Type:
Electrical measuring length Mel [mm]:	5 / 10	
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

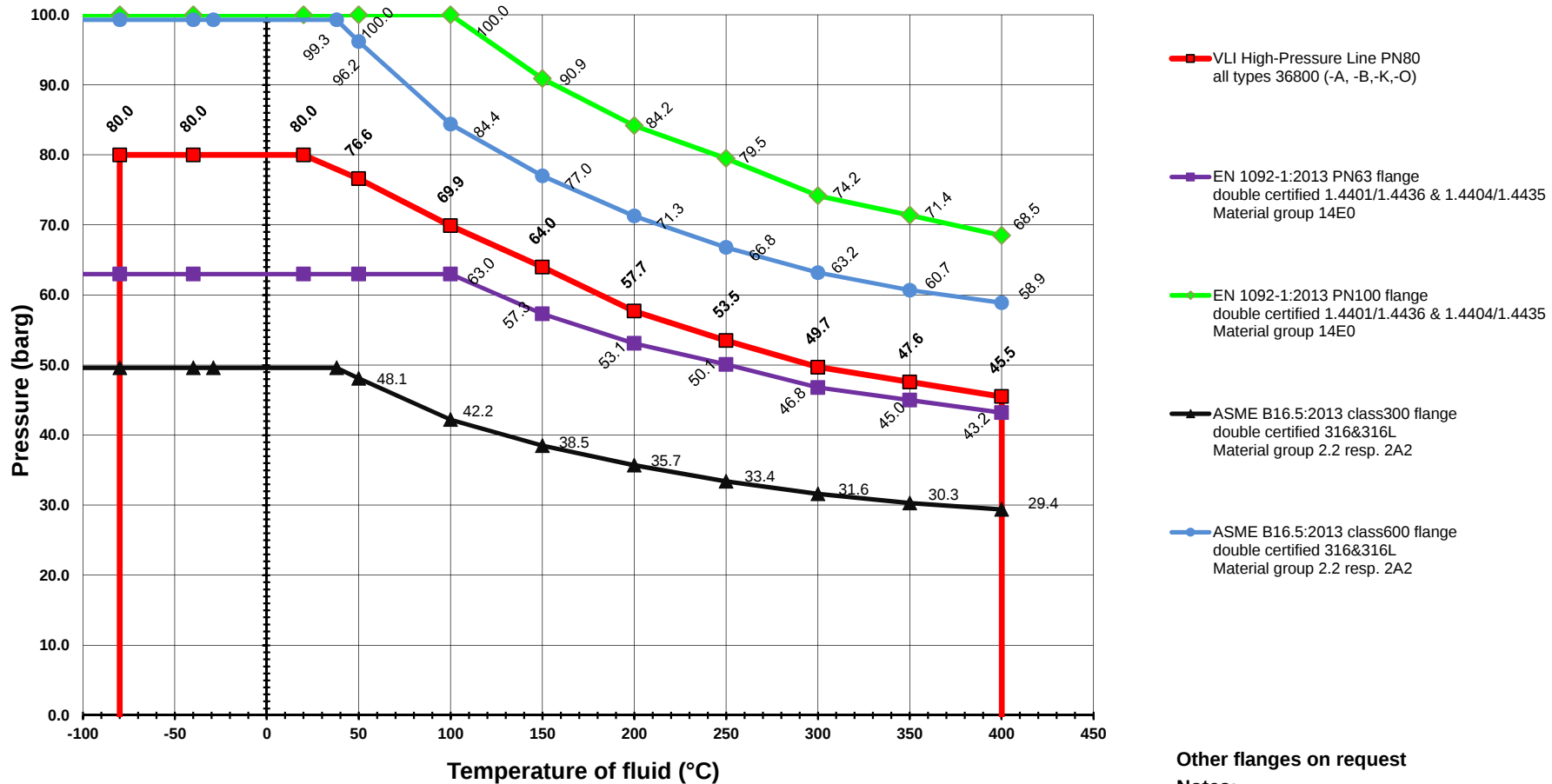
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Notes:

- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.
*2) With special reduction flanges.
*3) Depending on size of connecting flanges.
All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

Pressure-temperature-rating for VLI High Pressure Line 80, type 36800

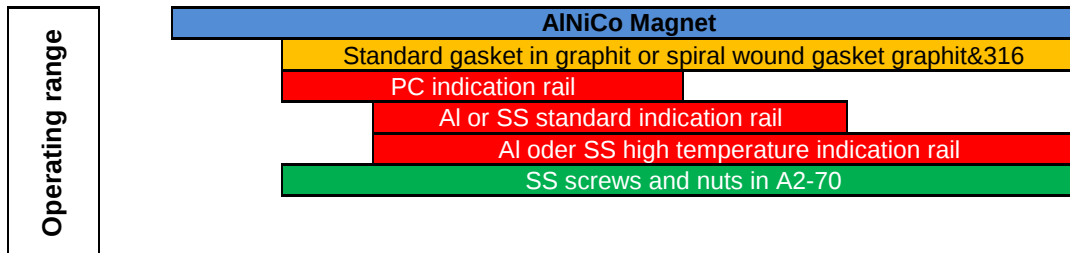
Max. 80bar(g) @ 20°C, up to max. 400°C for VLI bypass float chamber in SS EN 1.4401, 1.4436 & 1.4404, 1.4435 resp. ANSI 316&316L



Other flanges on request

Notes:

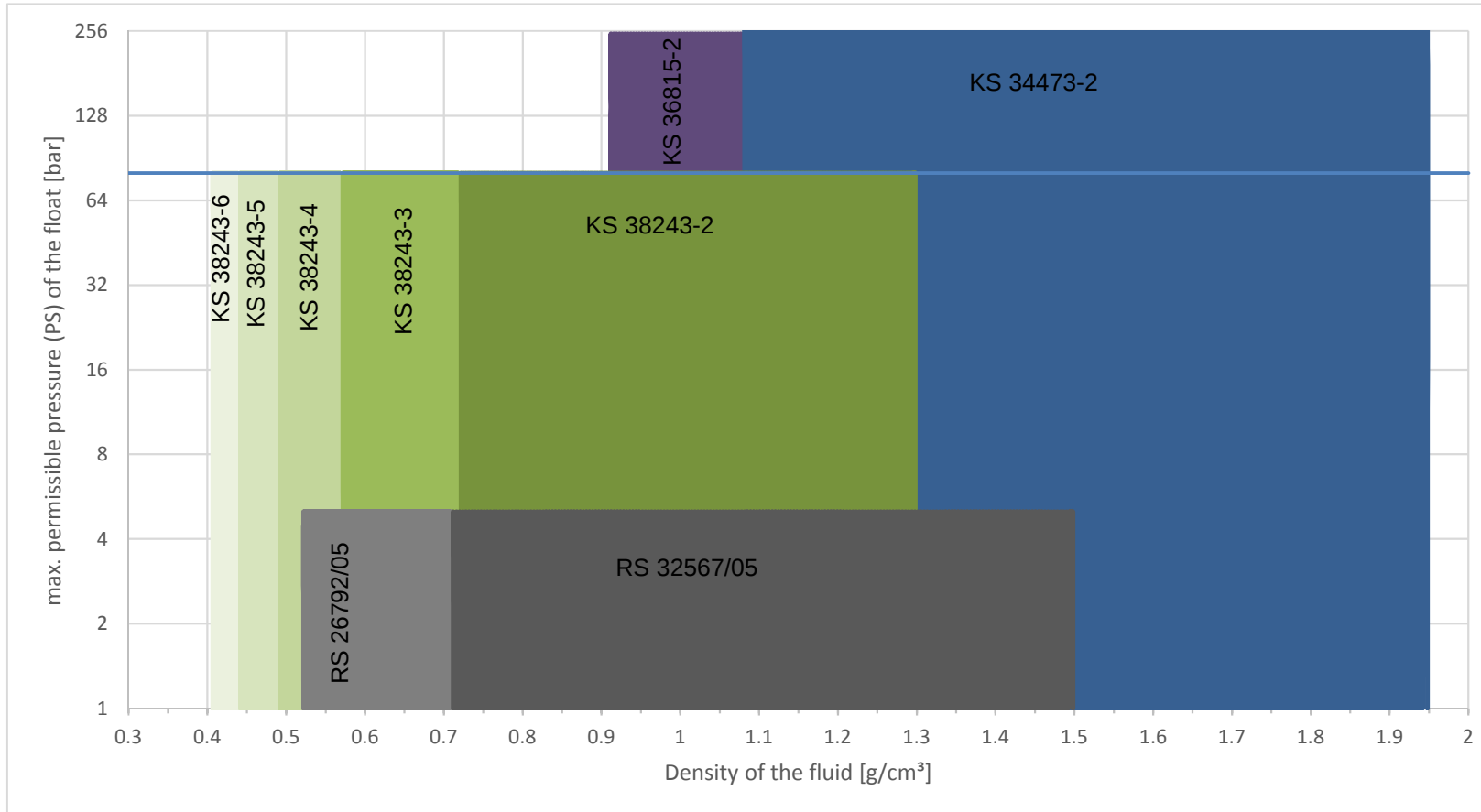
- EN1092-1:2013 flange PN63 and PN100 up to DN100 use identical interface dimensions. WEKA will use generally PN100 flanges.
- Tolerated max pressure @ specified temperature of the VLI is given either by the bypass tube or by the connection flanges
- Lower value sets the limitation! ---



Float selection diagram VLI Typ 36800, High Pressure - Power 80

These data apply for an operating temperature of $\leq 20^\circ\text{C}$.

For higher operating temperatures, please check the max. permissible float pressure on the respective data sheet.



Limit of application:
VLI @ 20°C
Observe P-T diagram!

Comments:

KS = ball float

RS = casing float

Interior diameter of the float chamber = 51.2mm

For steam or condensate applications, please check the use of damping springs

Additional charge for densities $< 0.49\text{g/cm}^3$ due to extended length of bottom float run-out and ball float with more than 4 balls

Example 36815-X = number of balls

Example 26792/XX = max. permissible pressure in bar @ 20°C

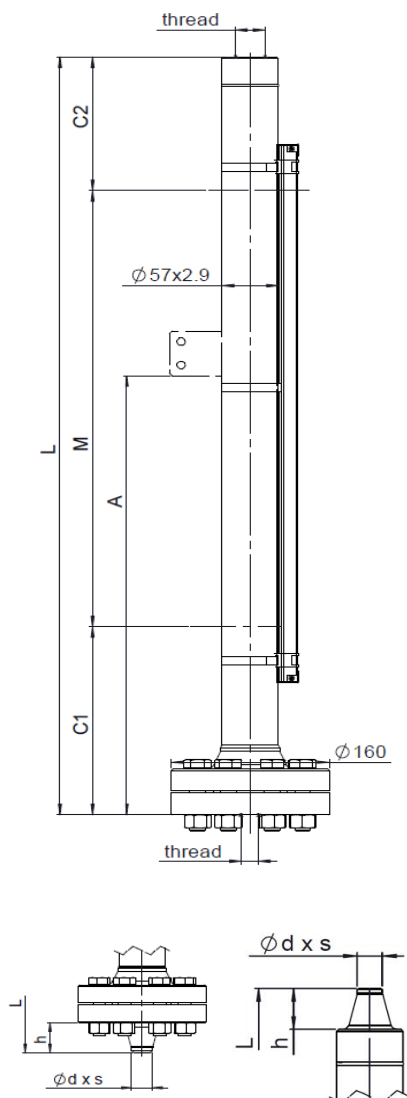
Material = Titan Alloy

Material = 316L

High Pressure Line 100

Type: 26411-A

Design meets the requirements of PED 2014/68/EU and harmonized standards



Float extension lower / upper:

	C1:	C2:
Standard	200	150
C1 & C2 shorter or longer if out of standard range or with damping springs		

Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.59g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 100bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5800mm (one-piece design)	mm:	

Design and Materials:

Float chamber:	standard execution:	
Float:	316&316L	
	Ti-alloy	type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets: Graphite incl. reinforcing net in ss 316/316L (≤ 400°C) Standard ☐
Spiral wound gasket Graphit & 316 (≤ 400°C) ☐

Process Connections

- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1/2" resp. G1/2" :	
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp3/4" resp. G3/4" :	
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1" resp. G1" :	
- Female thread acc. ANSI, without plug	NPT 1/2" :	
- Female thread acc. ANSI, without plug	NPT 3/4" :	
- Female thread acc. ANSI, without plug	NPT 1" :	
- Butt weld ends acc. to ISO/EN; 21.3 x 2.0mm; h = 25mm	DN15:	
- Butt weld ends acc. to ISO/EN; 26.9 x 2.6mm; h = 26mm	DN20:	
- Butt weld ends acc. to ISO/EN; 33.7 x 2.6mm; h = 34mm	DN25:	
- Butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77mm; h = 38mm	1/2" (Sch40):	
- Butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87mm; h = 41.5mm	3/4" (Sch40):	
- Butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38mm; h = 44.5mm	1" (Sch40):	

Other Connections

Indication Rail

PC, IP65 (<150°C)	Flaps: red-silver	No.: 34837	Standard	☐
PC, IP68, inert gas (<150°C)	Flaps: red-silver	No.: 41008		☐
Al/PC, IP54 (<250°C)	Flaps: red-silver	No.: 34560		☐
Al/Glass, IP54 (<400°C)	Flaps: black-silver	No.: 37100		☐
316L, IP67 (<250°C)	Flaps: red-silver	No.: 42403		☐
316L, IP67 (<400°C)	Flaps: black-silver	No.: 42404		☐
Special execution	Flaps:	No.:		☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	Type:
Transmitter:	Resolution [mm]:	Type:
Electrical measuring length Mel [mm]:		
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

Notes:

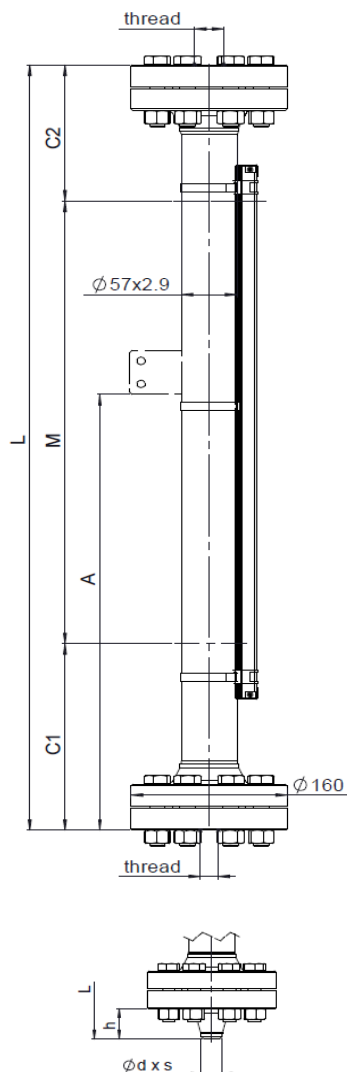
*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 100

Type: 26411-B

Design meets the requirements of PED 2014/68/EU and harmonized standards



Float extension lower / upper:

	C1:	C2:
Standard	200	165
C1 & C2 shorter or longer if out of standard range or with damping springs		

Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:

Tag no.:

Operating Conditions

Fluid:
Density: $\geq 0.59 \text{ g/cm}^3$ g/cm^3 :
Viscosity: $\leq 600 \text{ cSt}$ cSt :
Operating pressure: max. 100bar(g) @ 20°C *1) bar(g) :
Design pressure: " bar(g) :
Operating temperature: -80°C ... 400°C *1) $^{\circ}\text{C}$:
Design temperature: " $^{\circ}\text{C}$:
Connecting Distance "L": max. 5800mm (one-piece design) mm:

Design and Materials:

standard execution:
Float chamber: 316&316L
Float: Ti-alloy

type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399

top ☐

bottom ☐

Gaskets:

Graphite incl. reinforcing net in ss 316/316L ($\leq 400^{\circ}\text{C}$) Standard ☐

Spiral wound gasket Graphit & 316 ($\leq 400^{\circ}\text{C}$) ☐

Process Connections

- Female thread acc. ISO7-1 resp. ISO 228-1, without plug
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug
- Female thread acc. ANSI, without plug
- Female thread acc. ANSI, without plug
- Female thread acc. ANSI, without plug
- Butt weld ends acc. to ISO/EN; 21.3 x 2.0mm; h = 25mm
- Butt weld ends acc. to ISO/EN; 26.9 x 2.6mm; h = 26mm
- Butt weld ends acc. to ISO/EN; 33.7 x 2.6mm; h = 34mm
- Butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77mm; h = 38mm
- Butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87mm; h = 41.5mm
- Butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38mm; h = 44.5mm

Rp1/2" resp. G1/2":

Rp3/4" resp. G3/4":

Rp1" resp. G1":

NPT 1/2":

NPT 3/4":

NPT 1":

DN15:

DN20:

DN25:

1/2" (Sch40):

3/4" (Sch40):

1" (Sch40):

Other Connections

Indication Rail

PC, IP65 ($<150^{\circ}\text{C}$)
PC, IP68, inert gas ($<150^{\circ}\text{C}$)
Al/PC, IP54 ($<250^{\circ}\text{C}$)
Al/Glass, IP54 ($<400^{\circ}\text{C}$)
316L, IP67 ($<250^{\circ}\text{C}$)
316L, IP67 ($<400^{\circ}\text{C}$)
Special execution

Flaps: red-silver

No.: 34837

Standard ☐

Flaps: red-silver

No.: 41008

Flaps: red-silver

No.: 34560

Flaps: black-silver

No.: 37100

Flaps: red-silver

No.: 42403

Flaps: black-silver

No.: 42404

Flaps:

No.:

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:

Dim. "A" [mm]:

Magnetic switch:

Quantity:

Type:

Transmitter:

Resolution [mm]:

Type:

Electrical measuring length Mel [mm]:

Converter:

Type:

Additional accessories:

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED

Special Executions & Additional Notes

Notes:

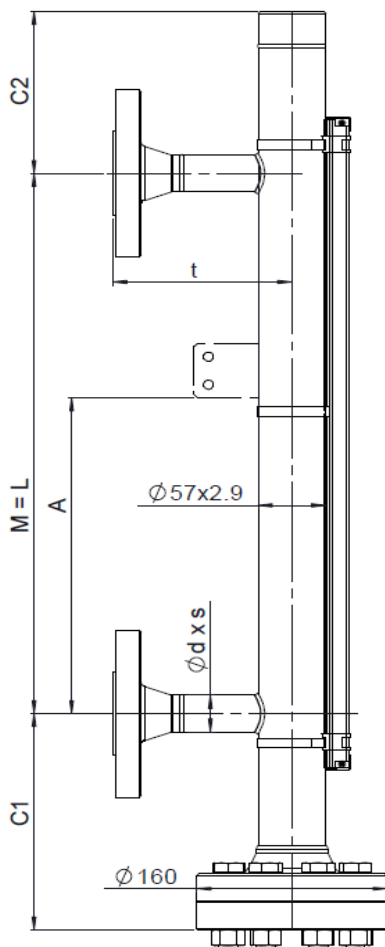
- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 100

Type: 26411-K

Design meets the requirements of PED 2014/68/EU and harmonized standards



Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.59g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 100bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5600mm (one-piece design)	mm:	

Design and Materials:

standard execution:
Float chamber: 316&316L
Float: Ti-alloy type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401 No.: 27399 top ☐ bottom ☐
Gaskets: Graphite incl. reinforcing net in ss 316/316L (≤ 400°C) Standard ☐
Spiral wound gasket Graphit & 316 (≤ 400°C) ☐

Process Connections

EN-Connecting Flanges acc. EN1092-1 (Standard):
- EN1092-1/11 B1/DNxx/PN100/316L
- wn-flange, RF, Rz=12,5 50µm, turned

DN15:	☐
DN20:	☐
DN25:	☐

ANSI/class600 (= ISO/PN100) - Connecting Flanges:

- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1
- wn-flange, RF SF, Rz=12,5 50µm, turned

ANSI 1/2" resp. ISO DN15 :	☐
ANSI 3/4" resp. ISO DN20 :	☐
ANSI 1" resp. ISO DN25 :	☐

Other Connections

--

Float extension lower / upper:

C1: C2:
Standard 200 150
C1 & C2 shorter or longer if out of standard range or with damping springs

Standard Flange Connections:

	DIN/EN	ANSI/ISO
Connection pieces, d*s:		
DN15:	21.3*2.6	21.34*2.77
DN20:	26.9*2.6	26.67*2.87
DN25:	33.7*3.2	33.40*3.38
>= DN32 *2):	33.7*3.2	33.40*3.38
Dimension t / Dimension tt (w/o Flange):		
DN15:	150 / 105	150 / 91.3
DN20:	150 / 102	150 / 86
DN25:	150 / 93	150 / 81.6
>= DN32 *2):	tba *3)	

Indication Rail

PC, IP65 (<150°C)
PC, IP68, inert gas (<150°C)
Al/PC, IP54 (<250°C)
Al/Glass, IP54 (<400°C)
316L, IP67 (<250°C)
316L, IP67 (<400°C)
Special execution

Flaps: red-silver	No.: 34837	Standard	☐
Flaps: red-silver	No.: 41008		☐
Flaps: red-silver	No.: 34560		☐
Flaps: black-silver	No.: 37100		☐
Flaps: red-silver	No.: 42403		☐
Flaps: black-silver	No.: 42404		☐
Flaps:	No.:		☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	
Transmitter:	Resolution [mm]:	5 / 10
Electrical measuring length Mel [mm]:	Type:	
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

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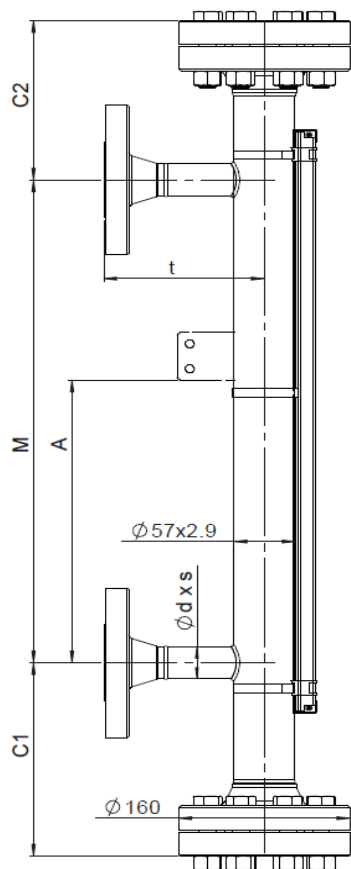
Notes:

- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.
*2) With special reduction flanges.
*3) Depending on size of connecting flanges.
All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 100

Type: 26411-O

Design meets the requirements of PED 2014/68/EU and harmonized standards



Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.59g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 100bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5600mm (one-piece design)	mm:	

Design and Materials:

standard execution:
Float chamber: 316&316L
Float: Ti-alloy type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets:

Graphite incl. reinforcing net in ss 316/316L ($\leq 400^\circ\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^\circ\text{C}$) ☐

Process Connections

EN-Connecting Flanges acc. EN1092-1 (Standard):

- EN1092-1/11 B1/DNxx/PN100/316L
- wn-flange, RF, Rz=12,5 50µm, turned

DN15:	☐
DN20:	☐
DN25:	☐

ANSI/class600 (= ISO/PN100) - Connecting Flanges:

- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1
- wn-flange, RF SF, Rz=12,5 50µm, turned

ANSI 1/2" resp. ISO DN15 :	☐
ANSI 3/4" resp. ISO DN20 :	☐
ANSI 1" resp. ISO DN25 :	☐

Other Connections

--

Float extension lower / upper:

C1: C2:
Standard 200 165
C1 & C2 shorter or longer if out of standard range or with damping springs

Standard Flange Connections:

	DIN/EN	ANSI/ISO
Connection pieces, d*s:		
DN15:	21.3*2.6	21.34*2.77
DN20:	26.9*2.6	26.67*2.87
DN25:	33.7*3.2	33.40*3.38
$\geq \text{DN}32$ *2):	33.7*3.2	33.40*3.38
Dimension t / Dimension tt (w/o Flange):		
DN15:	150 / 105	150 / 91.3
DN20:	150 / 102	150 / 86
DN25:	150 / 93	150 / 81.6
$\geq \text{DN}32$ *2):	tba *3)	

Indication Rail

- PC, IP65 ($<150^\circ\text{C}$)
- PC, IP68, inert gas ($<150^\circ\text{C}$)
- Al/PC, IP54 ($<250^\circ\text{C}$)
- Al/Glass, IP54 ($<400^\circ\text{C}$)
- 316L, IP67 ($<250^\circ\text{C}$)
- 316L, IP67 ($<400^\circ\text{C}$)
- Special execution

Flaps: red-silver	No.: 34837	Standard ☐
Flaps: red-silver	No.: 41008	☐
Flaps: red-silver	No.: 34560	☐
Flaps: black-silver	No.: 37100	☐
Flaps: red-silver	No.: 42403	☐
Flaps: black-silver	No.: 42404	☐
Flaps:	No.:	☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	
Transmitter:	Resolution [mm]:	5 / 10
Electrical measuring length Mel [mm]:	Type:	
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

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Notes:

*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

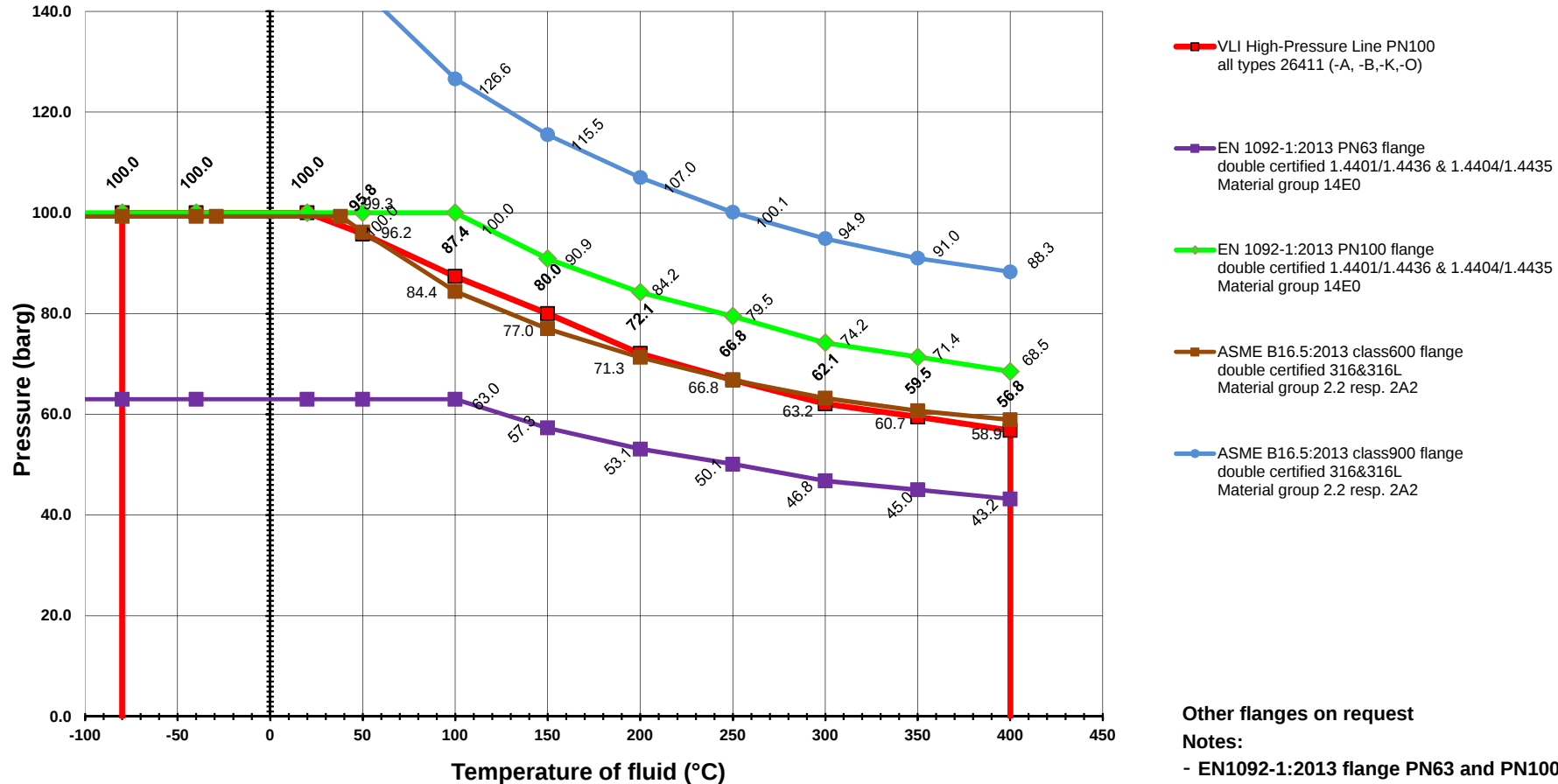
*2) With special reduction flanges.

*3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

Pressure-temperature-rating for VLI High Pressure Line 100, type 26411

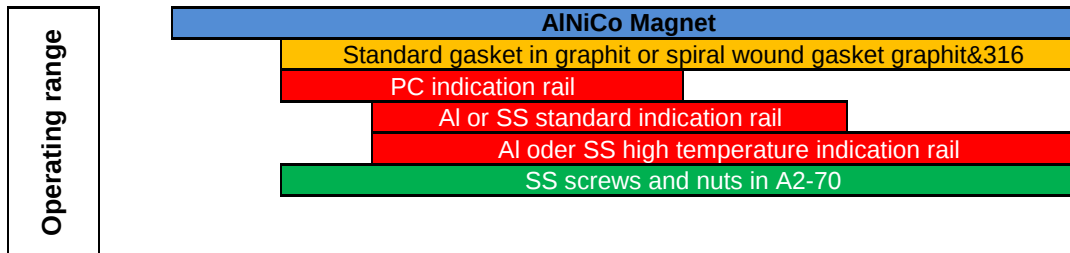
Max. 100bar(g) @ 20°C, up to max. 400°C for VLI bypass float chamber in SS EN 1.4401, 1.4436 & 1.4404, 1.4435 resp. ANSI 316&316L



Other flanges on request

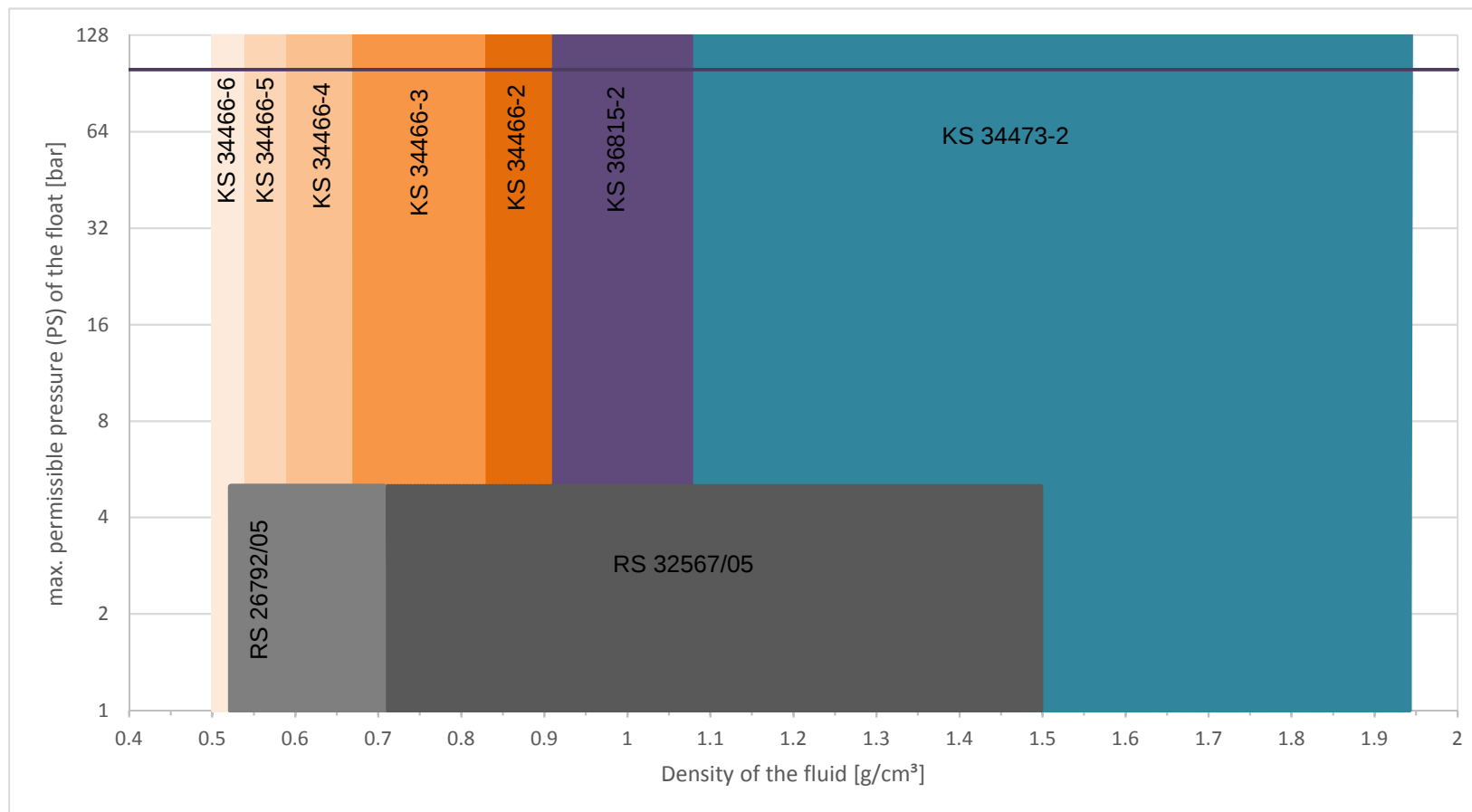
Notes:

- EN1092-1:2013 flange PN63 and PN100 up to DN100 use identical interface dimensions. WEKA will use generally PN100 flanges.
- ANSI B16.5 flange class 900 and Class 1500 up tp 2 1/2" use identical interface dimensions
- Tolerated max pressure @ specified temperature of the VLI is given either by the bypass tube or by the connection flanges
- Lower value sets the limitation! ---



These data apply for an operating temperature of $\leq 20^{\circ}\text{C}$.

For higher operating temperatures, please check the max. permissible float pressure on the respective data sheet.



Limit of application:
VLI @ 20°C
Observe P-T diagram!

