2PXM

2 jaws self-centering grippers Ø125-160-200

ALUMINIUM

Pneumatics - Protected

Technical features

- Aluminium body to contain the gripper weight
- Functional parts heat-treated for high precision and long life
- Jaws with calibrated bushings
- Protection class IP64
- Highest rigidity and Repeatability: 0,02 mm
- Prepared for Air purge

OPTIONAL

- Inductive/Analogic stroke control sensor ON/OFF or linear
- Magnetic stroke control sensor ON/OFF or linear

Applications/Customer benefits

- Compact and light design
- OD and/or ID clamping (also with springs)
- Side or rear feeding
- Interchangeable with most existing universal grippers

Standard equipment

Grippers without fingers and without sensors.
All screws for the double mounting, all centering bushings and all interface OR included.

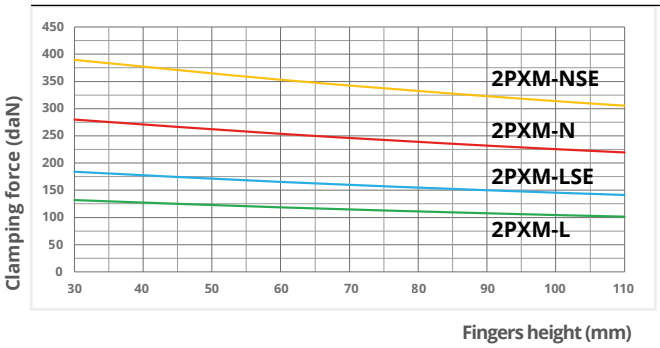
SMW-Autoblok TYPE	Id. No.	Clamping force (daN) at 6 bar	Spring force min. (daN)	U (mm) jaw stoke	Air volume (cm^3)	Pressure (bar) min./max.	Opening/ Closing time (s) at 6 bar	Weight (Kg)	Workpiece weight recommended (Kg)	e (mm) min. /max.	R1 (mm) min. /max.	R2 (mm) min. /max.
2PXM-N 125	77901864	280	-----	6	79	2/8	0,1/0,1	1,6	14,0	30,5/36,5	71,5/77,5	23,5/29,5
2PXM-NSE 125	77902064	390	110	6	151	4/6,5	0,12/0,08	2	14,0	30,5/36,5	71,5/77,5	23,5/29,5
2PXM-NSI 125	77901164	407	110	6	157	4/6,5	0,08/0,12	2	14,0	30,5/36,5	71,5/77,5	23,5/29,5
2PXM-L 125	77901964	132	-----	13	79	2/8	0,1/0,1	1,6	7,0	30,5/43,5	64,5/77,5	23,5/36,5
2PXM-LSE 125	77902164	184	52	13	151	4/6,5	0,12/0,08	2	7,0	30,5/43,5	64,5/77,5	23,5/36,5
2PXM-LSI 125	77901264	192	52	13	157	4/6,5	0,08/0,12	2	7,0	30,5/43,5	64,5/77,5	23,5/36,5
2PXM-N 160	77901868	456	-----	8	161	2/8	0,14/0,14	2,9	23,0	38,5/46,5	90/98	29,5/37,5
2PXM-NSE 160	77902068	651	195	8	318	4/6,5	0,22/0,11	3,7	23,0	38,5/46,5	90/98	29,5/37,5
2PXM-NSI 160	77901168	685	195	8	330,5	4/6,5	0,11/0,22	3,7	23,0	38,5/46,5	90/98	29,5/37,5
2PXM-L 160	77901968	215	-----	16	161	2/8	0,14/0,14	2,9	11,0	38,5/54,5	82/98	29,5/45,5
2PXM-LSE 160	77902168	307	92	16	318	4/6,5	0,22/0,11	3,7	11,0	38,5/54,5	82/98	29,5/45,5
2PXM-LSI 160	77901268	324	92	16	330,5	4/6,5	0,11/0,22	3,7	11,0	38,5/54,5	82/98	29,5/45,5
2PXM-N 200	77901872	556	-----	14	373	2/8	0,3/0,3	5,8	28,0	38/52	105/119	28,5/42,5
2PXM-NSE 200	77902072	756	200	14	733	4/6,5	0,5/0,3	7,3	28,0	38/52	105/119	28,5/42,5
2PXM-NSI 200	77901172	790	200	14	758	4/6,5	0,3/0,5	7,3	28,0	38/52	105/119	28,5/42,5
2PXM-L 200	77901972	370	-----	25	373	2/8	0,3/0,3	5,8	18,5	38/63	94/119	28,5/53,5
2PXM-LSE 200	77902172	502	132	25	733	4/6,5	0,5/0,3	7,3	18,5	38/63	94/119	28,5/53,5
2PXM-LSI 200	77901272	526	132	25	758	4/6,5	0,3/0,5	7,3	18,5	38/63	94/119	28,5/53,5

