



Application/customer benefits

- Compact and light design and high gripping force
- ID and OD clamping
- Integrated greasing system on base jaw (use SMW-AUTOBLOK K67 grease)

Technical features

- Aluminum housing
- Protection class: IP40
- Functional parts heat-treated for high precision and long life
- Highest rigidity and repeatability: 0,01 mm
- Prepared for Air purge
- Optional: Spring workstop, Pneumatic stroke control valve, Sensor package

Standard equipment

Gripper with centering sleeves and mounting bolts (without gripper fingers and sensors)

3PXS

Centering sleeves

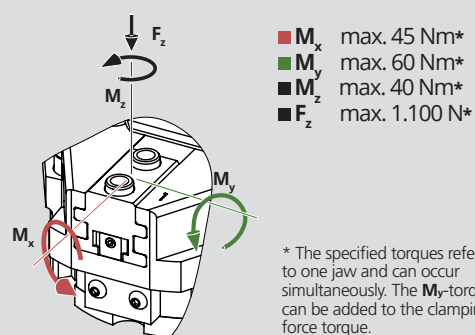


Lightweight housing

Prepared for
end position query or
position monitoring
via inductive sensors IPS 4.0

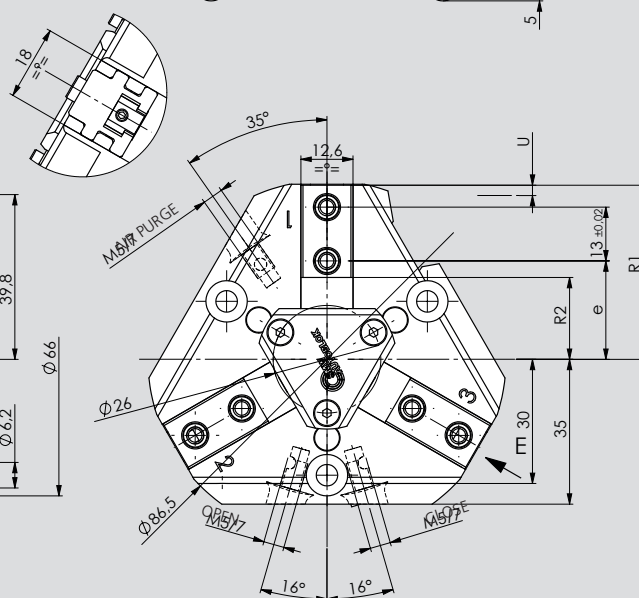
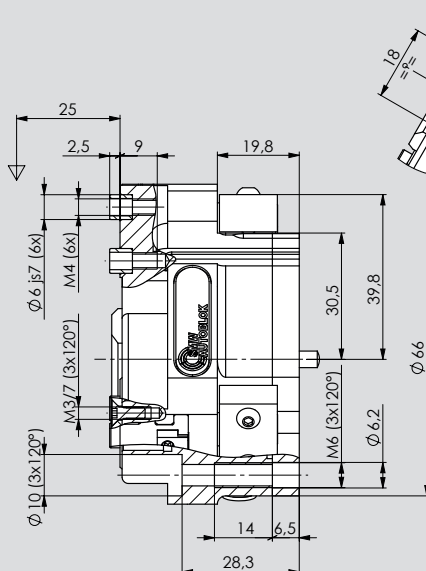
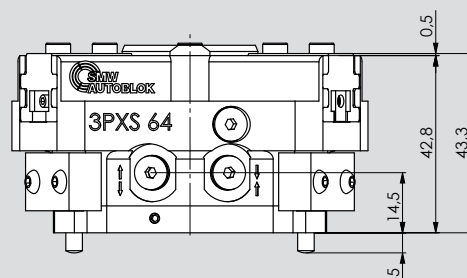
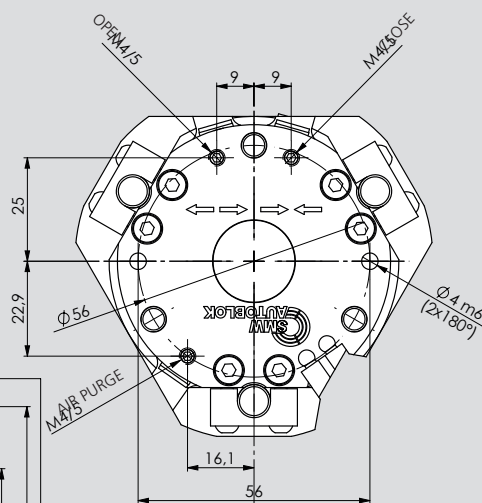
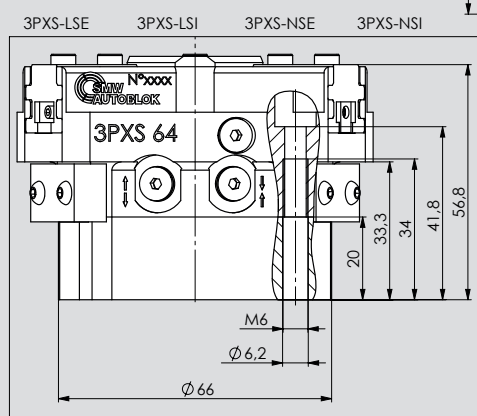
Base jaw with standardized
screw-on pattern
for mounting gripper fingers