Comments:

KS = ball float

RS = casing float

Interior diameter of the float chamber = 51.2mm

For steam or condensate applications, please check the use of damping springs

Additional charge for densities $< 0.59\text{g/cm}^3$ due to extended length of bottom float run-out and ball float with more than 4 balls

Example 34466-X = number of balls

Example 26792/XX = max. permissible pressure in bar @ 20°C

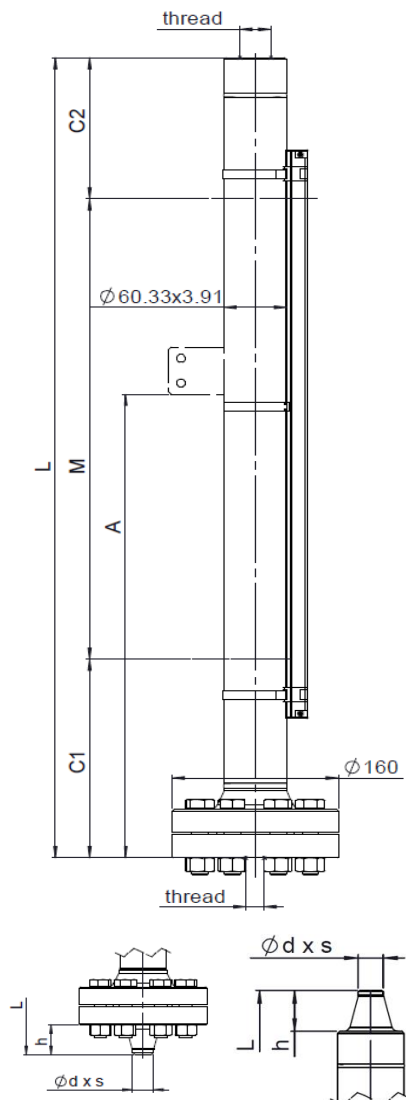
Material = Titan Alloy

Material = 316L

High Pressure Line 150

Type: 25683-A

Design meets the requirements of PED 2014/68/EU and harmonized standards



Float extension lower / upper:

	C1:	C2:
Standard	200	150
C1 & C2 shorter or longer if out of standard range or with damping springs		

Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.67g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 150bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5800mm (one-piece design)	mm:	

Design and Materials:

Float chamber:	standard execution:	
Float:	316&316L	
	Ti-alloy	type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401	No.: 27399	top ☐	bottom ☐
Gaskets:	Graphite incl. reinforcing net in ss 316/316L (≤ 400°C)	Standard ☐	
	Spiral wound gasket Graphit & 316 (≤ 400°C)	☐	

Process Connections

- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1/2" resp. G1/2" :	☐
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp3/4" resp. G3/4" :	☐
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1" resp. G1" :	☐
- Female thread acc. ANSI, without plug	NPT 1/2" :	☐
- Female thread acc. ANSI, without plug	NPT 3/4" :	☐
- Female thread acc. ANSI, without plug	NPT 1" :	☐
- Butt weld ends acc. to ISO/EN; 21.3 x 2.0mm; h = 25mm	DN15:	☐
- Butt weld ends acc. to ISO/EN; 26.9 x 2.6mm; h = 26mm	DN20:	☐
- Butt weld ends acc. to ISO/EN; 33.7 x 2.6mm; h = 34mm	DN25:	☐
- Butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77mm; h = 38mm	1/2" (Sch40):	☐
- Butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87mm; h = 41.5mm	3/4" (Sch40):	☐
- Butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38mm; h = 44.5mm	1" (Sch40):	☐

Other Connections

Indication Rail

PC, IP65 (<150°C)	Flaps: red-silver	No.: 34837	Standard ☐
PC, IP68, inert gas (<150°C)	Flaps: red-silver	No.: 41008	☐
Al/PC, IP54 (<250°C)	Flaps: red-silver	No.: 34560	☐
Al/Glass, IP54 (<400°C)	Flaps: black-silver	No.: 37100	☐
316L, IP67 (<250°C)	Flaps: red-silver	No.: 42403	☐
316L, IP67 (<400°C)	Flaps: black-silver	No.: 42404	☐
Special execution	Flaps:	No.:	☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	Type:
Transmitter:	Resolution [mm]:	Type:
Electrical measuring length Mel [mm]:		
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

Notes:

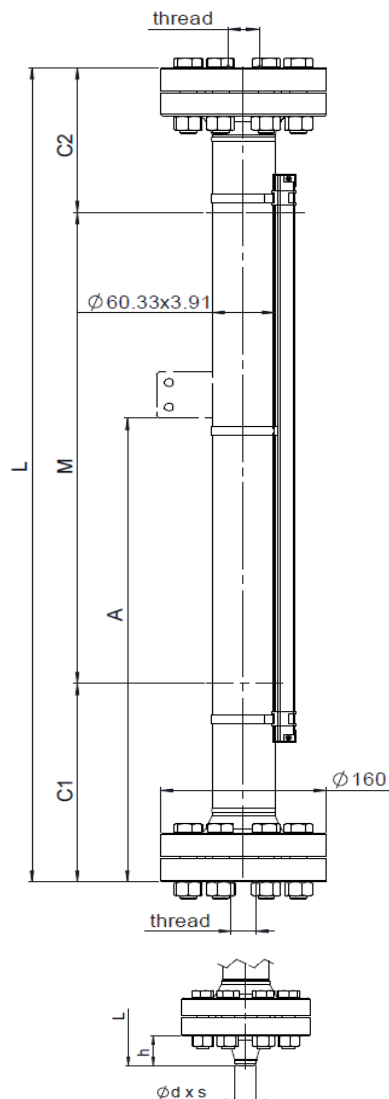
- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 150

Type: 25683-B

Design meets the requirements of PED 2014/68/EU and harmonized standards



Float extension lower / upper:

	C1:	C2:
Standard	200	165
C1 & C2 shorter or longer if out of standard range or with damping springs		

Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:		
Density:	≥ 0.67g/cm³	g/cm³:
Viscosity:	≤ 600cSt	cSt:
Operating pressure:	max. 150bar(g) @ 20°C *1)	bar(g):
Design pressure:	"	bar(g):
Operating temperature:	-80°C ... 400°C *1)	°C:
Design temperature:	"	°C:
Connecting Distance "L":	max. 5800mm (one-piece design)	mm:

Design and Materials:

Float chamber:	standard execution:
Float:	316&316L
	Ti-alloy
	type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets: Graphite incl. reinforcing net in ss 316/316L ($\leq 400^{\circ}\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^{\circ}\text{C}$) ☐

Process Connections

- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1/2" resp. G1/2" :
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp3/4" resp. G3/4" :
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1" resp. G1" :
- Female thread acc. ANSI, without plug	NPT 1/2" :
- Female thread acc. ANSI, without plug	NPT 3/4" :
- Female thread acc. ANSI, without plug	NPT 1" :
- Butt weld ends acc. to ISO/EN; 21.3 x 2.0 mm; h = 25 mm	DN15:
- Butt weld ends acc. to ISO/EN; 26.9 x 2.6 mm; h = 26 mm	DN20:
- Butt weld ends acc. to ISO/EN; 33.7 x 2.6 mm; h = 34 mm	DN25:
- Butt weld ends acc. to ANSI B.36.10; 21.34 x 2.77 mm; h = 38 mm	1/2" (Sch40):
- Butt weld ends acc. to ANSI B.36.10; 26.67 x 2.87 mm; h = 41.5 mm	3/4" (Sch40):
- Butt weld ends acc. to ANSI B.36.10; 33.40 x 3.38 mm; h = 44.5 mm	1" (Sch40):

Other Connections

Indication Rail

PC, IP65 ($<150^{\circ}\text{C}$)	Flaps: red-silver	No.: 34837	Standard
PC, IP68, inert gas ($<150^{\circ}\text{C}$)	Flaps: red-silver	No.: 41008	
Al/PC, IP54 ($<250^{\circ}\text{C}$)	Flaps: red-silver	No.: 34560	
Al/Glass, IP54 ($<400^{\circ}\text{C}$)	Flaps: black-silver	No.: 37100	
316L, IP67 ($<250^{\circ}\text{C}$)	Flaps: red-silver	No.: 42403	
316L, IP67 ($<400^{\circ}\text{C}$)	Flaps: black-silver	No.: 42404	
Special execution	Flaps:	No.:	

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:		Dim. "A" [mm]:	
Magnetic switch:	Quantity:	Type:	
Transmitter:	Resolution [mm]:	Type:	
Electrical measuring length Mel [mm]:			
Converter:	Type:		
Additional accessories:			

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

Notes:

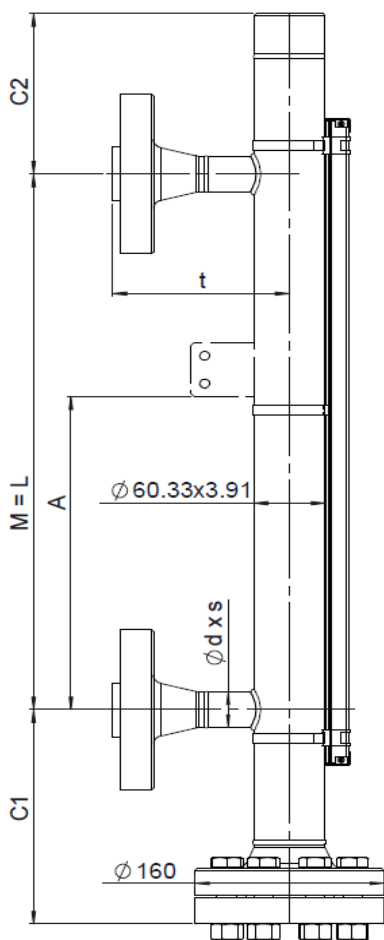
- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 150

Type: 25683-K

Design meets the requirements of PED 2014/68/EU and harmonized standards



Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.67g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 150bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5600mm (one-piece design)	mm:	

Design and Materials:

Float chamber: 316&316L
Float: Ti-alloy type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401 No.: 27399 top ☐ bottom ☐
Gaskets: Graphite incl. reinforcing net in ss 316/316L ($\leq 400^{\circ}\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^{\circ}\text{C}$) ☐

Process Connections

EN-Connecting Flanges acc. EN1092-1 (Standard):

- EN1092-1/11 B1/DNxx/PN160/316L DN15: ☐
- wn-flange, RF, Rz=12,5 50µm, turned DN25: ☐

ANSI/class1500 (= ISO/PN260) - Connecting Flanges:

- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1 ANSI 1/2" resp. ISO DN15 : ☐
- wn-flange, RF SF, Rz=12,5 50µm, turned ANSI 3/4" resp. ISO DN20 : ☐
ANSI 1" resp. ISO DN25 : ☐

Other Connections

--

Float extension lower / upper:

C1: C2:
Standard 200 150
C1 & C2 shorter or longer if out of standard range or with damping springs

Standard Flange Connections:

	DIN/EN	ANSI/ISO
Connection pieces, d*s:		
DN15:	21.3*2.6	21.34*2.77
DN20:	-	26.67*2.87
DN25:	33.7*3.2	33.40*3.38
$\geq \text{DN}32$ *2):	33.7*3.2	33.40*3.38
Dimension t / Dimension tt (w/o Flange):		
DN15:	150 / 105	150 / 83.1
DN20:	-	150 / 73.7
DN25:	150 / 92	150 / 70.4
$\geq \text{DN}32$ *2):	tba *3)	

Indication Rail

PC, IP65 ($<150^{\circ}\text{C}$)
PC, IP68, inert gas ($<150^{\circ}\text{C}$)
Al/PC, IP54 ($<250^{\circ}\text{C}$)
Al/Glass, IP54 ($<400^{\circ}\text{C}$)
316L, IP67 ($<250^{\circ}\text{C}$)
316L, IP67 ($<400^{\circ}\text{C}$)
Special execution

