



Progressive Quality Advancement & Exceeding Customers' Demands

Your True Partner

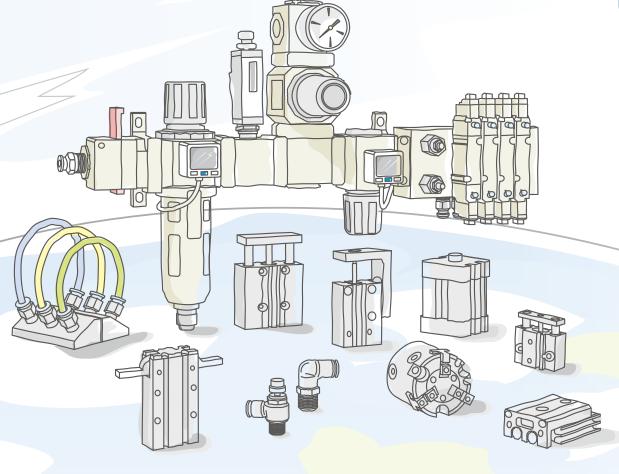
Continual product research & design 100% quality test Complete product range Comprehensive customer service On-time delivery Competitive pricing











COMPANY PROFILE

About MINDMAN

Mindman had been raising investment efficiency in productive facilities and professionals to expand its production capacity. Efficient automated production line and technical management lowers the cost of production, therefore makes Mindman products competitive worldwide.

Their well organized management keeps advancing their quality of products, and put into effect in the quality control. In 1999, their advanced product was certified by ISO-9001 that made their products international qualification. Currently, Mindman's products are exported to more than 65 countries worldwide, with major destination covering America, Japan, Europe, Southeast Asia, Middle East and so on.

Business Line:

Manufacture and sale for varieties of

pneumatic equipments.
Year Established: 1979
Capital: USD 12,558,000
Employees: 500 people

President: CHING-CHENG HUANG

Plant size: 59,000m²

FACTORY 1









Development of MINDMAN

| Develo | pilicili ol Militamali |
|--------|---|
| 1979 | Mindman Industrial Co. LTD. Was founded. Exclusive agent for NISCON, PISCO, HUMPHREY in Taiwan. |
| 1987 | Cooperation with NISCON Japan in the manufacture of Actuators, Directional control Valves, Air line equipment and other pneumatic components. |
| 1989 | Mindman's first production plant (10,000 m^2)., initiated design, production, and sales of various pneumatic components. |
| 1994 | Mindman's products approached international market and participated global exhibitions in Europe, US, Japan, and many different countries. |
| 1996 | Honorably received ISO-9002 certification. |
| 1999 | ISO-9001 approval gain for all products. |
| 2000 | The second production plant (6,600 m²) was established to manufacture air cylinders and boost its capacity for fulfilling increasing sales. |
| 2005 | The third production plant (8,250 m²) established to increase the production efficiency by concentrating the major process from aluminum die casting, machining, to surface coating by one single area. |

| 2006 | Launch quality control system (SPC, MSA, COM, TPM). |
|------|--|
| 2007 | Established fourth manufacturing plant (10,890m²). |
| 2008 | Introduction of full R&D facility (360m²). Apply Solid Edge 3D Software in R&D department. |
| 2009 | Establishment of automated warehousing with additional assembly facility (6,600m²). Launch production scheduling system (APS). |
| 2010 | Introduce production process automation (Die-casting, Machining, and Assembly). |
| 2013 | Joint Venture with ATAM Italy in Taiwan, new facility for coi automated production (1300m²). |
| 2014 | New hard-anodization process initiated (700m²). |
| 2015 | Expanded machining capacity (3000m²), new impregnation, anti-corrosion surface treatment process started. |
| 2016 | Launch Oracle CRM system, marketing channel covers |

72 counties.

Mindman supplies wide variety of pneumatic equipment supporting all industrial activity.

Food industry

- ⇒ Food machinery
- ₩ Water purifier

Transportation

Air conveyor

Textile industry

- ▶ Pneumatic spinning
- Automatic loom

Instrument

Liquid instrument

Medical equipment

- ⇒ Dentistry equipment

Marine development

- Air supply system
- Pump

Industry machinery

- Automatic assembly machinery
- □ CNC machinery
- ₩ Woodworking machinery
- □ Package machinery

Home appliances

- Air conditioner

New area

Fuel cell

Semiconductor industry

- Mounter

Agriculture

- Air cleaner
- Fruit sorting machine

Shipbuilding industry

- Explosion-proof equipment

Automobile industry

- Car wash machinery
- Air suspension
- Air brake

Leisure industry

- Air rifle
- Air mattress

Chemical industry

- ▶ Liquid state gas
- Process control

Pneumatic equipment

- Air grinder

Mining indutry

- Air drill
- Air supply system
- Jet cooler













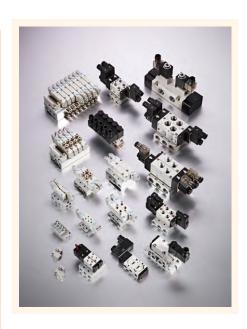






http://www.unimec.com.tw





- In addition to Rc thread, G / NPT also available.
- Port size: #100: M3, #156: 1/8", #180: 1/8", #220: 1/4",1/8" #260: 1/4", #300: 3/8", #460: G1/2", #500: 1/2", #510: 1/2", #600: 3/4", 1".