Note: 2PXM-N: Normal stroke 2PXM-L: Long stroke 2PXM-NSE: Normal stroke OD 2PXM-NSI: Normal stroke ID
2PXM-LSE: Long stroke OD 2PXM-LSI: Long stroke ID

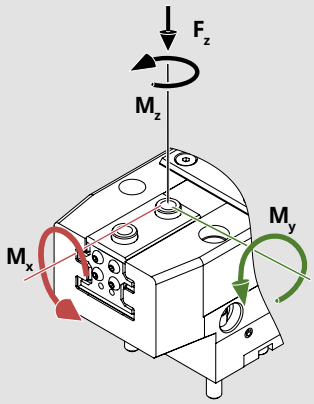
Drawings and data are subject to change by SMW-Autoblok.

125

2PXM



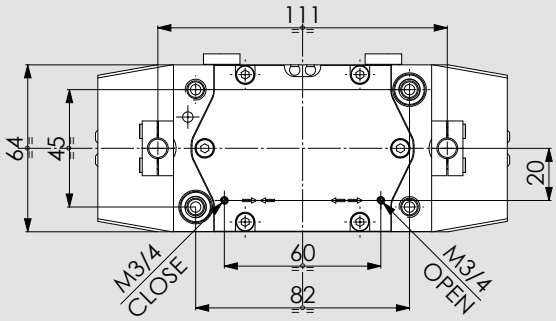
Clamping force calculated **at 6 bar**.
Max. recommended fingers height: **110 mm**
Max. fingers weight: **2,3 Kg**
For I.D. clamping consider **+5%** of the clamping force shown in the diagram.
Use connecting screws **class 12.9**

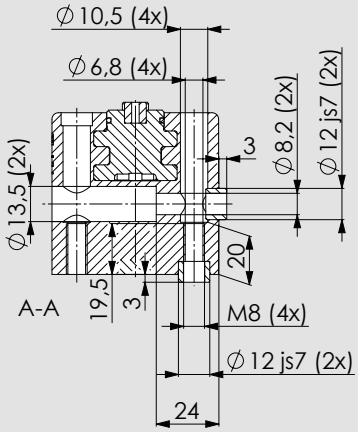


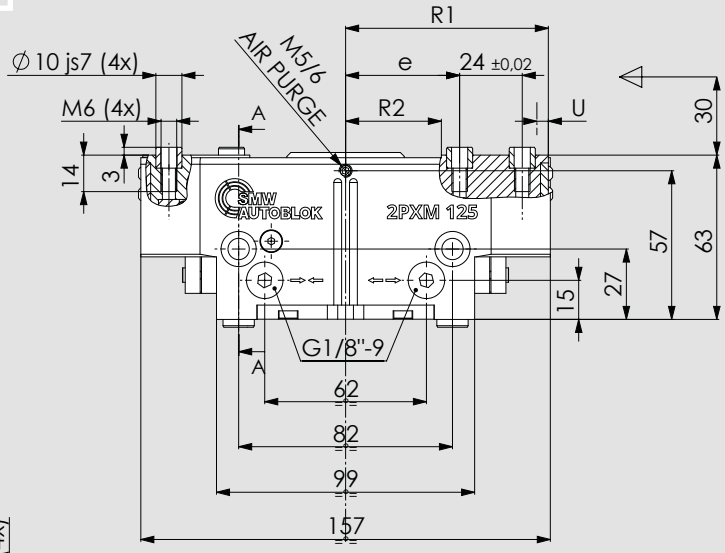
- M_x max. 125 Nm*
- M_y max. 140 Nm*
- M_z max. 110 Nm*
- F_z max. 3350 N*

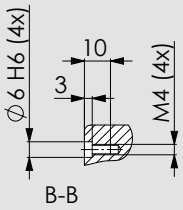
* THE MOMENTS OF INERTIA INDICATED REFER TO ONE JAW AND CAN BE OCCUR SIMULTANEOUSLY. THE M_y MOMENT CAN BE ADDED TO THE CLAMPING FORCE MOMENT.

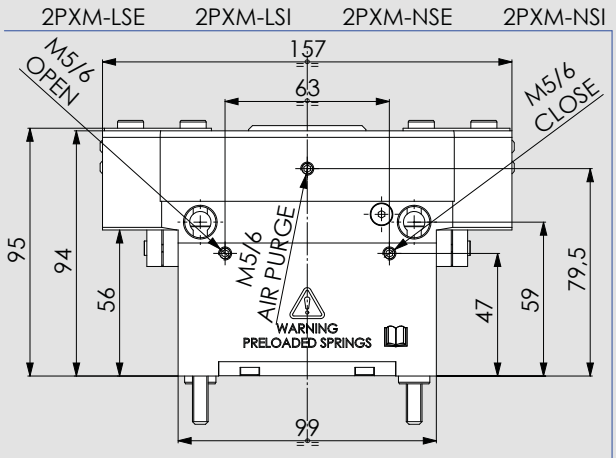
max allowed temperature using proximities is 60°C