Stabile guide



* The specified torques refer to one jaw and can occur simultaneously. The M_y -torque can be added to the clamping force torque.

max allowed
temperature
using proximities
is 60°C



Subject to technical changes.
For more detailed information please ask our customer service.

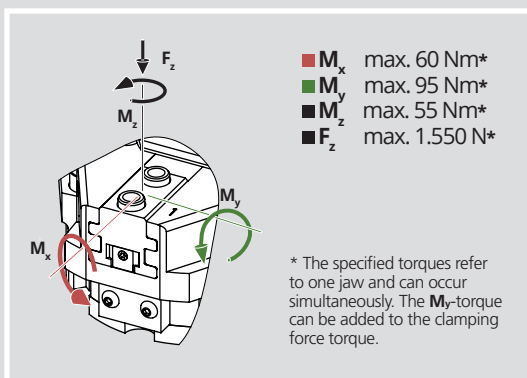
Type	Id. No.	Gripping force (N) at 6 bar	Spring force min. (N)	U (mm) jaw stroke	Air volume (cm³)	Pressure (bar) min./max.	Opening / Closing time (s) at 6 bar	Weight (Kg)	Recommended Workpiece weight (Kg)	e (mm) min./max.	R1 (mm) min./max.	R2 (mm) min./max.
3PXS-N 64	77920407	1.300	-----	3	19,5	2/8	0,03/0,03	0,5	6,5	17,5/20,5	39/42	13,5/16,5
3PXS-NSE 64	77920507	1.600	300	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	1.790	300	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	630	-----	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	780	150	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	850	150	6	38,5	4/6,5	0,03/0,05	0,6	3,0	17,5/23,5	36/42	13,5/19,5

LSI/LSE, NSE/NSI = gripping force retention (E = external clamping, I = internal clamping), L = long stroke, N = normal stroke

