3PXS

3 jaws self-centering grippers Ø64-80-100

ALUMINIUM

Pneumatics

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 IP40
- Highest rigidity and Repeatability: 0,01 mm
- Prepared for Air purge

OPTIONAL:

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

Applications /Customer benefits

- Compact and light design
- O.D. and I.D. (also with springs versions)
- 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 (cm³)	Pressure (bar) min./max.	Closing/ Opening time (s) at 6 bar	Weight (Kg)	Workpiece weight recommended (Kg)	e (mm) min. /max.	R1 (mm) min. /max.	R2 (mm) min. /max.
3PXS-N 64	77920407	130	-----	3	19,5	2/8	0,03/0,03	0,5	6,5	17,5/20,5	39/42	13,5/16,5
3PXS-NSE 64	77920507	160	30	3	36	4/6,5	0,05/0,03	0,6	6,5	17,5/20,5	39/42	13,5/16,5
3PXS-NSI 64	77920607	179	30	3	38,5	4/6,5	0,03/0,05	0,6	6,5	17,5/20,5	39/42	13,5/16,5
3PXS-L 64	77920107	63	-----	6	19,5	2/8	0,03/0,03	0,5	3,0	17,5/23,5	36/42	13,5/19,5
3PXS-LSE 64	77920207	78	15	6	36	4/6,5	0,05/0,03	0,6	3,0	17,5/23,5	36/42	13,5/19,5
3PXS-LSI 64	77920307	85	15	6	38,5	4/6,5	0,03/0,05	0,6	3,0	17,5/23,5	36/42	13,5/19,5
3PXS-N 80	77920409	235	-----	4	45,5	2/8	0,05/0,05	0,8	11,5	22/26	47,5/51,5	17/21
3PXS-NSE 80	77920509	305	70	4	78,5	4/6,5	0,06/0,04	1	11,5	22/26	47,5/51,5	17/21
3PXS-NSI 80	77920609	327	70	4	81,5	4/6,5	0,04/0,06	1	11,5	22/26	47,5/51,5	17/21
3PXS-L 80	77920109	110	-----	8	45,5	2/8	0,05/0,05	0,8	5,5	22/30	43,5/51,5	17/25
3PXS-LSE 80	77920209	140	30	8	78,5	4/6,5	0,06/0,04	1	5,5	22/30	43,5/51,5	17/25
3PXS-LSI 80	77920309	150	30	8	81,5	4/6,5	0,04/0,06	1	5,5	22/30	43,5/51,5	17/25
3PXS-N 100	77920411	410	-----	5	94,5	2/8	0,12/0,12	1,7	20,0	27,5/32,5	59/64	21,5/26,5
3PXS-NSE 100	77920511	545	135	5	171	4/6,5	0,22/0,12	2	20,0	27,5/32,5	59/64	21,5/26,5
3PXS-NSI 100	77920611	573	135	5	176	4/6,5	0,12/0,22	2	20,0	27,5/32,5	59/64	21,5/26,5
3PXS-L 100	77920111	195	-----	10	94,5	2/8	0,12/0,12	1,7	9,5	27,5/37,5	54/64	21,5/31,5
3PXS-LSE 100	77920211	260	65	10	171	4/6,5	0,22/0,12	2	9,5	27,5/37,5	54/64	21,5/31,5
3PXS-LSI 100	77920311	273	65	10	176	4/6,5	0,12/0,22	2	9,5	27,5/37,5	54/64	21,5/31,5

Note:
3PXS-N: Normal stroke 3PXS-L: Long stroke 3PXS-NS: Normal stroke with springs 3PXS-LS: Long stroke with springs 3PXS-..E/I: OD / ID Clamping