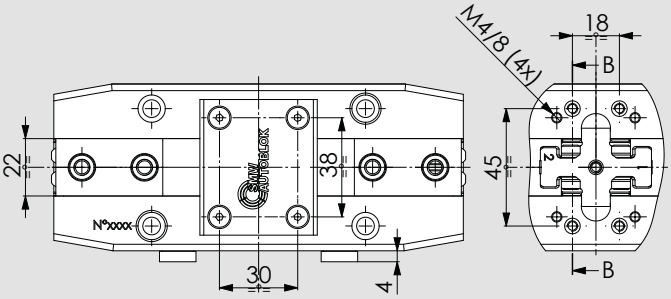


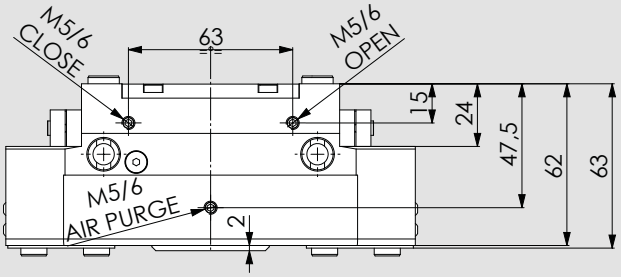








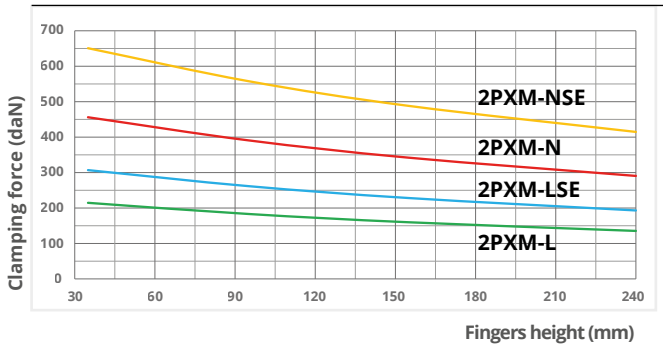




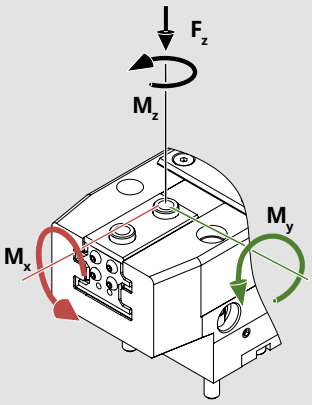
Drawings and data are subject to change by SMW-Autoblok.

160

2PXM



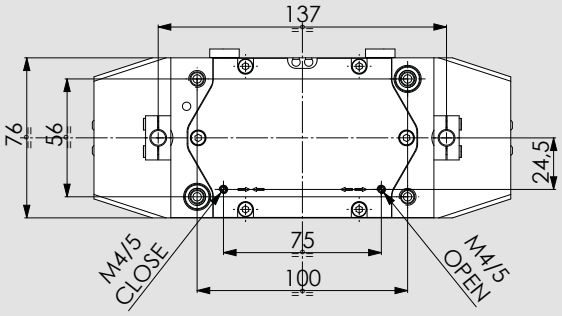
Clamping force calculated **at 6 bar**.
Max. recommended fingers height: **240 mm**
Max. fingers weight: **3,7 Kg**
For I.D. clamping consider **+5%** of the clamping force shown in the diagram.
Use connecting screws **class 12.9**

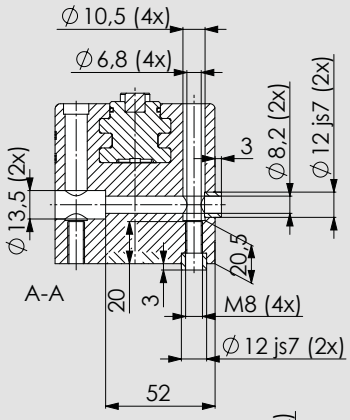


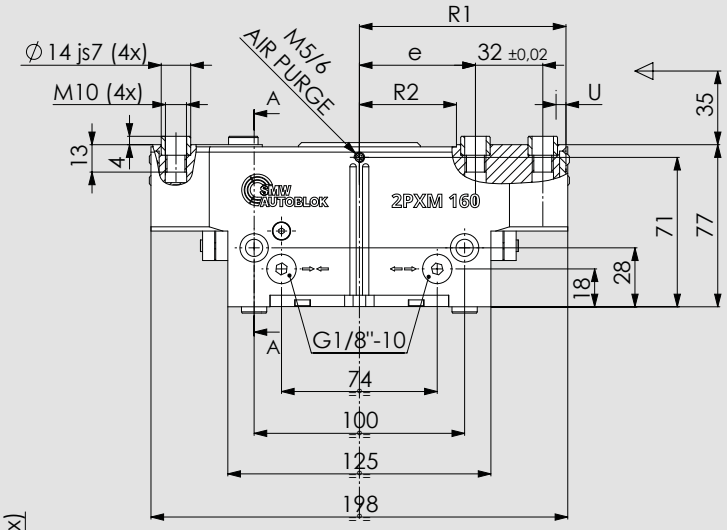
- M_x max. 175 Nm*
- M_y max. 175 Nm*
- M_z max. 150 Nm*
- F_z max. 5650 N*