MVSC-300

MVSC-220











MVSZ-100



MVS* / MVD* Series

| Ι. | | | | | | | | | | |
|----|---------|-----|------------------------|-----|------------------|------------------|----------------|-----------------|---------------|--------|
| | Туре | | 3/2 | 5/2 | 5 / 3 (C/P/R) | Pilot operate | Direct operate | Grommet lead | DIN connector | Mediun |
| | | 220 | (NC/NO) | • | • | • | | • | • | |
| | MVSC | 260 | | • | • | • | | • | • | |
| | MVSC | 300 | (NC/NO) | • | • | • | | • | • | |
| | | 460 | (NC/NO) | • | • | • | | • | • | |
| | MVSD | 180 | (NC/NO) | • | • | • | | • | • | |
| | MVSD1 | 180 | | • | • | • | | • | • | |
| | | 260 | | • | • | • | | • | • | |
| | | 300 | | • | • | • | | • | • | |
| | MVSE | 500 | | • | | • | | • | • | |
| | | 510 | | • | | • | | | • | |
| | | 600 | | • | | • | | | • | |
| | MVSF | 100 | (NC/NO) | • | • | • | | • | | |
| | MVSG | 180 | | • | • | • | | • | | |
| | | 260 | | • | • | • | | • | • | |
| | MVSI | 450 | | • | | • | | • | • | Air |
| | | 510 | | • | | • | | | • | |
| | MVSN | 220 | | • | | • | | • | • | |
| | INIAQIA | 300 | | • | • | • | | • | • | |
| | | 150 | | • | | • | | • | | |
| | | 156 | | • | • | • | | • | | |
| | MVSP | 180 | (NC/NO) | • | • | • | | • | | |
| | | 188 | | • | • | • | | • | | |
| | | 220 | (NC/NO) | • | • | • | | • | | |
| | | 100 | | • | • | • | | • | | |
| | MVSY | 156 | | • | • | • | | • | | |
| | | 188 | | • | • | • | | • | | |
| | MVSZ | 100 | | • | | • | | • | | |
| | MVDC | 220 | (NC) | | | | • | • | • | |
| | MVDY | 100 | (NC) | | | | • | • | | |

Multi connector system

MVB-100 MVB-156 MVB-180 MVB-220

NAMUR

MVSN-220

MVSN-300











Direct operated type

MVDY-100



| | Insid | de struc | cture | | | | | | Fluid | | | | Mat | erial | Б. 1 | |
|----------|--------|----------------|---------|------|------|----------------|--------------|---------|----------------------|----------------------|---------|--------|-----------------|----------------|--------------|---------|
| Model | Piston | Diaph- ragm | Plunger | N.C. | N.O. | Water / Air | Hot water | Steam | Light oi l | Heavy oi l | Gas | Vaccum | Body | Seal | Port size | CV |
| MBS | | | • | • | | • | | | • | | • | • | Brass | N,J,V,T | 1/8,1/4 | 0.03~0. |
| MBD | | | • | • | | • | | | • | | • | • | Steel | N,V | 1/4~1/2 | 0.14~0. |
| MCS | | | • | • | | • | | | • | | • | • | Brass | N,J,V,T,R | 1/4~3/4 | 0.12~1. |
| MED | | • | | • | | • | | | | | | | Forged brass | N | 1/4~1/2 | 1.3~2. |
| MEP | | | • | • | | • | | | | | | | Forged brass | N | 3/8,1/2 | 1.8~2. |
| MGA | • | | | • | | • | • | | | | | | Forged brass | N,J,V | 3/8,1/2 | 1.9~2. |
| MGS | • | | | • | | • | • | • | | | | | Forged brass | Т | 3/8,1/2 | 1.9~2. |
| MGD | | • | | • | | • | | | | | • | | Forged brass | N,J,V | 3/8~2 | 2.0~3 |
| MJS | | | • | • | | • | | | • | | • | • | Brass | N,J,V | - | 0.10~0. |
| MJR | | | • | • | | • | | | • | | • | • | Brass | N,J,V | - | 0.10~0. |
| MPD | | • | | • | | • | | | | | | | PA(Nylon) | N,J,V | 1/2~1 | 4~11 |
| MPK | | • | | • | | • | | | | | | | PA(Nylon) | N,J,V | 1/2~1 | 4~11 |
| MRB | | | • | | • | | | | | | • | | Brass | N,J,V | 1/8,1/4 | 0.05~0. |
| MRC | | | • | | • | • | | | • | | • | | Brass | N,J,V | 1/8~3/8 | 0.10~0. |
| MUSC | | | • | • | | • | | | • | | • | • | S.S.#303 | N,J,V Z,T,R | 1/8~3/8 | 0.03~1. |
| MUSD | | • | | | | • | | | • | | • | | S.S. #SCS14 | N,J,V | 1/2 | 2.0 |
| MWA | • | | | | | • | | | | | • | | Brass | N | 3/8~2 | 3.0~3 |
| MWH | | | | | | | | | | • | | | Brass | V | 3/8~2 | 3.0~3 |
| MWS | | | | | | • | • | | | | | | Brass | Т | 3/8~2 | 3.0~3 |
| MWD | | • | | | | • | | | | | • | | Forged | N,J,V | 3/8~2 | 3.0~3 |
| MWK | | | | | | | | | | | | | brass Forged | N,J,V | 3/8~2 | 3.0~3 |
| MYA | | | | | | | | | | | | | brass Forged | N,J,V | 3/8,1/2 | 1.9~2.0 |
| MYS | | | | | | _ | _ | | | | | | brass Forged | T | 3/8,1/2 | 1.9~2. |
| MZS | • | | | | | • | • | • | | | | | brass Forged | N,J,V,Z | 3/8~3/4 | 0.12~0. |
| MUD | | | | | • | | | | | | | | brass Forged | N,V,S,P | | |
| | | | | | _ | | | | _ | | _ | | brass Forged | P | 1/8~3/8 | 0.23~0. |
| MUS-8/10 | • | | | • | | | | . 1 | | | | | brass PVC/ | | 1/4,3/8 | 0.23~0. |
| MUDC | | • | | • | | | Hyaro | cniorio | acid, | sultur | ic acio | 1 | PTEF | N | 1/4~1 | 0.28~4 |
| MSUS | • | | | • | • | • | | • | | | • | • | S.S.#316 | N,V,S,P | 1/8~2 | 0.23~4 |
| MUAO | • | | | • | | • | | | _ | • | | | Brass Forged | N | 1/4~1/2 | 2.5 |
| MUW | | • | | • | | • | | | • | | | | brass | N,V,S | 3/8~2 | 2.4~48 |
| MUW-NO | | • | | | • | • | | | | | • | • | Forged brass | N,V,S | 3/8~2 | 4.5~48 |
| MUW-F | | • | | • | • | • | | | | | | | FC-20 | N | 1 1/4~4 | 22~18 |
| MUG | | • | | • | | | | | | | • | | Forged brass | N | 3/8~2 | 2.4~48 |
| MUV | | • | | • | | | | | | | | • | Forged brass | N | 3/8~2 | 2.4~48 |
| MUAW | • | | | • | | • | | | | | | | Forged brass | N | 1/2~2 | 4~48 |
| MUS | • | | | • | | • | | • | | • | | | Forged brass | Р | 1/2~2 | 17~50 |
| MUS-F | • | | | • | | • | | • | | • | | | FC-20 | Р | 1 1/4~4 | 22~17 |
| MSUW | | • | | • | • | • | | | • | | | • | S.S.#316 | N,V,S | 1/2~2 | 4.5~48 |
| MSUW-F | | • | | • | | • | | | • | | | | S.S.#316 | N,V,S | 1/2~2 | 4.5~48 |
| MUPS | • | | | • | | • | | • | | • | | | Forged brass | Р | 1/2~1 | 4~12 |
| MXAD | | | • | • | | • | | | • | | • | • | Forged brass | N,J,V,S | 3/8~1/2 | 0.26~0. |
| MXAD-AF | | • | | • | | • | | | • | | • | • | Forged brass | N,J,V,S | 3/8~2 | 4.5~48 |
| MXBD | | | • | • | | • | | | • | | • | • | Forged brass | N,J,V,S | 3/8~1/2 | 0.23~0. |
| MXCD | | • | | • | | • | | | • | | | | Forged brass | N,V | 3/8~1/2 | 2.4~2. |
| MXPV | | • | | • | | • | | | • | | | | Forged brass | N,J,V,S | 3/8~1/2 | 4.5~9. |



