

Standard bellow sealed cryogenic and ambient valves PN25 with pneumatic or manual actuator

✓
Certified according
ISO 9001

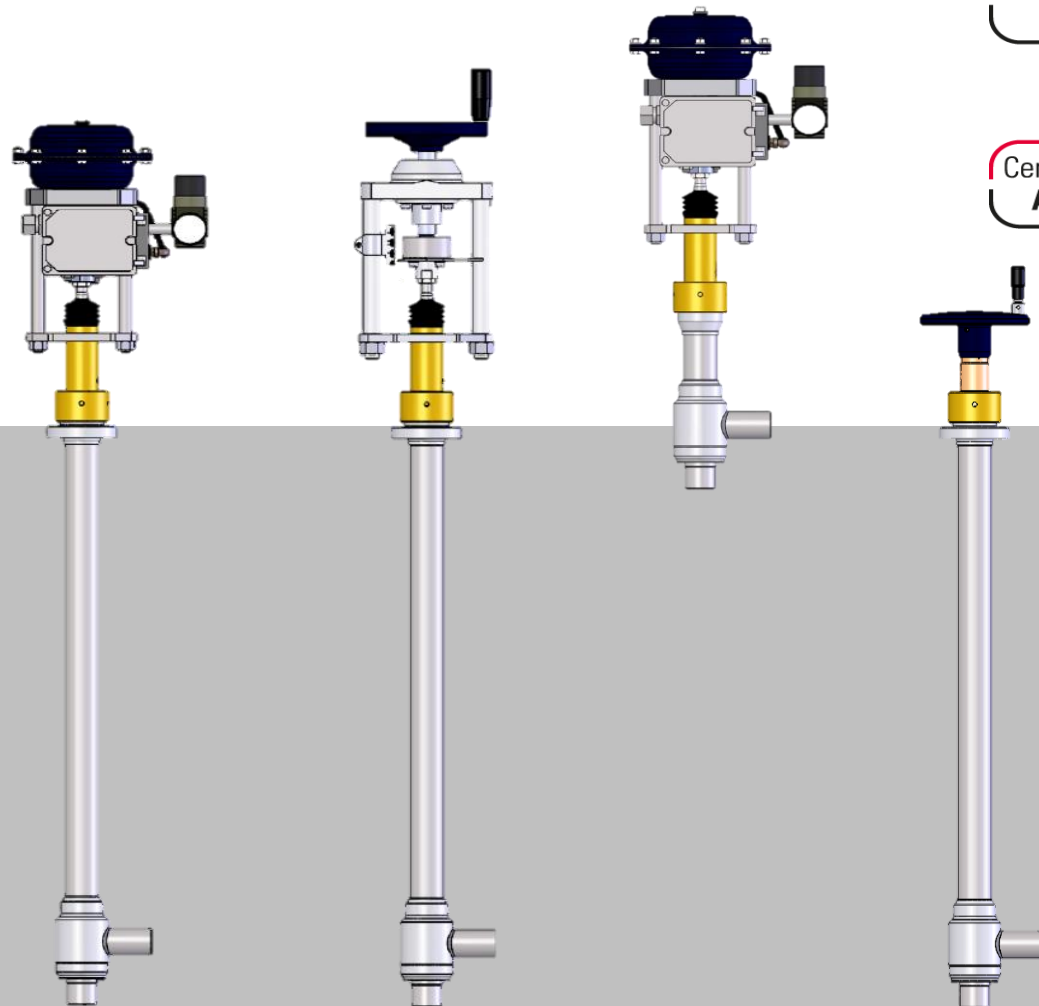
✓
Certified according
PED

✓
Certified according
ATEX/IECE_x



Datasheet

WEKA_930219
Rev.
17.07.2026





WEKA AG · Switzerland

Schürlistrasse 8 · CH-8344 Bäretswil · Phone +41 43 833 43 43 · info@weka-ag.ch · www.weka-ag.ch

WEKA datasheet 930219

Index

Description	Type	Page		Type	Page
Introduction		3			
DN2	TxV	4		WxV	23
DN4	TxV	5		WxV	24
DN6	TxV	6		WxV	25
DN8	TxV	7		WxV	26
DN10	TxV	8		WxV	27
DN15	TxV	9		WxV	28
DN15-10	TxV	10			
DN15-6	TxV	11			
DN20	TxV	12		WxV	29
DN25	TxV	13		WxV	30
DN25-15	TxV	14			
DN32	TxV	15		WxV	31
DN40	TxV	16		WxV	32
DN50	TxV	17		WxV	33
DN65	TxV	18		WxV	34
DN80	TxV	19		WxV	35
DN100	TxV	20		WxV	36
DN125	TxV	21		WxV	37
DN150	TxV	22		WxV	38

WEKA datasheet 930219

Introduction

General description

The datasheet describes the mechanical dimensions and physical properties like flow capacity, heat input or temperature ranges of cryogenic and warm valves. They have a top mounting design with metallic bellow seal, typically used for Helium and Hydrogen applications in vacuum isolated vessels. The valves can be executed as shut-off valve with manual or pneumatic membrane actuator or control valve with pneumatic membrane actuator in combination with a Samson or Siemens positioner.

Please consider the following abbreviations:

PM - Valves with pneumatic actuator, pneumatic actuators can be configured in Po (normal closed) or PS (normal open).

HL - Valves with handwheel

Hlc - Valves with a compact handwheel

Different manual actuators are available according to datasheet 921029.

For different valve body patterns see datasheet 911003.

External loads that are allowed on the components are defined in datasheet 20100223.

Design pressure:

The typical design pressure for cryogenic valves is 25 bar. The data in this datasheet are valid for a PN25 valve with an angle pattern housing (type E). Higher nominal pressures (e. g. PN40 up to DN80) are available on specific customer request.

Design temperature:

TxV - Cryogenic valves are designed for fluid temperatures from -270 °C to 50 °C @ nominal pressure PN25.

WxV - Warm valves are designed for fluid temperatures from -30 °C to 50 °C @ nominal pressure PN25.

Higher fluid temperatures are possible upon customer request and under consideration of the pressure/temperature rating.

Ambient temperature:

The standard ambient temperature range is -5 °C to 50 °C, extended ambient temperature ranges are possible on customer request.

Reduced seat bore:

The valves TEV DN25 and DN15 are available with reduced seat bore. The available variants are TEV DN25-15, TEV DN15-10, TEV DN15-6.

The valves with reduced seat bore are particularly recommended in cases when increased mechanical robustness is needed or in low-pressure applications to reduce the outlet velocity.

Heat loads

To reduce the heat load into the cryogenic fluid the cryogenic length "h" can be adjusted. Heat loads can be reduced furthermore with the option to implement a thermal contact, see datasheet 930435.

For an advanced heat load reduction there is the option to implement a G10 compound in the valve insert.

To avoid thermoacoustic oscillations, convection brakes according to datasheet 930108 can be used.

Flow coefficient

The maximum and minimum achievable Kv-values are given and valid for E-body-patterns.

For available flow plugs see datasheet 20150066.

For other body patterns reduced Kv-values must be considered according to datasheet 20150066.

Standard material selection

- Body and insert: Stainless steel

- Flow plug: AIBz

- Seat seal: PTFE (different materials might result in bigger actuators with larger diameters)

- Dynamic seal to ambient: Metallic bellow

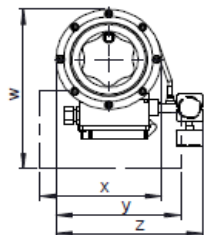
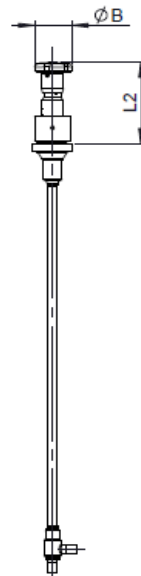
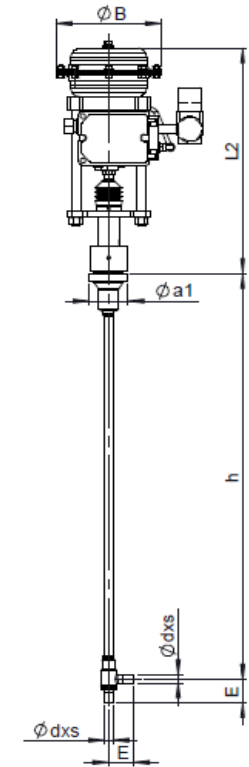
- Static seal to ambient: NBR

Other material selections are available on specific customer requirements.

Additional documents

- Flow plugs:	20150066
- Body patterns:	911003
- Manual drives:	921029
- Allowed additional loads:	20100223
- Heat loads:	930435
- Thermal contacts:	930435
- Convection brakes:	930108

The information in this datasheet 930219 refers to standard valve configurations and dimensions; the data may differ for customised configurations. Binding information can be found in the technical specifications of the valves, STEP files and customer drawings.

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**
PM
HLc

Valve size
DN2

Nominal DN:	DN2
Nominal pressure:	PN25
Design temperature:	-270°C to +50°C
Kv min (Cv min):	0.0018 (0.0021)
Kv max (Cv max) as control valve:	0.100 (0.116)
Kv max (Cv max) as Shut/Off-valve:	0.100 (0.116)

Dimension performance:

Vacuum weld in flange $\phi a1$ [mm]:	60
Butt weld end, ϕdxs [mm]:	13.0x1.5
Connection dimension E [mm]:	38
Standard cryogenic length h [mm]:	650
Minimum cryogenic length h [mm]:	130
Heat load 300 to 4.2K @ indicated length h [W]:	< 0.31
Valve weight (without attached parts) [kg]:	2.3

Actuator:

	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	-
ϕB [mm]:	162				60	-
L2 (valve with open manual actuator) [mm]:	368				140	-
Total weight of actuator unit [kg]:	5.8				0.5	-
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-

Maximum dimensions with SIEMENS or SAMSON positioner

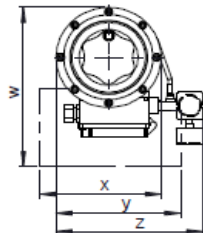
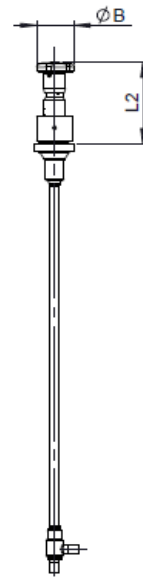
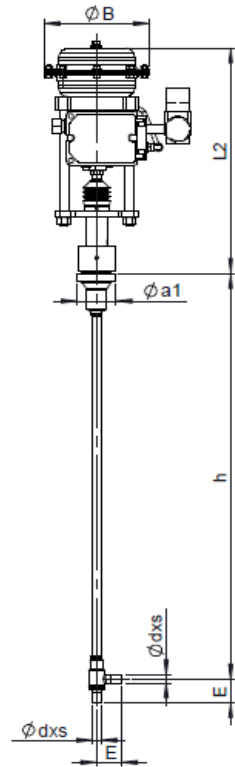
w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

WEKA datasheet 930219

Standard bellow sealed cryogenic valves PN25 with pneumatic or manual actuator

PM

HLc



Valve size

DN4

Nominal DN:	DN4
Nominal pressure:	PN25
Design temperature:	-270°C to +50°C
Kv min (Cv min):	0.007 (0.008)
Kv max (Cv max) as control valve:	0.60 (0.70)
Kv max (Cv max) as Shut/Off-valve:	0.60 (0.70)

Dimension performance:

Vacuum weld in flange øa1 [mm]:	60
Butt weld end, ødxs [mm]:	13.0x1.5
Connection dimension E [mm]:	38
Standard cryogenic length h [mm]:	650
Minimum cryogenic length h [mm]:	130
Heat load 300 to 4.2K @ indicated length h [W]:	< 0.31
Valve weight (without attached parts) [kg]:	2.3

Actuator:

	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	-
ØB [mm]:	162				60	-
L2 (valve with open manual actuator) [mm]:	368				140	-
Total weight of actuator unit [kg]:	5.8				0.5	-
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-

Maximum dimensions with SIEMENS or SAMSON positioner

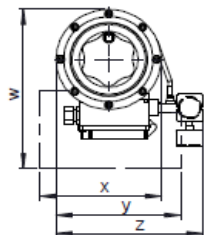
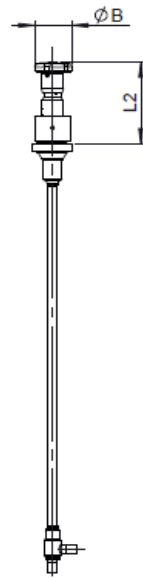
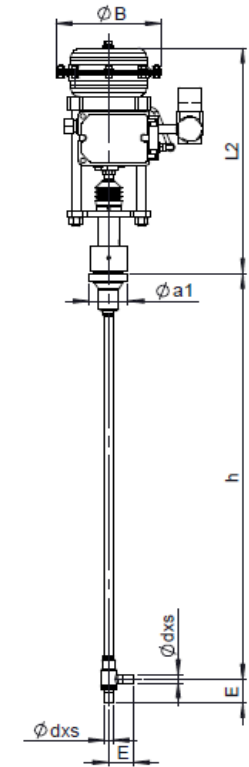
w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

WEKA datasheet 930219

Standard bellow sealed cryogenic valves PN25 with pneumatic or manual actuator

PM

HLc



Valve size

DN6

Nominal DN:	DN6 (1/8")
Nominal pressure:	PN25
Design temperature:	-270°C to +50°C
Kv min (Cv min):	0.010 (0.011)
Kv max (Cv max) as control valve:	1.10 (1.28)
Kv max (Cv max) as Shut/Off-valve:	1.20 (1.39)

Dimension performance:

Vacuum weld in flange $\phi a1$ [mm]:	60
Butt weld end, ϕdxs [mm]:	13.0x1.5
Connection dimension E [mm]:	38
Standard cryogenic length h [mm]:	650
Minimum cryogenic length h [mm]:	130
Heat load 300 to 4.2K @ indicated length h [W]:	< 0.31
Valve weight (without attached parts) [kg]:	2.3

Actuator:

	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	-
ϕB [mm]:	162				60	-
L2 (valve with open manual actuator) [mm]:	368				140	-
Total weight of actuator unit [kg]:	5.8				0.5	-
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-