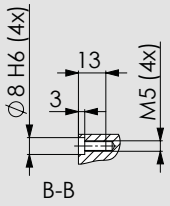
* THE MOMENTS OF INERTIA INDICATED REFER TO ONE JAW AND CAN BE OCCUR SIMULTANEOUSLY. THE M_y MOMENT CAN BE ADDED TO THE CLAMPING FORCE MOMENT.

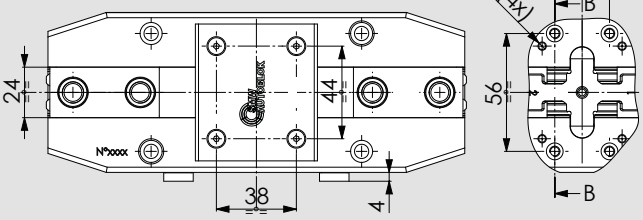
max allowed temperature using proximities is 60°C



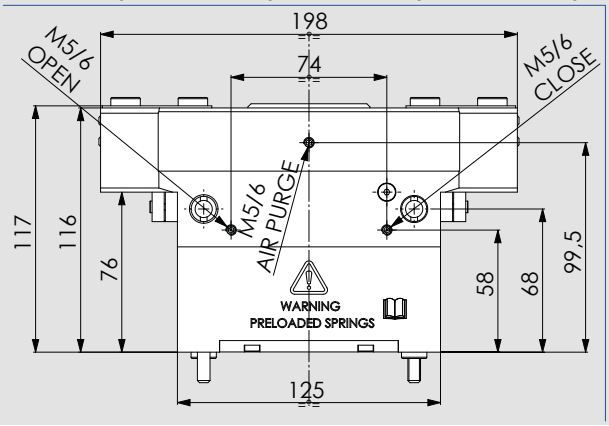


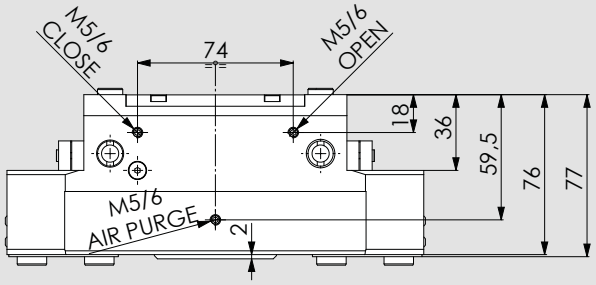






2PXM-LSE 2PXM-LSI 2PXM-NSE 2PXM-NSI

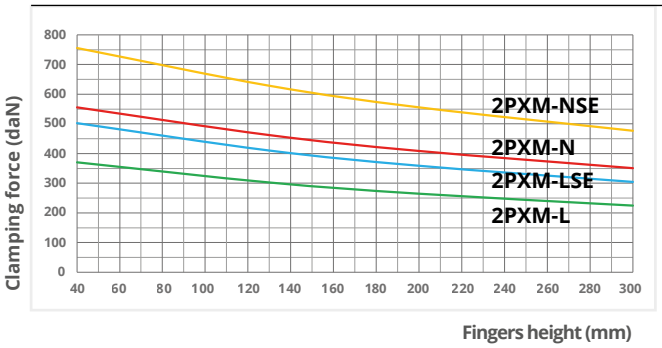




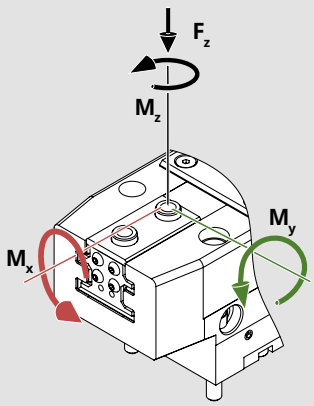
Drawings and data are subject to change by SMW-Autoblok.