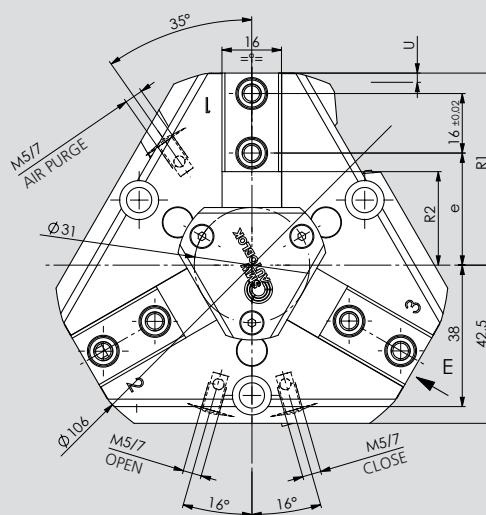
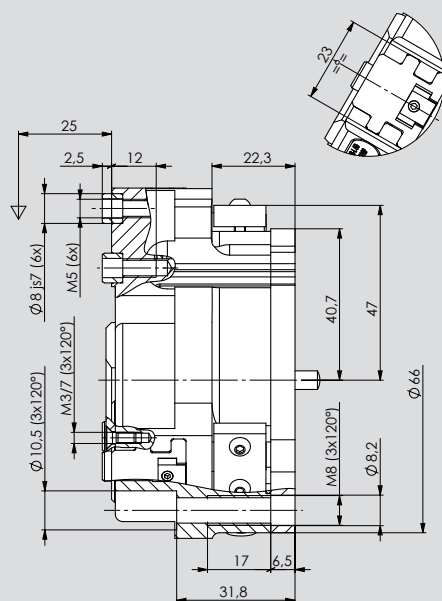
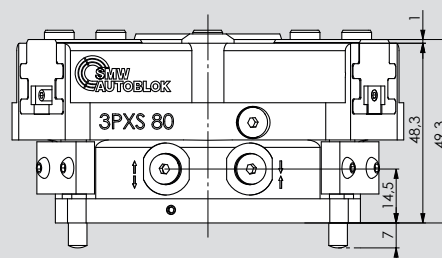
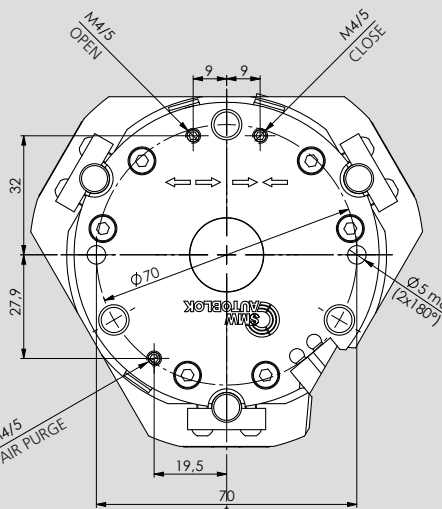
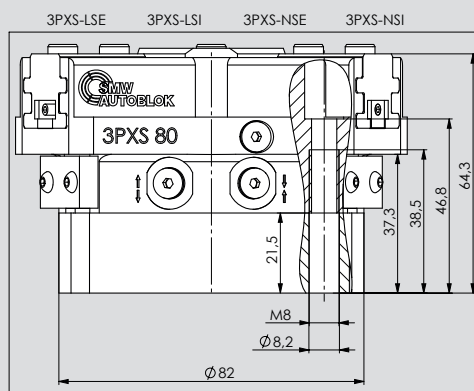
Centric gripper