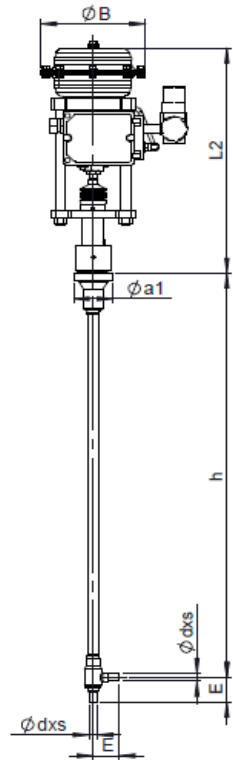
Maximum dimensions with SIEMENS or SAMSON positioner

w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

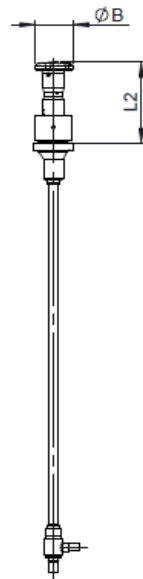
WEKA datasheet 930219

Standard bellow sealed cryogenic valves PN25 with pneumatic or manual actuator

PM



HLc



Valve size

DN8

Nominal DN:	DN8 (1/4")
Nominal pressure:	PN25
Design temperature:	-270°C to +50°C
Kv min (Cv min):	0.015 (0.017)
Kv max (Cv max) as control valve:	1.80 (2.09)
Kv max (Cv max) as Shut/Off-valve:	2.10 (2.44)

Dimension performance:

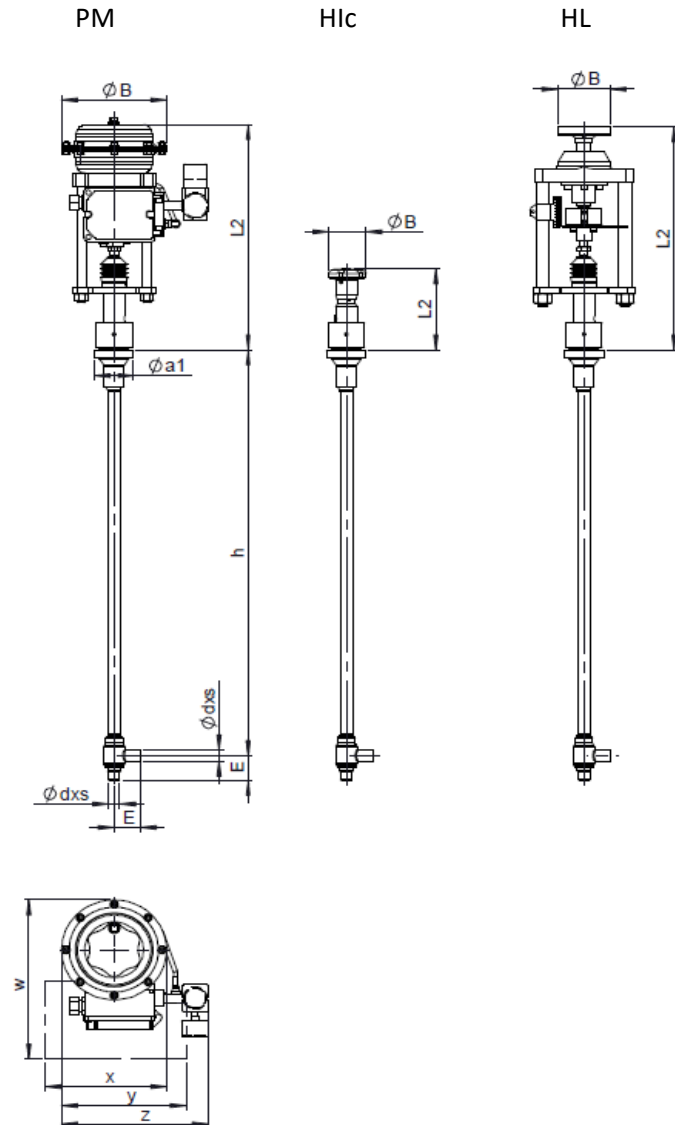
Vacuum weld in flange øa1 [mm]:	60
Butt weld end, ødxs [mm]:	13.0x1.5
Connection dimension E [mm]:	40
Standard cryogenic length h [mm]:	650
Minimum cryogenic length h [mm]:	130
Heat load 300 to 4.2K @ indicated length h [W]:	< 0.36
Valve weight (without attached parts) [kg]:	2.4

Actuator:

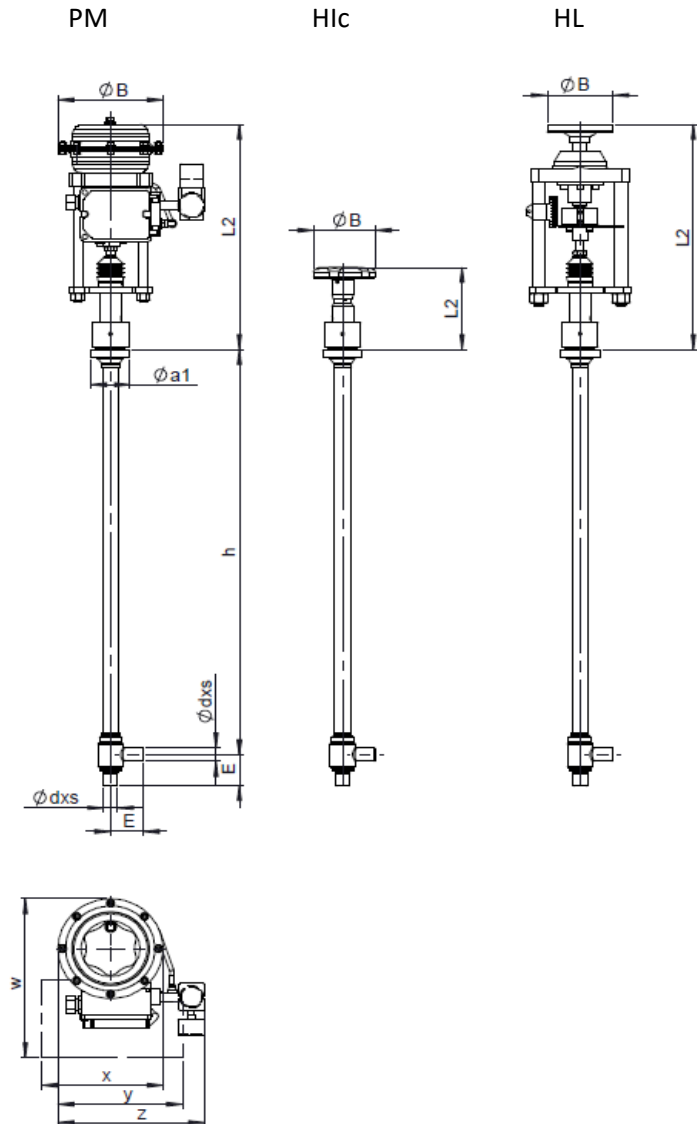
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	-
ØB [mm]:	162				60	-
L2 (valve with open manual actuator) [mm]:	368				140	-
Total weight of actuator unit [kg]:	5.8				0.5	-
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-

Maximum dimensions with SIEMENS or SAMSON positioner

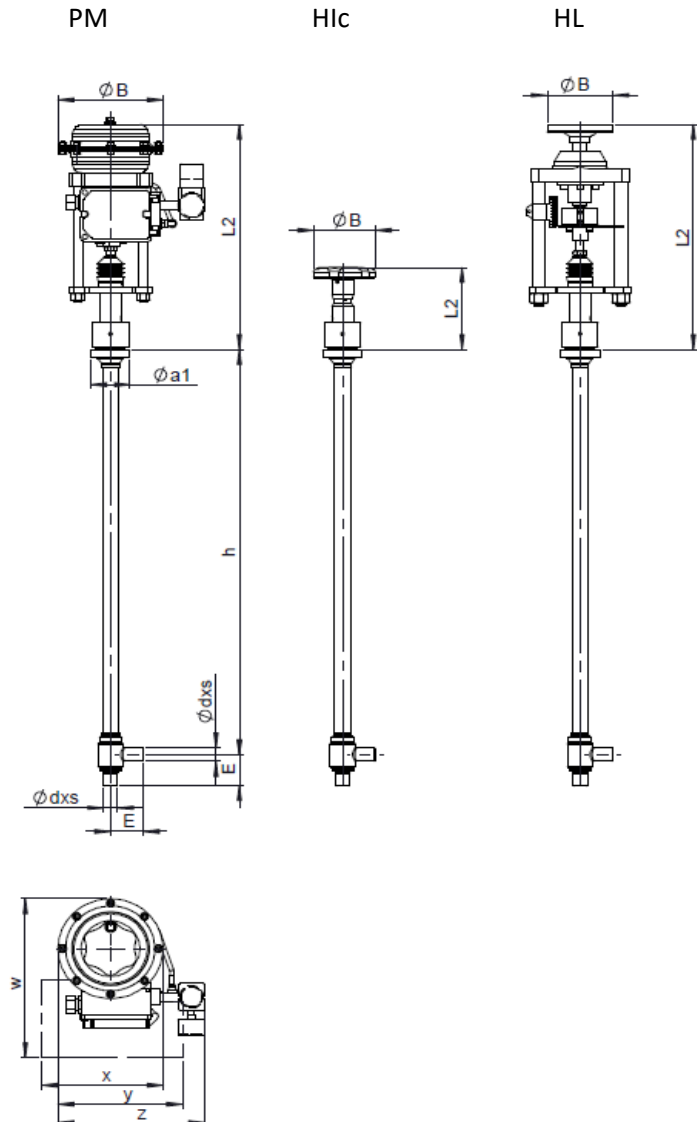
w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN10		
Nominal DN:		DN10 (3/8")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.017 (0.020)				
Kv max (Cv max) as control valve:		2.80 (3.25)				
Kv max (Cv max) as Shut/Off-valve:		3.00 (3.48)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		60				
Butt weld end, ødxs [mm]:		17.2x1.6				
Connection dimension E [mm]:		40				
Standard cryogenic length h [mm]:		650				
Minimum cryogenic length h [mm]:		150				
Heat load 300 to 4.2K @ indicated length h [W]:		< 0.50				
Valve weight (without attached parts) [kg]:		2.6				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	162				60	80
L2 (valve with open manual actuator) [mm]:	368				140	372
Total weight of actuator unit [kg]:	5.8				0.5	5.7
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255				-	-
x [mm]:	185				-	-
y [mm]:	190				-	-
z [mm]:	255				-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN15		
Nominal DN:		DN15 (1/2")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.028 (0.032)				
Kv max (Cv max) as control valve:		5.80 (6.73)				
Kv max (Cv max) as Shut/Off-valve:		6.00 (6.96)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		60				
Butt weld end, ødxs [mm]:		21.3x2.0				
Connection dimension E [mm]:		50				
Standard cryogenic length h [mm]:		650				
Minimum cryogenic length h [mm]:		100				
Heat load 300 to 4.2K @ indicated length h [W]:		< 0.63				
Valve weight (without attached parts) [kg]:		2.8				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	162				100	100
L2 (valve with open manual actuator) [mm]:	368				142	372
Total weight of actuator unit [kg]:	5.8				0.7	5.7
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255				-	-
x [mm]:	185				-	-
y [mm]:	190				-	-
z [mm]:	255				-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with reduced seat bore and
pneumatic or manual actuator**

Valve size
DN15-10

Nominal DN:	DN15 (1/2")
Nominal pressure:	PN25
Design temperature:	-270°C to +50°C
Kv min (Cv min):	0.017 (0.020)
Kv max (Cv max) as control valve:	2.80 (3.25)
Kv max (Cv max) as Shut/Off-valve:	3.00 (3.48)

Dimension performance:

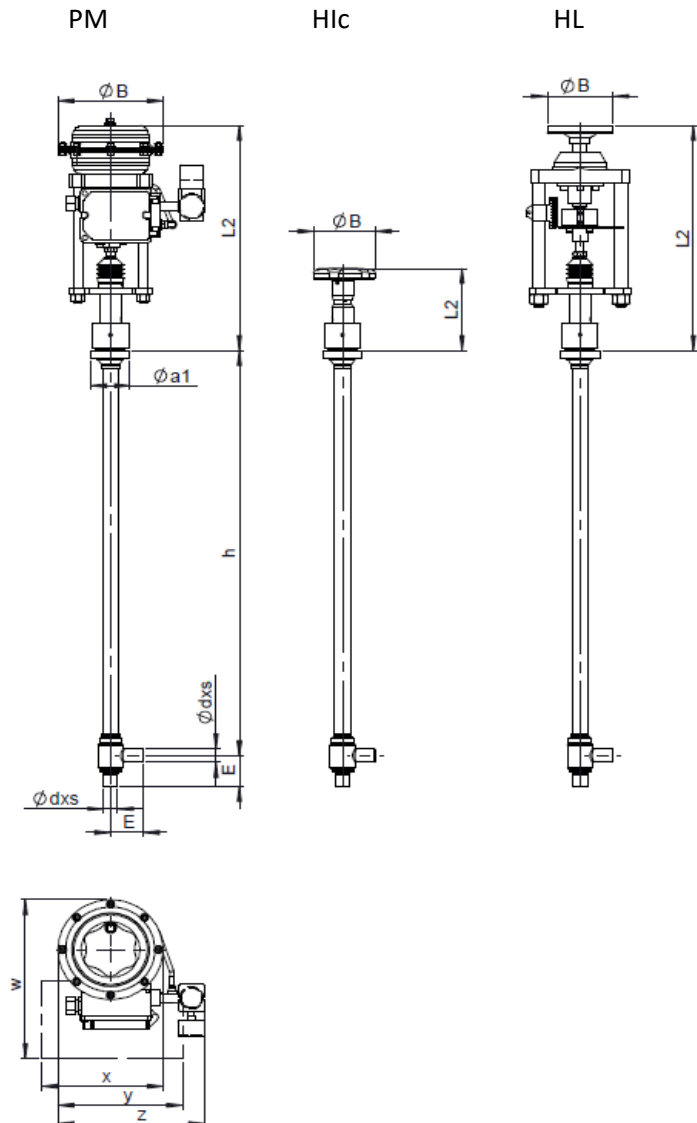
Vacuum weld in flange Øa1 [mm]:	60
Butt weld end, Ødxs [mm]:	21.3x2.0
Connection dimension E [mm]:	50
Standard cryogenic length h [mm]:	650
Minimum cryogenic length h [mm]:	100
Heat load 300 to 4.2K @ indicated length h [W]:	< 0.63
Valve weight (without attached parts) [kg]:	2.8

Actuator:

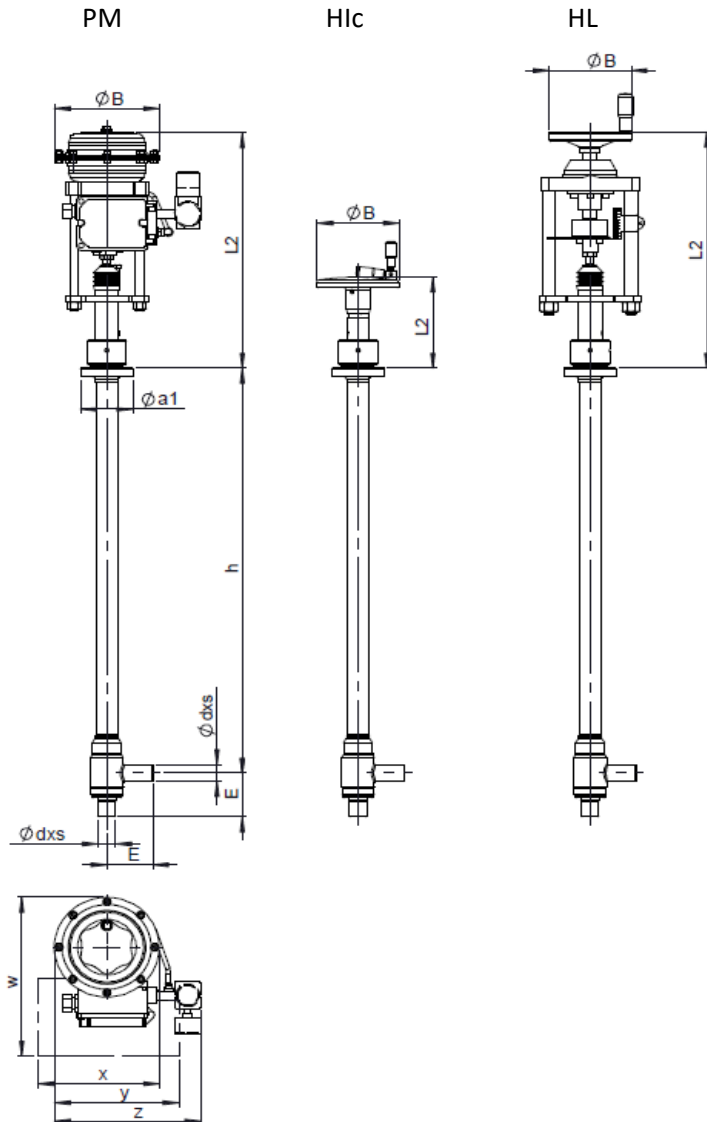
	PM - Po		PM - Ps		H1c	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
ØB [mm]:	162				100	100
L2 (valve with open manual actuator) [mm]:	368				142	372
Total weight of actuator unit [kg]:	5.8				0.7	5.7
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-

Maximum dimensions with SIEMENS or SAMSON positioner

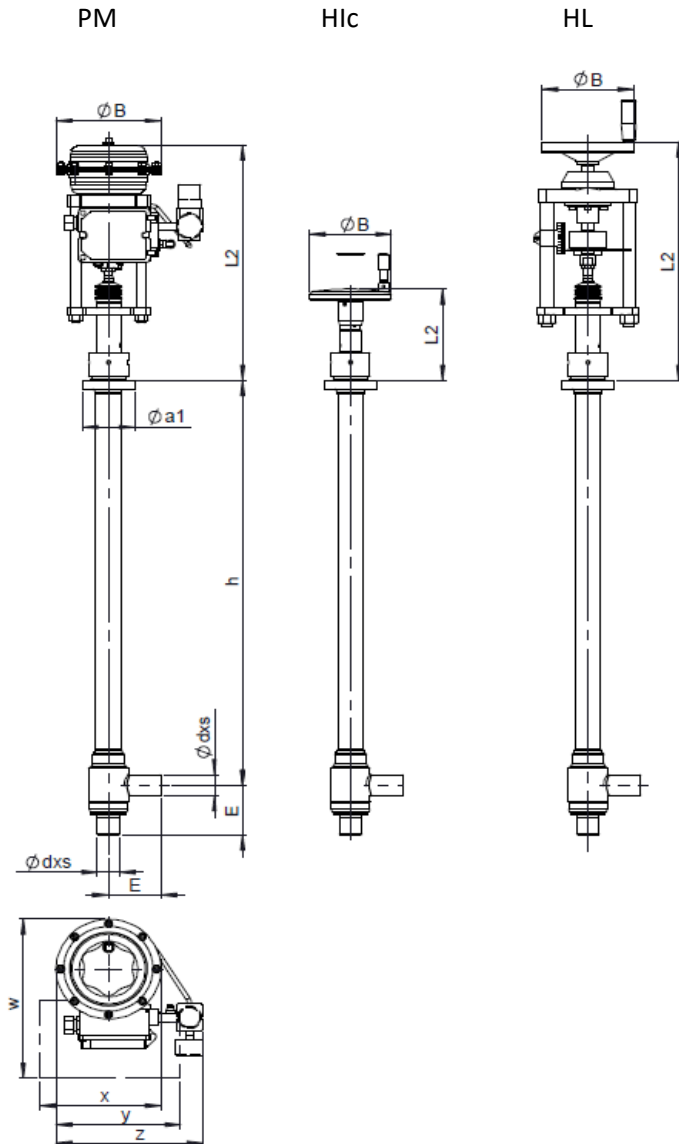
w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with reduced seat bore and
pneumatic or manual actuator**


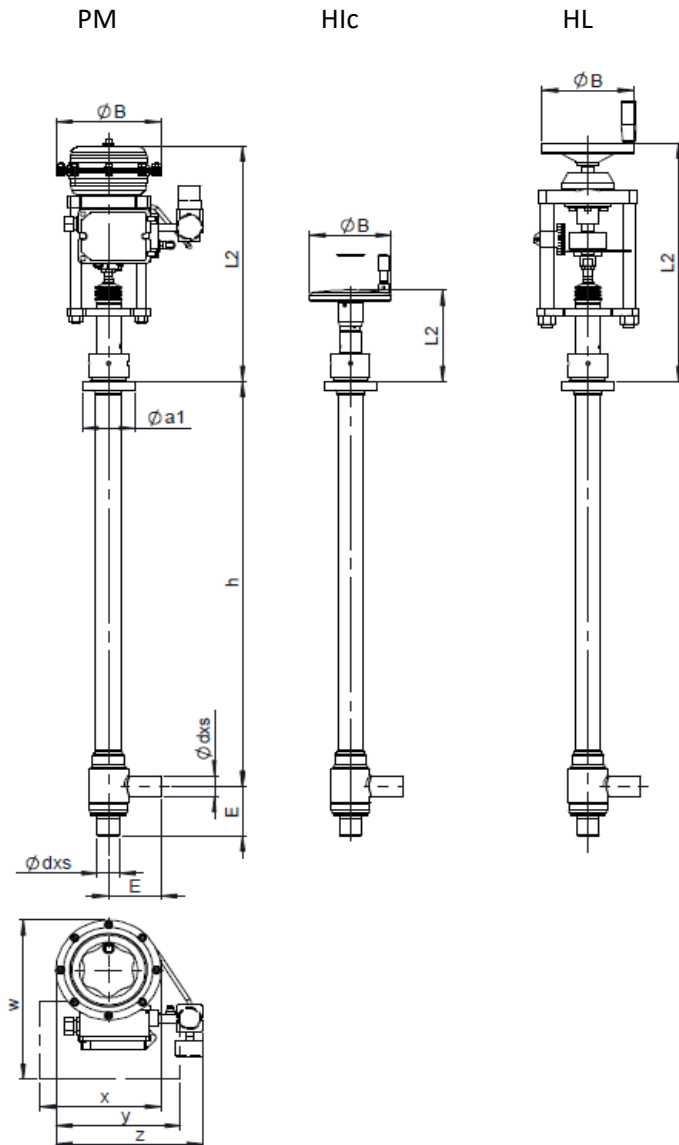
Valve size				DN15-6		
Nominal DN:		DN15 (1/2")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.010 (0.012)				
Kv max (Cv max) as control valve:		1.10 (1.28)				
Kv max (Cv max) as Shut/Off-valve:		1.20 (1.39)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		60				
Butt weld end, ødxs [mm]:		21.3x2.0				
Connection dimension E [mm]:		50				
Standard cryogenic length h [mm]:		650				
Minimum cryogenic length h [mm]:		100				
Heat load 300 to 4.2K @ indicated length h [W]:		< 0.63				
Valve weight (without attached parts) [kg]:		2.8				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	162				100	100
L2 (valve with open manual actuator) [mm]:	368				142	372
Total weight of actuator unit [kg]:	5.8				0.7	5.7
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255				-	-
x [mm]:	185				-	-
y [mm]:	190				-	-
z [mm]:	255				-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN20		
Nominal DN:		DN20 (3/4")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.049 (0.057)				
Kv max (Cv max) as control valve:		11.0 (12.8)				
Kv max (Cv max) as Shut/Off-valve:		12.0 (13.9)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		80				
Butt weld end, ødxs [mm]:		26.9x2.0				
Connection dimension E [mm]:		70				
Standard cryogenic length h [mm]:		650				
Minimum cryogenic length h [mm]:		170				
Heat load 300 to 4.2K @ indicated length h [W]:		< 1.06				
Valve weight (without attached parts) [kg]:		4.4				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	162				125	125
L2 (valve with open manual actuator) [mm]:	386				162	396
Total weight of actuator unit [kg]:	5.8				1.2	6.8
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255				-	-
x [mm]:	185				-	-
y [mm]:	190				-	-
z [mm]:	255				-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN25		
Nominal DN:		DN25 (1")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.049 (0.057)				
Kv max (Cv max) as control valve:		14.7 (17.1)				
Kv max (Cv max) as Shut/Off-valve:		15.0 (17.4)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		80				
Butt weld end, ødxs [mm]:		33.7x2.0				
Connection dimension E [mm]:		80				
Standard cryogenic length h [mm]:		650				
Minimum cryogenic length h [mm]:		170				
Heat load 300 to 4.2K @ indicated length h [W]:		< 1.38				
Valve weight (without attached parts) [kg]:		5.3				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	162	210	162		125	140
L2 (valve with open manual actuator) [mm]:	384	459	384		162	399
Total weight of actuator unit [kg]:	5.8	9.6	5.8		1.2	6.3
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27	0.65	0.27		-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255				-	-
x [mm]:	185				-	-
y [mm]:	190				-	-
z [mm]:	255				-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with reduced seat bore and
pneumatic or manual actuator**

Valve size
DN25-15

Nominal DN:	DN25 (1")
Nominal pressure:	PN25
Design temperature:	-270°C to +50°C
Kv min (Cv min):	0.028 (0.032)
Kv max (Cv max) as control valve:	5.80 (6.73)
Kv max (Cv max) as Shut/Off-valve:	6.00 (6.96)

Dimension performance:

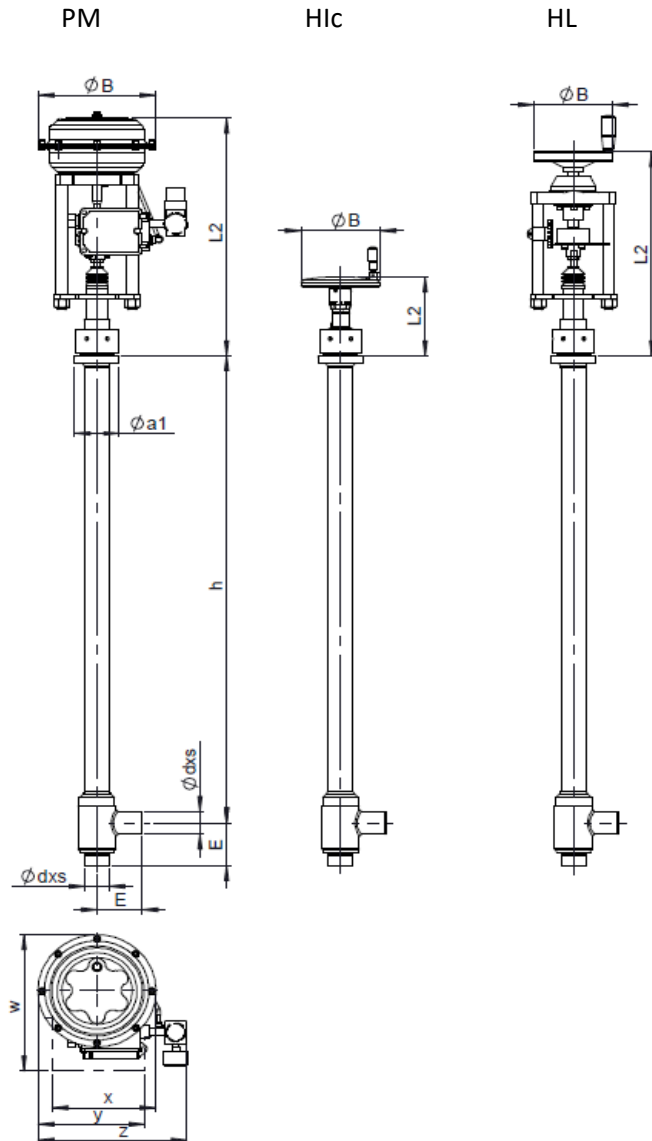
Vacuum weld in flange øa1 [mm]:	80
Butt weld end, ødxs [mm]:	33.7x2.0
Connection dimension E [mm]:	80
Standard cryogenic length h [mm]:	650
Minimum cryogenic length h [mm]:	170
Heat load 300 to 4.2K @ indicated length h [W]:	< 1.38
Valve weight (without attached parts) [kg]:	5.3

Actuator:

