

Self-centering pneumatic gripper (series X)

- XP-...: 2 jaw parallel gripper.
- Double acting.
- Excellent cost/performance ratio.
- Light weight, due to its alloy and plastic resin construction.
- Gripper mounting possible on two sides.
- Optional magnetic sensors.



XP-26

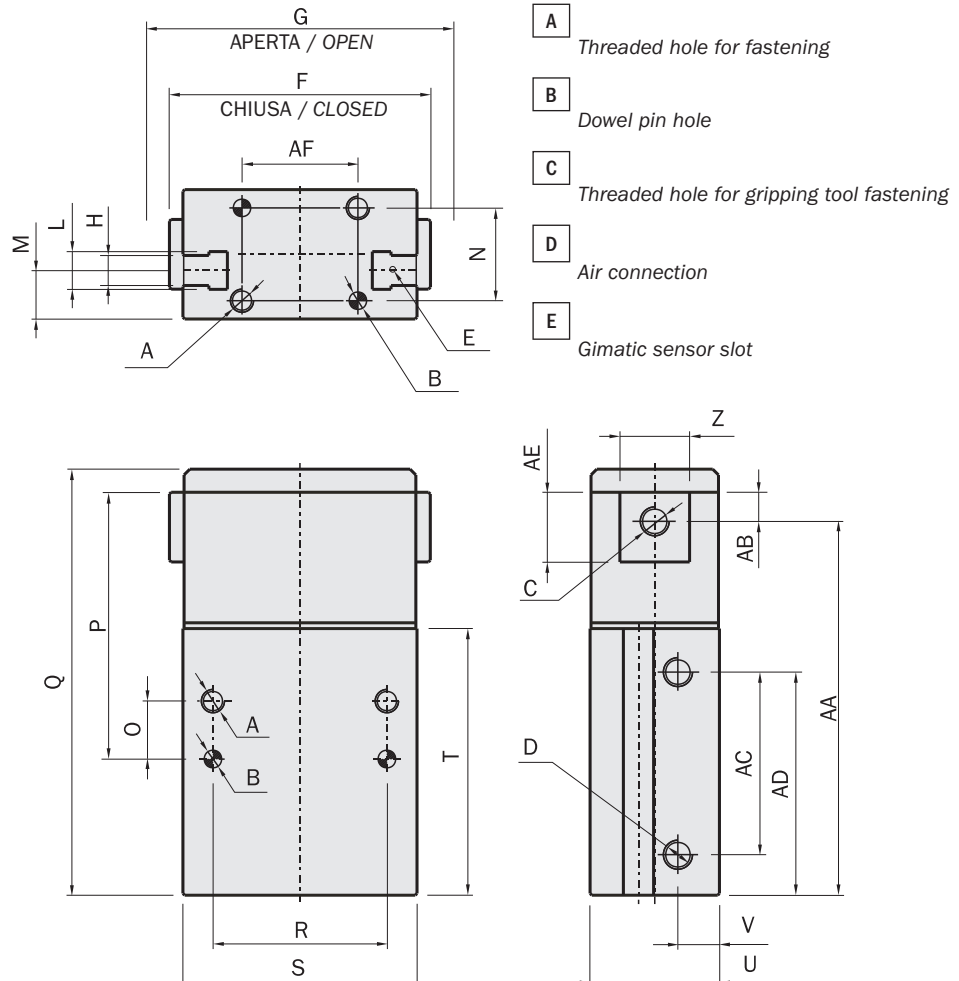


XP-20

	XP-20	XP-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.	
Forza di serraggio per griffa in chiusura a 6 bar Closing gripping force at 6 bar on each jaw	85 N	110 N
Forza di serraggio totale in chiusura a 6 bar Closing total gripping force at 6 bar	170 N	220 N
Forza di serraggio per griffa in apertura a 6 bar Opening gripping force at 6 bar on each jaw	100 N	120 N
Forza di serraggio totale in apertura a 6 bar Opening total gripping force at 6 bar	200 N	240 N
Corsa totale (±0.2 mm) Total stroke	8 mm	13.2 mm
Frequenza max funzionamento continuativo Maximum working frequency	3 Hz	2 Hz
Consumo d'aria per ciclo Cycle air consumption	7 cm ³	12 cm ³
Tempo di chiusura senza carico Closing time without load	0.02 s	0.05 s
Ripetibilità Repetition accuracy	0.02 mm	0.02 mm
Peso Weight	160 g	300 g