| 3 / 2 SO | LENC | DID V | ALVE | | | | | | | | | | | | | |
|----------|--------|----------------|---------|------|------|----------------|--------------|-------|--------------|--------------|-----|--------|-----------------|---------|--------------|-----------|
| | Insid | de stru | cture | | | | | | Fluid | | | | Mat | erial | ъ. | |
| Model | Piston | Diaph- ragm | Plunger | N.C. | N.O. | Water / Air | Hot water | Steam | Light oil | Heavy oil | Gas | Vaccum | Body | Seal | Port size | CV |
| MCT | | | • | • | | • | | | | | • | | Brass | N,V | 1/4~3/4 | 0.10~0.80 |
| MJT | | | • | • | | • | | | • | | • | • | Brass | N,J,V | - | 0.10~0.42 |
| MRJ | | | • | | • | • | | | • | | • | • | Brass | N,J,V | - | 0.10~0.31 |
| MUST | | | • | • | | • | | | • | | • | • | S.S.#303 | N,V | 1/8~3/8 | 0.02~0.80 |
| MUT | | | • | • | • | • | | | • | | • | • | Forged brass | ٧ | 1/8~3/8 | 0.02~0.31 |
| MZT | | | • | • | | • | | • | | | • | • | Forged brass | N,J,V,Z | 1/8~3/4 | 0.08~0.80 |
| MUA | | | • | • | | • | | | | | | • | Forged brass | N | 1/4,3/8 | 0.1~0.12 |

NOTE: Seal-code N: NBR, J: EPDM, V: VITON, P: PTFE, T: TEFLON, R: RUBY, Z: FFKM, S: SILICON



| | | 5 | / 2 | | 3/2 | |
|-------|-----|---------------|---------------|--------------|--------------|---------------|
| Туре | | 4A1 | 4A2 | 3/ Spring | A1 return | 3A2 |
| | | Spring return | Double acting | NC | NO | Double acting |
| | 150 | • | • | • | • | • |
| | 180 | • | • | • | • | • |
| MVAA- | 220 | • | • | • | • | • |
| WVAA- | 260 | • | • | | | |
| | 300 | • | • | • | • | • |
| | 460 | • | • | • | • | • |









MECHANICAL VALVE MVMB 220—3/2, 5/2 250—2/2, 3/2 300—5/2 Variety of push type / Spool with spring return or detented

HAND VALVE MVHA series (2/2, 3/2, 5/2) TAC mini type / Push button or toggle operation / Spring return or

detented































AIR UNITS

MACP200 $(40 \, \mu \, \text{m})$ MACP200L $(40 \, \mu \, \text{m})$ MACP300 $(5 \, \mu \, \text{m})$ MACP300L $(5 \, \mu \, \text{m})$ MACP302L $(5 \, \mu \, \text{m})$ MACP400 $(40 \, \mu \, \text{m})$ MACP401L $(40 \, \mu \, \text{m})$ MACP401L $(40 \, \mu \, \text{m})$ MACP403L $(40 \, \mu \, \text{m})$ MACP403L $(40 \, \mu \, \text{m})$ MACP403L $(40 \, \mu \, \text{m})$

MACP500 (40 μ m)



AIR UNITS

MACT300 (5 μ m) MACT300L (5 μ m) MACT302 (5 μ m) MACT400 (40 μ m) MACT401 (40 μ m) MACT402 (40 μ m) MACT403 (40 μ m) MACT500 (40 μ m)



AIR UNITS





F.R. UNIT

MAFR100 (40 μ m) MAFR200 (40 μ m) MAFR200L (40 μ m) MAFR300 (5 μ m) MAFR300L (5 μ m) MAFR302 (5 μ m) MAFR400 (40 μ m) MAFR402 (40 μ m) MAFR402 (40 μ m)

MAFR403 (40 μ m)

MAFR500 (40 μ m)





FILTER

MAF200 ($40~\mu$ m) MAF200L ($40~\mu$ m) MAF200L ($5~\mu$ m) MAF300 ($5~\mu$ m) MAF300 ($5~\mu$ m) MAF400 ($40~\mu$ m) MAF401 ($40~\mu$ m) MAF402 ($40~\mu$ m) MAF403 ($40~\mu$ m) MAF403 ($40~\mu$ m) MAF900 ($50~\mu$ m) MAF900 ($50~\mu$ m) MAF901 ($50~\mu$ m)



FILTER ELEMENT

E001 (0.01 μ m) **E03** (0.3 μ m) **E5** (5 μ m) **E20** (20 μ m) **E40** (40 μ m)



REGULATOR

MAR100 MAR200 MAR300 MAR301 MAR302 MAR400 MAR401 MAR402 MAR403 MAR500 MAR900 MAR901



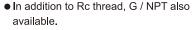
LUBRICATOR

MAL200 MAL200L MAL300 MAL300L MAL302 MAL400 MAL401 MAL402 MAL403 MAL500 MAL900



AUTO DRAINER

MAD400 MAD401H MAD500 MAD500M MAD501H MAD501H MAD501H



Port size: (Rc)
#100-M5
#200-1/8", 1/4"
#300-1/4", 3/8"
#302-1/4", 3/8", 1/2"
#400-1/4", 3/8", 1/2"