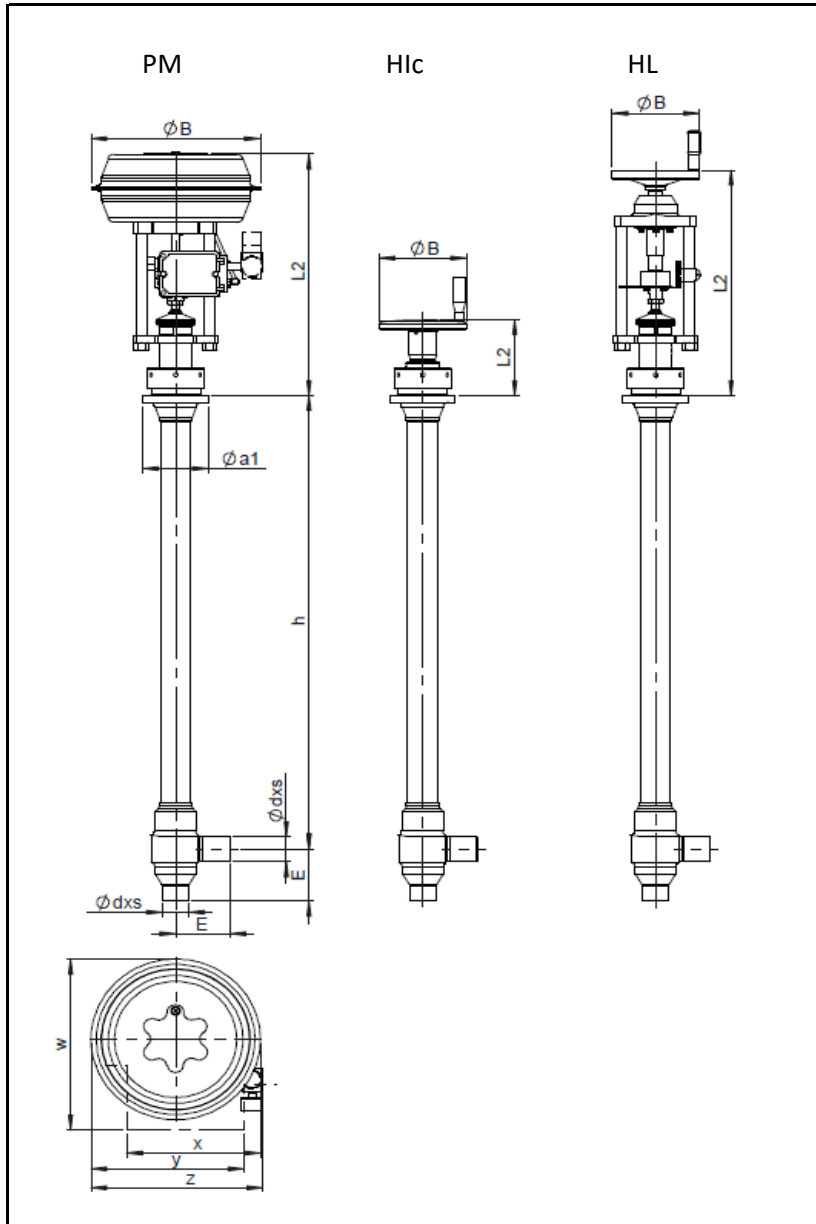
	PM - Po		PM - Ps		H1c	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
ØB [mm]:	162	210	162		125	140
L2 (valve with open manual actuator) [mm]:	384	459	384		162	399
Total weight of actuator unit [kg]:	5.8	9.6	5.8		1.2	6.3
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27	0.65	0.27		-	-

Maximum dimensions with SIEMENS or SAMSON positioner

w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


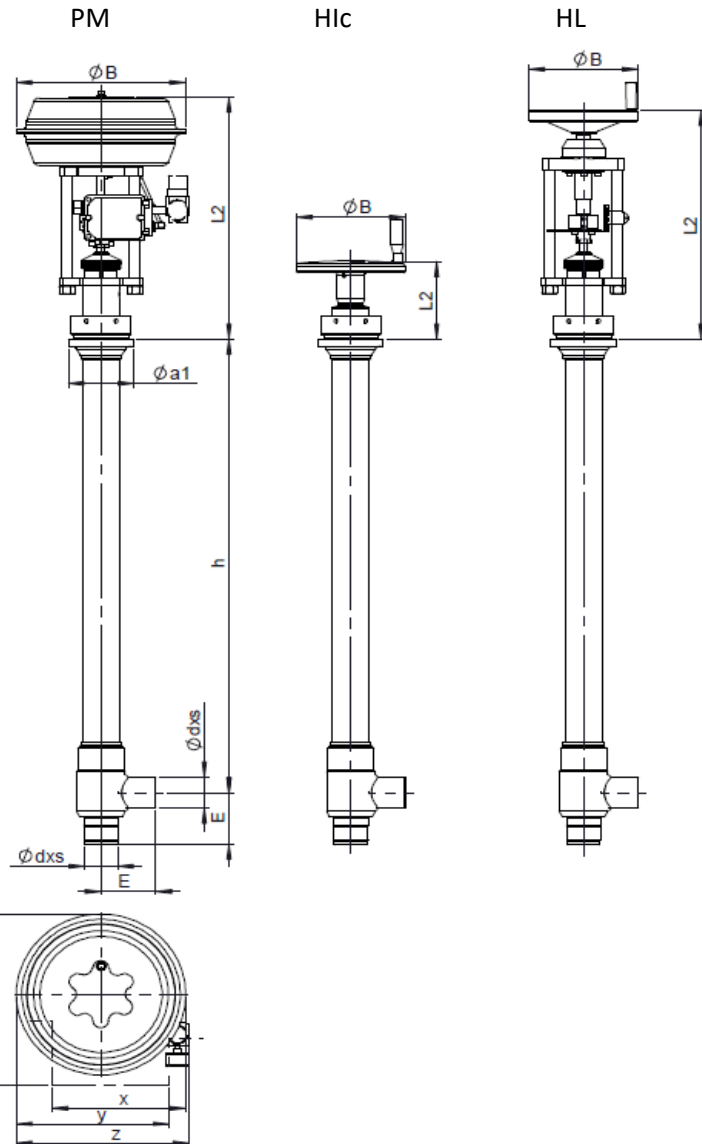
Valve size				DN32		
Nominal DN:		DN32 (1 1/4")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.073 (0.085)				
Kv max (Cv max) as control valve:		23.0 (26.7)				
Kv max (Cv max) as Shut/Off-valve:		23.5 (27.3)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		80				
Butt weld end, ødxs [mm]:		42.4x2.0				
Connection dimension E [mm]:		80				
Standard cryogenic length h [mm]:		875				
Minimum cryogenic length h [mm]:		170				
Heat load 300 to 4.2K @ indicated length h [W]:		< 1.26				
Valve weight (without attached parts) [kg]:		7.5				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	210		160	210	140	140
L2 (valve with open manual actuator) [mm]:	459		384	459	163	399
Total weight of actuator unit [kg]:	9.6		5.8	9.6	1.4	6.3
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.65		0.27	0.65	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255	280	255		-	-
x [mm]:	185	195	185		-	-
y [mm]:	190	230	190		-	-
z [mm]:	255	295	255		-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


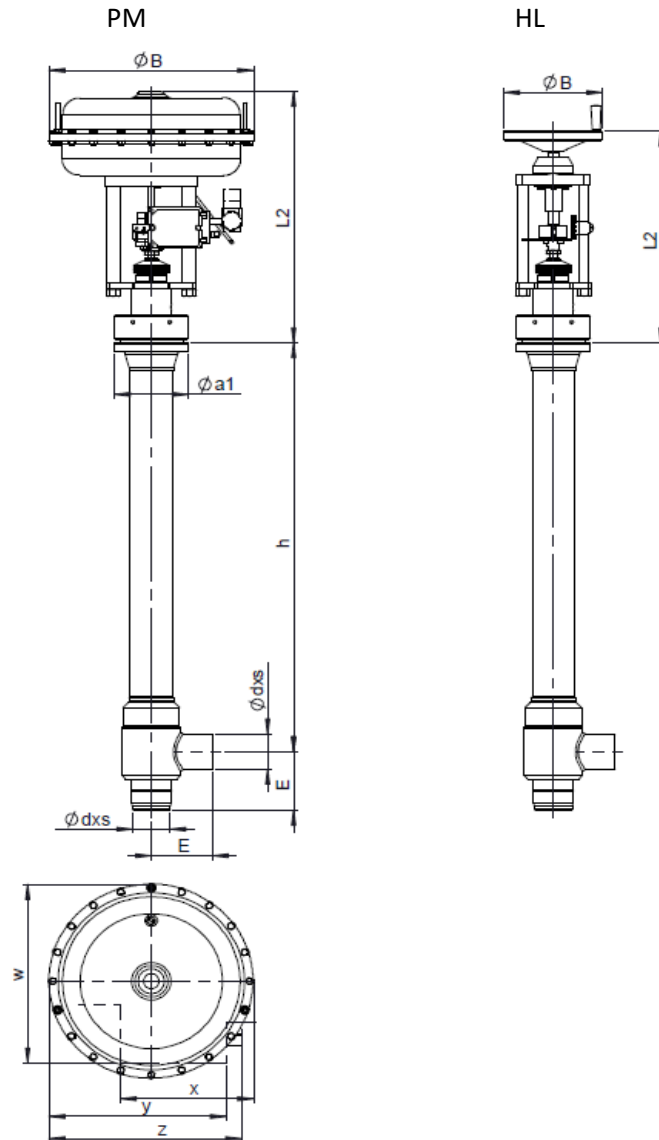
Valve size				DN40		
Nominal DN:		DN40 (1 1/2")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.13 (0.15)				
Kv max (Cv max) as control valve:		49.0 (56.8)				
Kv max (Cv max) as Shut/Off-valve:		50.0 (58.0)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		120				
Butt weld end, ødxs [mm]:		48.3x2.0				
Connection dimension E [mm]:		100				
Standard cryogenic length h [mm]:		875				
Minimum cryogenic length h [mm]:		300				
Heat load 300 to 4.2K @ indicated length h [W]:		< 2.42				
Valve weight (without attached parts) [kg]:		16.6				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	310		210	310	160	160
L2 (valve with open manual actuator) [mm]:	489		469	489	178	467
Total weight of actuator unit [kg]:	20.0		10.0	20.0	3.3	8.8
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	2.2		1.2	2.2	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	280	330	280	330	-	-
x [mm]:	195	245	195	245	-	-
y [mm]:	230	280	230	280	-	-
z [mm]:	295	345	295	345	-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219

Standard bellow sealed cryogenic valves PN25 with pneumatic or manual actuator



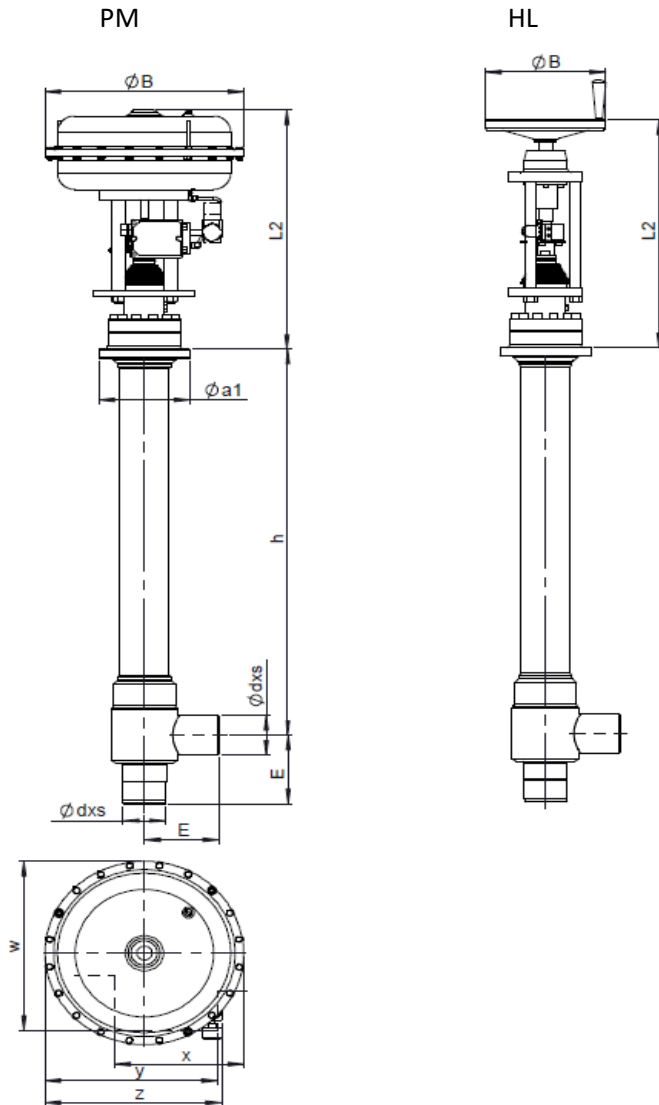
Valve size				DN50		
Nominal DN:		DN50 (2")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.15 (0.17)				
Kv max (Cv max) as control valve:		71.0 (82.4)				
Kv max (Cv max) as Shut/Off-valve:		75.0 (87.0)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		120				
Butt weld end, ødxs [mm]:		60.3x2.0				
Connection dimension E [mm]:		100				
Standard cryogenic length h [mm]:		875				
Minimum cryogenic length h [mm]:		300				
Heat load 300 to 4.2K @ indicated length h [W]:		< 2.96				
Valve weight (without attached parts) [kg]:		18.1				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	310		210	310	200	200
L2 (valve with open manual actuator) [mm]:	489		469	489	182	472
Total weight of actuator unit [kg]:	20.0		10.0	20.0	4.4	8.5
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	2.2		1.2	2.2	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	330	330	280	330	-	-
x [mm]:	245	245	195	245	-	-
y [mm]:	280	280	230	280	-	-
z [mm]:	345	345	295	345	-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


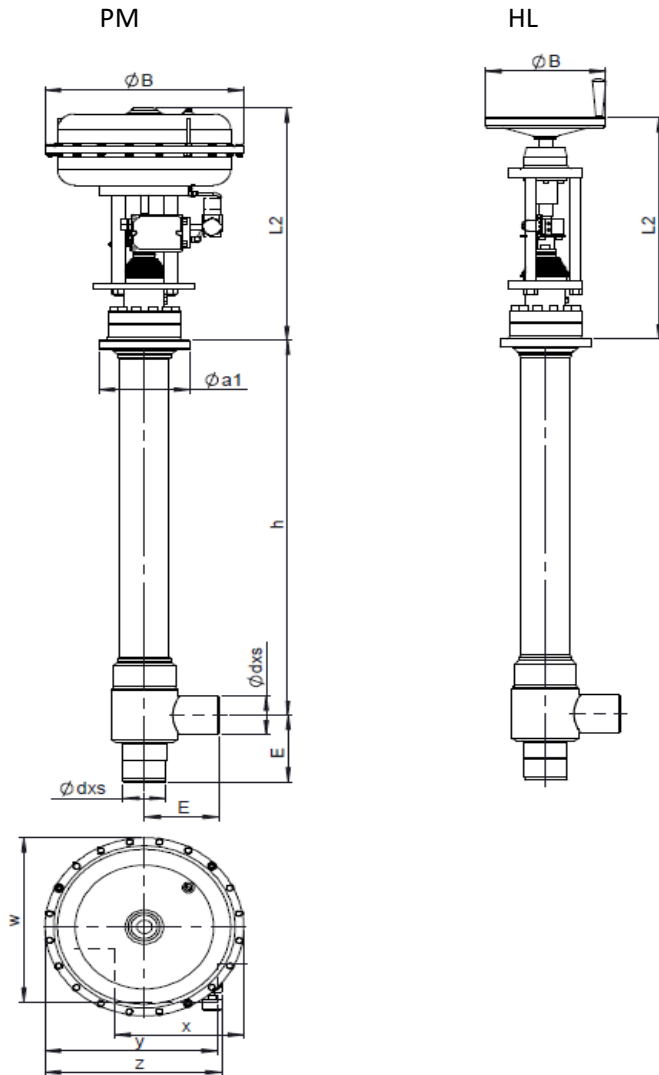
Valve size				DN65		
Nominal DN:		DN65 (2 1/2")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.18 (0.21)				
Kv max (Cv max) as control valve:		98 (114)				
Kv max (Cv max) as Shut/Off-valve:		100 (116)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		150				
Butt weld end, ødxs [mm]:		76.1x2.0				
Connection dimension E [mm]:		125				
Standard cryogenic length h [mm]:		875				
Minimum cryogenic length h [mm]:		300				
Heat load 300 to 4.2K @ indicated length h [W]:		< 4.59				
Valve weight (without attached parts) [kg]:		34				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	310	415	310	415	200	200
L2 (valve with open manual actuator) [mm]:	502	563	502	563	187	486
Total weight of actuator unit [kg]:	20	60	20	60	5.5	8.5
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	2.2	4.8	2.2	4.8	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	330	310	330	310	-	-
x [mm]:	245	270	245	270	-	-
y [mm]:	280	360	280	360	-	-
z [mm]:	345	425	345	425	-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219