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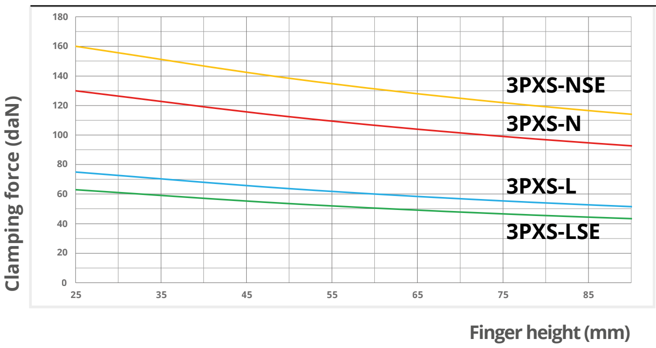
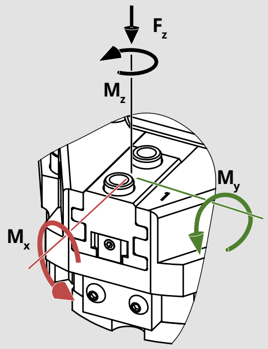
3PXS



Clamping force calculated **at 6 bar**.
Max. recommended fingers height: **90 mm**
Max. Fingers weight: **0,4 Kg**
For I.D. clamping consider **+10%** of the clamping force shown in the diagram.
Use connecting screws **class 12.9**

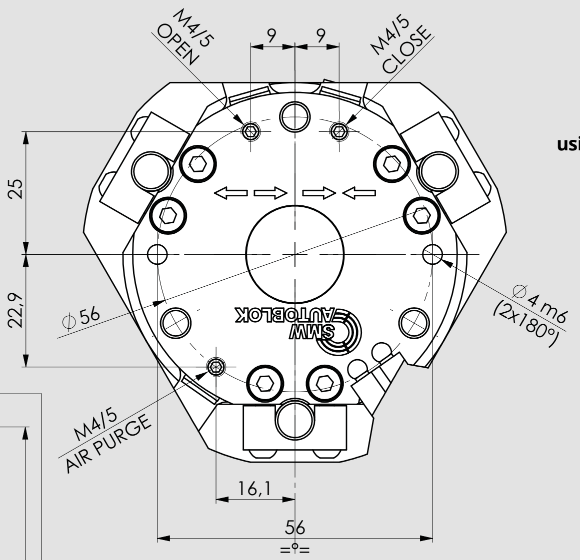


- M_x max. 45 Nm*
- M_y max. 60 Nm*
- M_z max. 40 Nm*
- F_z max. 1100 N*

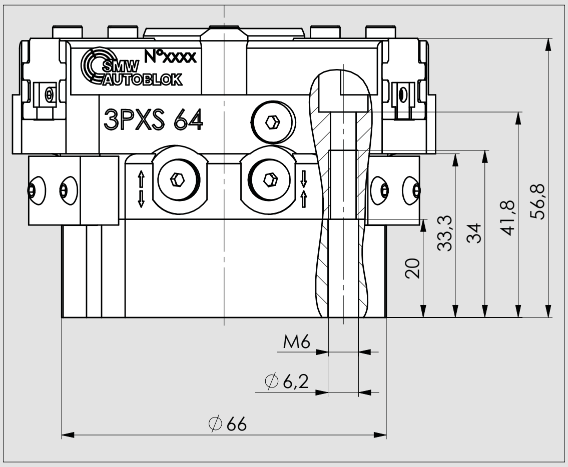
* THE MOMENTS OF INERTIA INDICATED REFER TO ONE JAW AND CAN BE OCCUR SIMULTANEOUSLY. THE M_y MOMENT CAN BE ADDED TO THE CLAMPING FORCE MOMENT.

