

ADS/SLM ISR-System

ADS-ISR construction

Membrane-based pneumatic spring element with housing, carrier and base plate made of aluminium

Natural frequencies

1.5 Hz–3 Hz

SLM-ISR construction

Elastomer-metal combination with screwed on base plate

Natural frequencies

3 Hz–5 Hz

Delivery contents of standard ISR pneumatic spring system

- 4 supporting points
 - 3 pneumatic springs ADS/SLM type Master with sensors and control valves
 - 1 pneumatic spring ADS/SLM type Slave without sensors and valves
- 1 control unit as 3-channel circuit board with RS-232 PC interface
- Control cable for master elements
- Hose NW 4 with cross piece or T-pieces
- Power adapter

(see page 16/17)

ADS-ISR



Options

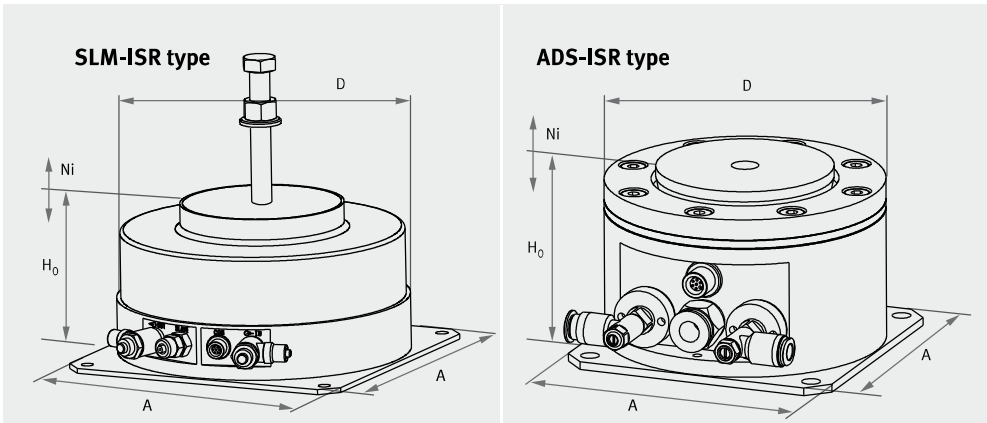
- Control unit: circuit board in synthetic enclosure
- Connectors for control cable
- Filter-regulator unit consisting of pressure regulator, pressure gauge, filter, water separator
- Control cable: length of 3 control cables to customer specifications
- "Air Level Control" software for PC (Windows)
- Serial cable RS-232
- Additional hose sections and connectors according to number of pneumatic springs

Supply conditions

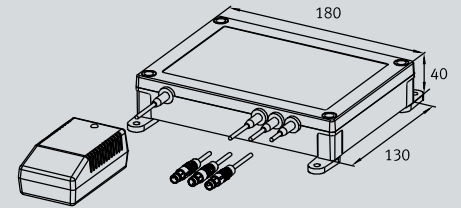
- Compressed air: operating pressure 1–6 bar, dry, dust and oil free; alternative filter-regulator (FRK)
- Control unit: Circuit board approx. 160 x 100 x 15 mm; alternative circuit board in synthetic housing approx. 225 x 200 x 40 mm
- Power supply: 24 V–1A; alternative power adapter, input 230 V, 50 Hz, 130 Watt, output 24 V, 1A, DC
- PC interface: serial connection
- RS-232; for programming EFFBE Software "Air Level Control" is required
- Commissioning and adjusting of pneumatic spring system as well as operator training by EFFBE staff upon request

SLM-ISR





ISR Control Unit



ISR system

The basic version of the ISR pneumatic spring system is factory-programmed. However, the software allows varying the following parameters: reset accuracy, permissible deflection, response time, average level. These parameters can be viewed, freely chosen within wide limits, and permanently stored in the control unit. The values are retained even after a power failure. The factory default settings are documented in a datasheet.

Overview of programmable parameters

- Reset accuracy:
 - rough (+/- 0.5 mm, fine (+/- 0.1 mm), user-defined (+/- 0.01 mm ... 1 mm)
- Permissible deflection:
 - wide (+/- 1.0 mm), narrow (+/- 0.5 mm), user-defined (+/- 0.01 mm ... 1.5 mm)
- Response time:
 - fast (10 ms), slow (125 ms), user-defined (5 ms ... 125 ms)
- Level:
 - Middle position (+/- 5 mm), fine adjustment with potentiometer and / or software

ADS-/SLM-ISR Series Dimension table Dimensions in mm	D	Ho	Ni	A	Load (max.) kN
ADS 3	105	65	+/- 5	106	1.8
ADS 6	127	90	+/- 6	130	2.8
ADS 12 / SLM 12 B ISR	175 / 170	90	+/- 6	175	6.0
ADS 24	245	90	+/- 6	255	13.0
ADS 48	338	90	+/- 6	343	26.0
ADS 96	468	90	+/- 6	470	55.0
ADS 192	610	90	+/- 6	610	100.0

