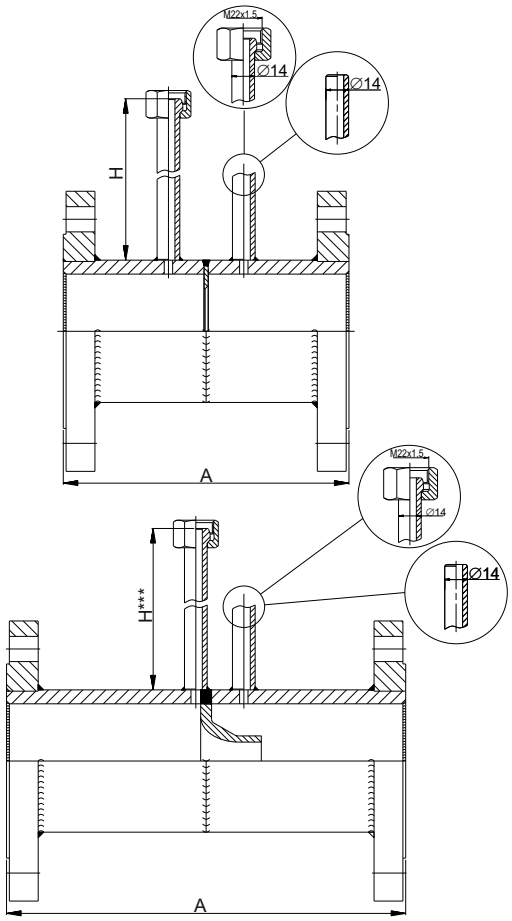
Flange type of nozzle flowmeter ZPK



Technical data:

-nominal pressure PN6÷PN100
-size of flowmeter DN25÷DN800
-material of flow element (orifice, nozzle):
stainless steel 1.4301
-material of construction elements:
carbon steel
austenic steel
stainless steel
-temperature up to 500°C
-material certification
-calculation acc. to PN-EN ISO 5167, ISO/TR 15377

Application:

Nozzle flowmeter is used for flow measurement of liquid medium in close pipeline.
An orifice plate installed in line creates a pressure drop. This difference of pressure is measured via impulse line by differential pressure transmitter. The relationship between the rate of flow and pressure drop is very well known and allows to easily convert measured pressure difference to flow value.
Flowmeters without correction are used for mediums with constant values of pressure and temperature.
For custody transfer measurement it's recommend to use differential pressure transmitters without SQRT characteristic and correction from changes of medium's pressure and temperature. This kind of measurement have to be calculated in dedicated flow counters.
Characteristic:
- high accuracy of measurement in wide range of flow
- resistant for aggressive media
- work in wide range of temp. and pressure

DN	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500	600	800
A	150			200			250		300	350	400	500		600			800

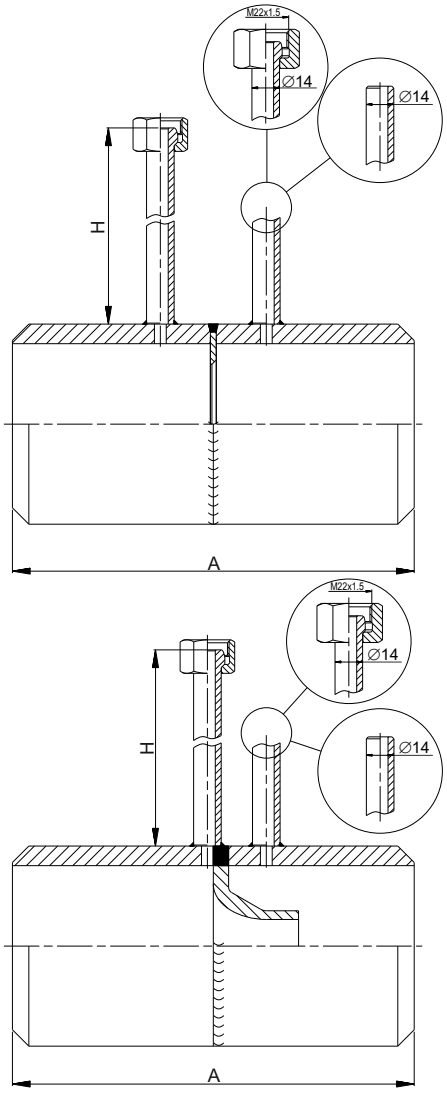
Version with straight sections and flanges for screwing

