2/2-way valves DN 25 to DN 65

Pilot operated solenoid valve for cleaning dust filters
For tank mounting with blow-tube
Operating pressure 0.4 to 8 bar

83920

Description (standard valve)

Type:	diaphragm valve requiring differential pressure
Process fluid:	neutral gases
Switching function:	normally closed
Differential pressure:	0.4 bar required
Flow direction:	determined
Coil gas temperature:	–40 °C to max. +85 °C
Ambient temperature:	–20 °C to max. +85 °C
Mounting position:	optional, preferably with solenoid upright

Twist-on®

Materials

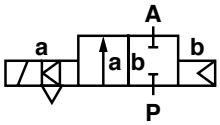
Body:	Aluminium
Seat seal:	TPE
Seals:	TPU
Blow-tube:	Aluminium
Adapter:	Aluminium

For contaminated fluids insertion of a strainer is recommended (see **Buschjost** accessories).

Features

- High flow rate
- All internal components captive
- Simple, compact design
- Solenoid interchangeable without tools
- Integrated silencer

Symbol



Ordering information

Further technical information and details of wearing parts are to be found on page 26 for the 82960 series.

Stainless Steel **Stainless steel version on request (DN 20 and DN 40)**

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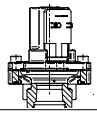
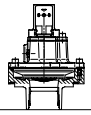
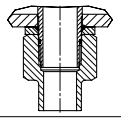
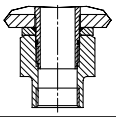
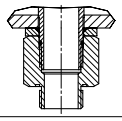
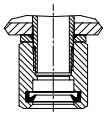
Ordering information

Valves

Outside dim. of tank/ profile (mm)	Part Number		Plus	Connection kit			
	DN 25	DN 40		Hose connector	Female thread	Male thread	Push-in sleeve
							
70	8392400. 8171. 00000	-----	+	1263648	1263641	1263634	1263628
100				1263649	1263642	1263635	1263629
120				1263652	1263643	1263636	1263630
140				1263653	1263644	1263637	1263609
160				1263655	1263645	1263638	1263631
180				1263656	1263646	1263639	1263632
200				1263657	1263647	1263640	1263633
70	-----	8392600. 8171. 00000	+	1263682	1263674	1263666	1263658
100				1263683	1263675	1263667	1263659
120				1263684	1263676	1263668	1263660
140				1263685	1263677	1263669	1263661
160				1263686	1263678	1263670	1263662
180				1263687	1263679	1263671	1263663
200				1263688	1263680	1263672	1263664

Kit not required for use without connection pipe. Please then just give Order-No. for DN 25 or 40 connection.
DN 50 and DN 65 – Tube and connection on request

Characteristic data

Valves

Part Number	Nominal Diameter (mm)	Operating pressure min. (bar)	max. (bar)	k_V-value * (Base m^3/h)	Weight (kg)
8392400.8171.XXXXX	25	0.4	8	28	0.47
8392600.8171.XXXXX	40	0.4	8	74	1.10
8392700.8171.XXXXX	50	0.4	8	104	1.6
8392800.8171.XXXXX	65	0.4	8	121	2.0

* C_V-value (US) ≈ k_V-value x 1.2

State voltage [V] and frequency [Hz]

Solenoid 8171

Standard voltages

DC ⎓	AC ∿ 50 Hz	60 Hz
24 V	24 V	24 V
–	110 V	120 V
–	230 V	–

Design acc. to DIN VDE 0580
Voltage range ±10 %
100 % duty cycle
Protection class acc. to EN 60529 IP65
Socket Form A acc. to DIN EN 175301-803 (included)

Power consumption

According to DIN VDE 0580 at coil temperature +20 °C. In operating the solenoid coil decrease the power consumption appr. 30 %.

Solenoid	DC ⎓	AC ∿ Inrush	Holding
8171 *	12 W	23 VA	16 VA / 8 W

* c SP us coil only maintaining the ambient temperature of +65 °C

Further options (Solenoids)

XXXXXXX.**8176** Solenoid in protection class
Ⓔx II 3 GD EEx nA II T4 T 135 °C

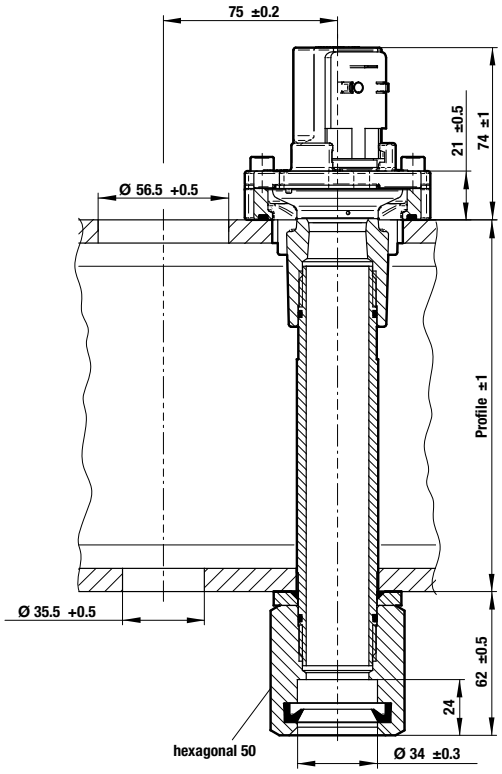
XXXXXXX.**8186** Solenoid in protection class
Ⓔx II 2 GD EEx me II T4 T 140 °C

