SAV 243.70

ELECTRO PERMANENT MAGNETIC CHUCKS

With continuous transverse pole pitch P = 13 mm, 18 mm and 25 mm

The magnetic force is generated by the permanent magnets which are magnetised and demagnetised with short current pulses. The block magnet features a sturdy design and a long service life. The pole pitch forms "true" N and S poles.



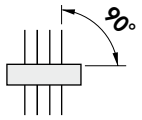
DESIGN

- Solid pole plate with 13 mm, 18 mm or 25 mm transverse pole pitch
- "True" N/S pole spacing
- Switch-off using demagnetising cycle
- Electro permanent magnetic system for absolute safety in case of power failure.
- On request available with compressed air holes for P = 18/25 mm for easier removal of larger parts (adhesion)
- High accuracy thanks to pole plates bolted in a narrow grid
- Reinforced systems for high wear possible on request
- 8 mm wear layer on the pole plate
- Pole plate can be replaced when worn
- Chucking slots on both face sides
- Length over 1000 mm with through holes for fastening upon agreement or machine table
- Robust and water-tight
- Protection rating IP 65

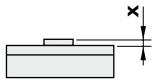
APPLICATION

For universal chucking of workpieces with high precision.

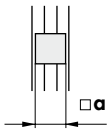
- For main workpiece axis perpendicular to the pole pitch



- For workpieces up to min. thickness x:
  4.5 mm with P = 13 mm
  6.0 mm with P = 18 mm
  8.5 mm with P = 25 mm



- For flat workpieces min. a:
  25 mm x 25 mm with P = 13 mm
  32 mm x 32 mm with P = 18 mm
  45 mm x 45 mm with P = 25 mm



RATED HOLDING FORCE

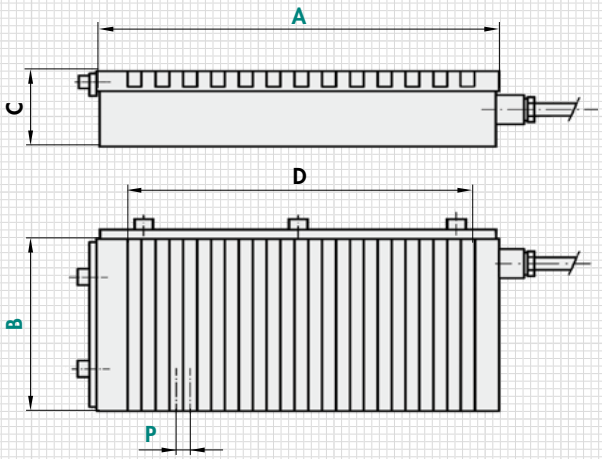
90 N/cm², with P = 13 mm pole pitch
110 N/cm², with P = 18 mm pole pitch
115 N/cm², with P = 25 mm pole pitch
Controllable with control unit.

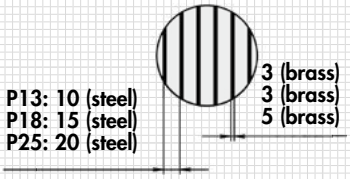
RATED VOLTAGE, RECOMMENDED

210 V IMP up to size A x B = 600 x 400
360 V IMP above size A x B = 600 x 400

SCOPE OF DELIVERY

- Stop bar on one short and one long side
- 3 m connecting cable on right short side, rear
- On request with water-tight heavy-duty power connector
- Larger magnetic chucks from 25 kg are provided with lifting lugs for transport
- Control and hand remote unit not in the scope of delivery
- Clamps





mm					kg	V	A
A	B	C^{0}_{-1}	D	P	Weight	Rated voltage	Control max. pul. Current
200	100	80	120	13	11.0	210	30
300	100	80	224	13	17.0	210	30
300	150	80	224	13	25.0	210	30
400	150	80	328	13	34.0	210	30
450	175	80	381	18	44.0	210/360	30
400	200	80	345	18	45.0	210/360	30
500	200	80	417	18	56.0	210/360	30
600	200	80	525	18	67.0	210/360	30
800	200	80	705	18	90.0	210/360	30
500	250	80	417	18	70.0	210/360	30
600	250	80	525	18	84.0	210/360	30
800	250	80	705	18	112.0	210/360	30
500	300	80	417	18	90.0	210/360	30
600	300	80	525	18	108.0	210/360	30
800	300	80	705	18	145.0	210/360	30
1000	300	80	930	18	180.0	210/360	30
600	350	80	525	18	126.0	210/360	30
800	350	80	705	18	168.0	210/360	30
1000	350	80	921	18	210.0	210/360	30

mm					kg	V	A
A	B	C^{0}_{-1}	D	P	Weight	Rated voltage	Control max. pul. Current
600	400	80	525	18	145.0	210/360	30
700	400	80	633	18	169.0	360	30
800	400	80	705	18	193.0	360	30
1000	400	80	921	18	240.0	360	30
1200	400	90	1137	18	289.0	360	30
800	500	80	730	25	241.0	360	30
1000	500	80	930	25	301.0	360	30
1200	500	90	1130	25	361.0	360	30
1250	500	90	1180	25	376.0	360	30
1500	500	90	1430	25	450.0	360	30
1600	500	90	1520	25	480.0	360	60
2000	500	90	1930	25	602.0	360	60
1000	600	80	930	25	361.0	360	30
1200	600	90	1130	25	433.0	360	30
1250	600	90	1180	25	451.0	360	30
1500	600	90	1430	25	542.0	360	30
1600	600	90	1520	25	578.0	360	60
2000	600	90	1930	25	722.0	360	60
1500	800	90	1430	25	723.0	360	60
1600	800	90	1520	25	771.0	360	60
2000	800	90	1930	25	963.0	360	60

Other sizes and rated voltages on request.
Larger chucking areas can be implemented by joining several blocks without gaps.
Allocation to the correct control unit is based on the max. power consumption/magnet voltage.

ORDERING EXAMPLE

Designation	**SAV no. - A x B - pole pitch - rated voltage**
Electro permanent magnetic chuck	SAV 243.70 - 2000 x 800 - 25 - 360 V