Pneumatic gripper

Dimension and technical data



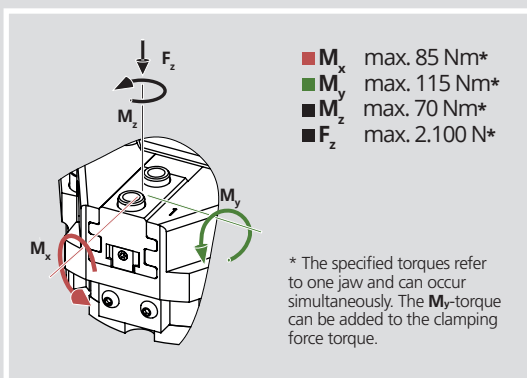
max allowed
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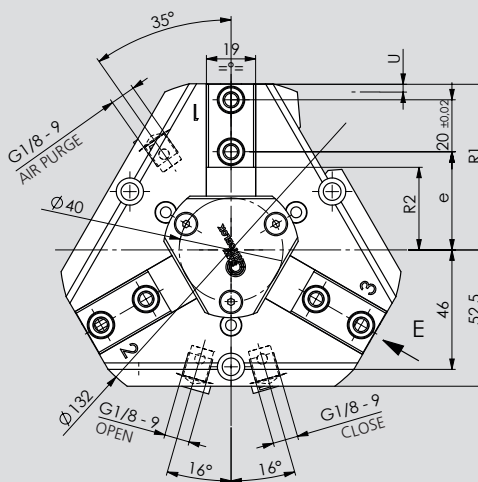
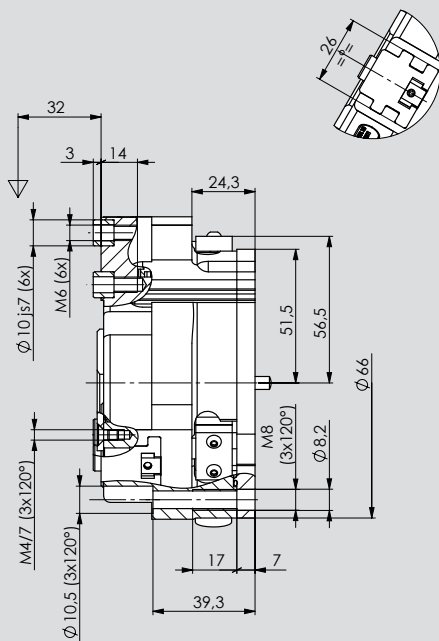
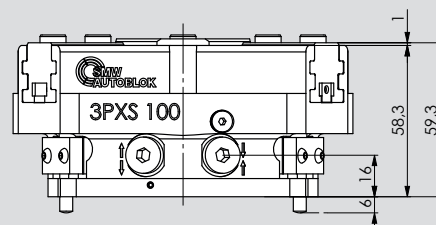
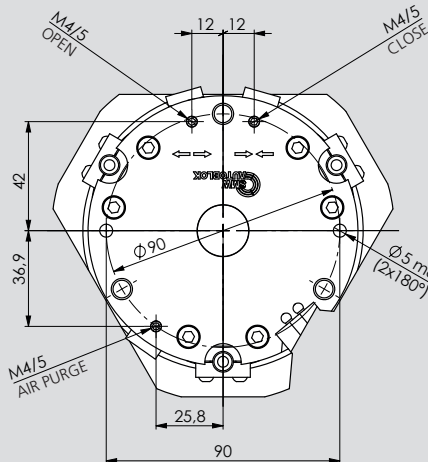
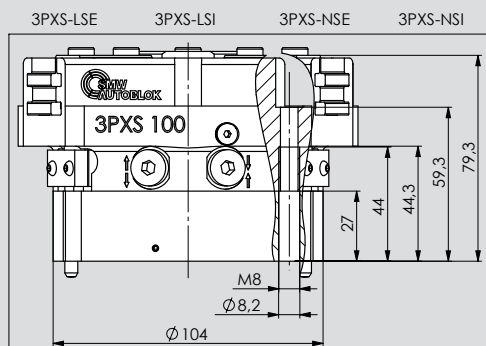
Subject to technical changes.
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Type	Id. No.	Gripping force (N) at 6 bar	Spring force min. (N)	U (mm) jaw stroke	Air volume (cm³)	Pressure (bar) min./max.	Opening / Closing time (s) at 6 bar	Weight (Kg)	Recommended Workpiece weight (Kg)	e (mm) min./max.	R1 (mm) min./max.	R2 (mm) min./max.
3PXS-N 80	77920409	2.350	-----	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	3.050	700	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	3.270	700	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	1.100	-----	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	1.400	300	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	1.500	300	8	81,5	4/6,5	0,04/0,06	1	5,5	22/30	43,5/51,5	17/25

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max allowed temperature using proximities is 60°C