Flaps: red-silver	No.: 34837	Standard	☐
Flaps: red-silver	No.: 41008		☐
Flaps: red-silver	No.: 34560		☐
Flaps: black-silver	No.: 37100		☐
Flaps: red-silver	No.: 42403		☐
Flaps: black-silver	No.: 42404		☐
Flaps:	No.:		☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	Type:
Transmitter:	Resolution [mm]:	Type:
Electrical measuring length Mel [mm]:	5 / 10	
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

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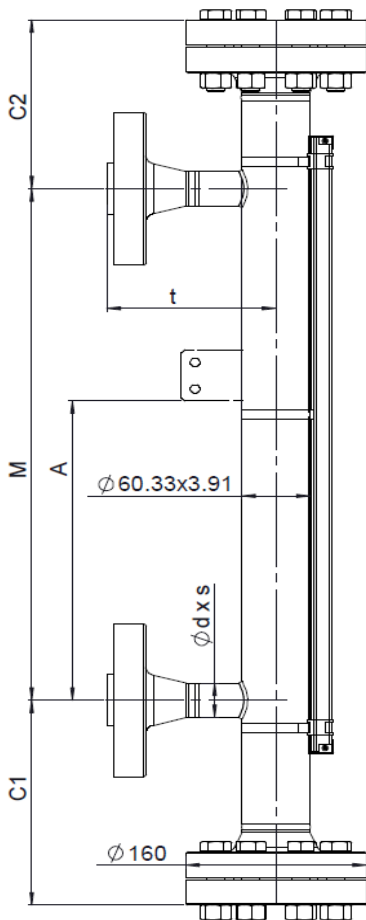
Notes:

- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.
*2) With special reduction flanges.
*3) Depending on size of connecting flanges.
All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 150

Type: 25683-O

Design meets the requirements of PED 2014/68/EU and harmonized standards



Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.67g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 150bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5600mm (one-piece design)	mm:	

Design and Materials:

Float chamber:	standard execution:	
Float:	316&316L	
	Ti-alloy	type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets:

Graphite incl. reinforcing net in ss 316/316L ($\leq 400^{\circ}\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^{\circ}\text{C}$) ☐

Process Connections

EN-Connecting Flanges acc. EN1092-1 (Standard):

- EN1092-1/11 B1/DNxx/PN160/316L	DN15:	☐
- wn-flange, RF, Rz=12,5 50µm, turned	DN25:	☐

ANSI/class1500 (= ISO/PN260) - Connecting Flanges:

- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1	ANSI 1/2" resp. ISO DN15 :	☐
- wn-flange, RF SF, Rz=12,5 50µm, turned	ANSI 3/4" resp. ISO DN20 :	☐
	ANSI 1" resp. ISO DN25 :	☐

Other Connections

--

Float extension lower / upper:

	C1:	C2:
Standard	200	165
C1 & C2 shorter or longer if out of standard range or with damping springs		

Standard Flange Connections:

	DIN/EN	ANSI/ISO
Connection pieces, d*s:		
DN15:	21.3*2.6	21.34*2.77
DN20:	-	26.67*2.87
DN25:	33.7*3.2	33.40*3.38
$\geq \text{DN}32$ *2):	33.7*3.2	33.40*3.38
Dimension t / Dimension tt (w/o Flange):		
DN15:	150 / 105	150 / 83.1
DN20:	-	150 / 73.7
DN25:	150 / 92	150 / 70.4
$\geq \text{DN}32$ *2):	tba *3)	

Indication Rail

PC, IP65 ($<150^{\circ}\text{C}$)
PC, IP68, inert gas ($<150^{\circ}\text{C}$)
Al/PC, IP54 ($<250^{\circ}\text{C}$)
Al/Glass, IP54 ($<400^{\circ}\text{C}$)
316L, IP67 ($<250^{\circ}\text{C}$)
316L, IP67 ($<400^{\circ}\text{C}$)
Special execution

Flaps: red-silver	No.: 34837	Standard	☐
Flaps: red-silver	No.: 41008		☐
Flaps: red-silver	No.: 34560		☐
Flaps: black-silver	No.: 37100		☐
Flaps: red-silver	No.: 42403		☐
Flaps: black-silver	No.: 42404		☐
Flaps:	No.:		☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	
Transmitter:	Resolution [mm]:	5 / 10
Electrical measuring length Mel [mm]:	Type:	
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

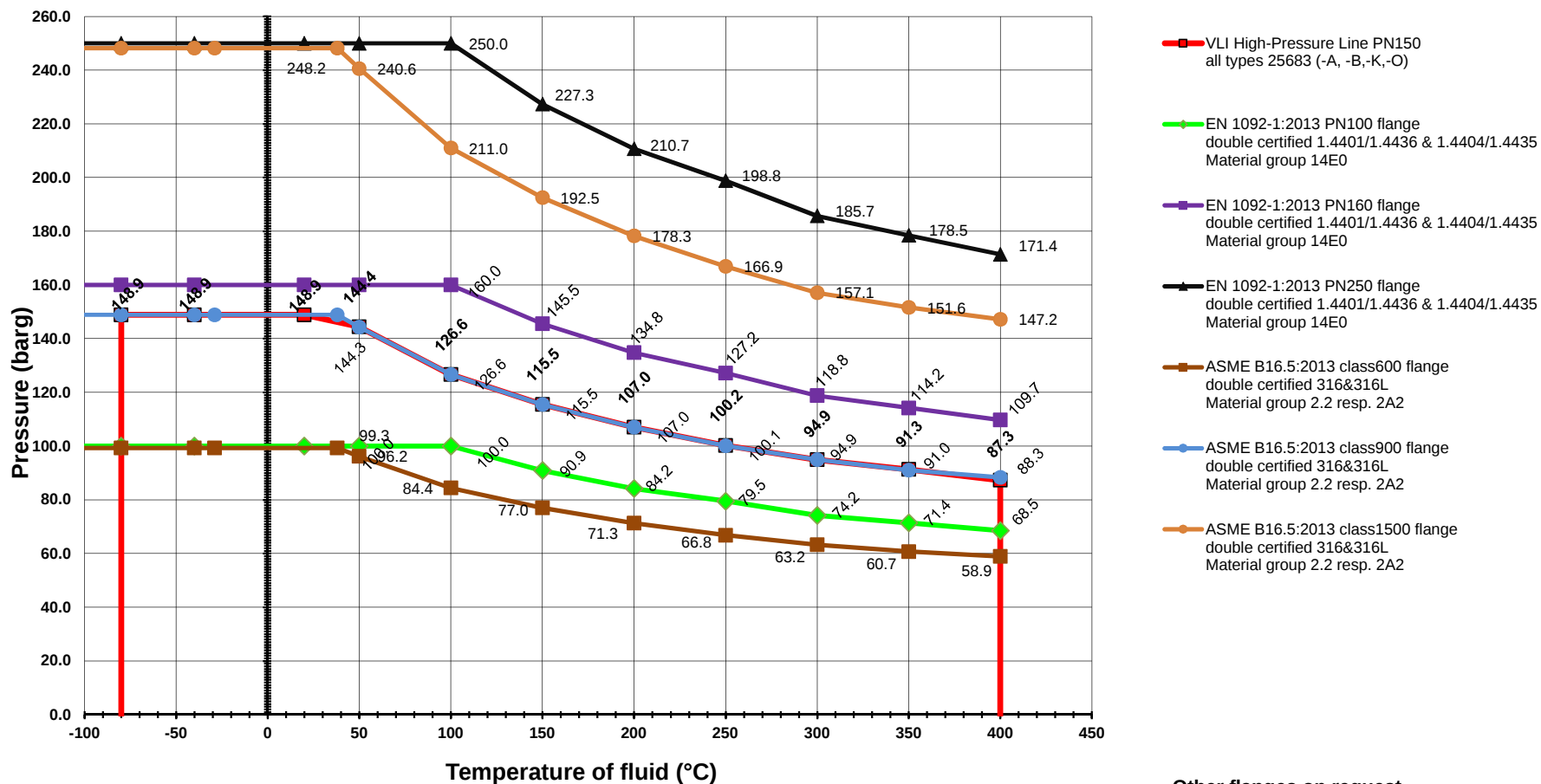
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Notes:

- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.
*2) With special reduction flanges.
*3) Depending on size of connecting flanges.
All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

Pressure-temperature-rating for VLI High Pressure Line 150, type 25683

Max. 150bar(g) @ 20°C, up to max. 400°C for VLI bypass float chamber in SS EN 1.4401, 1.4436 & 1.4404, 1.4435 resp. ANSI 316&316L



Other flanges on request

Notes:

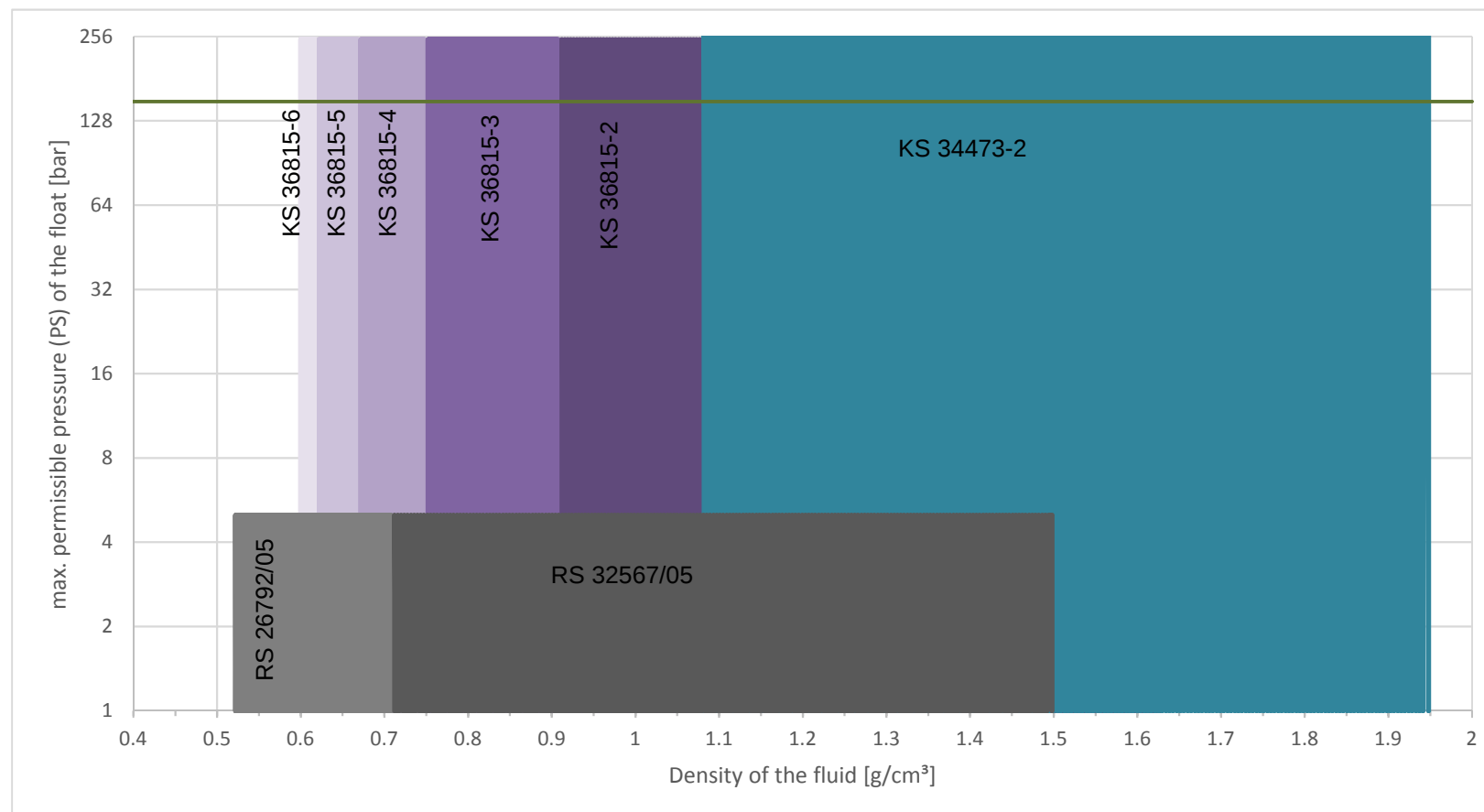
- ANSI B16.5 flange class 900 and Class 1500 up tp 2 1/2" use identical interface dimensions
- Tolerated max pressure @ specified temperature of the VLI is given either by the bypass tube or by the connection flanges
- Lower value sets the limitation! ---

Operating range

AlNiCo Magnet
Standard gasket in graphit or spiral wound gasket graphit&316
PC indication rail
Al or SS standard indication rail
Al oder SS high temperature indication rail
SS screws and nuts in A2-70

These data apply for an operating temperature of $\leq 20^{\circ}\text{C}$.