#401-1/4", 3/8", 1/2" #402-3/8", 1/2", 3/4"

#403-1/4", 3/8", 1/2" #500-3/4", 1"

#500-3/4", 1 #900-1 1/2" #901-2"

PRECISION REGULATOR

MAIR100 (1/8) MAIR200 (1/4)







DIGITAL CONDENSATION REMOVAL TIMER

MBS MCS MBD



SOFT START-UP VALVE MAVS400

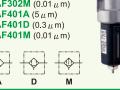
AUTO DRAIN VALVE MADV400

MADV400 FMRF300



AIR / MIST / MICROMIST FILTER

 $\begin{array}{l} \textbf{MAF300LD} \; (0.3 \, \mu \, \text{m}) \\ \textbf{MAF300LM} \; (0.01 \, \mu \, \text{m}) \\ \textbf{MAF302D} \; (0.3 \, \mu \, \text{m}) \\ \textbf{MAF302M} \; (0.01 \, \mu \, \text{m}) \\ \textbf{MAF401A} \; (5 \, \mu \, \text{m}) \\ \textbf{MAF401D} \; (0.3 \, \mu \, \text{m}) \\ \textbf{MAF401M} \; (0.01 \, \mu \, \text{m}) \end{array}$







MAFRF401AD (5+0.3 μ m) MAFRF401AM (5+0.01 μ m)





MATFR401 (5+0.3+0.01 μ m)



PNEUMATIC PRESSURE SWITCH

MP10 MP30 MP41 MP43 MP45 MP50 MP1 MPS

PRESSURE GAUGE

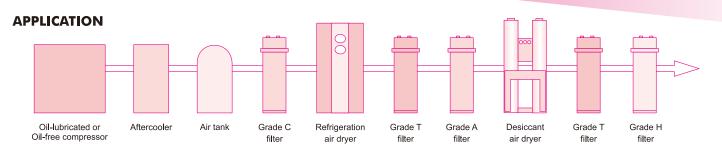
MP23 MPG-60 PG











REFRIGERATION COMPRESSED AIR DRYER

M2E series

08SG~10SG 125S~250S 10GP~100GP 300S~1500S

- Logic controller, complete auto functioning and standard wiring.
- Complete automatic, no adjustment is required.
- Axial fan motor low noise, high speed, large flow and static pressure. CE certified, IP54.
- Condenser and pre-cooler 2 in 1 design with same fan motor.
- With filter strainer prevent oil vapor on fins, easy maintenance.
- Pre-set type pressure switch (HPS & LPS) is used for better stability and fewer malfunctioning.
- Reset type high/low pressure trip switch (HPSM/LPSM) is prevent compressor from overloading.

HEATLESS DESICCANT

MHD series

10~1000

- Max capacity: 1.6~134 (Nm³/min)
- Connection: 3/4"Rc~8"FL (Inch)
- High dew point (Dew point pressure -70°C)
- Low dew point (Dew point pressure -40°€)

| A: Working pressure | 0.4 | 0.5 | 0.6 | 0.7 | 8.0 | 0.9 | 1.0 |
|------------------------|------|------|------|------|------|------|------|
| Correction factor | 0.63 | 0.75 | 0.88 | 1.00 | 1.13 | 1.25 | 1.38 |
| B: Ambient temperature | ≦35 | 40 | 45 | 50 | | | |
| Correction factor | 1.00 | 0.97 | 0.88 | 0.73 | | | |

Formula



| REFRIGER | ATION COM | IPRESSED | AIR DR | YER | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----------|----------|--------|------|----------|----------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| Type | | | | | | | | | | | | M2E- | | | | | | | | | | | | | |
| Турс | 08SG | 10SG | 10GP | 15GP | 25GP | 40GP | 60GP | 75GP | 100GP | 125S | 150S | 175S | 200S | 250S | 300S | 350S | 400S | 500S | 600S | 700S | 800S | 900S | 1000S | 1250S | 1500S |
| Max. capacity (Nm³/min) | 0.8 | 1.2 | 1.2 | 2.4 | 3.6 | 5.5 | 8.1 | 10.6 | 15 | 18 | 22 | 27 | 30 | 36 | 43 | 50 | 61 | 72 | 79 | 93 | 116 | 125 | 134 | 155 | 180 |
| Connection (inch) | 1/2"Rc | 3/4"Rc | 3/4"Rc | 1"Rc | 1-1/2"Rc | 1-1/2"Rc | 2"Rc | 2"Rc | 2"Rc | 3"FL | 3"FL | 3"FL | 3"FL | 4"FL | 4"FL | 4"FL | 4"FL | 5"FL | 5"FL | 6"FL | 6"FL | 6"FL | 8"FL | 8"FL | 8"FL |
| Ref. comp. (kw) | 0.26 | 0.5 | 0.5 | 0.65 | 0.95 | 1.2 | 1.9 | 2.6 | 2.6 | 3.6 | 4.2 | 4.7 | 6.5 | 7.0 | 6.3 | 7.0 | 9.3 | 11.0 | 12.5 | 13.5 | 16.9 | 21.9 | 21.9 | 27.4 | 27.4 |
| Operating current (A) | 1.2 | 2.4 | 2.4 | 3 | 4.3 | 5 | 7.5 | 3.5 | 3.5 | 5 | 6.4 | 7.6 | 9.8 | 10.2 | 7.7 | 8.5 | 13.7 | 15.4 | 17.5 | 18.4 | 26.1 | 28.3 | 28.3 | 36.6 | 36.6 |
| Full-load current (A) | 1.5 | 2.75 | 2.75 | 3.35 | 4.9 | 5.7 | 8.7 | 4 | 4 | 5.7 | 7.3 | 8.6 | 11.0 | 12.2 | 10.6 | 11.9 | 17.1 | 19.8 | 22.7 | 23.2 | 32.2 | 37.2 | 37.2 | 47.4 | 47.4 |

Pictures





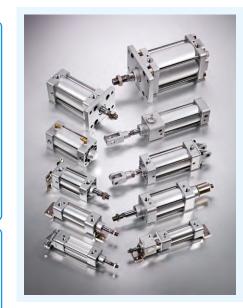




STANDARD CYLINDERS MCQA series (Japan type) Bore size: φ40~φ200 Double acting











AIR/OIL CONVERTER

MCQA-AH series

Bore size : $\phi 40 \sim \phi 150$

- Consider cylinder thrust force is about 70%(50% high speed) of theoretical force.
- Displacement is suggested about 50% of total volume.
- Max. oil ascending speed is about 200mm / sec
- Recommend ISO VG32 equivalent oil.
- Oil is feeded not exceeding 80% of total volume.
- Installed vertically and above actuator cylinder.