	XP-20	XP-26
A	M4x6	M5x10
B	Ø3x6	Ø4x6
C	M5x8	M6x9
D	M5	
E	SC - SL - SS - SN	
F	44.8	54.6
G	52.8	67.8
H	5.2	
L	6.5	
M	8.35	11.15
N	16	21
O	10	12
P	46	56
Q	73.5	77
R	30	36
S	40.4	50.4
T	46	42.8
U	22.3	30.3
V	7.15	10.15
Z	12	15
AA	64.5	65.5
AB	5	6.5
AC	31.5	30
AD	38.5	36.5
AE	12	15
AF	20	25



Safety loads

Check the table for maximum permitted loads.

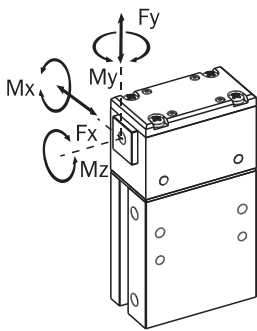
Excessive forces or torques can damage the gripper, cause functioning troubles and endanger the safety of the operator.

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

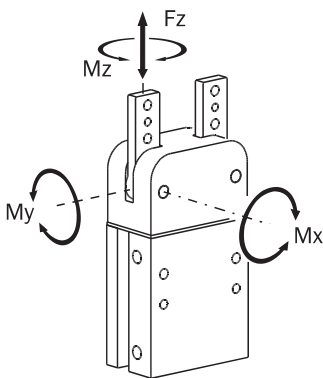
$F_x d$, $F_y d$, $F_z d$, $M_x d$, $M_y d$, $M_z d$, are maximum permitted dynamic loads. Dynamic means with running jaws.

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

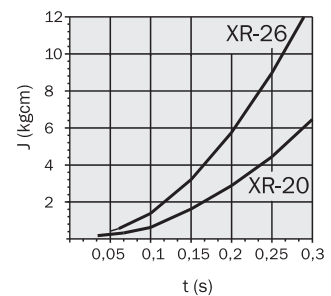
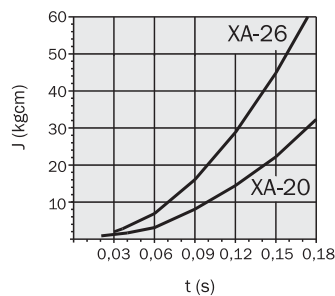
The graphs show the maximum permitted moment of inertia on each gripping tool (J), as a factor of the opening or closing time (t). Use flow controllers (not supplied) to get the proper speed.