For higher operating temperatures, please check the max. permissible float pressure on the respective data sheet.



Limit of application:
VLI @ 20°C
Observe P-T diagram!

Comments:

KS = ball float

RS = casing float

Interior diameter of the float chamber = 50.0mm

For steam or condensate applications, please check the use of damping springs

Additional charge for densities $< 0.67\text{g/cm}^3$ due to extended length of bottom float run-out and ball float with more than 4 balls

Example 36815-X = number of balls

Example 26792/XX = max. permissible pressure in bar @ 20°C

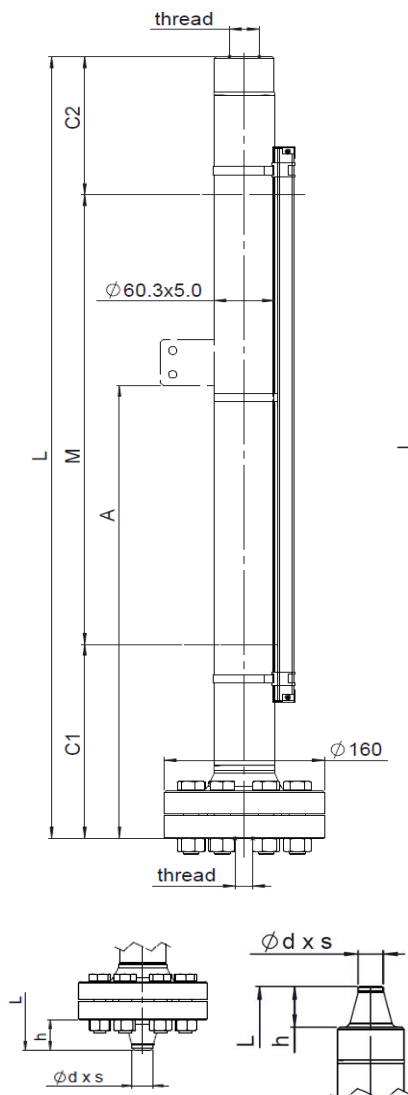
Material = Titan Alloy

Material = 316L

High Pressure Line 200

Type: 32806-A

Design meets the requirements of PED 2014/68/EU and harmonized standards



Float extension lower / upper:

	C1:	C2:
Standard	205	155
C1 & C2 shorter or longer if out of standard range or with damping springs		

Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:		
Density:	≥ 0.67g/cm³	g/cm³:
Viscosity:	≤ 600cSt	cSt:
Operating pressure:	max. 200bar(g) @ 20°C *1)	bar(g):
Design pressure:	"	bar(g):
Operating temperature:	-80°C ... 400°C *1)	°C:
Design temperature:	"	°C:
Connecting Distance "L":	max. 5800mm (one-piece design)	mm:

Design and Materials:

Design and Materials:	standard execution:	
Float chamber:	316&316L	
Float:	Ti-alloy	type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets:

Graphite incl. reinforcing net in ss 316/316L ($\leq 400^{\circ}\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^{\circ}\text{C}$) ☐

Process Connections

- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1/2" resp. G1/2" :
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp3/4" resp. G3/4" :
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug	Rp1" resp. G1" :
- Female thread acc. ANSI, without plug	NPT 1/2" :
- Female thread acc. ANSI, without plug	NPT 3/4" :
- Female thread acc. ANSI, without plug	NPT 1" :
- Butt weld ends acc. to ISO/EN; 21.3 x 2.6mm; h = 34mm	DN15:
- Butt weld ends acc. to ISO/EN; 33.7 x 3.6mm; h = 37mm	DN25:
- Butt weld ends acc. to ANSI B.36.10; 21.34 x 3.73mm; h = 37.8mm	1/2" (Sch80):
- Butt weld ends acc. to ANSI B.36.10; 26.67 x 3.91mm; h = 44.5mm	3/4" (Sch80):
- Butt weld ends acc. to ANSI B.36.10; 33.40 x 4.55mm; h = 44.5mm	1" (Sch80):

Other Connections

Indication Rail

PC, IP65 ($<150^{\circ}\text{C}$)	Flaps: red-silver	No.: 34837	Standard
PC, IP68, inert gas ($<150^{\circ}\text{C}$)	Flaps: red-silver	No.: 41008	
Al/PC, IP54 ($<250^{\circ}\text{C}$)	Flaps: red-silver	No.: 34560	
Al/Glass, IP54 ($<400^{\circ}\text{C}$)	Flaps: black-silver	No.: 37100	
316L, IP67 ($<250^{\circ}\text{C}$)	Flaps: red-silver	No.: 42403	
316L, IP67 ($<400^{\circ}\text{C}$)	Flaps: black-silver	No.: 42404	
Special execution	Flaps:	No.:	

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:		Dim. "A" [mm]:	
Magnetic switch:	Quantity:	Type:	
Transmitter:	Resolution [mm]:	Type:	
Electrical measuring length Mel [mm]:			
Converter:	Type:		
Additional accessories:			

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

Notes:

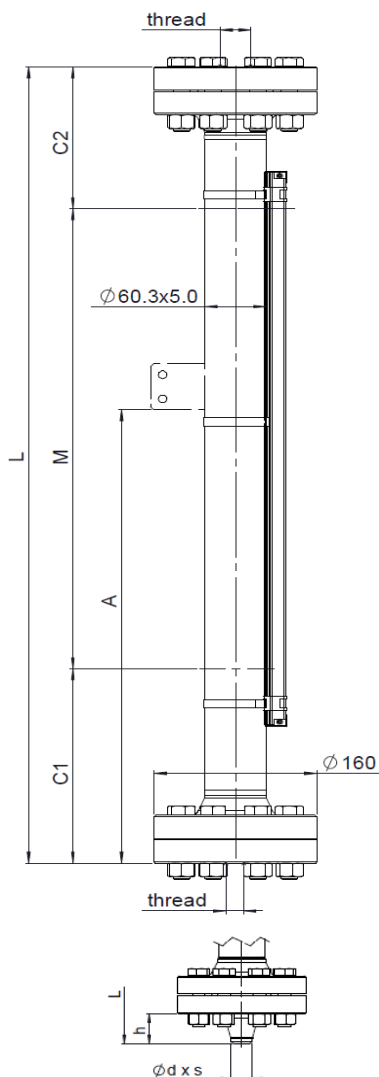
- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 200

Type: 32806-B

Design meets the requirements of PED 2014/68/EU and harmonized standards



Float extension lower / upper:

C1: C2:
Standard 205 170
C1 & C2 shorter or longer if out of standard range or with damping springs

Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:
Density: $\geq 0.67 \text{ g/cm}^3$ g/cm³:
Viscosity: $\leq 600 \text{ cSt}$ cSt:
Operating pressure: max. 200bar(g) @ 20°C *1) bar(g):
Design pressure: " bar(g):
Operating temperature: -80°C ... 400°C *1) °C:
Design temperature: " °C:
Connecting Distance "L": max. 5800mm (one-piece design) mm:

Design and Materials:

standard execution:
Float chamber: 316&316L
Float: Ti-alloy

type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets:

Graphite incl. reinforcing net in ss 316/316L ($\leq 400^\circ\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^\circ\text{C}$) ☐

Process Connections

- Female thread acc. ISO7-1 resp. ISO 228-1, without plug
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug
- Female thread acc. ISO7-1 resp. ISO 228-1, without plug
- Female thread acc. ANSI, without plug
- Female thread acc. ANSI, without plug
- Female thread acc. ANSI, without plug
- Butt weld ends acc. to ISO/EN; 21.3 x 2.6mm; h = 34mm
- Butt weld ends acc. to ISO/EN; 33.7 x 3.6mm; h = 37mm
- Butt weld ends acc. to ANSI B.36.10; 21.34 x 3.73mm; h = 37.8mm
- Butt weld ends acc. to ANSI B.36.10; 26.67 x 3.91mm; h = 44.5mm
- Butt weld ends acc. to ANSI B.36.10; 33.40 x 4.55mm; h = 44.5mm

Rp1/2" resp. G1/2": ☐
Rp3/4" resp. G3/4": ☐
Rp1" resp. G1": ☐
NPT 1/2": ☐
NPT 3/4": ☐
NPT 1": ☐
DN15: ☐
DN25: ☐
1/2" (Sch80): ☐
3/4" (Sch80): ☐
1" (Sch80): ☐

Other Connections

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Indication Rail

PC, IP65 ($<150^\circ\text{C}$)
PC, IP68, inert gas ($<150^\circ\text{C}$)
Al/PC, IP54 ($<250^\circ\text{C}$)
Al/Glass, IP54 ($<400^\circ\text{C}$)
316L, IP67 ($<250^\circ\text{C}$)
316L, IP67 ($<400^\circ\text{C}$)
Special execution

Flaps: red-silver
Flaps: red-silver
Flaps: red-silver
Flaps: black-silver
Flaps: red-silver
Flaps: black-silver
Flaps:

No.: 34837
No.: 41008
No.: 34560
No.: 37100
No.: 42403
No.: 42404
No.:

Standard ☐
☐
☐
☐
☐
☐
☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:
Magnetic switch: Quantity:
Transmitter: Resolution [mm]:
Electrical measuring length Mel [mm]:
Converter: Type:
Additional accessories:

Dim. "A" [mm]:
Type:
Type:

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED

☐

Special Executions & Additional Notes

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Notes:

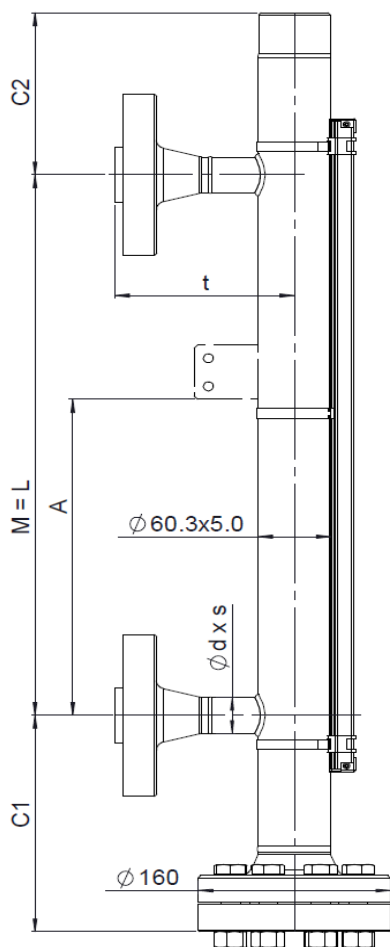
- *1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 200

Type: 32806-K

Design meets the requirements of PED 2014/68/EU and harmonized standards



Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.67g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 200bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5600mm (one-piece design)	mm:	

Design and Materials:

Float chamber: 316&316L
Float: Ti-alloy type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets:

