

Self-centering pneumatic gripper (series X)

XA-...: 2 jaw angular gripper.

- Excellent cost/performance ratio.
- Light weight, due to its alloy and plastic resin construction.
- Gripper mounting possible on two sides.
- Optional magnetic sensors.



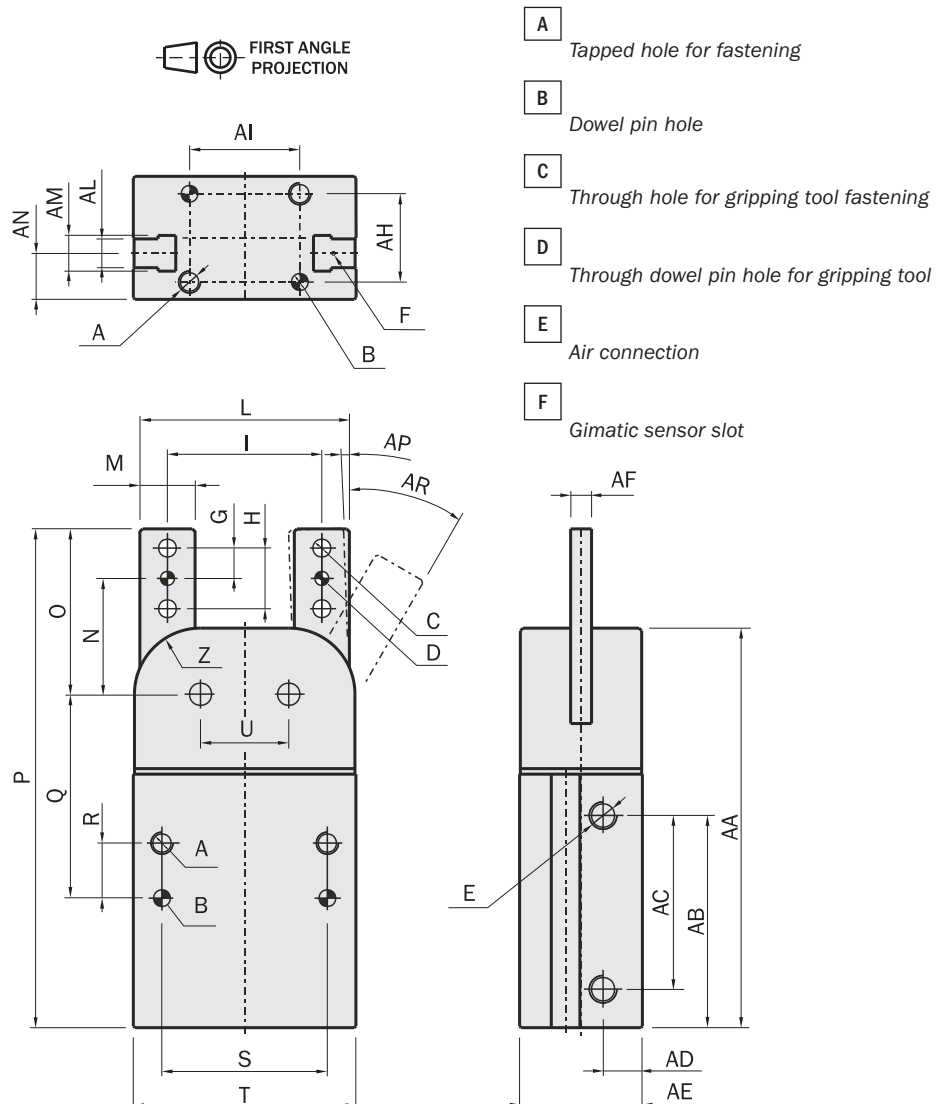
XA-26

XA-20

	XA-20	XA-26
Fluido Medium	Aria compressa filtrata, lubrificata / non lubrificata Filtered, lubricated / non lubricated compressed air	
Pressione di esercizio Operating pressure range	2 ÷ 8 bar	
Temperatura di esercizio Operating temperature range	5 ÷ 60 °C.	
Coppia per griffa in chiusura a 6 bar Closing torque at 6 bar on each jaw	46 Ncm	79 Ncm
Coppia totale in chiusura a 6 bar Closing torque force at 6 bar	92 Ncm	158 Ncm
Coppia per griffa in apertura a 6 bar Opening torque at 6 bar on each jaw	50 Ncm	85 Ncm
Coppia totale in apertura a 6 bar Opening torque force at 6 bar	100 Ncm	170 Ncm
Corsa Stroke (±2°)	2 x 30°	2 x 32°
Frequenza max funzionamento continuativo Maximum working frequency	3 Hz	2 Hz
Consumo d'aria per ciclo Cycle air consumption	6 cm ³	11 cm ³
