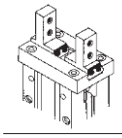
MHZ2 Series Interchangeable
Pneumatic Parallel Grippers

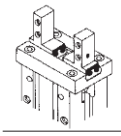
Ordering code

MHZ □ 2 - 10 D □ □ - M9PV

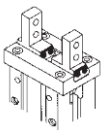
- **Type**
  - Blank: Standard
  - Type A: Small Type
  - L: Long Stroke Type
- **Number of fingers**
  - 2Pcs
- **Bore**
  - Φ10~Φ40mm
- **Action Type**
  - D: Double Action
  - S: Single Action (Normal Open)
  - C: Single Action (Normal Close)
- **Gripper options**
  - Basic type



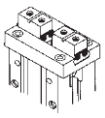
  - 1:Side tapped mounting



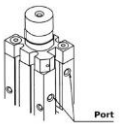
  - 2: Through-holes in opening/closing direction



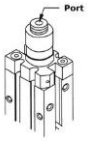
  - 3: Flat type fingers



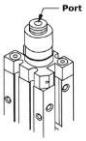
- **Claw options**
  - E: End boss type Side ported (Double acting/Single acting)



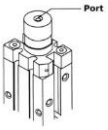
  - K: End boss type Axial ported with ø4 One-touch fitting (Single acting)



  - M: End boss type Axial ported with M5 port (Single acting)



  - W: End boss type Axial ported ø4 One-touch fitting for coaxial tubing (Double acting)



  - 1. MHZ2-32 and MHZ2-40 Option without claws
  - 2. There is no "W" variety in MHA2.
- **Magnet Model**
  - Blank: Without Magnet
  - Small Type (A) Without Magnet

Magnet Models:
M9N, M9NV, M9P, M9PV, F8N, M9B, M9BV
The length of the wire attached to the back of the magnetic switch model is indicated by the mark:
No mark -0.5m, L-3m, Z-5m

Bore (mm)		10	16	20	25	32	40
Working Medium		Air					
Action		Double Action / Single Action (Normal Open, Normal Close)					
Max. Operating Pressure		0.7 MPa					
Max. Operating Pressure	Double action	0.15 MPa	0.2 MPa	0.1 MPa			
	Single action	0.3 MPa	0.35 MPa	0.25 MPa			
Ambient & Medium Temperature		-10 - +60℃					
Highest Operating Frequency		180 c.p.m.				60 c.p.m.	
Precision		±0.01 mm				±0.02 mm	
With Magnet		With (Standard)					
Lubrication		Not required					
Port Size		M3×0.5				M3×0.8	