Graphite incl. reinforcing net in ss 316/316L (≤ 400°C) Standard ☐
Spiral wound gasket Graphit & 316 (≤ 400°C) ☐

Process Connections

EN-Connecting Flanges acc. EN1092-1 (Standard):

- EN1092-1/11 B1/DNxx/PN250/316L DN15: ☐
- wn-flange, RF, Rz=12,5 50µm, turned DN25: ☐

ANSI/class1500 (= ISO/PN260) - Connecting Flanges:

- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1 ANSI 1/2" resp. ISO DN15 : ☐
- wn-flange, RF SF, Rz=12,5 50µm, turned ANSI 3/4" resp. ISO DN20 : ☐
ANSI 1" resp. ISO DN25 : ☐

Other Connections

--

Float extension lower / upper:

C1: C2:
Standard 205 155
C1 & C2 shorter or longer if out of standard range or with damping springs

Standard Flange Connections:

	DIN/EN	ANSI/ISO
Connection pieces, d*s:		
DN15:	21.3*2.6	21.34*3.73
DN20:	-	26.67*3.91
DN25:	33.7*3.6	33.40*4.55
>= DN32 *2):	33.7*3.6	33.40*4.55
Dimension t / Dimension tt (w/o Flange):		
DN15:	150 / 90	150 / 81.3
DN20:	-	150 / 73.7
DN25:	150 / 85	150 / 70.4
>= DN32 *2):	tba *3)	

Indication Rail

PC, IP65 (<150°C)
PC, IP68, inert gas (<150°C)
Al/PC, IP54 (<250°C)
Al/Glass, IP54 (<400°C)
316L, IP67 (<250°C)
316L, IP67 (<400°C)
Special execution

Flaps: red-silver	No.: 34837	Standard	☐
Flaps: red-silver	No.: 41008		☐
Flaps: red-silver	No.: 34560		☐
Flaps: black-silver	No.: 37100		☐
Flaps: red-silver	No.: 42403		☐
Flaps: black-silver	No.: 42404		☐
Flaps:	No.:		☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	
Transmitter:	Resolution [mm]:	5 / 10
Electrical measuring length Mel [mm]:	Type:	
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

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Notes:

*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

*2) With special reduction flanges.

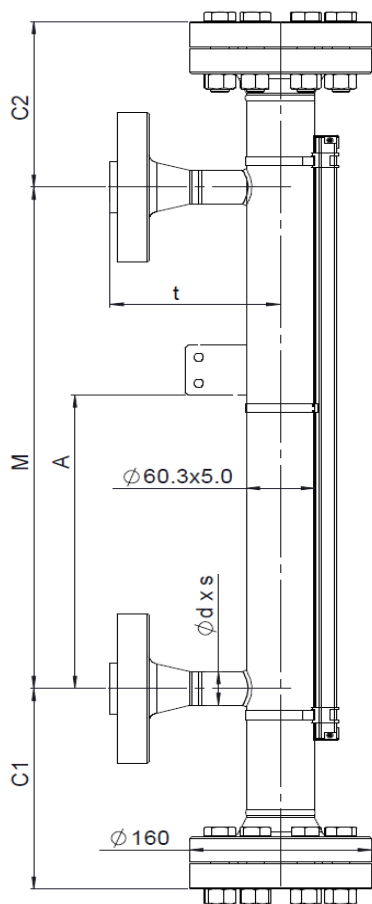
*3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

High Pressure Line 200

Type: 32806-O

Design meets the requirements of PED 2014/68/EU and harmonized standards



Purchase Order Data:

Company:
Purchase order no.:
Quantity:

Project:	
Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.67g/cm³	g/cm³:	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:	max. 200bar(g) @ 20°C *1)	bar(g):	
Design pressure:	"	bar(g):	
Operating temperature:	-80°C ... 400°C *1)	°C:	
Design temperature:	"	°C:	
Connecting Distance "L":	max. 5600mm (one-piece design)	mm:	

Design and Materials:

Float chamber:	standard execution:	
Float:	316&316L	
	Ti-alloy	type no.:

Screws and nuts in A2-70 (AISI 304) for operating temp. -80°C +400°C

Damping spring, 1.4401

No.: 27399 top ☐ bottom ☐

Gaskets:

Graphite incl. reinforcing net in ss 316/316L ($\leq 400^{\circ}\text{C}$) Standard ☐
Spiral wound gasket Graphit & 316 ($\leq 400^{\circ}\text{C}$) ☐

Process Connections

EN-Connecting Flanges acc. EN1092-1 (Standard):

- EN1092-1/11 B1/DNxx/PN250/316L	DN15: ☐
- wn-flange, RF, Rz=12,5 50µm, turned	DN25: ☐

ANSI/class1500 (= ISO/PN260) - Connecting Flanges:

- ANSI/ASME B16.5 / ISO-DIS7005-1.2, type 11/B1	ANSI 1/2" resp. ISO DN15 : ☐
- wn-flange, RF SF, Rz=12,5 50µm, turned	ANSI 3/4" resp. ISO DN20 : ☐
	ANSI 1" resp. ISO DN25 : ☐

Other Connections

--

Float extension lower / upper:

	C1:	C2:
Standard	205	170
C1 & C2 shorter or longer if out of standard range or with damping springs		

Standard Flange Connections:

	DIN/EN	ANSI/ISO
Connection pieces, d*s:		
DN15:	21.3*2.6	21.34*3.73
DN20:	-	26.67*3.91
DN25:	33.7*3.6	33.40*4.55
$\geq \text{DN32}^*2$:	33.7*3.6	33.40*4.55
Dimension t / Dimension tt (w/o Flange):		
DN15:	150 / 90	150 / 81.3
DN20:	-	150 / 73.7
DN25:	150 / 85	150 / 70.4
$\geq \text{DN32}^*2$:	tba *3)	

Indication Rail

PC, IP65 ($<150^{\circ}\text{C}$)
PC, IP68, inert gas ($<150^{\circ}\text{C}$)
Al/PC, IP54 ($<250^{\circ}\text{C}$)
Al/Glass, IP54 ($<400^{\circ}\text{C}$)
316L, IP67 ($<250^{\circ}\text{C}$)
316L, IP67 ($<400^{\circ}\text{C}$)
Special execution

Flaps: red-silver	No.: 34837	Standard ☐
Flaps: red-silver	No.: 41008	☐
Flaps: red-silver	No.: 34560	☐
Flaps: black-silver	No.: 37100	☐
Flaps: red-silver	No.: 42403	☐
Flaps: black-silver	No.: 42404	☐
Flaps:	No.:	☐

Accessories (refer to installation instructions 20010501)

Fixation bracket, moveable no. 45143-2:	Dim. "A" [mm]:	
Magnetic switch:	Quantity:	
Transmitter:	Resolution [mm]:	5 / 10
Electrical measuring length Mel [mm]:	Type:	
Converter:	Type:	
Additional accessories:		

Test Reports and Certificates

EN10204:2004-3.1: main pressure-bearing parts according to PED ☐

Special Executions & Additional Notes

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Notes:

*1) Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

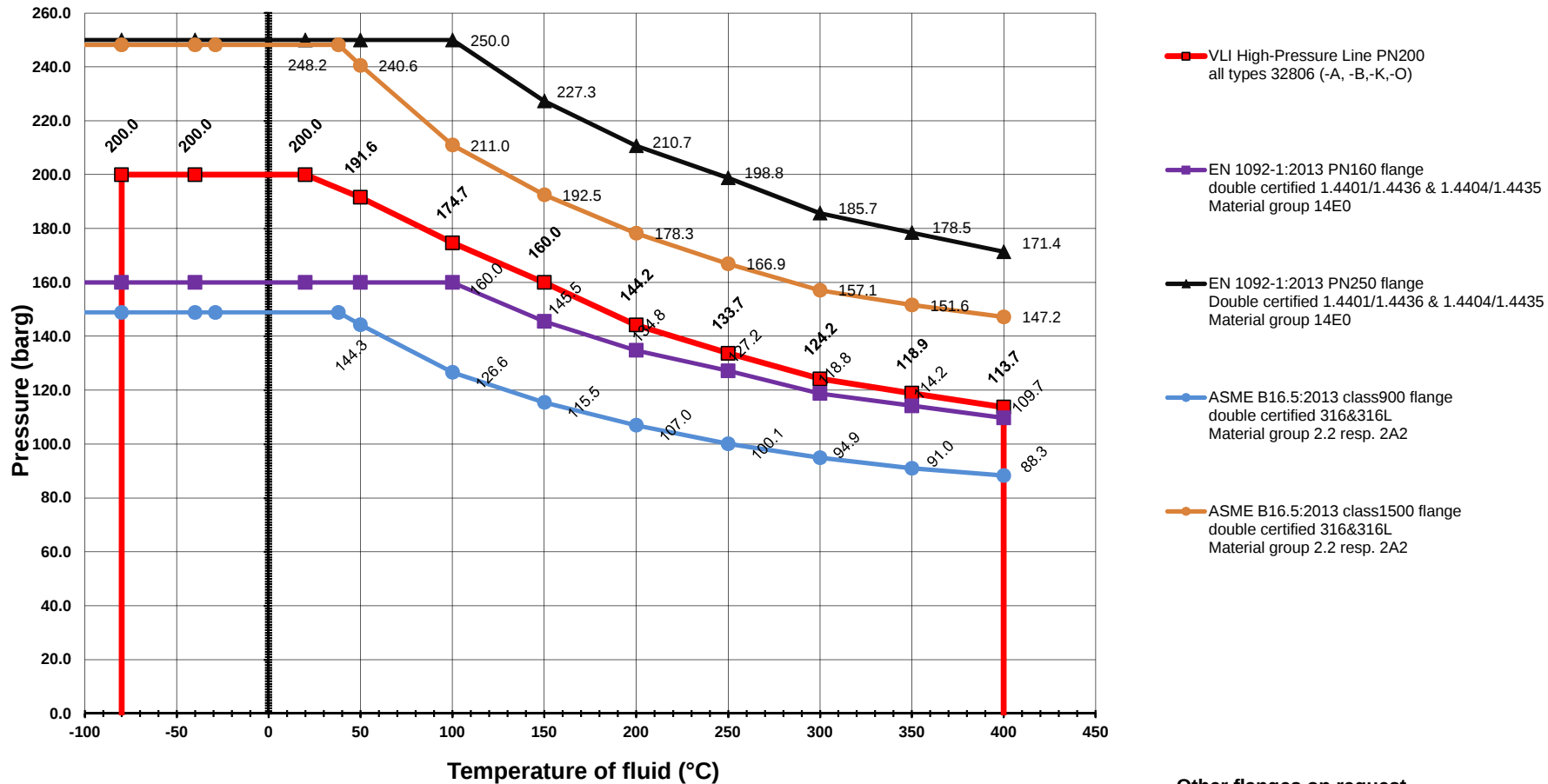
*2) With special reduction flanges.

*3) Depending on size of connecting flanges.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.