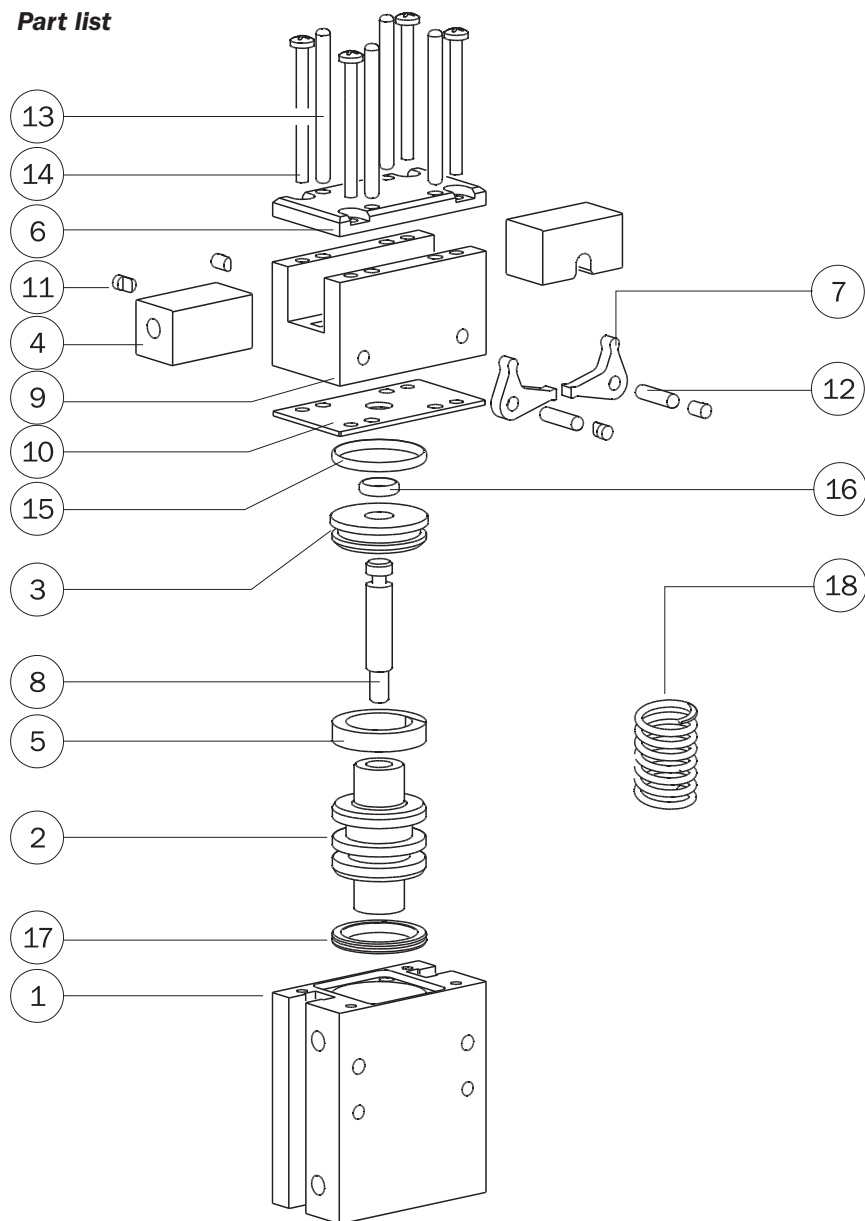
	XP-20	XP-26	XT-20	XT-26
$F_x s$	80 N	150 N	80 N	150 N
$F_y s$	60 N	100 N	60 N	100 N
$M_x s$	3 Nm	7.2 Nm	3 Nm	7.2 Nm
$M_y s$	2 Nm	5.5 Nm	2 Nm	5.5 Nm
$M_z s$	2 Nm	5.5 Nm	2 Nm	5.5 Nm
$F_x d$	1 N	2 N	1 N	2 N
$F_y d$	1 N	2 N	1 N	2 N
$M_x d$	3 Ncm	7.2 Ncm	3 Ncm	7.2 Ncm
$M_y d$	2 Ncm	5.5 Ncm	2 Ncm	5.5 Ncm
$M_z d$	2 Ncm	5.5 Ncm	2 Ncm	5.5 Ncm
m 0.1s	80 g	160 g	80 g	160 g
m 0.05s	60 g	100 g	60 g	100 g
m 0.02s	50 g	-	50 g	-



	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	$1000 \times t^2$	$2000 \times t^2$	$62.5 \times t^2$	$125 \times t^2$



Part list



		XP-20	XP-26		
1	Corpo pinza	XP-20-1	XP-26-1	Gripper housing	1
2	Pistone	XP-20-2	XP-26-2	Piston	2
3	Flangia	XP-20-3	XP-25-12	Flange	3
4	Griffa	XP-20-4	XP-26-3	Jaw	4
5	Magnete	XP-20-5	PS-0025-P07	Magnet	5
6	Copertura	XP-16-5	XP-25-5	Cover plate	6
7	Leva	XP-16-6	XP-25-6	Lever	7
8	Stelo	XP-16-7	XP-25-7	Piston rod	8
9	Porta griffe	XP-16-8	XP-25-8	Jaw holder	9
10	Separatore	XP-16-10	XP-25-10	Separator	10
11	Tappo	XP-16-11	XP-25-11	Plug	11
12	Spina di riferimento	Ø3x12 mm DIN 6325	Ø4x16 mm DIN 6325	Dowel pin	12
13	Spina di riferimento	Ø3x33.5 mm DIN 5402	Ø4x39.8 mm DIN 5402	Dowel pin	13
14	Vite	M2.5x30 mm DIN 7985A INOX A2	M4x40 mm DIN 7985A INOX A2	Screw	14
15	O-Ring	Ø1.78x17.17 (GUAR-076)	Ø1.78x23.52 (GUAR-008)	O-Ring	15
16	O-Ring	Ø1.78x5.28 (GUAR-011)	Ø1.78x6.75 (GUAR-012)	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