200

2PXM



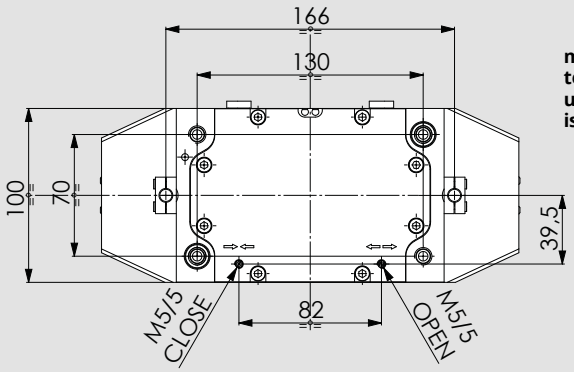
Clamping force calculated **at 6 bar**.
Max. recommended fingers height: **300 mm**
Max. fingers weight: **6,7 Kg**
For I.D. clamping consider **+5%** of the clamping force shown in the diagram.
Use connecting screws **class 12.9**

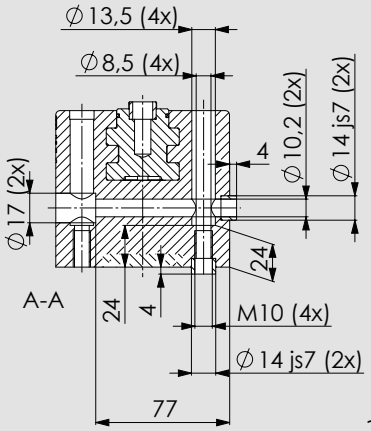


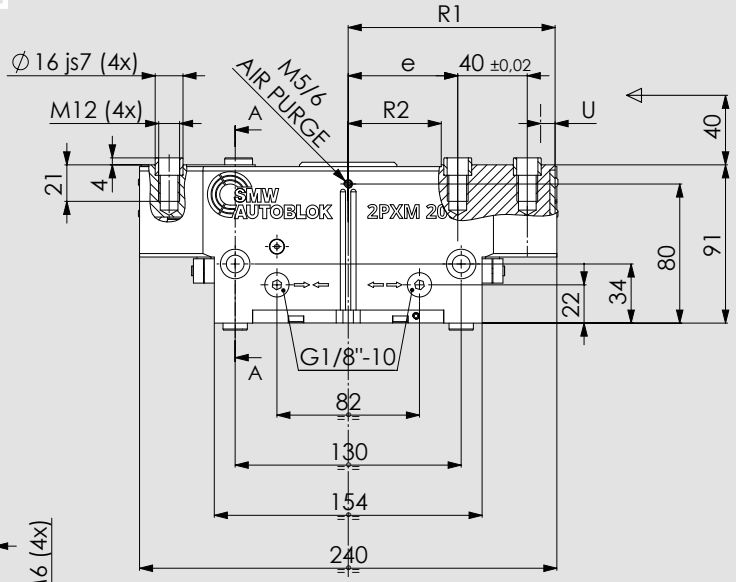
- M_x max. 205 Nm*
- M_y max. 195 Nm*
- M_z max. 180 Nm*
- F_z max. 7200 N*

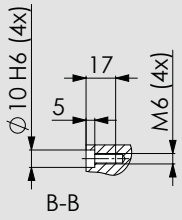
* THE MOMENTS OF INERTIA INDICATED REFER TO ONE JAW AND CAN BE OCCUR SIMULTANEOUSLY. THE M_y MOMENT CAN BE ADDED TO THE CLAMPING FORCE MOMENT.

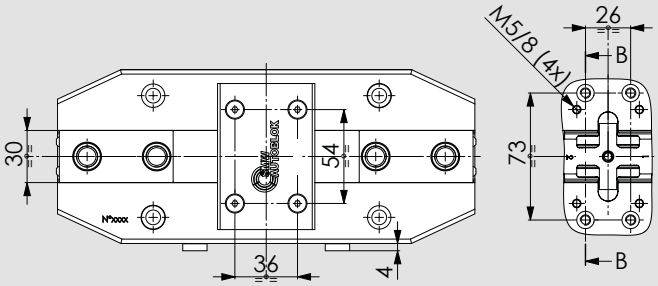
max allowed temperature using proximities is 60°C