MCB series

Bore size : φ 20~ φ 125





MCBQV2 series Bore size : φ 32~ φ 100

MCBQV series Bore size : ϕ 125

MCQV2L series

End lock type



CYLINDER KITS

- We can supply your company with full cylinder assembly kits which meet NFPA, ISO-VDMA and JIS internationally recognizable standards.
- Assembly kits include all necessary components to enable rapid assembly and despatch in order that you can meet your customers delivery schedules.
- Piston rod, tie rod and tubes are also available.

Series Component parts & Repair kits

MCQA Standard cylinders
MCQN Standard cylinders (inch)

MCQV2 ISO-VDMA Standard cylinders
MCQI2 ISO-VDMA Standard profile cylinders



NON-LUBRICATION

Designs of oil-filled alloy.special housing and bushing provide the needed self-lubrication of piston rod.

HIGH QUALITY-LONG SERVICE LIFE

Hard anodized aluminum cylinder tubes resist corrosion and abrasion.

NON-STANDARD TYPE

Non-standard type is also available. For example, Stroke out of specification, dust cap, rod front end dimension variation etc.

■ ISO-VDMA STANDARD SPECIFICATION

Conformance to ISO-6431 & VDMA-24562 specification.

Unified design, most parts of each type are interchangeable within the spec.

CYLINDER MOUNTINGS

Available with a comprehensive selection of mountings for fixed or flexible installation.

In addition to Rc thread, G. NPT, also available.

COMPONENT KITS AVAILIBILITY

Available with seperate supply of component kits, tube, rod, and tie-rod to be able to assemble locally and enhence the delivery prospect.



MCJA series

Bore size: ϕ 12~ ϕ 50 (Single acting) ϕ 12~ ϕ 100 (Double acting)



- Light weight & space saving.
- Easy installation.
- Easy dismantling for maintenance.
- High quality & long service life.
- Easy mounting of sensor switch.
- Single / Double rod, adjustable stroke, internal / External thread as your requirement.
- With or without magnet.

MCJA series

Bore size :

φ 12~ φ 50 $\phi 12 \sim \phi 100$ (Single acting) (Double acting)



Multiple position

Bore size : φ 12~ φ 50 (Single acting)

 $\phi 12 \sim \phi 100$ (Double acting)

Back to back type

Bore size : φ 12~ φ 50 (Single acting) $\phi 12 \sim \phi 100$

(Double acting)



PLATE CYLINDERS

MCJU series Non-rotating piston rod

Bore size : $\phi 25 \sim \phi 63$ (Double acting)

Multiple position

Bore size : $\phi 20 \sim \phi 80$

MCJQ series

Bore size : $\phi 12 \sim \phi 100$ (Double acting)



MCJQ2 series

Bore size : ϕ 12~ ϕ 25 (Double acting)



MCJI series (ISO-21287)

Bore size : $\phi 20 \sim \phi 100$

(Double acting)



MULTI-MOUNT CYLINDERS

MCFA series



MCFB series

Bore size :

 ϕ 6~ ϕ 10 (Single / Double acting)



CYLINDER KITS

MCJA Compact cylinders & Repair kits

MCJQ Compact cylinders & Repair kits

MCJI Compact cylinders & Repair kits

MCJT Compact cylinders & Repair kits



MCMA series

(Japan type)

Bore size : $\phi 16 \sim \phi 32$ (Single acting)



MCMB series

Bore size : $\phi 20 \sim \phi 40$ (Single / Double acting)

MCKMB series

No-rotation type Bore size : $\phi 20 \sim \phi 40$ (Double acting)



MCMI series

(ISO-6432 Spec.)

Bore size : $\phi 8 \sim \phi 25$ (Single / Double acting)

MCKMI series

No-rotation type



MCMBRA/B series

Bore size : $\phi 20 \sim \phi 40$ (Double acting)



PEN CYLINDERS

MCMJ series

Bore size : ϕ 6~ ϕ 16 (Single / Double acting)



MCMJ1 series

Bore size : $\phi 4$ (Single acting)



MCMJP series

Bore size : ϕ 6~ ϕ 10 (Double acting)



MCMJPB/S series

Bore size : ϕ 6~ ϕ 15



END LOCK CYLINDERS

MCMBL series

Bore size : $\phi 40$ (Double acting)

MCCG series

Bore size : $\phi 20 \sim \phi 63$ (Double acting)

MCCN series

Bore size : $\phi 3/4$ "~ $\phi 2 1/2$ " (Double acting)



NON-LUBRICATION

Designs of oil-filled alloy.special housing and bushing provide the needed self-lubrication of piston rod.

• HIGH QUALITY-LONG SERVICE LIFE

Stainless cylinder tubes resist corrosion and abrasion.

CYLINDER MOUNTINGS

Available with a comprehensive selection of mountings for fixed or flexible installation.

• ACTING TYPE (for MCMA)

In addition to MCMA-11 (standard type), also available with MCMA-13. -15 (single acting), MCMA-21-SDW (dual rod type), MCMA-27-SDJ (stroke adjustable type).

■ ISO-6432 STANDARD SPECIFICATION (for MCMI)

Unified design, most parts of each type are interchangeable among each other.

• In addition to Rc thread, G. NPT. also available.

CYLINDER KITS

Series Component parts & Repair kits

MCMA Miniature cylinders MCMB Miniature cylinders

MCKMB Miniature cylinders

MCMI ISO-6432 / non-pivot type

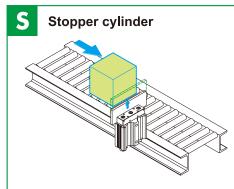
Miniature cylinders

MCMJ Pen cylinders Round cylinders MCCG MCCN Round cylinders

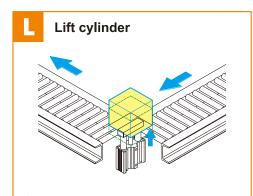




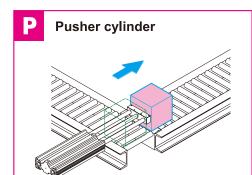
- Several uses: S-Stopper cylinder: Takes very high lateral loadings as such can stop very wide and heavy objects.
 - L-Lift cylinder: Large bearing area enables heavy off-set loads to be applied.
 - P-Pusher cylinder: Long strokes available with extremely rigid guidance, precise movement of load is possible.