On request Further versions

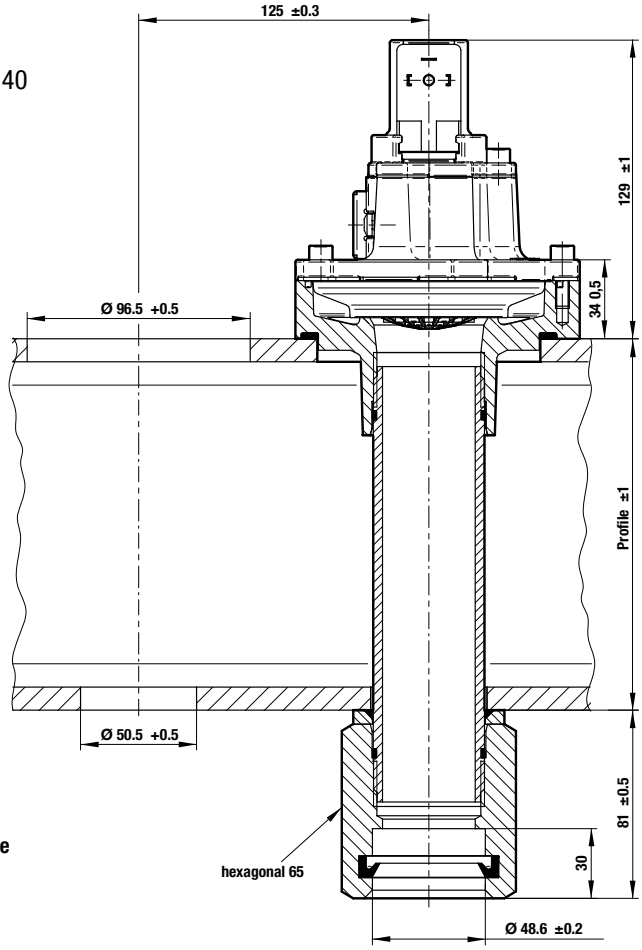
Sectional drawing / Dimensional drawing

Solenoid rotatable 3 x 120°
Socket turnable 4 x 90°
(Socket included)