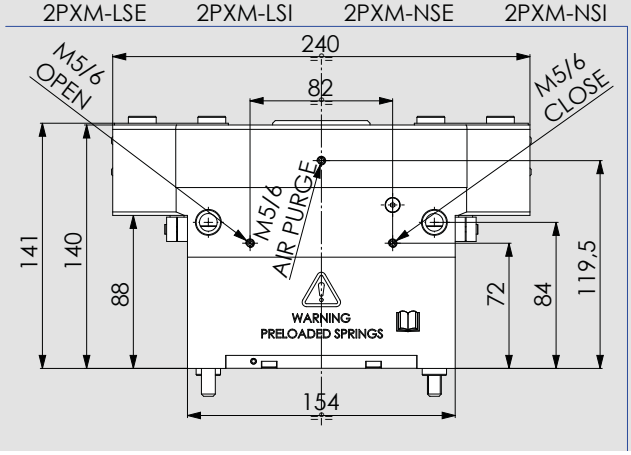


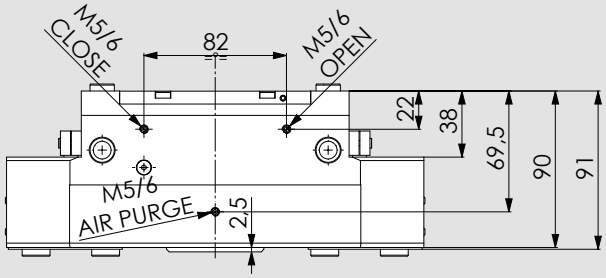










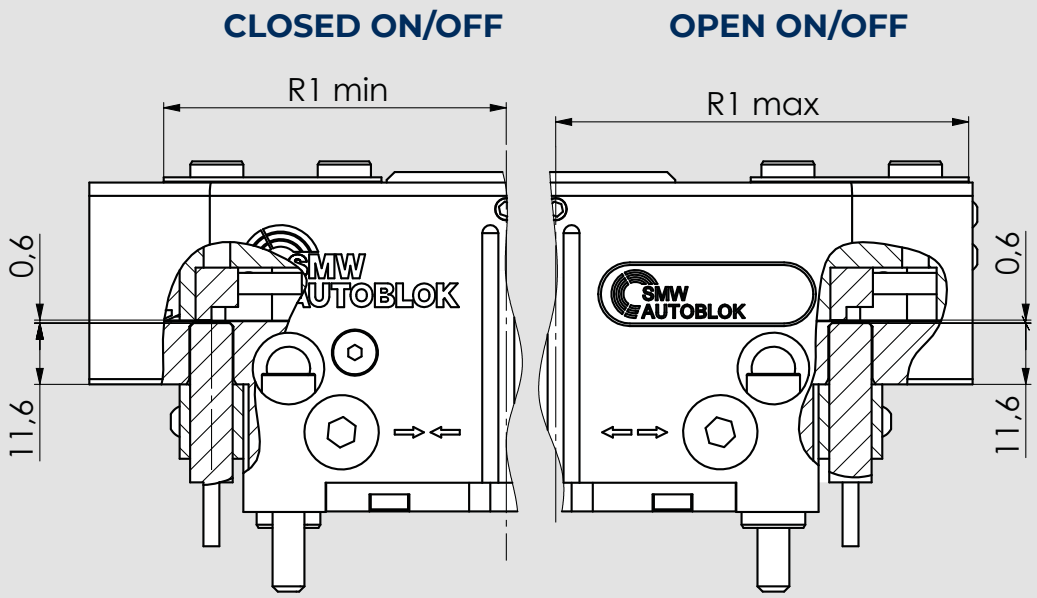


6
a

Drawings and data are subject to change by SMW-Autoblok.

SENSORS for 2PXS 2PXM 2PXL GRIPPERS

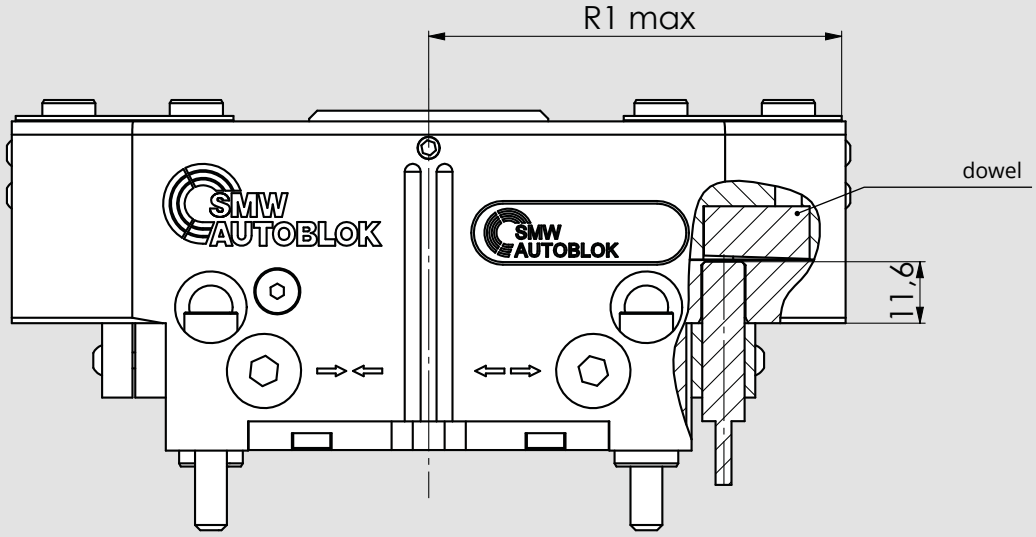
INDUCTIVE ON/OFF SENSOR



SMW-AUTOBLOK Type	SENSOR Id.N. (*)
CYLINDRICAL SENSOR M8x1 L=30	0E012802

(*) Id.n. refers to n.1 sensor. for more details ask the data sheet.