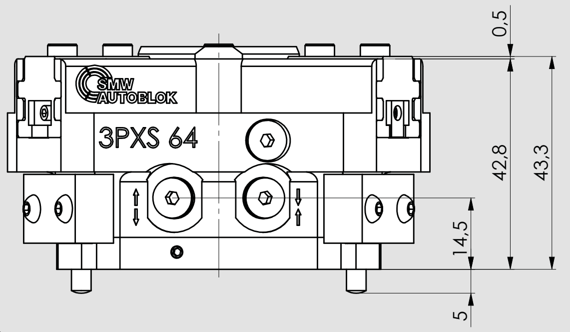
+ 10°C + 70°C

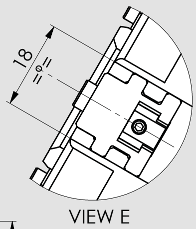
maximum allowed temperature using proximities is 60°C

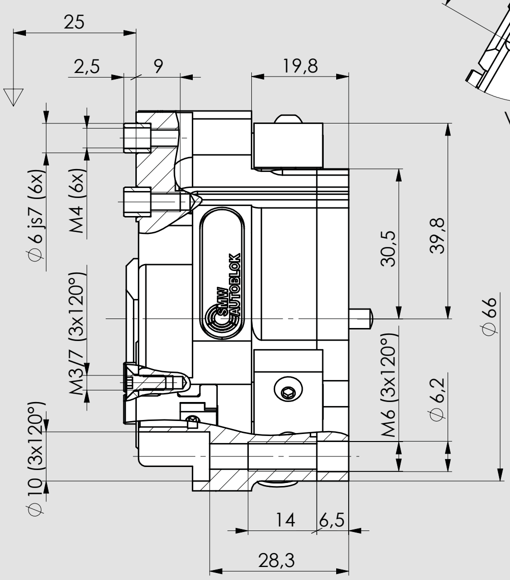


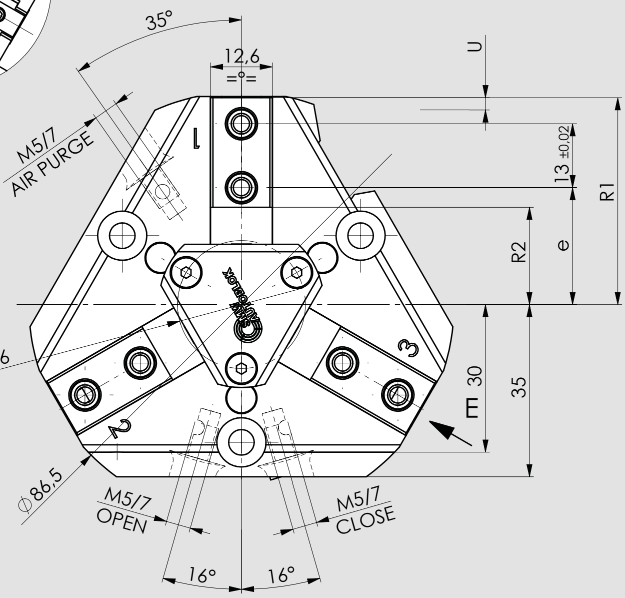
3PXS-LSE 3PXS-LSI 3PXS-NSE 3PXS-NSI











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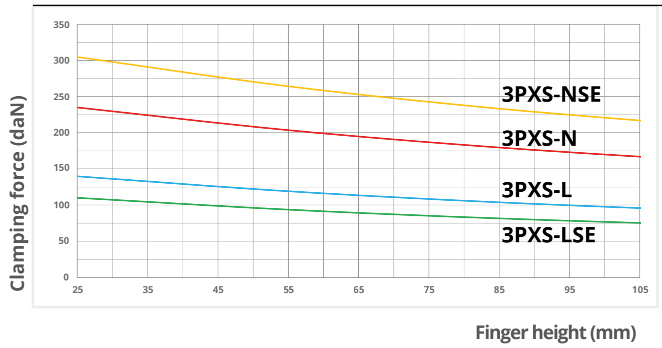
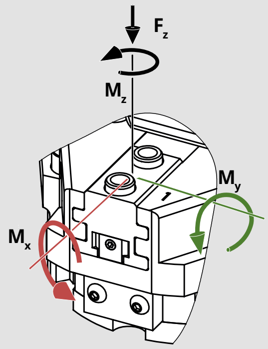
3PXS