Tough type of stopping a large-load work carrier at a fixed point, and for the straggle of a number of work carriers, etc.



Special design which stands the large onesided load. Lifts the work carrier at a fixed point not changing the posture.



Long strokes available, the highly precise pushing work transfers and places a work carrier and changes the direction.

TWIN-GUIDE CYLINDER

MCGA - 03 / 13 / 53 series

Bore size : $\phi 20 \sim \phi 80$ (Double acting)

- Strong cylinder suitable for heavy load, for stopping work carriers of various sizes at a fixed position, and for stacking many work carriers, etc.
- The strong and thick guide rods sustain the unbalanced load.
- Designed for rightangled turn. positioning, and lifting on the conveyor line.



PUSH TYPE

MCGA - 23 / 63 series

Bore size : $\phi 20 \sim \phi 80$ (Double acting)

- Long stroke type of the anti-turn Accuracy, impoved by integrating the guides and cylinder.
- Linear bush bearing type available for high accuracy in the high speed work.
- On the link bar at the top. Many thread holes for mounting attachments are provided for easy
- Lift type of long stroke is available by replacing the link bar with table plate.
- Port thread G. NPT, are also available.



MCGB series

Bore size : $\phi 12 \sim \phi 32$ (Double acting)

- The long experience provided the following feature in pursuit of accuracy durability and handiness.
- Connection from 2 direction and 3-type fixing (pierced hole bolt, back tapped hole, bottom tapped hole), and the miniature sensor switch recessed in the cylinder body.
- A special packing absorbs the shock sound at the end of the stroke.



MCGI series

Bore size : $\phi 20 \sim \phi 100$ (Double acting)

- Higher loading capacity compared to unquided standard compact cylinders.
- Wide range of bore sizes and strokes.
- Ultra compact, light weight and space saving.
- Sensor slots on RCI sides for flush mounting of proximity sensors.
- Magnetic as standard.



MCGJ series

Bore size : $\phi 12 \sim \phi 100$ (Double acting)

- Make use of air to drive the push and pull of rod can achieve the effect of highly accurate operation
- Bore sizes ϕ 12mm~ ϕ 100mm are available for various needs.
- 2 up to 6 reed switch with / without contact point type can be available as per actual need.
- Piston rod is made of wear-resistant stainless or carbon steel.



MCGS series

Bore size : $\phi 6 \sim \phi 63$ (Double acting)

- Multi-ports as standard enabling both direction
- Non-rotating accuracy $\pm 0.1^{\circ}$. ($\phi 6$, $\phi 10$)
- Embedding type sensors.
- The sensor cable will be in the same direction as the piping tube if vertical type sensor switch (Angle cable) is used.
- Magnetic as standard.



MGT* series

Bore size : $\phi 20 \sim \phi 63$ (Double acting)

- MGTK(X): Light duty type, MGTB(U): Heavy duty type.
- The guiding units can be assembled to cylinders in conformity ISO 6431/6432 standard.
- Antirotation is guaranteed by two steel guide stems, which moment is support by four oilless bush in MGTK(X) series by four linear bearing in MGTU series and four brass bush in MGTB series.

 Easy to install. also reducing machine design work and cost.



MCGD series

Bore size : $\phi 12 \sim \phi 32$ (Double acting)

- The user may use as plate slide type or body slide type according to his requirement.
- The air cylinder and the guide are designed as compact makes the air cylinder working more smoothly and showing the characteristics of its high-strength and high-stiffness.
- The recessed groove for sensor switch keeps space saving and interference is avoided.
- The body and plate are reser-ved many holes and threads for mounting. It is suitable for various mounting requirement.



DUAL-ROD CYLINDER

MCDA series Bore size : $\phi 6 \sim \phi 32$ (Double acting)

 A thin and compact dual rod cylinder unit with high precision guiding for picking and placing.

MCDJ series Bore size : ϕ 6, ϕ 10 (Double acting)

- Compact in width and length with precision guidance.'
- High lateral loads can be applied on both slide and linear bearing unit.



DUAL-ROD SLIDE CYLINDER

MCDB series

Bore size : $\phi 10 \sim \phi 32$ (Double acting)

- A thin and compact dual rod cylinder unit with high precision guiding for picking and placing.
- High Anti-roll accuracy & double thrust.
- The user may use as plate slide type or body slide type according to his requirement.
- Provided with shock absorbers to absorb impact to noise.



SLIDE CYLINDER

MCSS series

Bore size : $\phi 6 \sim \phi 25$ (Double acting)

- Work table and air cylinder are integrated compactly. Air slide table is ideal for precise assembly.
- Grooves on the body for sensor switch to be inserted into.



LOW PROFILE SLIDE CYLINDER

MCSF series

Bore size : ϕ 8~ ϕ 20 (Double acting)

- Parallel design of guide and cylinder creates a slim and compact slide.
- Grooves on the body for sensor switch to be inserted into.



COMPACT SLIDE

MCSH series

Bore size : $\phi 6 \sim \phi 20$ (Double acting)

 The use of an endless track linear guide produces a table cylinder having excellent rigidity, linearity and non-rotating accuracy.



CROSSED ROLLER SLIDE RAIL SET

MGRV series











MGBV series



MGBD series

SLIDE TABLE

MGRA series







MGRCseries



MGRM series



MGRH series



MGRS series



MULTI-PURPOSE

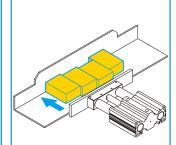
TRIPLE-GUIDE CYLINDER

MCG3 series

Bore size : ϕ 63, ϕ 80 (Double acting)

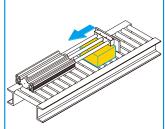
- Three guide rods equally spaced in the aluminum body provide more space saving and eliminate the directionality of the unbalanced load.
- Conveyor line's productivity increases.
- By connecting with the rotary actuator, can be used as a Automatic turn lifter.