ANALOGIC LINEAR SENSOR



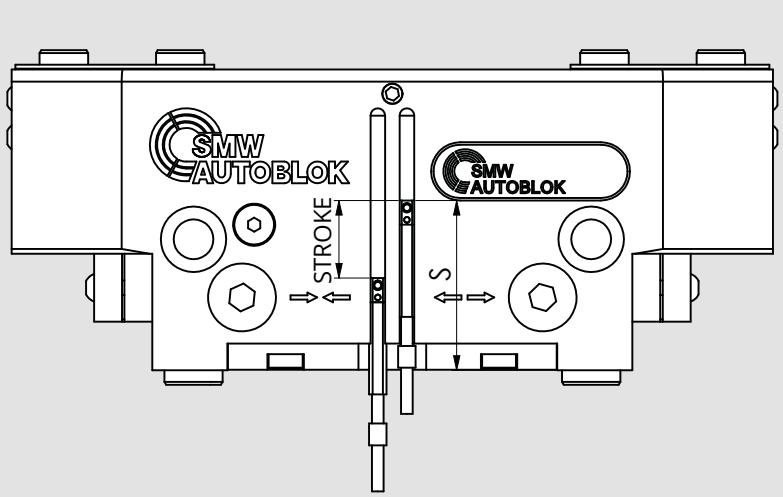
SMW-AUTOBLOK Type	SENSOR Id.N. (*)	DOWEL Id.N. (**)
CYLINDRICAL SENSOR M8x1 L=40	0E012810	92262163

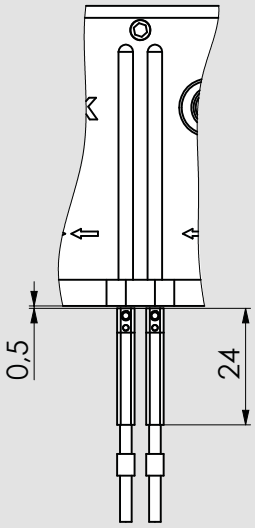
(*) For more details ask the data sheet.
(**) analogic sensor used must be specified in case of order to mount the right dowel.

Drawings and data are subject to change by SMW-Autoblok.

SENSORS for 2PXS 2PXM 2PXL GRIPPERS

MAGNETIC ON/OFF SENSOR

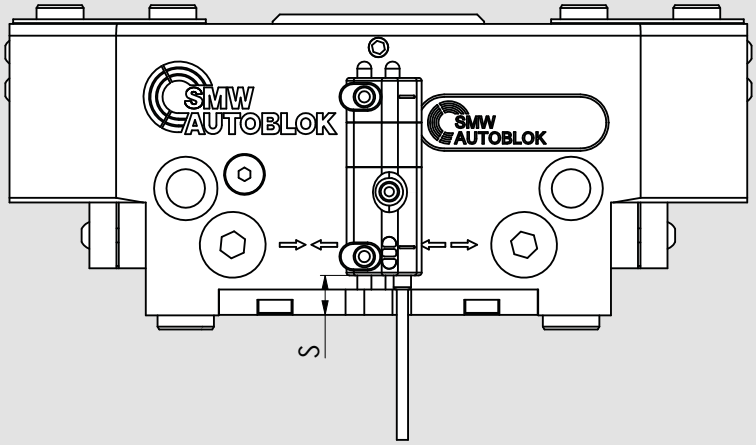


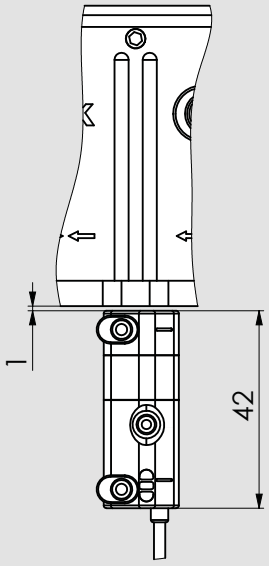


SMW-AUTOBLOK Type	SENSOR Id.N. (*)
MAGNETIC SENSOR Balluff**	BMF00P0

(*) Id.n. refers to n.1 sensor. for more details ask the data sheet.
(**) or similars