Tempo di chiusura senza carico Closing time without load	0.02 s	0.03 s
Ripetibilità Repetition accuracy	0.04°	0.04°
Peso Weight	140 g	250 g

Dimensioni (mm)

	XA-20	XA-26
A	M4x6	M5x10
B	Ø3x6	Ø4x8
C	Ø3.2	Ø4.3
D	Ø2.5H8	Ø3H8
G	5.5	6
H	11	12
I	28	31
L	38	45
M	10	14
N	21	25.7
O	30	36.7
P	90.5	95.1
Q	37	42.4
R	10	12
S	30	36
T	40.4	50.4
U	16	19.3
Z	R=12	R=16
AA	72.5	73.6
AB	38.5	36.5
AC	31.5	30
AD	7.15	10.15
AE	22.3	30.3
AF	3.8	5.4
AH	16	21
AI	20	25
AL		5.2
AM		6.5
AN	8.35	11.15
AP	4°	2°
AR	26°	30°



Safety loads

Check the table for maximum permitted loads.

Excessive forces or torques can damage the gripper, cause functioning troubles and endanger the safety of the operator.

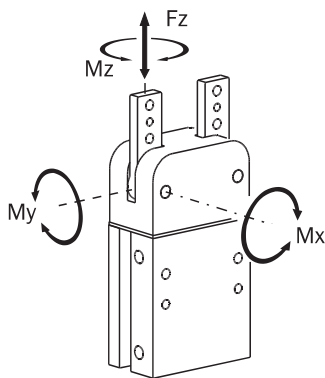
$F_x s$, $F_y s$, $F_z s$, $M_x s$, $M_y s$, $M_z s$, are maximum permitted static loads. Static means with motionless jaws.

$F_x d$, $F_y d$, $F_z d$, $M_x d$, $M_y d$, $M_z d$, are maximum permitted dynamic loads. Dynamic means with running jaws.

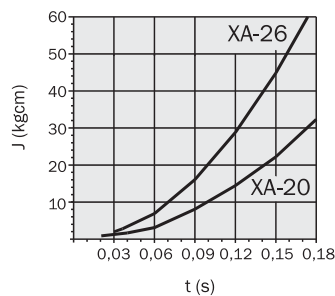
The following table shows the specified maximum loads (m) on each gripping tool as a function of closing or opening time.