Ordering procedure:

ZPK – K – DN100 – PN16 – P265GH – 1.4301 – M22x1.5

- ZPK: Version of flowmeter
- K: Type of flowelement: **K** - orifice, **D** - nozzle, **Kkw** - square orifice
- DN100: Size DN
- PN16: Nominal pressure PN
- P265GH: Material of pipe and flange: **P265GH**, **304** or other
- 1.4301: Flowelement material: **304** or other
- M22x1.5: Type of mounting elements: ∅**14**, **M22x1,5**, other

Welded type of nozzle flowmeter ZPR



Technical data:

-nominal pressure PN6÷PN100
-size of flowmeter DN25÷DN800
-material of flow element (orifice, nozzle):
stainless steel 1.4301
-material of construction elements:
carbon steel
austenic steel
stainless steel
-temperature up to 500°C
-material certification
-calculation acc. to PN-EN ISO 5167, ISO/TR 15377

Application:

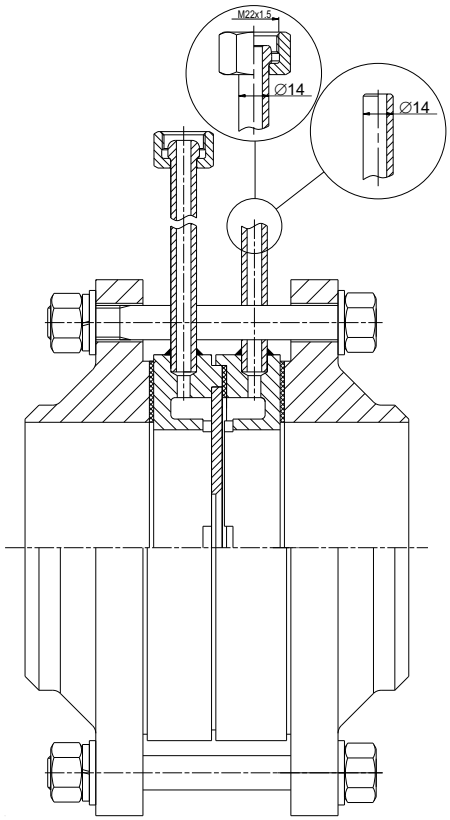
Nozzle flowmeter is used for flow measurement of liquid medium in close pipeline.
An orifice plate installed in line creates a pressure drop. This difference of pressure is measured via impulse line by differential pressure transmitter. The relationship between the rate of flow and pressure drop is very well known and allows to easily convert measured pressure difference to flow value.
Flowmeters without correction are used for mediums with constant values of pressure and temperature.
For custody transfer measurement it's recommend to use differential pressure transmitters without SQRT characteristic and correction from changes of medium's pressure and temperature. This kind of measurement have to be calculated in dedicated flow counters.
Characteristic:
- high accuracy of measurement in wide range of flow
- resistant for aggressive media
- work in wide range of temp. and pressure

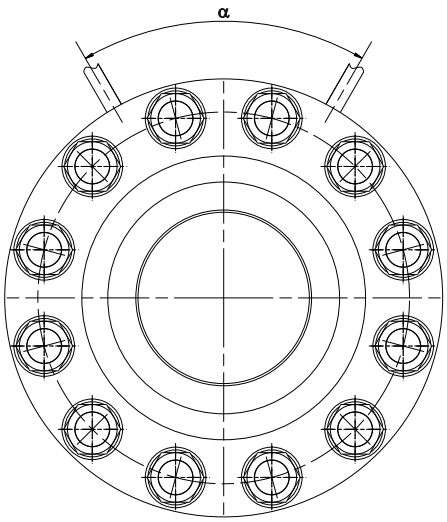
Ordering procedure:

ZPR – K – DN100 – PN16 – P265GH – 1.4301 – M22x1.5 – 500 – 80

- ZPR: Version of flowmeter
- K: Type of flowelement: **K** - orifice, **D** - nozzle, **Kkw** - square orifice
- DN100: Size DN
- PN16: Nominal pressure PN
- P265GH: Material of pipe and flange: **P265GH** or other
- 1.4301: Flowelement material: **304** or other
- M22x1.5: Type of mounting elements: ∅**14**, **M22x1,5**, other
- 500: Size A
- 80: Size H