MAGNETIC LINEAR SENSOR



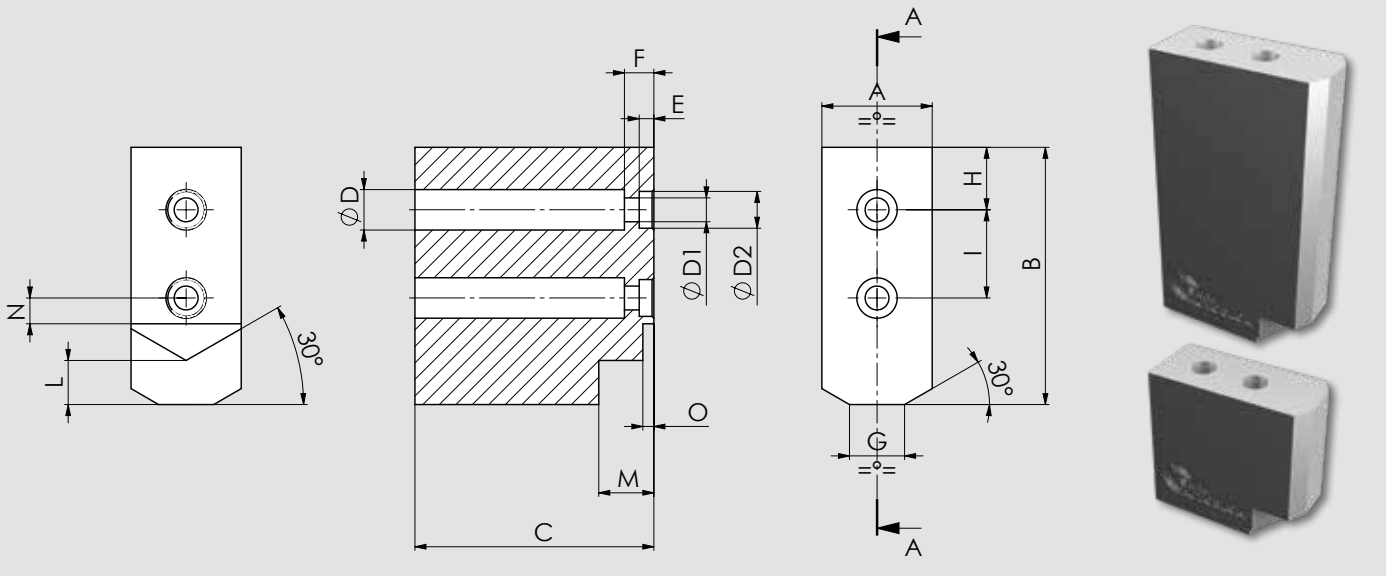


SMW-AUTOBLOK Type	SENSOR Id.N. (*)
ANALOGIC MAGNETIC SENSOR Balluff**	BMP0008

(*) for more details ask the data sheet.
(**) or similars

Drawings and data are subject to change by SMW-Autoblok.

ALUMINIUM FINGERS
for grippers



GRIPPER SIZE	ID. NO.	MAT.	A	B	C	Ø D	Ø D1	Ø D2	E	F	G	H	I	L	M	N	O	CLAMPING RANGE		WEIGHT (kg)
																		NORMAL STROKE	LONG STROKE	
PL 64 2PXS 64	92720663	AL	20	40	35	8	4,5	6	3,5	6	1	11	13	8	11	4	3	0 - 2,5	0 - 8,5	0,057
	92730663				64															0,108
3MN 64 3PXS 64	92720663				35													3 - 9	3 - 15	0,057
	92730663				64															0,108
PL 80 2PXS 80	92720863	AL	25	45	45	9	5,5	8	3,5	7	6	10	16	8	11	5	3	0 - 7	0 - 15	0,108
	92730863				80															0,2
3MN 80 3PXS 80	92720863				45													6 - 14	6 - 22	0,108
	92730863				80															0,2
PL 100 2PXS 100	92721063	AL	25	55	55	11	6,5	10	4	8	10	12	20	8	11	6	3	1 - 11	1 - 21,5	0,16
	92731063				100															0,3
3MN 100 3PXS 100	92721063				55													9 - 19	9 - 29	0,16
	92731063				100															0,3
2PXM 125	92721263	AL	30	70	65	11	6,5	10	4	8	15	17	24	12	15	7	3	3 - 15,5	3 - 29,5	0,31
	92731263				125															0,61
3MN 125 3PXM 125	92721263				65													12 - 24	12 - 38	0,31
	92731263				125															0,61
2PXM 160	92721663	AL	30	80	80	17	11	14	5	11	15	11	32	10	14	9	4	3 - 19	3 - 36,5	0,4
	92731663				160															0,81
3MN 160 3PXM 160	92721663				80													16 - 32	16 - 48	0,4
	92731663				160															0,81
2PXM 200	92722063	AL	40	100	100	20	13	16	5	13	20	20	40	15	18	9,5	4	0 - 25	0 - 46	0,87
	92732063				200															1,76
3MN 200 3PXM 200	92722063				100													18 - 46	18 - 68	0,87
	92732063				200															1,76
2PXL 250	92722563	AL	40	120	120	20	13	16	5	13	20	26	44	15	18	10	4	0 - 28	0 - 53,5	1,3
	92732563				220															2,4
3MN 250 3PXL 250	92722563				120													14 - 48	14 - 74	1,3
	92732563				220															2,4

Drawings and data are subject to change by SMW-Autoblok.