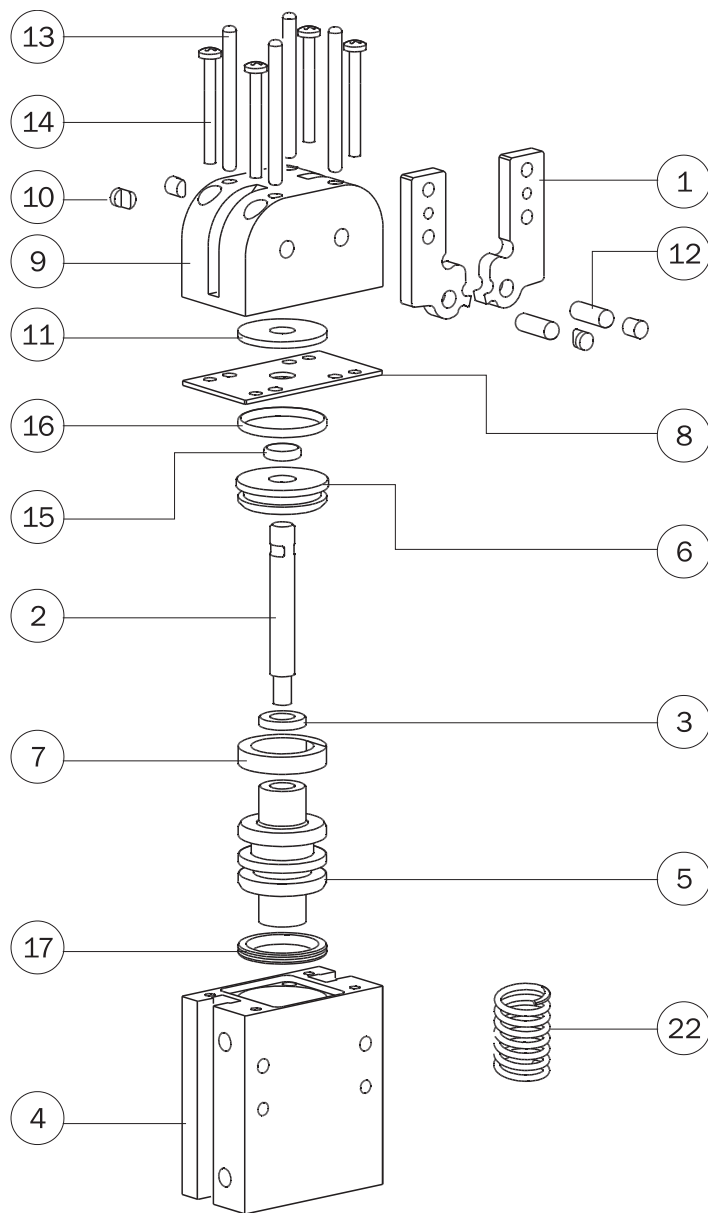
The graphs show the maximum permitted moment of inertia on each gripping tool (J), as a factor of the opening or closing time (t).

Use flow controllers (not supplied) to get the proper speed.



	XA-20	XA-26	XR-20	XR-26
$F_z s$	60 N	90 N	80 N	120 N
$M_x s$	1.4 Nm	2.8 Nm	3.2 Nm	6.4 Nm
$M_y s$	1.4 Nm	2.8 Nm	1.4 Nm	2.8 Nm
$M_z s$	1.4 Nm	2.8 Nm	1.4 Nm	2.8 Nm
J	$1000 \times t^2$	$2000 \times t^2$	$62.5 \times t^2$	$125 \times t^2$





		XA-20	XA-26		
1	Griffa	XA-20-1	XA-26-1	Jaw	1
2	Stelo	XA-20-2	XA-26-2	Piston rod	2
3	Distanziale	XA-20-3	XA-26-3	Spacer	3
4	Corpo pinza	XP-20-1	XP-26-1	Gripper housing	4
5	Pistone	XP-20-2	XP-26-2	Piston	5
6	Flangia	XP-20-3	XP-25-12	Flange	6
7	Magnete	XP-20-5	PS-0025-P07	Magnet	7
8	Separatore	XP-16-10	XP-25-10	Separator	8
9	Porta griffe	XR-16-2	XR-25-2	Jaw holder	9
10	Tappo	XR-16-4	XR-16-4	Plug	10
11	Disco	XR-16-5	XR-25-5	Disc	11
12	Spina di riferimento	Ø4x12 mm DIN 6325	Ø4x16 mm DIN 6325	Dowel pin	12
13	Spina di riferimento	Ø3x33.5 mm DIN 5402	Ø4x36 mm DIN 6325	Dowel pin	13
14	Vite	M2.5x25 mm DIN 7985A INOX A2	M4x25 mm DIN 912 INOX A2	Screw	14
15	O-Ring	Ø1.78x5.28 (GUAR-011)	Ø1.78x6.75 (GUAR-012)	O-Ring	15
16	O-Ring	Ø1.78x17.17 (GUAR-076)	Ø1.78x23.52 (GUAR-008)	O-Ring	16
17	Guarnizione dinamica	20x13x2.5 (GUAR-040P)	25x18x2.4 (GUAR-003M)	Dynamic gasket	17
18	Molla (solo NO/NC)	PAR-20-11B	PAR-25-11B	Spring (only NO/NC)	18