Clamping force calculated **at 6 bar**.
Max. recommended fingers height: **105 mm**
Max. Fingers weight: **0,6 Kg**
For I.D. clamping consider **+7%** oof the clamping force shown in the diagram.
Use connecting screws **class 12.9**

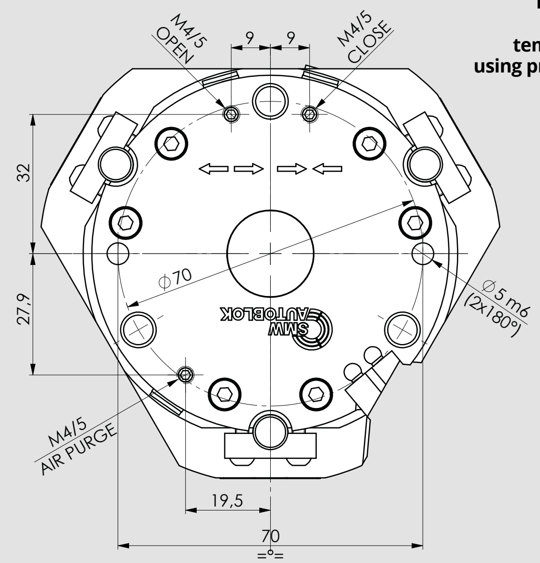


- **M_x** max. 60 Nm*
- **M_y** max. 95 Nm*
- **M_z** max. 55 Nm*
- **F_z** max. 1550 N*

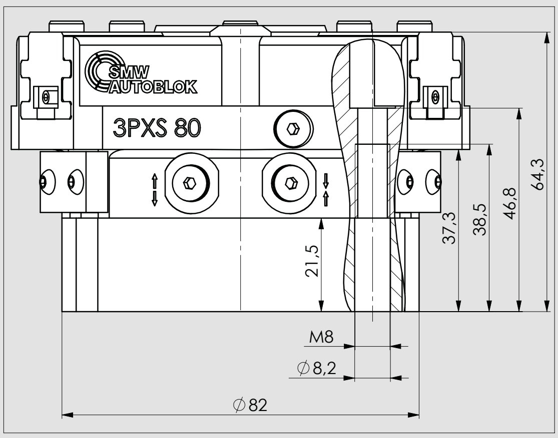
* THE MOMENTS OF INERTIA INDICATED REFER TO ONE JAW AND CAN BE OCCUR SIMULTANEOUSLY. THE **M_y** MOMENT CAN BE ADDED TO THE CLAMPING FORCE MOMENT.

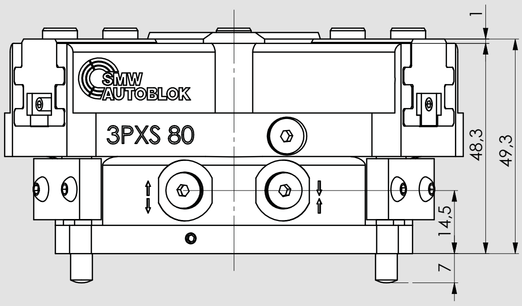
+ 10°C + 70°C

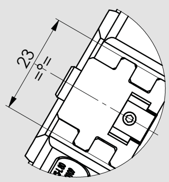
maximum allowed temperature using proximities is 60°C