Orifice flowmeter with assembling element ZPS





Technical data:

-nominal pressure PN6÷PN100
-size of flowmeter DN25÷DN800
-material of flow element:
stainless steel 1.4301
-material of construction elements:
carbon steel
austenic steel
stainless steel
-temperature up to 500°C
-material certification
-calculation acc. to PN-EN ISO 5167, ISO/TR 15377

DN	angle spacing between measuring points α							
	medium, gas							Steam
	nominal pressure							PN
	PN6	PN10	PN16	PN25	PN40	PN63	PN100	6, 10, 16, 25 40, 63, 100
25÷50	135°	135°	135°	135°	135°	135°	135°	0°, 90°, 180°
65				90°	90°	90°	90°	
80	90°	90°	90°					
100								
125								
150							60°	
200			60°	60°	60°	60°		
≥250	60°	60°	60°					

Application:

Measurement based on orifice plate with differential pressure trassmitter is most widely used type of flow measurement. It can be used in flow measurement of steam, water and gases.

The biggest advantages of this soultion are:
- high accuracy in wide measuring ranges
- applicable to measure flow of neutral and agressive mediums
- easy calibration

Ordering procedure:

ZPS – K – DN100 – PN16 – P265GH – 1.4301 – 90° – M22x1.5

- M22x1.5 — Type of mounting elements: ∅**14**, **M22x1,5**, other
- 90° — Angle spacing between measuring points
- 1.4301 — Flowelement material: **304** or other
- P265GH — Material of casing and flange
- PN16 — Nominal pressure PN
- DN100 — Size DN
- K — Type of flowelement: **K** - orifice, **Kkw** - square orifice
- ZPS — Version of flowmeter

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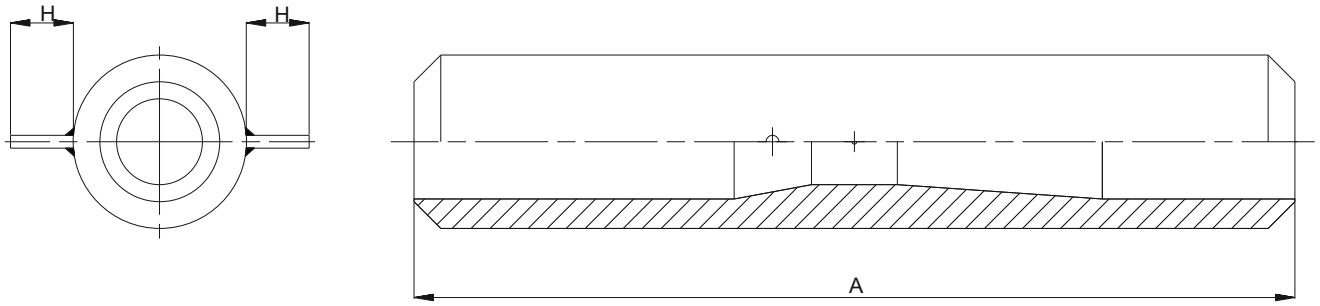
Venturi type flowmeter ZPV



Technical data:

-nominal pressure PN6÷PN160
-size of flowmeter DN65÷DN800
-material of flow element (orifice, nozzle):
stainless steel 1.4301
-material of construction elements:
carbon steel
austenic steel
stainless steel
-temperature up to 600°C
-material certification
-calculation acc. to PN-EN ISO 5167

Application:

Venturi flowmeter is used for flow measurement of liquid medium in close pipeline. An orifice plate installed in line creates a pressure drop. This difference of pressure is measured via impulse line by differential pressure transmitter. The relationship between the rate of flow and pressure drop is very well known and allows to easily convert measured pressure difference to flow value.
Flowmeters without correction are used for mediums with constant values of pressure and temperature.
For custody transfer measurement it's recommend to use differential pressure transmitters without SQRT characteristic and correction from changes of medium's pressure and temperature. This kind of measurement have to be calculated in dedicated flow counters.

Characteristic:
- high accuracy of measurement in wide range of flow
- resistant for aggressive media
- work in wide range of temp. and pressure

Ordering procedure:

ZPV – Dn100 – PN63 – P91

- P91 — Material of measuring element
- PN63 — Nominal pressure PN
- Dn100 — Size DN
- ZPV — Version of flowmeter