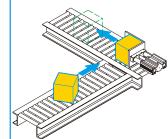
Arranges in line

Can move loads into a parallel position from different start points.



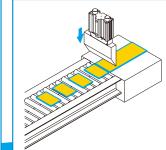
Draws in

Can move high loads consistently on the inward stroke of the cylinder.



Corrects misalignment

Repositions uneven loads.



Cuts sheets

Can be use as the power source for cutting sheets on a shearing machine.



ROTARY ACTUATOR

MCRA series Bore size : ϕ 63 (Double acting)

- Body size made more compact than ever.
- Functional design and clean appearance.
- Rail type mounting allows switch position to be adjusted very easily.



MCRB series

Bore size : ϕ 16 ~ ϕ 32 (Double acting)

- The swing motion with twin-piston and rack-pinion driving.
- Adjustable swing angle(0° ~190°), three body mounting mode.



MRTH / MRTF series

Bore size : ϕ 40, ϕ 63, ϕ 80

- The body is manufactured in anodized aluminium alloy, and has been designed looking at the harmonious aesthetic development.
- Pinion and rack produced from carbon steel reduces backlash within the mechanism.
- Rotation adjustment screw.



MCRQ series

MCRQ-S series

Bore size : ϕ 12~ ϕ 40 (Double acting)

Bore size : ϕ 16, ϕ 20, ϕ 25 (Double acting)

- Operating range of table is 0°~190° by angle adjusting screw.
- Compact design using double rack and single pinion.



MINI-ROTARY ACTUATOR

MCRJ series Bore size : ϕ 6, ϕ 8 (Double acting)

- Rack and pinion type / with external stoppers.
- Mounting from 3 directions.
- Piping and wiring are same directions.





SWING CLAMP CYLINDERS

MCKC series

Bore size : ϕ 12 ~ ϕ 40

- Ultra compact, light weight and space saving cylinder.
- Ideal for use in machinery where space is limited and incorporating sensor groove which enables flush fitting of sensors.



MTAS / MTAD series

Bore size : $\phi 25 \sim \phi 63$

- These swing clamps are used when it is required to keep the fixture workpiece area free of straps and clamping components for unrestricted workpiece loading and unloading.
- This pneumatic clamping element is a pull type cylinder, There are five standard sizes, and for each size two versions of standard clamping arms, mounting of these clamping arms at any angle within 360.



MAS* series

MATS* series

Bore size : $\phi 25 \sim \phi 63$

This cylinder belongs to a pull cylinder of which the total stroke is equal to the sum of a swing stroke and a clamping stroke, and is usually used within the clamping stroke.



CLAMP CYLINDERS

MCKA series

MCKG series

Bore size : ϕ 40

Bore size : ϕ 50, ϕ 63

- Aluminium alloy tube provides both smooth lines and high corrosion resistance.
- Self lubricated nose bush gives long life.
- Versatile porting position available.
- End cushioning at both ends reduces impact loads.



MCKB series

Bore size : ϕ 32

- Lever-type air cylinder for grasp use. Compact and light design suitable for limited space application (ex. CNC machining tool)
- Four sides of sensor switch installation available, control is simplified.



GRIPPERS

MCHA series

- Available with a comprehensive selection of bore size (φ12~φ32) for the various needs.
- The highly accurate, air-driven open closed work.



COMPACT TYPE 3-FINGER GRIPPERS

MCHK series

Stroke: 20, 30, 50 mm



Bore size : $\phi 20 \sim \phi 40$

PARALLEL GRIPPERS

MCHH series

180° ANGULAR GRIPPERS MCHW series Bore size : $\phi 20 \sim \phi 50$





PARALLEL GRIPPERS

MCHB series

- Available with a comprehensive selection of bore size (φ 12~ φ 32) for the various needs
- The highly accurate, air-driven open closed work.



LOWER HEIGHT of THREE JAW GRIPPERS

MCHG series

Body diameter : ϕ 50~ ϕ 160

MCHG2 series

Bore size : ϕ 16 ~ ϕ 125

MCHG2L series

Bore size : ϕ 16 ~ ϕ 80



GRIPPERS MCHQ serie Body diameter: 64 ~160

LOWER HEIGHT PARALLEL



180° ANGULAR GRIPPERS **CAM STYLE**

MCHY series Bore size : $\phi 10 \sim \phi 25$



PARALLEL GRIPPERS

MCHC series

Bore size : $\phi 10 \sim \phi 25$

- Gripper design with high rigidity rail integrated structure.
- Enhance mounting positioning preciseness:
- 1. Body thickness tolerance ± 0.05 mm
- 2. Mounting hole at body end to ensure mounting precision.
- Enhance precision, may apply to high precision machinery.
- Sensor switch designed to embedded into the body.



THROUGH CENTER HOLD TYPE of THREE JAW GRIPPERS

MCHGH series

Body diameter : ϕ 64~ ϕ 160



SLIM PARALLEL GRIPPERS

MCHU series

Bore size : ϕ 12 ~ ϕ 20



WIDE TYPE PARALLEL **GRIPPERS**

MCHX series

Bore size : $\phi 10 \sim \phi 32$



PARALLEL GRIPPERS

THREE JAW GRIPPERS

Body specification: 50 ~ 300

MCHS series

MCHJ series

Body specification: 50 ~ 300



20° ANGULAR GRIPPERS

MCHT series

Body specification: 66 ~ 200



LOWER HEIGHT of FOUR JAW GRIPPERS

MCHGF series

Body diameter : ϕ 50~ ϕ 125



ROTARY GRIPPERS

MCRH series

Bore size : ϕ 16

S2 (2-Finger)

S3 (3-Finger)

Y (180° Angular)







14



MCRPL series

MCRPLF series • Equal forces on both ends of the piston. Bore size : $\phi 16 \sim \phi 40$

Bore size : φ 16~ φ 63





- Multi ported end caps as standards.
- Many mounting options available.
- Simple construction enables rapid servicing of cylinder.
- Slow speed grease available as option to enable very slow and smooth piston movement.

WITH LINEAR GUIDE

MCRPLK series Bore size : φ 16~ φ 40

- 50% space saving when compared to conventional cylinders.
- End caps with 3 air connections and adjustable cushioning.
- Load strength is higher than MCRPLF series (about 4 Multiple)
- Magnetic as standard.