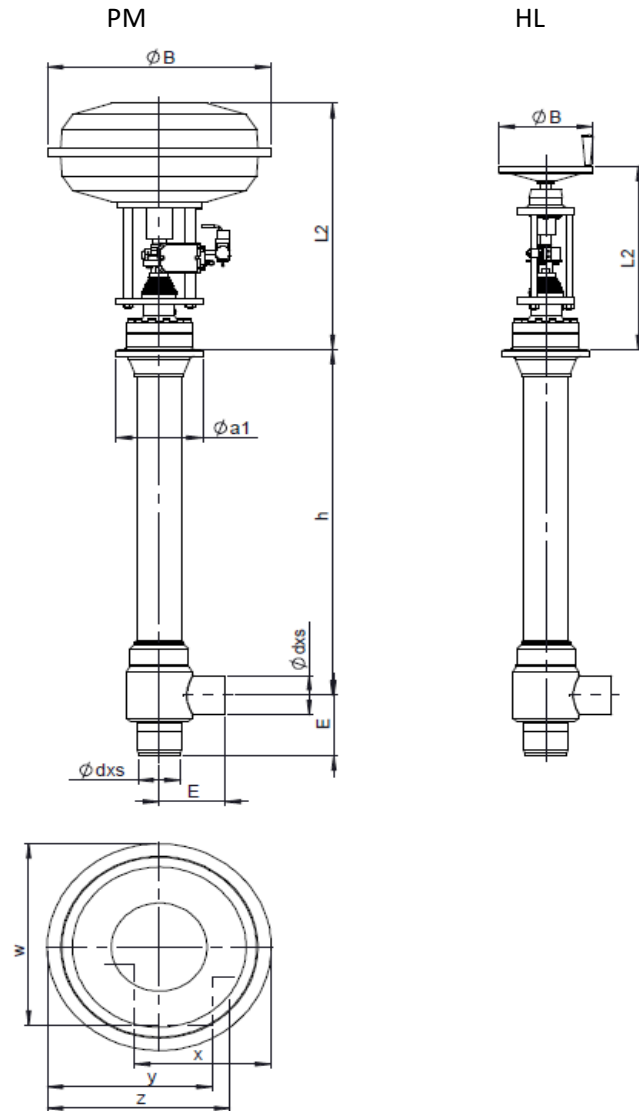
Standard bellow sealed cryogenic valves PN25 with pneumatic or manual actuator



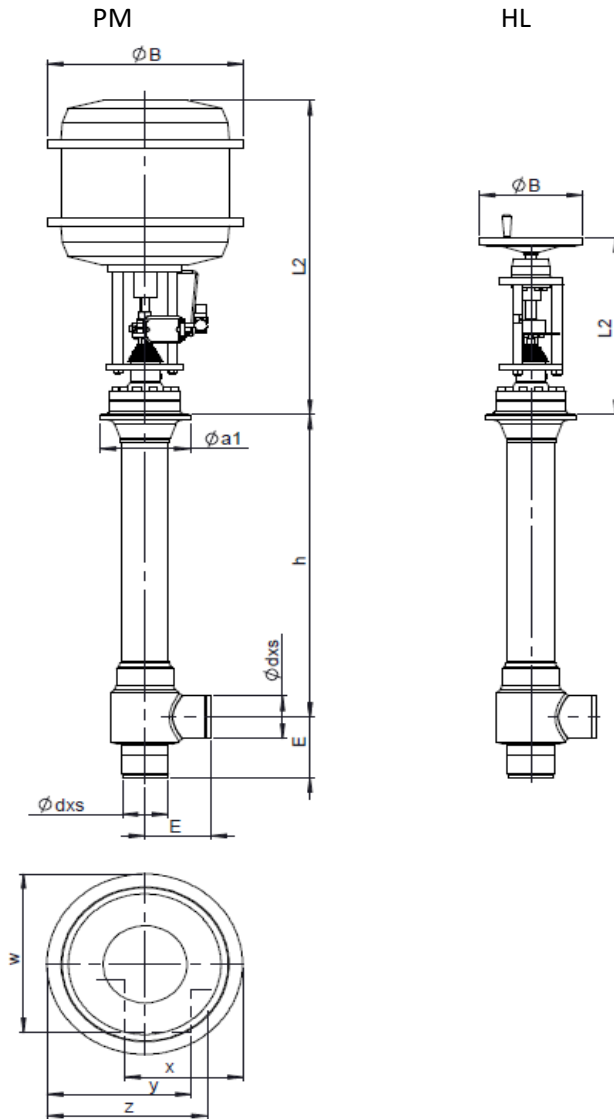
Valve size				DN80		
Nominal DN:		DN80 (3")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.25 (0.29)				
Kv max (Cv max) as control valve:		160 (186)				
Kv max (Cv max) as Shut/Off-valve:		170 (197)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		190				
Butt weld end, ødxs [mm]:		88.9x2.6				
Connection dimension E [mm]:		155				
Standard cryogenic length h [mm]:		875				
Minimum cryogenic length h [mm]:		500				
Heat load 300 to 4.2K @ indicated length h [W]:		< 7.32				
Valve weight (without attached parts) [kg]:		47				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	-	25
øB [mm]:	415		310	415	-	250
L2 (valve with open manual actuator) [mm]:	566		505	566	-	552
Total weight of actuator unit [kg]:	65		20	65	-	21
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	4.8		2.2	4.8	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	330	435	330	435	-	-
x [mm]:	245	300	245	300	-	-
y [mm]:	280	335	280	335	-	-
z [mm]:	345	400	345	400	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


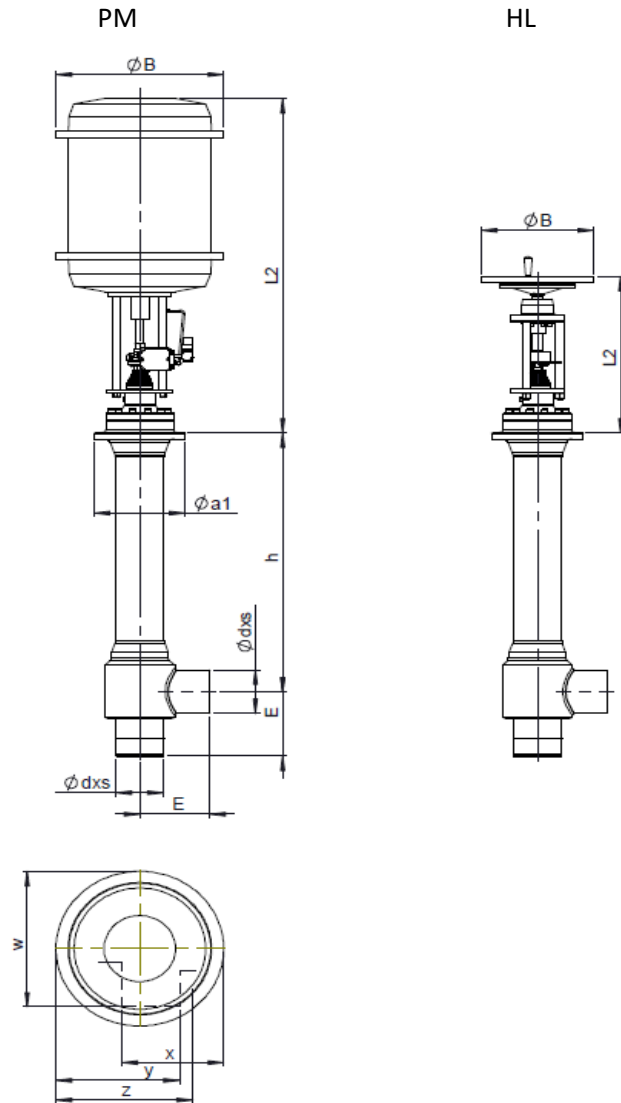
Valve size			DN80 / PN40 version			
Nominal DN:		DN80 (3")				
Nominal pressure:		PN40				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.25 (0.29)				
Kv max (Cv max) as control valve:		160 (186)				
Kv max (Cv max) as Shut/Off-valve:		170 (197)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		190				
Butt weld end, ødxs [mm]:		88.9x2.6				
Connection dimension E [mm]:		155				
Standard cryogenic length h [mm]:		875				
Minimum cryogenic length h [mm]:		700				
Heat load 300 to 4.2K @ indicated length h [W]:		< 11.08				
Valve weight (without attached parts) [kg]:		61				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	32	40	32	40	-	40
øB [mm]:	415	415	415	415	-	250
L2 (valve with open manual actuator) [mm]:	599	806	599	806	-	552
Total weight of actuator unit [kg]:	65	120	65	120	-	21
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	4.8	9.6	4.8	9.6	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	330	435	330	435	-	-
x [mm]:	245	300	245	300	-	-
y [mm]:	280	335	280	335	-	-
z [mm]:	345	400	345	400	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN100		
Nominal DN:		DN100 (4")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.36 (0.42)				
Kv max (Cv max) as control valve:		250 (290)				
Kv max (Cv max) as Shut/Off-valve:		260 (302)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		230				
Butt weld end, ødxs [mm]:		114.3x2.6				
Connection dimension E [mm]:		175				
Standard cryogenic length h [mm]:		1000				
Minimum cryogenic length h [mm]:		600				
Heat load 300 to 4.2K @ indicated length h [W]:		< 7.47				
Valve weight (without attached parts) [kg]:		73				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	-	25
øB [mm]:	415	415	415	415	-	250
L2 (valve with open manual actuator) [mm]:	624	890	624	890	-	581
Total weight of actuator unit [kg]:	73	139	73	139	-	21
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	7.3	14.6	7.3	14.6	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	435	525	435	525	-	-
x [mm]:	300	365	300	365	-	-
y [mm]:	335	440	335	440	-	-
z [mm]:	400	520	400	520	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


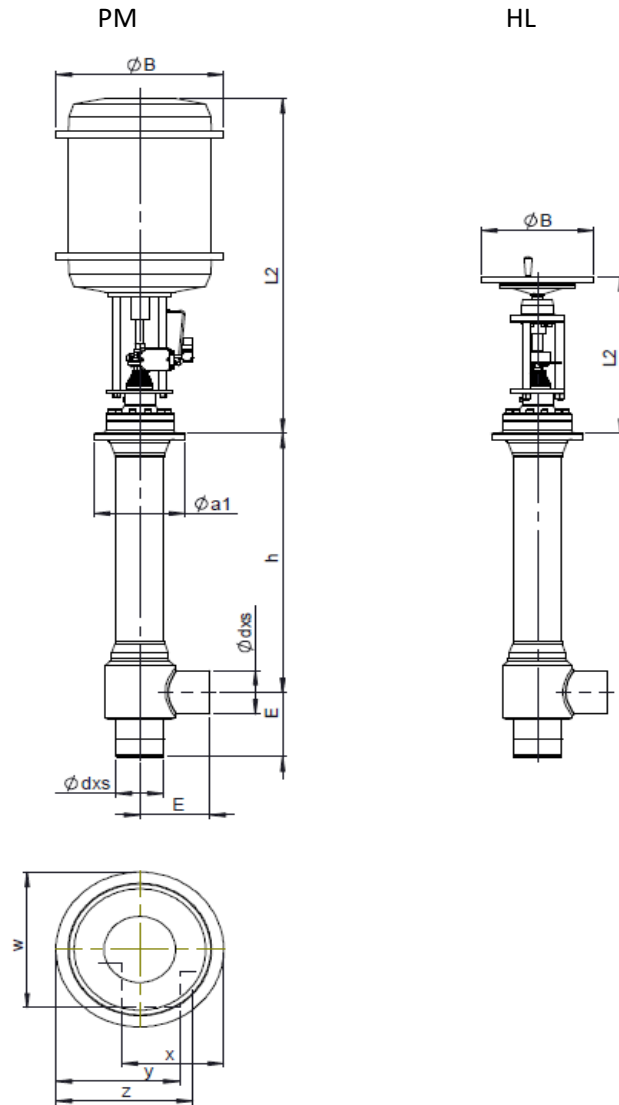
Valve size				DN125		
Nominal DN:		DN125 (5")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.45 (0.52)				
Kv max (Cv max) as control valve:		370 (429)				
Kv max (Cv max) as Shut/Off-valve:		390 (452)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		275				
Butt weld end, ødxs [mm]:		139.7x2.6				
Connection dimension E [mm]:		200				
Standard cryogenic length h [mm]:		1000				
Minimum cryogenic length h [mm]:		750				
Heat load 300 to 4.2K @ indicated length h [W]:		< 9.26				
Valve weight (without attached parts) [kg]:		105				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	-	25
øB [mm]:	415	415	415	415	-	315
L2 (valve with open manual actuator) [mm]:	790	1123	790	1123	-	646
Total weight of actuator unit [kg]:	93	177	93	177	-	37
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	9.8	19.6	9.8	19.6	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	435	525	435	525	-	-
x [mm]:	300	365	300	365	-	-
y [mm]:	335	440	335	440	-	-
z [mm]:	400	520	400	520	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN150		
Nominal DN:		DN150 (6")				
Nominal pressure:		PN25				
Design temperature:		-270°C to +50°C				
Kv min (Cv min):		0.66 (0.77)				
Kv max (Cv max) as control valve:		550 (638)				
Kv max (Cv max) as Shut/Off-valve:		600 (696)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		325				
Butt weld end, ødxs [mm]:		168.3x2.6				
Connection dimension E [mm]:		250				
Standard cryogenic length h [mm]:		1000				
Minimum cryogenic length h [mm]:		750				
Heat load 300 to 4.2K @ indicated length h [W]:		< 12.51				
Valve weight (without attached parts) [kg]:		146				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	-	25
øB [mm]:	415	600	415	600	-	400
L2 (valve with open manual actuator) [mm]:	1127	1419	1127	1419	-	670
Total weight of actuator unit [kg]:	177	501	177	501	-	39
Supply air:	max. 6.0 bar, R1/4"	max. 6.0 bar, R3/4"	max. 6.0 bar, R1/4"	max. 6.0 bar, R3/4"	-	-
Actuator volume by full travel [L]:	19.6	56.0	19.6	56.0	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	525	525	525	525	-	-
x [mm]:	365	365	365	365	-	-
y [mm]:	440	440	440	440	-	-
z [mm]:	520	520	520	520	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219