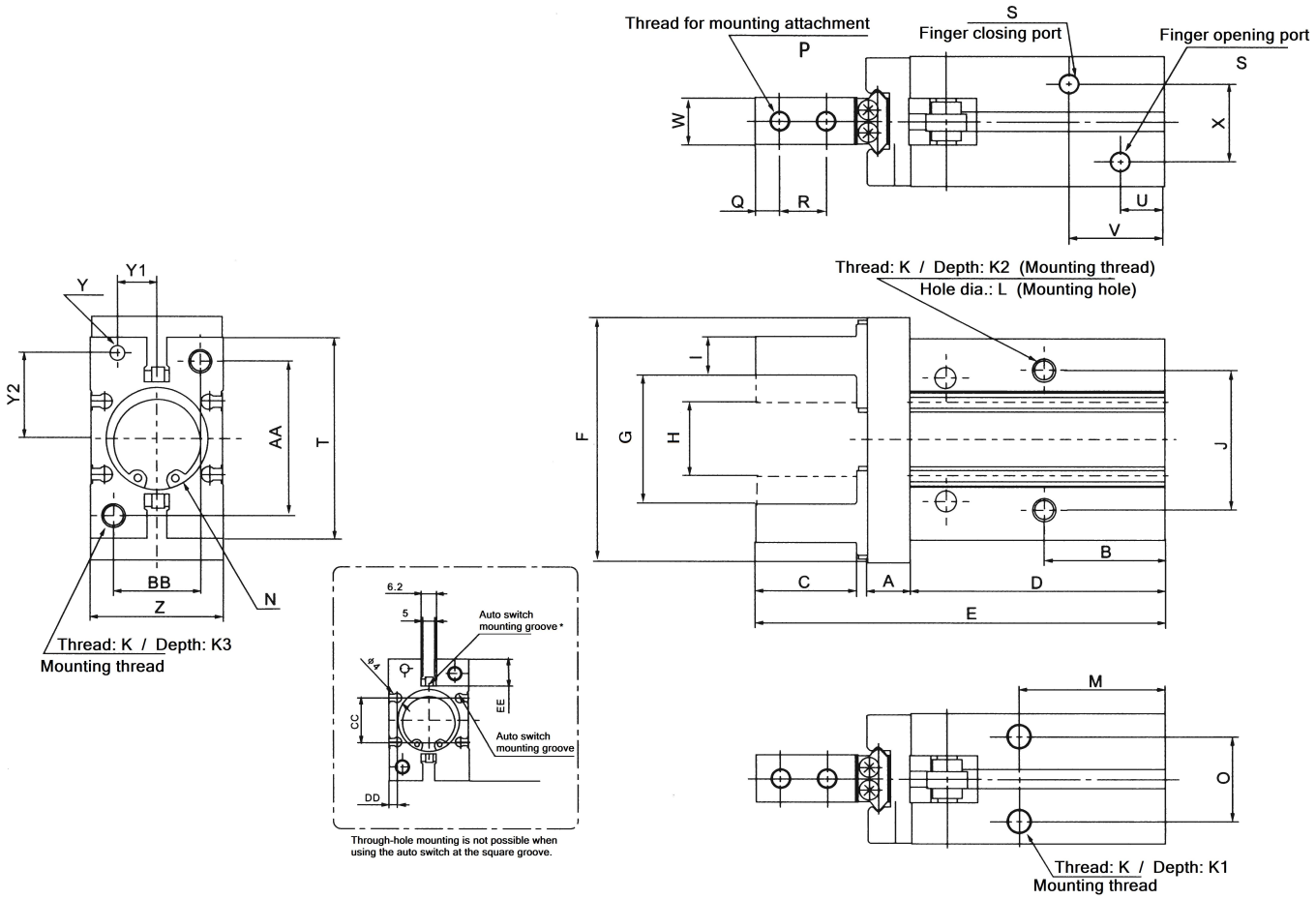
Standard Type Pneumatic Gripper

Action		Model	Clamping force N (effective value of each finger clamping force)		Opening and closing (both sides) mm
			Outer diameter clamping force	Inner diameter clamping force	
Double Action		MHZ2-10D	11	17	4
		MHZ2-16D	34	45	6
		MHZ2-20D	42	66	10
		MHZ2-25D	65	104	14
		MHZ2-32D	158	193	22
		MHZ2-40D	254	318	30
Single Action	Normal Open	MHZ2-10S	7,1	-	4
		MHZ2-16S	27		6
		MHZ2-20S	33		10
		MHZ2-25S	45		14
		MHZ2-32S	131		22
		MHZ2-40S	217		30
	Normal Close	MHZ2-10C	-	13	4
		MHZ2-16C		38	6
		MHZ2-20C		57	10
		MHZ2-25C		83	14
		MHZ2-32C		161	22
		MHZ2-40C		267	30

Long Stroke Pneumatic Gripper

Action		Model	Clamping force N (effective value of each finger clamping force)		Opening and closing (both sides) mm
			Outer diameter clamping force	Inner diameter clamping force	
Double Action		MHZL2-10D	11	17	8
		MHZL2-16D	34	45	12
		MHZL2-20D	42	66	18
		MHZL2-25D	65	104	22
Single Action	Normal Open	MHZL2-10S	7,1	-	8
		MHZL2-16S	27		12
		MHZL2-20S	33		18
		MHZL2-25S	50		22
	Normal Close	MHZL2-10C	-	13	8
		MHZL2-16C		38	12
		MHZL2-20C		57	18
		MHZL2-25C		85	22