Pressure-temperature-rating for VLI High Pressure Line 200, type 32806

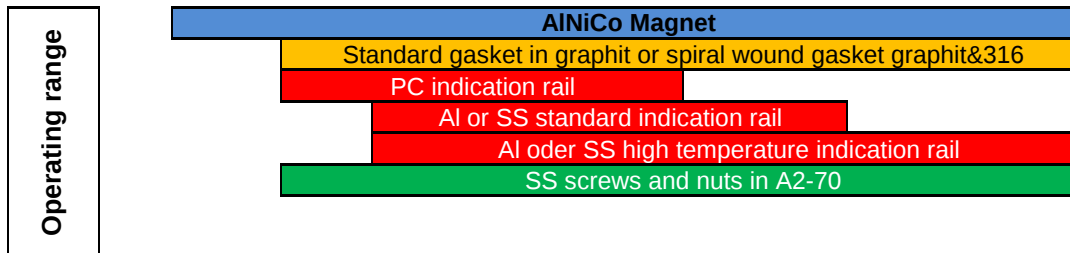
Max. 200bar(g) @ 20°C, up to max. 400°C for VLI bypass float chamber in SS EN 1.4401, 1.4436 & 1.4404, 1.4435 resp. ANSI 316&316L



Other flanges on request

Notes:

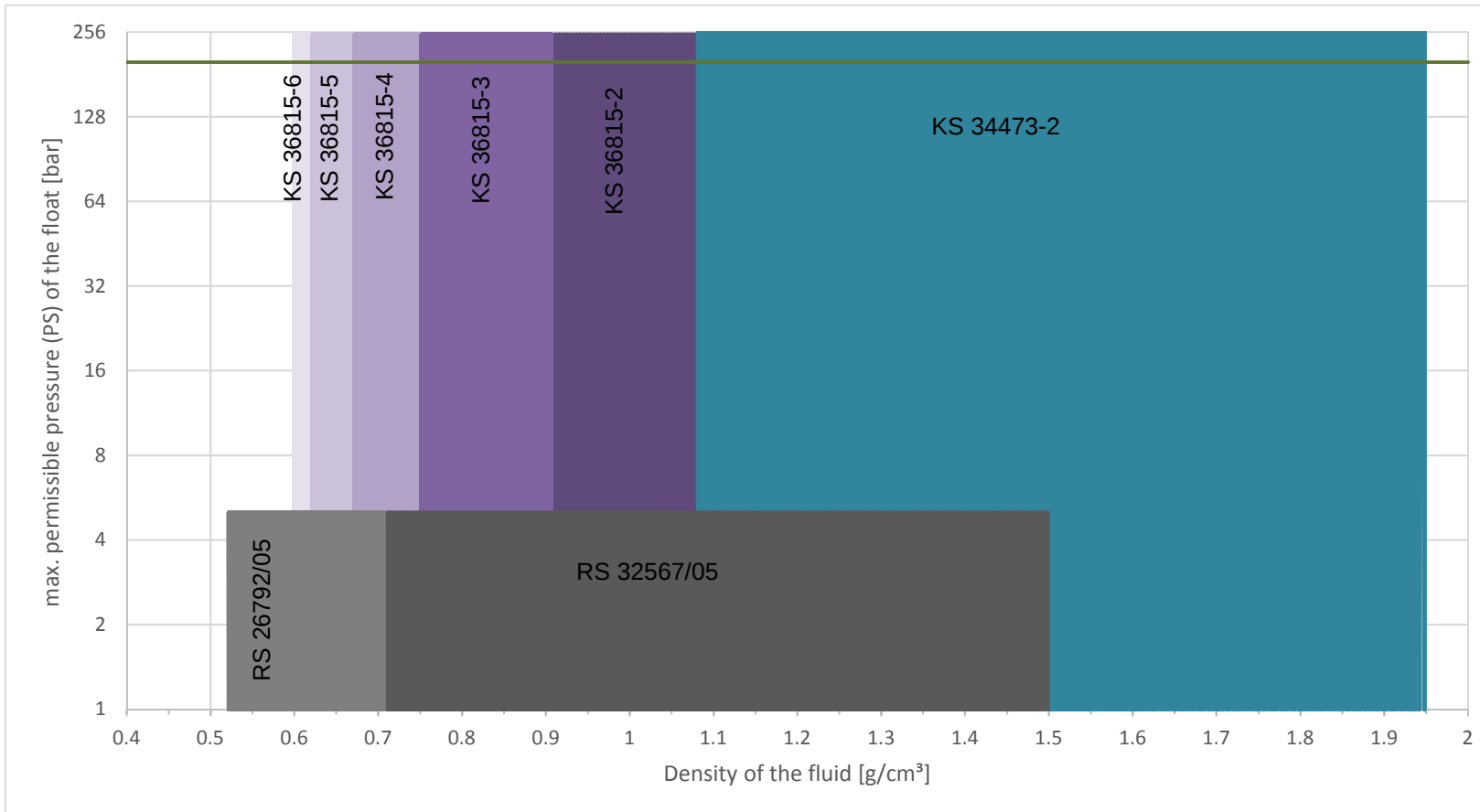
- ANSI B16.5 flange class 900 and Class 1500 up tp 2 1/2" use identical interface dimensions
- Tolerated max pressure @ specified temperature of the VLI is given either by the bypass tube or by the connection flanges
- Lower value sets the limitation! ---



Float selection diagram VLI Typ 32806, High Pressure - Power 200

These data apply for an operating temperature of $\leq 20^\circ\text{C}$.

For higher operating temperatures, please check the max. permissible float pressure on the respective data sheet.



Limit of application:
VLI @ 20°C
Observe P-T diagram!

Comments:

KS = ball float

RS = casing float

Interior diameter of the float chamber = 50.0mm

For steam or condensate applications, please check the use of damping springs

Additional charge for densities $< 0.67\text{g/cm}^3$ due to extended length of bottom float run-out and ball float with more than 4 balls

Example 36815-X = number of balls

Example 26792/XX = max. permissible pressure in bar @ 20°C

Material = Titan Alloy

Material = 316L

High pressure VLI >200bar

WEKA has also manufactured magnetic level indicators (VLI) in the pressure classes > 200bar for many years. During this time, we have accumulated the specific and extensive expertise which is necessary for the design and manufacturing of high-pressure magnetic level indicators. This knowledge and skill is demonstrated by the several hundred devices which are in effective use every day, in a wide variety of countries and under very different service conditions.

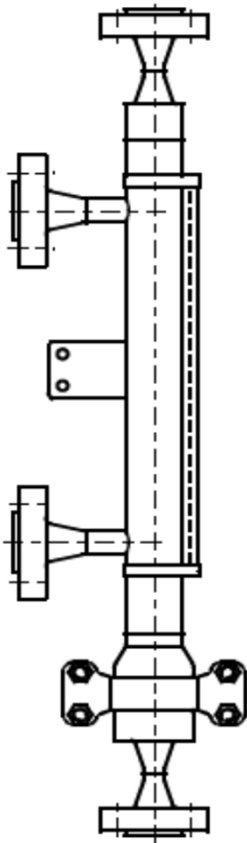
General standardisation for high pressure applications is exceptionally difficult due to the great variety of demands on high-pressure Visual Level Indicators.

Demands could include:

- Excessive temperature and pressure conditions.
- Special mounting onto vessel or tank could be complex with fittings, flanges or specially designed high-pressure coupling clamps.
- Local rules for pressure vessels and special regulations may influence the type of design and manufacturing.
- Extreme environmental conditions, e.g. on offshore rigs or oil production platforms, for hydraulic forging presses, large steam boilers, etc.
- Exotic materials for chamber and float due to high corrosive and dangerous liquids.

For preparation of an accurate offer explicit details and data must be provided as well as all relevant information described above.

Some applications may be designed according to the sketches below:



Design with clamp service connection

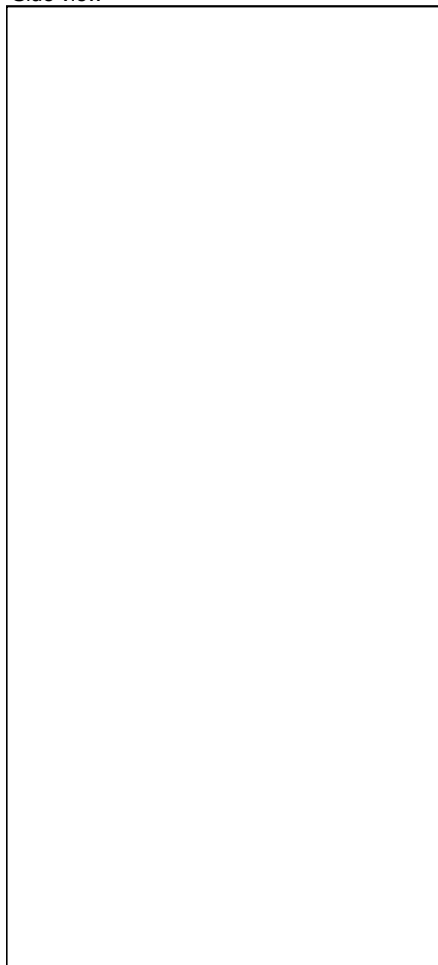
- for high temperature applications, e.g. steam
- metal sealing
- low weight in comparison to flanged connections
- reduced requirements of bolting as pressure bearing parts
- radial bolting allows 360° orientation of clamp
- quick and easy assembly and disassembly
- for low temperature applications, e.g. hydraulic or hydrostatic

Free form data sheet for VLI >200bar

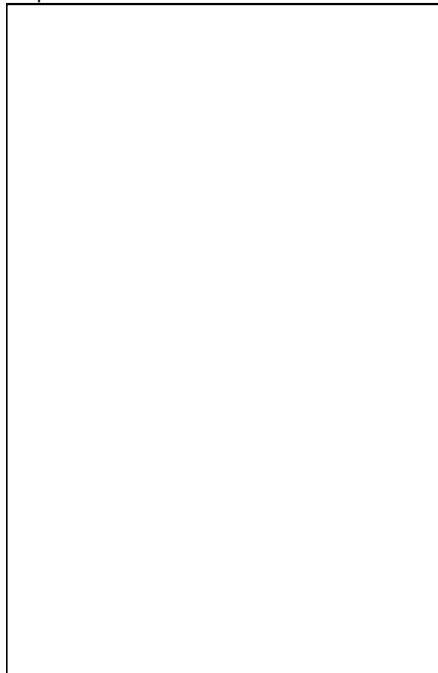
Design meets the requirements of PED 2014/68/EU and harmonized standards

Sketch:

Side view



Top view



Purchase Order Data:

Company:		Project:	
Purchase order no.:			
Quantity:		Tag no.:	

Operating Conditions

Fluid:			
Density:	≥ 0.6g/cm ³	g/cm ³ :	
Viscosity:	≤ 600cSt	cSt:	
Operating pressure:		bar(g):	
Design pressure:		bar(g):	
Operating temperature:	≤ 400°C	°C:	
Design temperature:	≤ 400°C	°C:	
Connecting distance "L":		mm:	
Measuring length "M":		mm:	
Lower float extension "C1":		mm:	
Upper float extension "C2":		mm:	

Design and Materials:

Float chamber:	
Float:	
Bolting:	
Damping spring top and bottom, 1.4401	

Gaskets: Graphite incl. reinforcing net in ss 316/316L (≤ 400°C) Standard ☐
Spiral wound gasket Graphit & 316 (≤ 400°C) ☐

Process connections:

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Indication Rail:

PC, IP65 (≤ 150°C)	Flaps: red-silver	No.: 34837	Standard ☐
PC, IP68, inert gas (≤ 150°C)	Flaps: red-silver	No.: 41008	☐
Al/PC, IP54 (≤ 250°C)	Flaps: red-silver	No.: 34560	☐
Al/glass, IP54 (≤ 400°C)	Flaps: black-silver	No.: 37100	☐
Special	Flaps:	No.:	

Accessories (installation instructions see spec. no. 20010501)

Fixation bracket, moveable no. 45143-2:	dimension "A" [mm]:	
Magnetic switch:	quantity:	type:
Transmitter:	resolution [mm]:	type:
	measuring length M _{el.} [mm]:	
Converter:	type:	
Further accessories:		

Test reports and certificates:

EN10204:2004-3.1 certificate for used materials of the float chamber: ☐

Special executions and notes:

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Notes:

Refer to pressure-temperature rating! Lowest pressure-temperature rating of any connecting flange or fitting will set the limitation!
Test pressure will be specified according to WEKA specification AW 2.1.2.

All indicated dimensions in mm. All dimensions are only valid on VLI in standard execution.