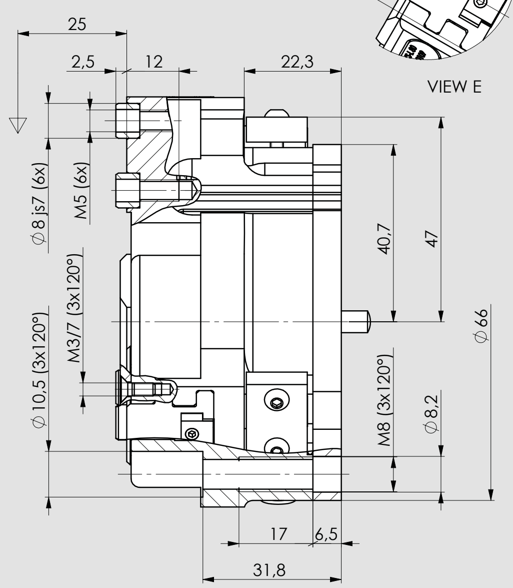


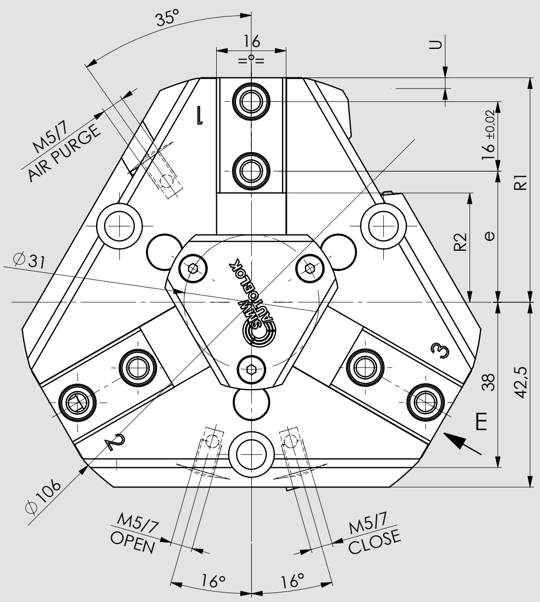
3PXS-LSE 3PXS-LSI 3PXS-NSE 3PXS-NSI











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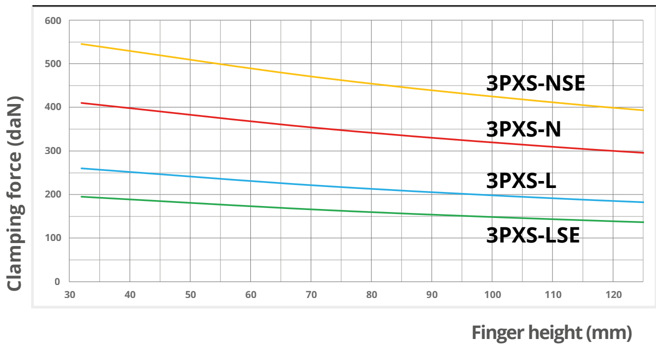
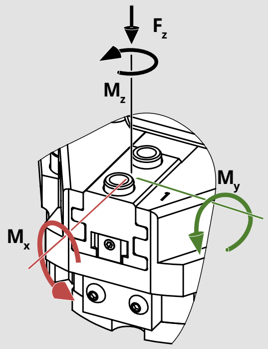
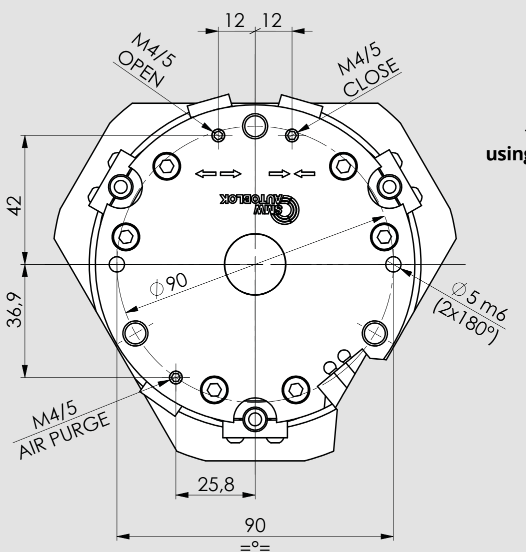


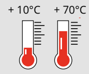
Clamping force calculated **at 6 bar**.
Max. recommended fingers height: **125 mm**
Max. Fingers weight: **1,1 Kg**
For I.D. clamping consider **+5%** of the clamping force shown in the diagram.
Use connecting screws **class 12.9**