DN 25



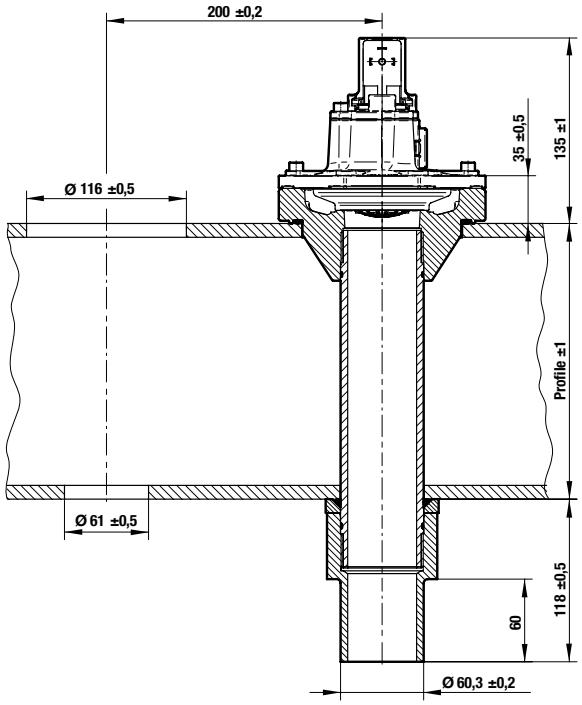
DN 40



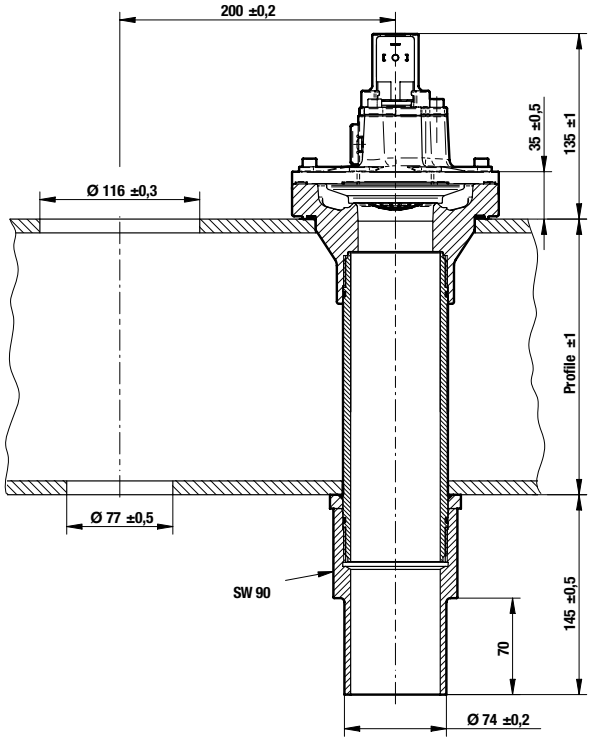
Push-in sleeve

Maximum torque 50 Nm for DN 25 adapter
Maximum torque 100 Nm for DN 40 adapter

DN 50



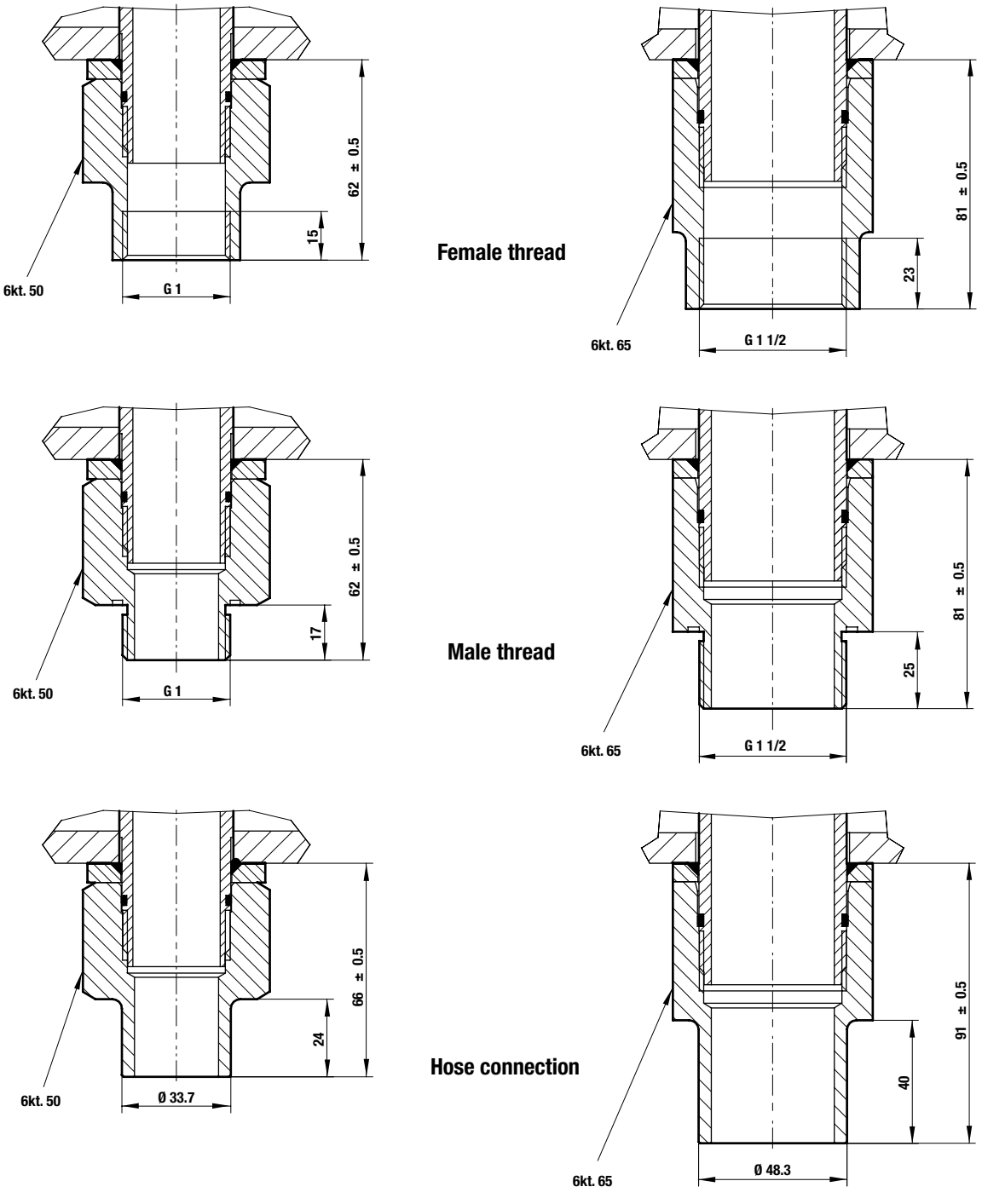
DN 65



Other adapters

DN 25

DN 40



Note to Pressure Equipment Directive (PED):
The valves of this series are according to Art. 3 § 3 of the Pressure Equipment Directive (PED) 97/23/EG.
This means interpretation and production are in accordance to engineers practice wellknown in the member countries.
The CE-sign at the valve does not refer to the PED. Thus the declaration of comformity is not longer applicable for this directive.

Note to Electromagnetic Compatibility Guideline (EEC):
The valves shall be provided with an electrical circuit which ensures the limits of the harmoniised standards EN 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Guildeline (2004/108/EC) satisfield.