Overall Dimensions



Bore	A	B	C	D	E	F	G	H	I	J	K	K1	K2	K3	ΦL	M	N	O
10	6	23	12	37.8	57	29	15.2 $^{+2.2}_{0}$	11.2 $^{0}_{-0.7}$	4 $^{0}_{-0.1}$	16	M3×0.5	6	5.5	6	2.6	27	Φ11H9 $^{+0.043}_{0}$ depth 2	11.4
16	7.5	24.5	15	42.5	67.3	38	20.9 $^{+2.2}_{0.2}$	14.9 $^{0}_{-0.7}$	5 $^{0}_{-0.1}$	24	M4×0.7	4.5	8	8	3.4	30	Φ17H9 $^{+0.043}_{0}$ depth 2	16
20	9.5	29	20	52.8	84.8	50	26.3 $^{+2.2}_{0.2}$	16.3 $^{0}_{-0.7}$	8 $^{0}_{-0.1}$	30	M5×0.8	8	10	10	4.3	35	Φ21H9 $^{+0.052}_{0}$ depth 3	18.6
25	11	30	25	63.6	102.7	63	33.3 $^{+2.5}_{0.2}$	19.3 $^{0}_{-0.8}$	10 $^{0}_{-0.1}$	36	M6×1	10	12	12	5.1	36.5	Φ29H9 $^{+0.052}_{0}$ depth 3.5	22
32	12	40(49)	29	67(76)	113(122)	97	48 $^{+2.5}_{0}$	26 $^{0}_{-0.5}$	12 $^{0}_{-0.1}$	46	M6×1	10	13	13	5.1	48(57)	Φ34H9 $^{+0.062}_{0}$ depth 4	26
40	15	49(62)	36	83(96)	139(152)	119	60 $^{+2.7}_{0}$	30 $^{0}_{-0.5}$	14 $^{0}_{-0.1}$	56	M8×1.25	13	16	17	6.6	58(71)	Φ42H9 $^{+0.062}_{0}$ depth 4	32

Bore	P	Q	R	S	T	U	V	W	X	Y	Z	Y1	Y2	AA	BB	CC	DD	EE
10	M2.5×0.45	3	5.7	M3×0.5	23	9	19	5 $^{0}_{-0.05}$	11	Φ2H9 $^{+0.025}_{0}$ depth 3	16.4±0.05	5.2±0.02	7.6±0.02	18	12	-	-	5.4
16	M3×0.5	4	7	M5×0.8	30.6	7.5	19	8 $^{0}_{-0.05}$	13	Φ3H9 $^{+0.025}_{0}$ depth 3	23.6±0.05	6.5±0.02	11±0.02	22	15	11.6	2.1	5.8
20	M4×0.7	5	9	M5×0.8	42	10	23	10 $^{0}_{-0.05}$	15	Φ4H9 $^{+0.003}_{0}$ depth 4	27.6±0.05	7.5±0.02	16.8±0.02	32	18	14	2.1	9
25	M5×0.8	6	12	M5×0.8	52	10.7	23.5	12 $^{0}_{-0.05}$	20	Φ4H9 $^{+0.003}_{0}$ depth 4	33.6±0.05	10±0.02	21.8±0.02	40	22	19	3.5	11.5
32	M6×1	7	14	M5×0.8	60	11	31(37)	15 $^{0}_{-0.05}$	24	Φ5H9 $^{+0.003}_{0}$ depth 5	40±0.1	12±0.02	23±0.02	46	26	24	3.3	11.5
40	M8×1.25	9	17	M5×0.8	72	12	38(45)	18 $^{0}_{-0.05}$	28	Φ5H9 $^{+0.003}_{0}$ depth 5	48±0.1	14±0.02	29±0.02	56	32	29.4	3.7	13