Standard bellow sealed cryogenic valves PN25 with pneumatic or manual actuator



Valve size

DN150 / PN6 version

Nominal DN:	DN150 (6")
Nominal pressure:	PN6
Design temperature:	-270°C to +50°C
Kv min (Cv min):	0.66 (0.77)
Kv max (Cv max) as control valve:	550 (638)
Kv max (Cv max) as Shut/Off-valve:	600 (696)

Dimension performance:

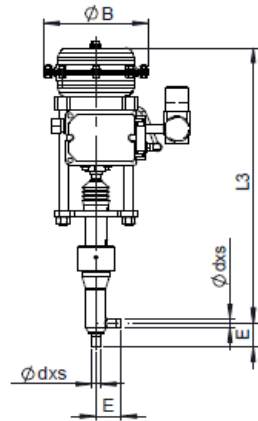
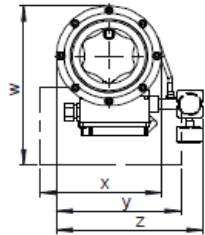
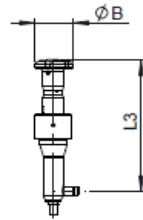
Vacuum weld in flange $\phi a1$ [mm]:	325
Butt weld end, ϕdxs [mm]:	168.3x2.6
Connection dimension E [mm]:	250
Standard cryogenic length h [mm]:	1000
Minimum cryogenic length h [mm]:	750
Heat load 300 to 4.2K @ indicated length h [W]:	< 9.13
Valve weight (without attached parts) [kg]:	136

Actuator:

	PM - Po	PM - Ps	HLc	HL
Valve shut-off pressure [$\leq$ bar]:	6	6	-	6
ϕB [mm]:	415	415	-	400
L2 (valve with open manual actuator) [mm]:	804	804	-	670
Total weight of actuator unit [kg]:	93	93	-	39
Supply air:	max. 6.0 bar, R1/4"		-	-
Actuator volume by full travel [L]:	9.8	9.8	-	-

Maximum dimensions with SIEMENS or SAMSON positioner

w [mm]:	525	525	525	525	-	-
x [mm]:	365	365	365	365	-	-
y [mm]:	440	440	440	440	-	-
z [mm]:	520	520	520	520	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**
PM

HLc

Valve size
DN2

Nominal DN:	DN2
Nominal pressure:	PN25
Design temperature:	-30°C to +50°C
Kv min (Cv min):	0.0018 (0.0021)
Kv max (Cv max) as control valve:	0.100 (0.116)
Kv max (Cv max) as Shut/Off-valve:	0.100 (0.116)

Dimension performance:

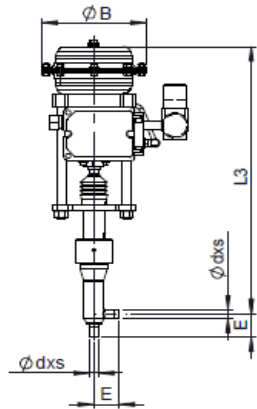
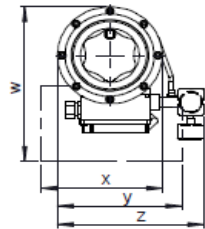
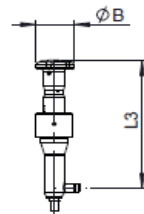
Vacuum weld in flange øa1 [mm]:	-
Butt weld end, ødxs [mm]:	13.0x1.5
Connection dimension E [mm]:	38
Standard cryogenic length h [mm]:	-
Heat load 300 to 4.2K @ indicated length h [W]:	-
Valve weight (without attached parts) [kg]:	1.9

Actuator:

	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	-
ØB [mm]:	162				60	-
L3 (valve with open manual actuator) [mm]:	448				220	-
Total weight of actuator unit [kg]:	5.8				0.5	-
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-

Maximum dimensions with SIEMENS or SAMSON positioner

w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**
PM

HLc

Valve size
DN4

Nominal DN:	DN4
Nominal pressure:	PN25
Design temperature:	-30°C to +50°C
Kv min (Cv min):	0.007 (0.008)
Kv max (Cv max) as control valve:	0.600 (0.696)
Kv max (Cv max) as Shut/Off-valve:	0.600 (0.696)

Dimension performance:

Vacuum weld in flange øa1 [mm]:	-
Butt weld end, ødxs [mm]:	13.0x1.5
Connection dimension E [mm]:	38
Standard cryogenic length h [mm]:	-
Heat load 300 to 4.2K @ indicated length h [W]:	-

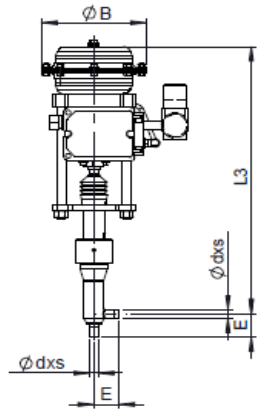
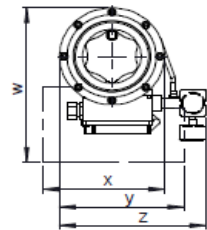
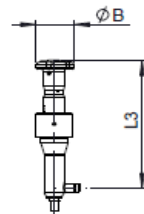
Valve weight (without attached parts) [kg]:	1.9
---	-----

Actuator:

	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	-
ØB [mm]:	162				60	-
L3 (valve with open manual actuator) [mm]:	448				220	-
Total weight of actuator unit [kg]:	5.8				0.5	-
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-

Maximum dimensions with SIEMENS or SAMSON positioner

w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**
PM

HLc

Valve size
DN6

Nominal DN:	DN6 (1/8")
Nominal pressure:	PN25
Design temperature:	-30°C to +50°C
Kv min (Cv min):	0.010 (0.012)
Kv max (Cv max) as control valve:	1.10 (1.28)
Kv max (Cv max) as Shut/Off-valve:	1.20 (1.39)

Dimension performance:

Vacuum weld in flange øa1 [mm]:	-
Butt weld end, ødxs [mm]:	13.0x1.5
Connection dimension E [mm]:	38
Standard cryogenic length h [mm]:	-
Heat load 300 to 4.2K @ indicated length h [W]:	-

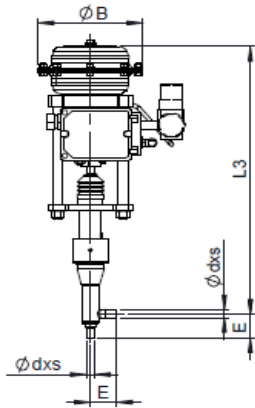
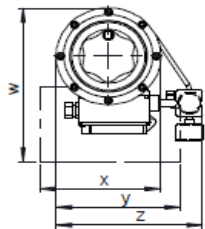
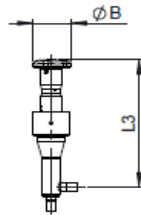
Valve weight (without attached parts) [kg]:	1.9
---	-----

Actuator:

	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	-
ØB [mm]:	160				60	-
L3 (valve with open manual actuator) [mm]:	448				220	-
Total weight of actuator unit [kg]:	5.8				0.5	-
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-

Maximum dimensions with SIEMENS or SAMSON positioner

w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**
PM

HLc

Valve size
DN8

Nominal DN:	DN8 (1/4")
Nominal pressure:	PN25
Design temperature:	-30°C to +50°C
Kv min (Cv min):	0.015 (0.017)
Kv max (Cv max) as control valve:	1.80 (2.09)
Kv max (Cv max) as Shut/Off-valve:	2.10 (2.44)

Dimension performance:

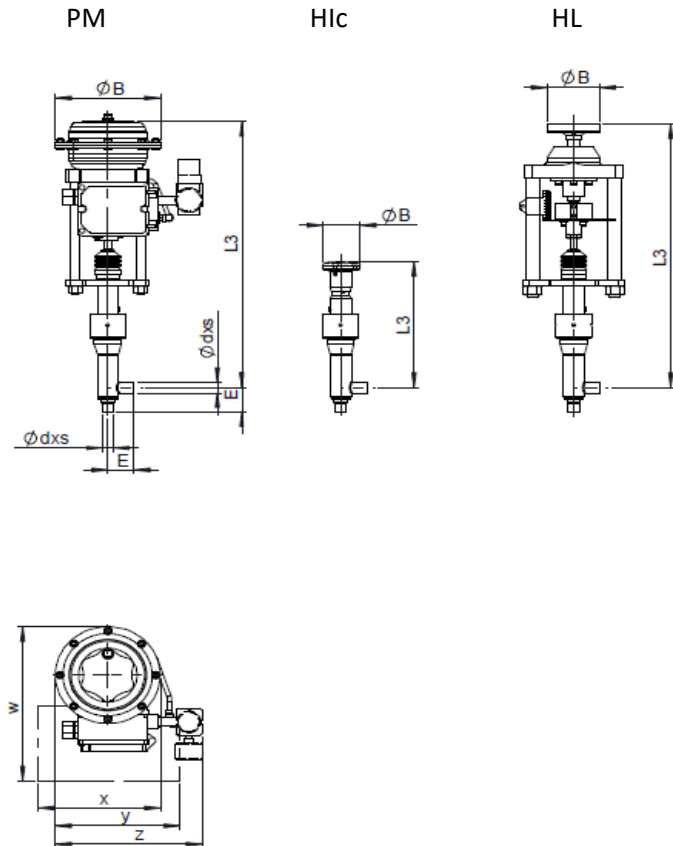
Vacuum weld in flange øa1 [mm]:	-
Butt weld end, ødxs [mm]:	13.0x1.5
Connection dimension E [mm]:	40
Standard cryogenic length h [mm]:	-
Heat load 300 to 4.2K @ indicated length h [W]:	-
Valve weight (without attached parts) [kg]:	1.9

Actuator:

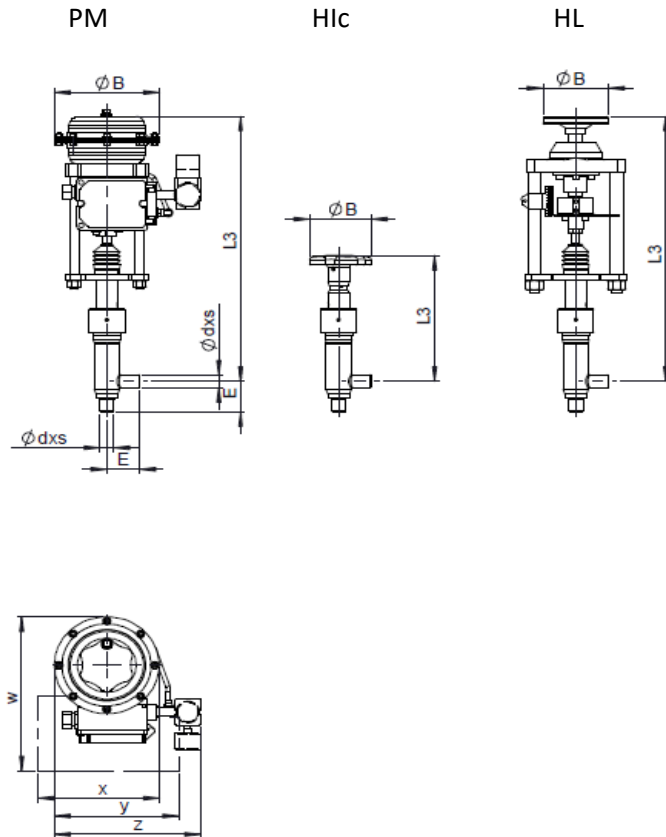
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	-
ØB [mm]:	162				60	-
L3 (valve with open manual actuator) [mm]:	448				220	-
Total weight of actuator unit [kg]:	5.8				0.5	-
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-

Maximum dimensions with SIEMENS or SAMSON positioner

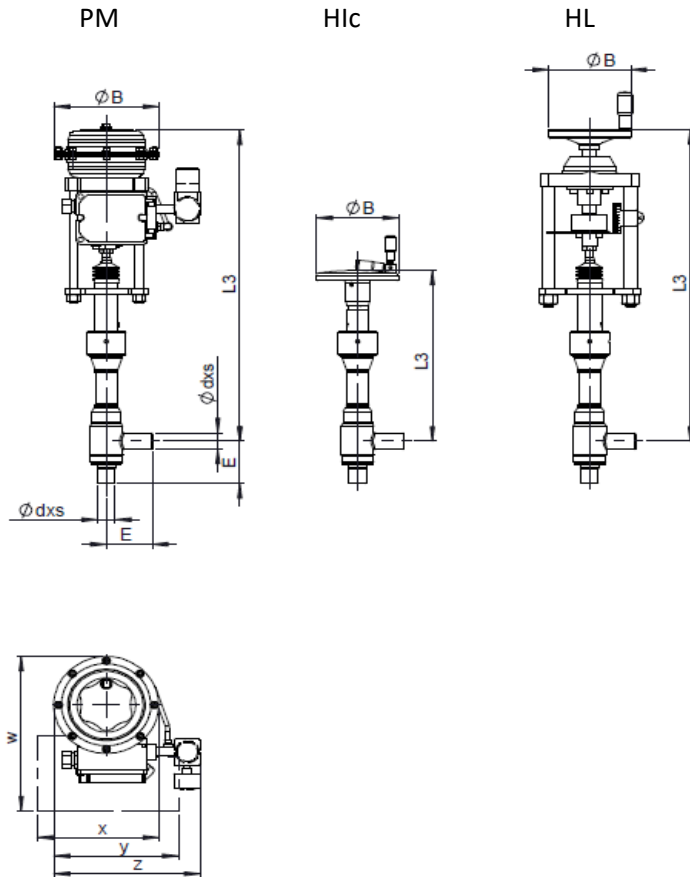
w [mm]:	255	-	-
x [mm]:	185	-	-
y [mm]:	190	-	-
z [mm]:	255	-	-
Additional weight [kg]:	2.5	-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