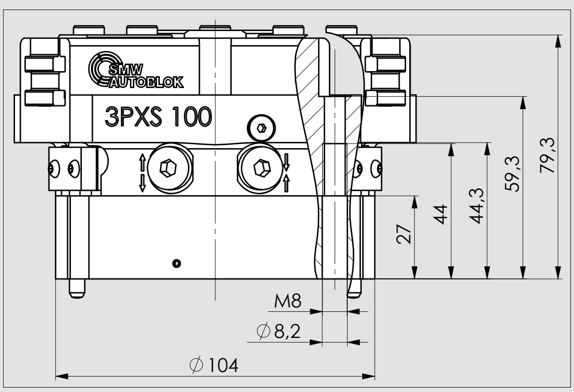
- M_x max. 85 Nm*
- M_y max. 115 Nm*
- M_z max. 70 Nm*
- F_z max. 2100 N*

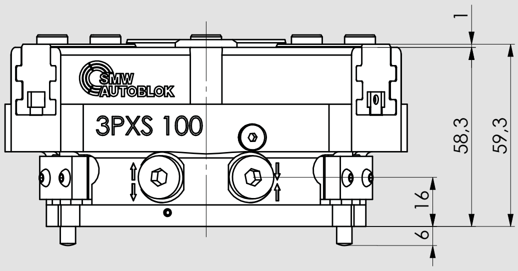
* THE MOMENTS OF INERTIA INDICATED REFER TO ONE JAW AND CAN BE OCCUR SIMULTANEOUSLY. THE M_y MOMENT CAN BE ADDED TO THE CLAMPING FORCE MOMENT.

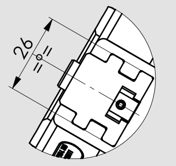




maximum allowed temperature using proximities is 60°C







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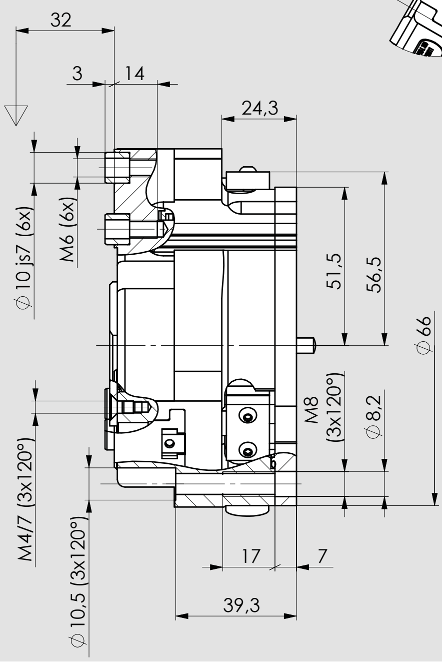

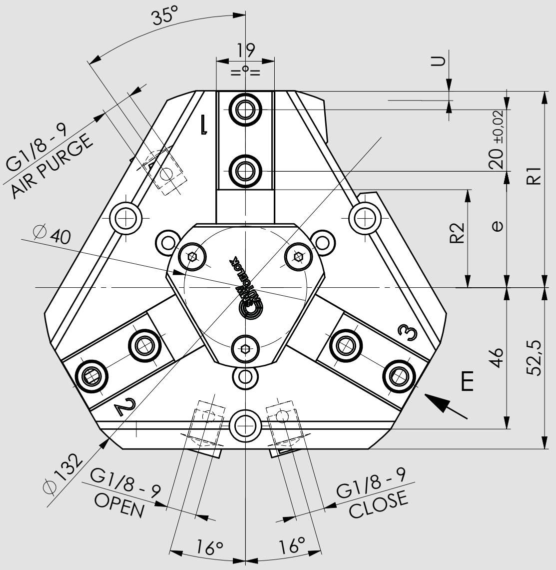

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