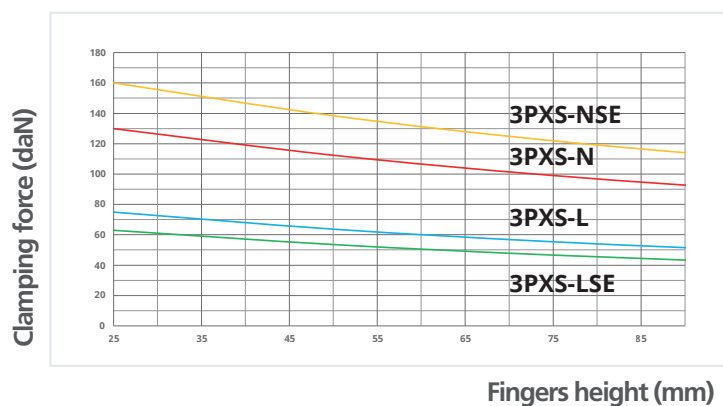


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Type	Id. No.	Gripping force (N) at 6 bar	Spring force min. (N)	U (mm) jaw stroke	Air volume (cm³)	Pressure (bar) min./max.	Opening / Closing time (s) at 6 bar	Weight (Kg)	Recommended Workpiece weight (Kg)	e (mm) min./max.	R1 (mm) min./max.	R2 (mm) min./max.
3PXS-N 100	77920411	4.100	-----	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	5.450	1.350	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	5.730	1.350	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	1.950	-----	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	2.600	650	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	2.730	650	10	176	4/6,5	0,12/0,22	2	9,5	27,5/37,5	54/64	21,5/31,5

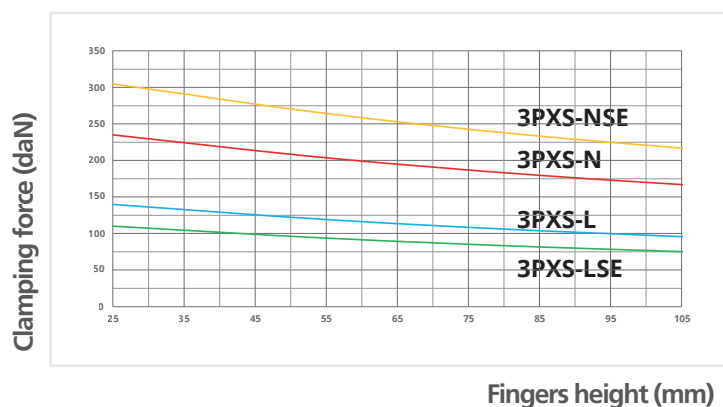
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CLAMPING FORCE DIAGRAM 3PXS 64



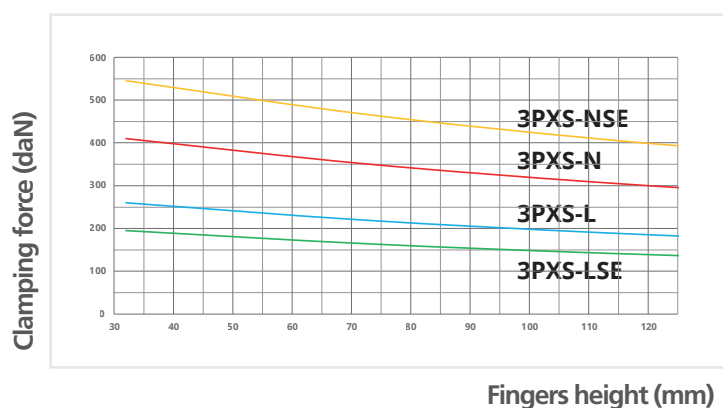
- Clamping force calculated at **6 bar**.
- Max. recommended fingers height: **90 mm**
- Max. fingers weight: **0,4 Kg**
- For I.D. clamping consider **+10%** of the clamping force shown in the diagram.
- Use connecting screws class **12.9**

CLAMPING FORCE DIAGRAM 3PXS 80



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

CLAMPING FORCE DIAGRAM 3PXS 100



- 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**