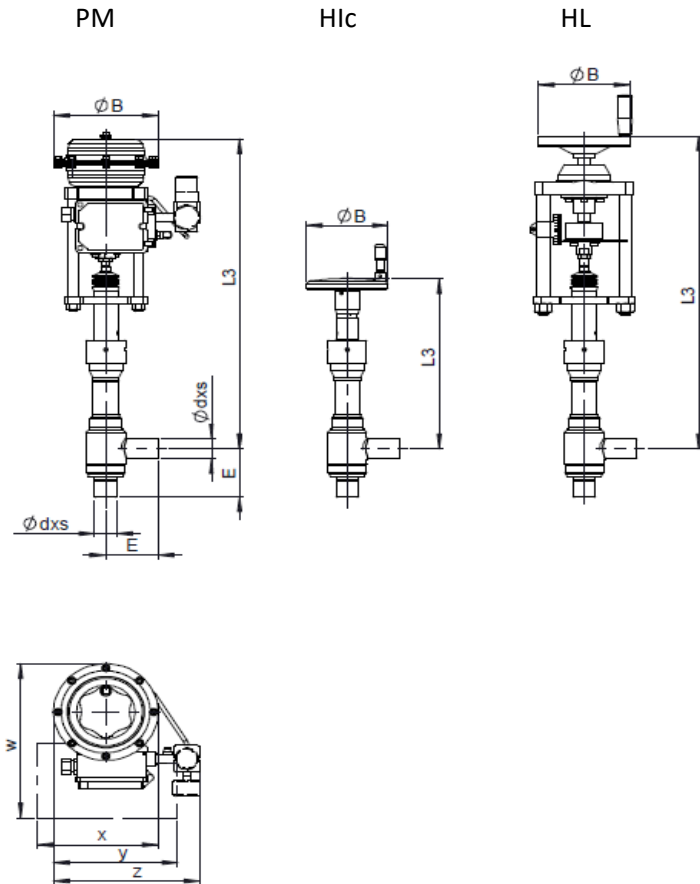
Valve size				DN10		
Nominal DN:		DN10 (3/8")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.017 (0.020)				
Kv max (Cv max) as control valve:		2.80 (3.25)				
Kv max (Cv max) as Shut/Off-valve:		3.00 (3.48)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		17.2x1.6				
Connection dimension E [mm]:		40				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		2.0				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	25
øB [mm]:	162				60	80
L3 (valve with open manual actuator) [mm]:	448				220	452
Total weight of actuator unit [kg]:	5.8				0.5	5.7
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255				-	-
x [mm]:	185				-	-
y [mm]:	190				-	-
z [mm]:	255				-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


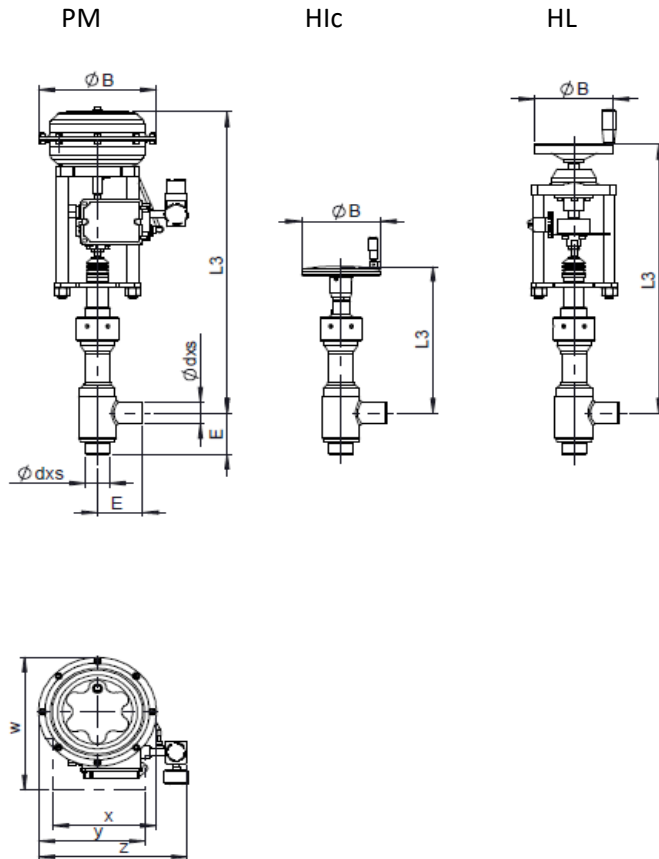
Valve size				DN15		
Nominal DN:		DN15 (1/2")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.028 (0.032)				
Kv max (Cv max) as control valve:		5.80 (6.73)				
Kv max (Cv max) as Shut/Off-valve:		6.00 (6.96)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		21.3x2.0				
Connection dimension E [mm]:		50				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		2.3				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	25
øB [mm]:	162				100	100
L3 (valve with open manual actuator) [mm]:	446				220	450
Total weight of actuator unit [kg]:	5.8				0.7	5.7
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255				-	-
x [mm]:	185				-	-
y [mm]:	190				-	-
z [mm]:	255				-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


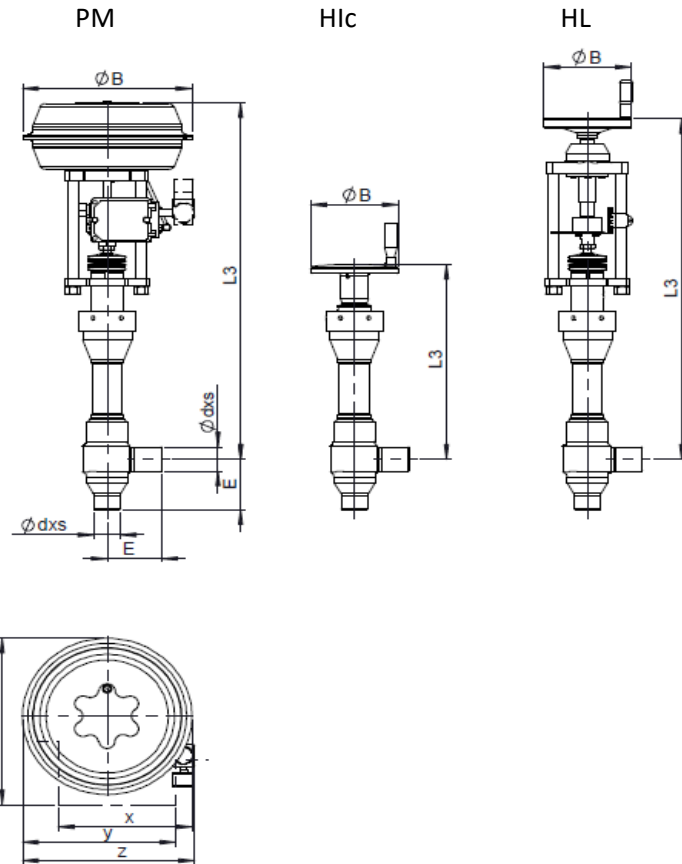
Valve size				DN20		
Nominal DN:		DN20 (3/4")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.049 (0.057)				
Kv max (Cv max) as control valve:		11.0 (12.8)				
Kv max (Cv max) as Shut/Off-valve:		12.0 (13.9)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		26.9x2.0				
Connection dimension E [mm]:		70				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		3.1				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	162				125	125
L3 (valve with open manual actuator) [mm]:	520				296	530
Total weight of actuator unit [kg]:	5.8				1.2	6.8
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27				-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255				-	-
x [mm]:	185				-	-
y [mm]:	190				-	-
z [mm]:	255				-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


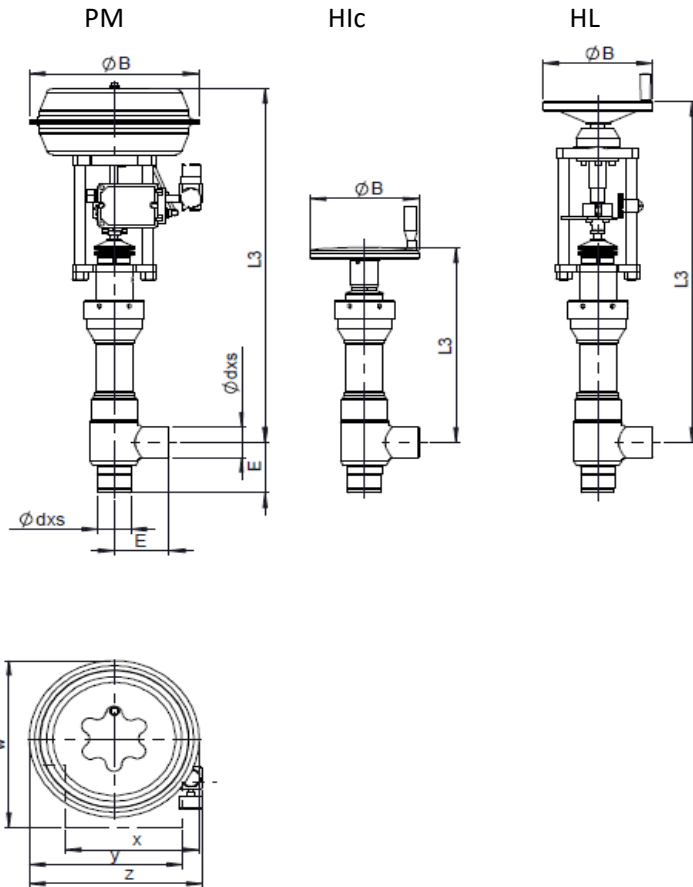
Valve size				DN25		
Nominal DN:		DN25 (1")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.049 (0.057)				
Kv max (Cv max) as control valve:		14.7 (17.1)				
Kv max (Cv max) as Shut/Off-valve:		15.0 (17.4)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		33.7x2.0				
Connection dimension E [mm]:		80				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		3.7				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	162	210	162		125	140
L3 (valve with open manual actuator) [mm]:	519	594	519		297	534
Total weight of actuator unit [kg]:	5.8	9.6	5.8		1.2	6.3
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.27	0.65	0.27		-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255				-	-
x [mm]:	185				-	-
y [mm]:	190				-	-
z [mm]:	255				-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


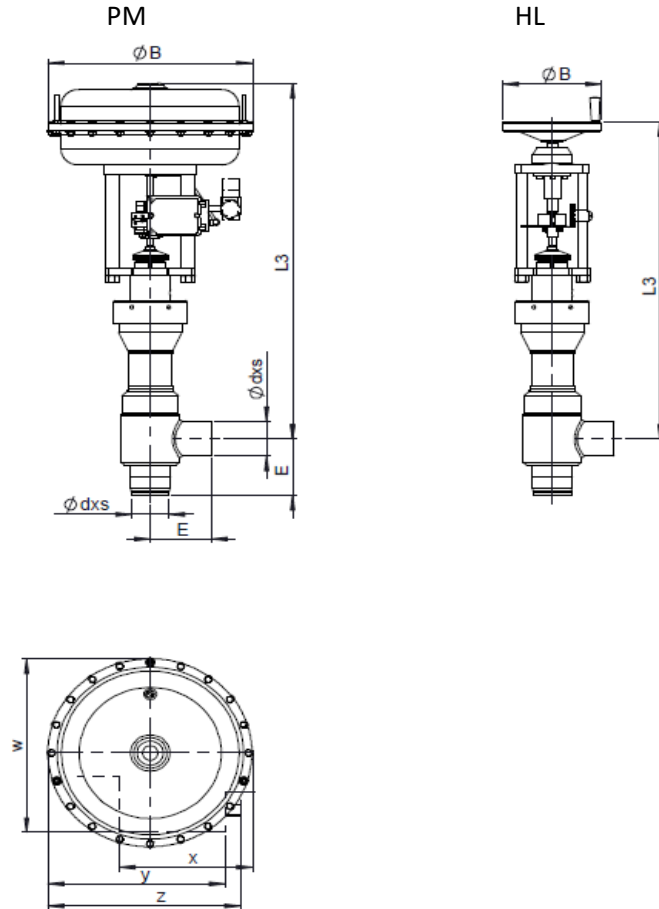
Valve size				DN32		
Nominal DN:		DN32 (1 1/4")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.073 (0.085)				
Kv max (Cv max) as control valve:		23.0 (26.7)				
Kv max (Cv max) as Shut/Off-valve:		23.5 (27.3)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		42.4x2.0				
Connection dimension E [mm]:		80				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		5.2				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	25	25
øB [mm]:	210		162	210	140	140
L3 (valve with open manual actuator) [mm]:	594		519	594	298	534
Total weight of actuator unit [kg]:	9.6		5.8	9.6	1.4	6.3
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	0.65		0.27	0.65	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	255	280	255	280	-	-
x [mm]:	185	195	185	195	-	-
y [mm]:	190	230	190	230	-	-
z [mm]:	255	295	255	295	-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


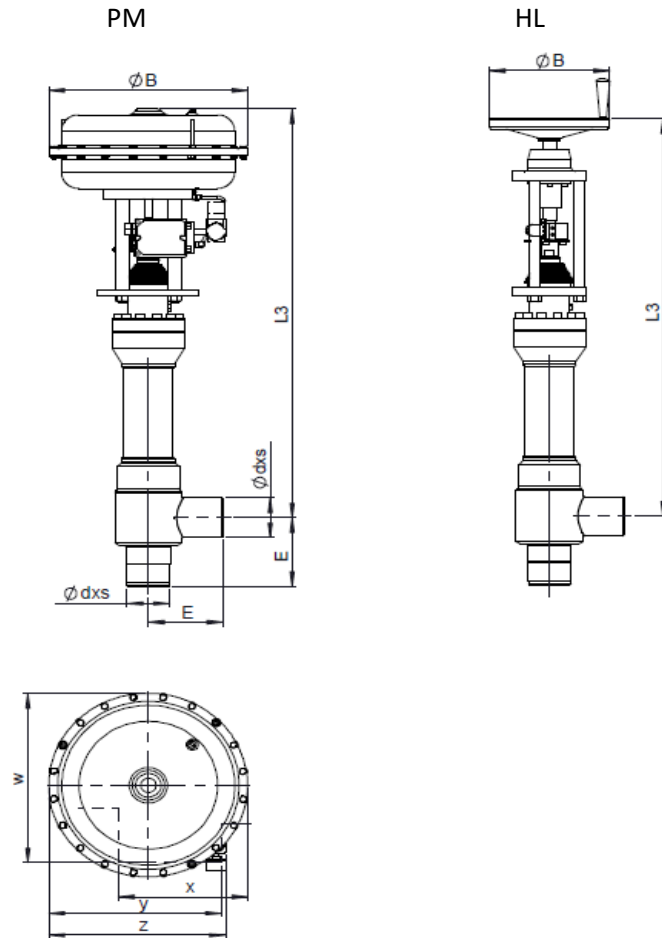
Valve size				DN40		
Nominal DN:		DN40 (1 1/2")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.13 (0.15)				
Kv max (Cv max) as control valve:		49.0 (56.8)				
Kv max (Cv max) as Shut/Off-valve:		50.0 (58.0)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		48.3x2.0				
Connection dimension E [mm]:		100				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		12.4				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	25
øB [mm]:	310		210	310	160	160
L3 (valve with open manual actuator) [mm]:	729		709	729	418	707
Total weight of actuator unit [kg]:	20.0		10.0	20.0	3.3	8.8
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	2.2		1.2	2.2	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	280	330	280	330	-	-
x [mm]:	195	245	195	245	-	-
y [mm]:	230	280	230	280	-	-
z [mm]:	295	345	295	345	-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


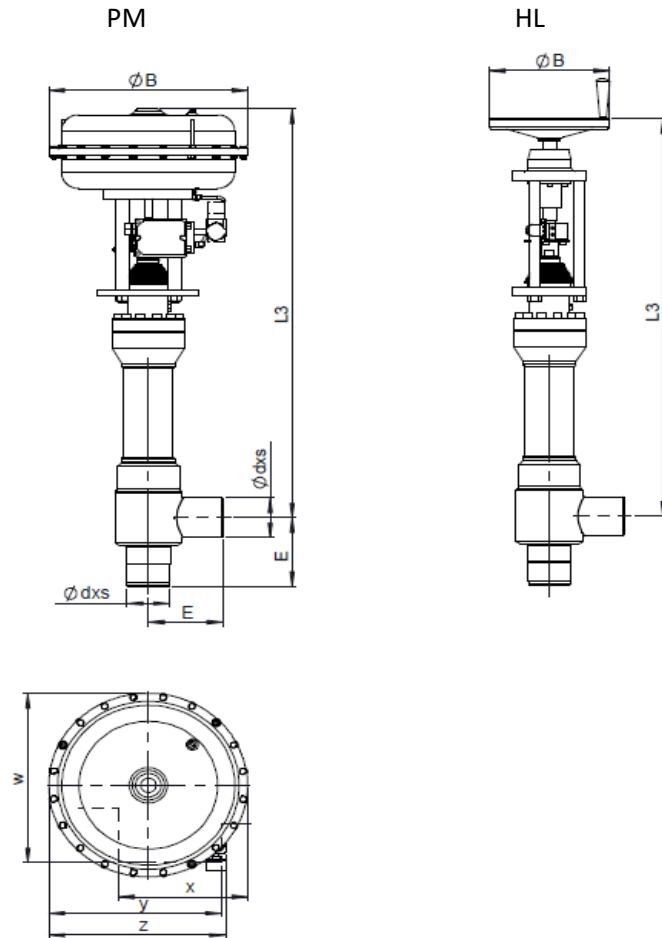
Valve size				DN50		
Nominal DN:		DN50 (2")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.14 (0.16)				
Kv max (Cv max) as control valve:		71.0 (82.4)				
Kv max (Cv max) as Shut/Off-valve:		75.0 (87.0)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		60.3x2.0				
Connection dimension E [mm]:		100				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		12.9				
Actuator:						
	PM - Po		PM - Ps		HIc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	25
øB [mm]:	310		210	310	200	200
L3 (valve with open manual actuator) [mm]:	725		705	725	418	708
Total weight of actuator unit [kg]:	20.0		10.0	20.0	4.4	8.5
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	2.2		1.2	2.2	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	330	330	280	330	-	-
x [mm]:	245	245	195	245	-	-
y [mm]:	280	280	230	280	-	-
z [mm]:	345	345	295	345	-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN65		
Nominal DN:		DN65 (2 1/2")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.18 (0.21)				
Kv max (Cv max) as control valve:		98 (114)				
Kv max (Cv max) as Shut/Off-valve:		100 (116)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		76.1x2.0				
Connection dimension E [mm]:		125				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		26				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	25	25
øB [mm]:	310	415	310	415	200	200
L3 (valve with open manual actuator) [mm]:	738	799	738	799	432	731
Total weight of actuator unit [kg]:	20	60	20	60	5.5	8.5
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	2.2	4.8	2.2	4.8	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	330	310	330	310	-	-
x [mm]:	245	270	245	270	-	-
y [mm]:	280	360	280	360	-	-
z [mm]:	345	425	345	425	-	-
Additional weight [kg]:	2.5				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN80		
Nominal DN:		DN80 (3")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.25 (0.29)				
Kv max (Cv max) as control valve:		160 (186)				
Kv max (Cv max) as Shut/Off-valve:		170 (197)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		88.9x2.6				
Connection dimension E [mm]:		155				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		35				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	-	25
øB [mm]:	415		310	415	-	250
L3 (valve with open manual actuator) [mm]:	948		887	948	-	934
Total weight of actuator unit [kg]:	65		20	65	-	21
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	4.8		2.2	4.8	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	330	435	330	435	-	-
x [mm]:	245	300	245	300	-	-
y [mm]:	280	335	280	335	-	-
z [mm]:	345	400	345	400	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**

Valve size
DN80 / PN40 version

Nominal DN:	DN80 (3")
Nominal pressure:	PN40
Design temperature:	-30°C to +50°C
Kv min (Cv min):	0.25 (0.29)
Kv max (Cv max) as control valve:	160 (186)
Kv max (Cv max) as Shut/Off-valve:	170 (197)

Dimension performance:

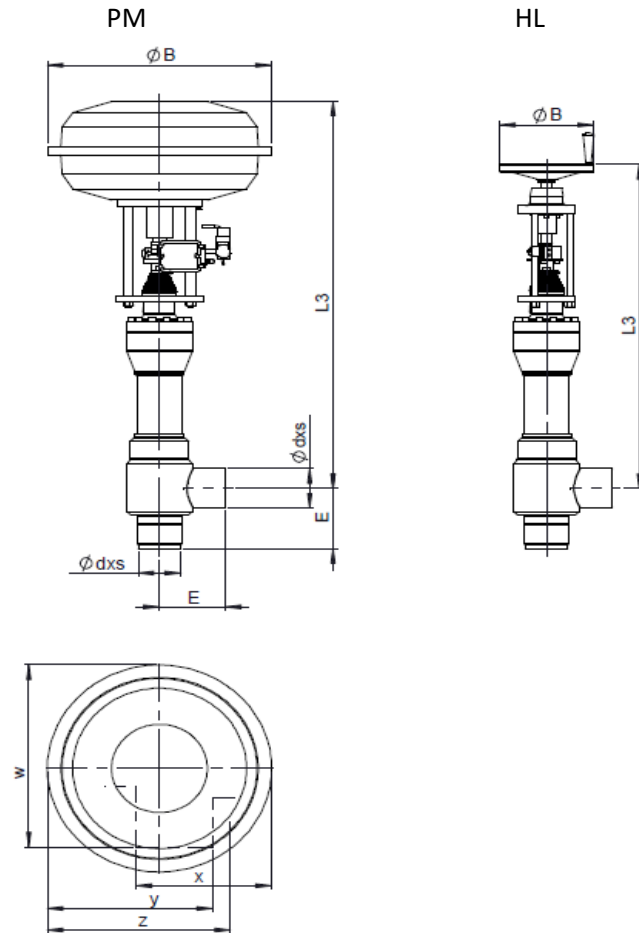
Vacuum weld in flange øa1 [mm]:	-
Butt weld end, ødxs [mm]:	88.9x2.6
Connection dimension E [mm]:	155
Standard cryogenic length h [mm]:	-
Heat load 300 to 4.2K @ indicated length h [W]:	-
Valve weight (without attached parts) [kg]:	59

Actuator:

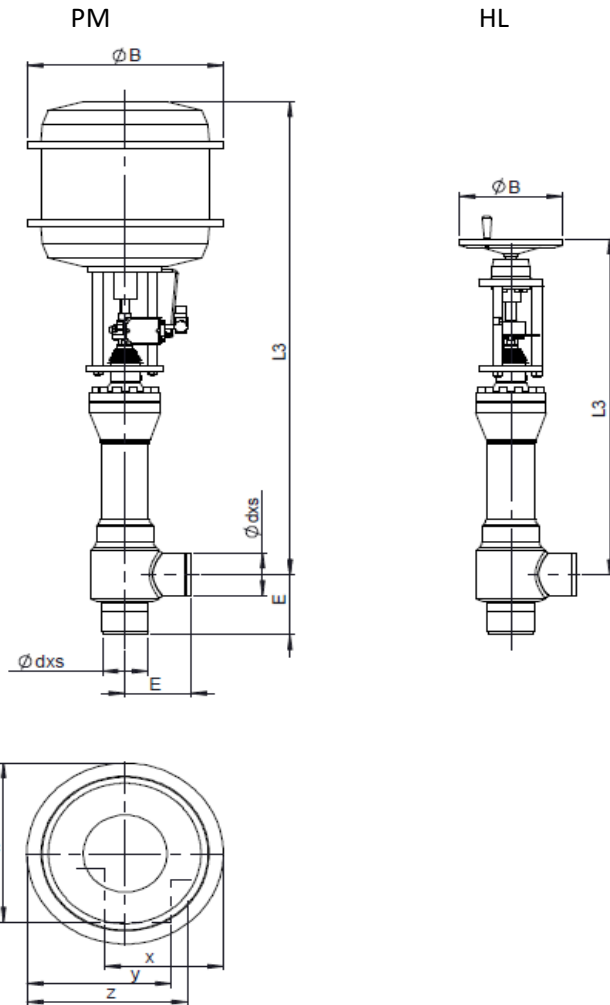
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [$\leq$ bar]:	32	40	32	40	-	40
ØB [mm]:	415	415	310	415	-	250
L3 (valve with open manual actuator) [mm]:	1200	1407	1200	1407	-	1153
Total weight of actuator unit [kg]:	65	120	65	120	-	21
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	4.8	9.6	4.8	9.6	-	-

Maximum dimensions with SIEMENS or SAMSON positioner

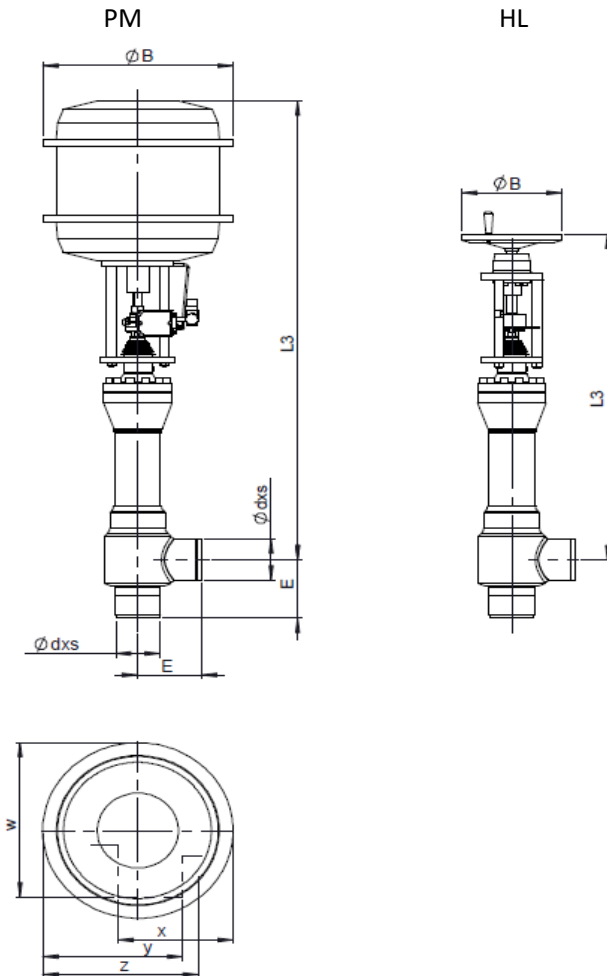
w [mm]:	435	435	330	435	-	-
x [mm]:	300	300	245	300	-	-
y [mm]:	335	335	280	335	-	-
z [mm]:	400	400	345	400	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN100		
Nominal DN:		DN100 (4")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.36 (0.42)				
Kv max (Cv max) as control valve:		250 (290)				
Kv max (Cv max) as Shut/Off-valve:		260 (302)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		114.3x2.6				
Connection dimension E [mm]:		175				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		55				
Actuator:						
	PM - Po		PM - Ps		Hlc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	-	25
øB [mm]:	415	415	415	415	-	250
L3 (valve with open manual actuator) [mm]:	1029	1295	1029	1295	-	986
Total weight of actuator unit [kg]:	73	139	73	139	-	21
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	7.3	14.6	7.3	14.6	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	435	525	435	525	-	-
x [mm]:	300	365	300	365	-	-
y [mm]:	335	440	335	440	-	-
z [mm]:	400	520	400	520	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN125		
Nominal DN:		DN125 (5")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.45 (0.52)				
Kv max (Cv max) as control valve:		370 (429)				
Kv max (Cv max) as Shut/Off-valve:		390 (452)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		139.7x2.6				
Connection dimension E [mm]:		200				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		83				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [$\leq$ bar]:	10	25	10	25	-	25
øB [mm]:	415	415	415	415	-	315
L3 (valve with open manual actuator) [mm]:	1315	1648	1315	1648	-	1171
Total weight of actuator unit [kg]:	93	177	93	177	-	37
Supply air:	max. 6.0 bar, R1/4"				-	-
Actuator volume by full travel [L]:	9.8	19.6	9.8	19.6	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	435	525	435	525	-	-
x [mm]:	300	365	300	365	-	-
y [mm]:	335	440	335	440	-	-
z [mm]:	400	520	400	520	-	-
Additional weight [kg]:	3.0				-	-

WEKA datasheet 930219
**Standard bellow sealed cryogenic valves PN25
with pneumatic or manual actuator**


Valve size				DN150		
Nominal DN:		DN150 (6")				
Nominal pressure:		PN25				
Design temperature:		-30°C to +50°C				
Kv min (Cv min):		0.66 (0.77)				
Kv max (Cv max) as control valve:		550 (638)				
Kv max (Cv max) as Shut/Off-valve:		600 (696)				
Dimension performance:						
Vacuum weld in flange øa1 [mm]:		-				
Butt weld end, ødxs [mm]:		168.3x2.6				
Connection dimension E [mm]:		250				
Standard cryogenic length h [mm]:		-				
Heat load 300 to 4.2K @ indicated length h [W]:		-				
Valve weight (without attached parts) [kg]:		115				
Actuator:						
	PM - Po		PM - Ps		HLc	HL
Valve shut-off pressure [≤bar]:	10	25	10	25	-	25
øB [mm]:	415	600	415	600	-	400
L3 (valve with open manual actuator) [mm]:	1667	1959	1667	1959	-	1210
Total weight of actuator unit [kg]:	177	501	177	501	-	39
Supply air:	max. 6.0 bar, R1/4"	max. 6.0 bar, R3/4"	max. 6.0 bar, R1/4"	max. 6.0 bar, R3/4"	-	-
Actuator volume by full travel [L]:	19.6	56.0	19.6	56.0	-	-
Maximum dimensions with SIEMENS or SAMSON positioner						
w [mm]:	525	525	525	525	-	-
x [mm]:	365	365	365	365	-	-
y [mm]:	440	440	440	440	-	-
z [mm]:	520	520	520	520	-	-
Additional weight [kg]:	3.0				-	-