MAGNETICALLY COUPLED

MCRPM series

(Without switch type, double acting)

Bore size : $\phi 20 \sim \phi 40$

- 50% space saving.
- Magnetic transit design. Magnetic force transits the movement with piston side magnet and slider magnet.
- Stainless tube, light weighted and durable.
- All series are without switch types.



MCRPMD series

(With switch type, double acting)

Bore size : ϕ 20, ϕ 25

- 50% space saving.
- Magnetic transit design. Magnetic force transits the movement with piston side magnet and slider magnet.
- Stainless tube, light weighted and durable.



MCRPMS series

(With / Without switch type, double acting)

Bore size : ϕ 20. ϕ 25

- 50% space saving.
- Magnetic transit design. Magnetic force transits the movement with piston side magnet and slider magnet.
- Stainless tube, light weighted and durable.
- The overall design of the cylinder and guide rods, can direct bear loads.
- Centralized piping ease of mounting.



DISTRIBUTED CONTROL SYSTEM

MA-118* series

- Support start-up screen (108×64 pixels)
- Password protection, copy protection.
- 104 FBD integrated functions, 97 LD integrated functions, pre-tested functions.
- Linking of 1024 function block is possible.
- Flexibly expandable up to 10000 points.



INDUSTRIAL COMMUNICATION

MA-15** series

- Auto tuner baud rate, 300~115200bps.
- 3000 VDC isolation protection.
- ESD protection.
- No external power supply (USB type)
- Fully compliant with USB 1.1 / 2.0



REMOTE MODULES

MA-10** series

- RS-485 Interface.
- Supports Modbus RTU / ASCII.
- Isolation voltage: 5000 VDC.
- Dual watchdog timer.
- Surge, EFT and ESD protection.



RADIO REMOTE MODULES

MA-3016 series

- Frequency control: Crystal
- Low power indicator.
- Operation range: up to 100 meters.
- Supports Modbus RTU / ASCII.
- Free PC software Mindman Utility.





TEXT PANEL

MATP series

- Plug-and-Play.
- Support start-up screen.
- RS-485 Interface.
- Full support MA-1188/1189 series controller.
- Resolution: 192×64 pixels.
- Dual watchdog timer.
- Brightness: 60cd/m²



SLIDER ELECTRIC CYLINDER BELT DRIVEN

MEAT series

Tube LD: 25



SLIDER ELECTRIC CYLINDER BELT DRIVEN

METB series

Size : □ 42~ □ 80



ROD ELECTRIC CYLINDER - BALL SCREW DRIVE (WITH MOTOR)

MEQYC series

Specification: 50(D,L), 65(D,L) Stroke : 50~500 (mm)

 Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod. This may cause deformation of the anti-rotating guide, abnormal responses of the auto switch, play in the internal guide or an increase in the sliding resistance.





SLIDER ELECTRIC CYLINDER - BALL SCREW DRIVE (WITHOUT MOTOR)

METS series

Specification: 5M~22 Stroke: 100~1500 (mm)

- High rigidity mainframe and cover: One piece extruded aluminum structure for optimal rigidity and weight ratio.
- Torsion resist top lid: Special torsion-resistant top lid design to prevent deformation during long stroke. (Clean room type)
- Multiple motor installation positions for added flexibility in tool design.



SLIDER ELECTRIC CYLINDER - BALL SCREW DRIVE (WITH MOTOR)

METSC series

Specification: 5~13 Stroke : 50~1050 (mm)

- High rigidity mainframe and cover: One piece extruded aluminum structure for optimal rigidity and weight ratio.
- Torsion resist top lid: Special torsion-resistant top lid design to prevent deformation during long stroke. (Clean room type)

 Multiple motor installation positions for added flexibility in tool design.



MINIATURE ELECTRIC CYLINDER - BALL SCREW DRIVE (WITH MOTOR)

MES* series

Specification: 20 Stroke: 30 / 50 (mm)

MESH-20 MESF-20 MESS-20

ELECTRIC GRIPPER - BALL SCREW DRIVE (WITH MOTOR)

MEHC series

Specification: 20, 25

Open and close stroke: 10, 14 (mm)







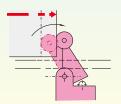
SHOCKLESS STOPPER CYLINDERS

MSBD series

 $(\phi 32-20, \phi 50-30, \phi 60-30, \phi 80-40)$



The built-in shock absorber softly catches and stops the work carrier. The strength of absorber can be easily adjusted, which makes the cylinder work in the best condition, conforming to the speed of the conveyor line and the weight of the work carrier.



STOPPER CYLINDERS with ROLLER

MSBR series

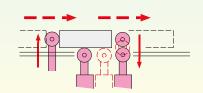
MSAR series

 $(\phi 20 / \phi 32 - 20, \phi 40 / \phi 50 - 30)$ $(\phi 32 / \phi 50 / \phi 80 - 30)$





The top rollers with the built-in spring return in touch with the bottom of the work carrier. Automatically returns up to the original position as the work carrier pass by, and immediately works as a stopper for the next work carrier. Therefore the timing carriers does not need to be taken.



DIRECT STOPPER CYLINDERS

MSBS series

 $(\phi 20-10, \phi 32-20, \phi 50-30)$



Rod and cylinder are designed for toughness against the large side load. Also suitable for the relatively slow-moving conveyor line with the heavy work carriers.



HORIZONTAL STOPPER CYLINDERS

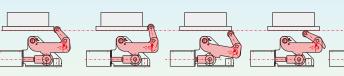
MSLD series

(Shockless) (φ 50-50)



MSLD type application

WORKS CONVEYING DIRECTION



MSLL series (Roller) (φ 25 / φ 40-30)



orizontal stopper cylinder of lower height for conveying the heavy work carriers. Suitable as a stopper cylinder for accumulating line, ageing line, and mulit-stage conveyor line. Softly stops the work carriers of heavy weight and high speed.

HORIZONTAL PUSH & PULL STOPPER CYLINDERS

MSLP series

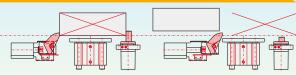
Push type MSLP-P Pull type MSLP-CP (ϕ 32-40)



Push type application

Conveying pass freely from

WORKS CONVEYING DIRECTION



Use lever to prevent from reverse direction of work when stopped by cylinder to make sure of hight accuraly location.

After processing, use cylinder to push off position.



















SHUTTLE VALVE





SHOCK ABSORBERS MDSC / MDFC series MAC / MAD series













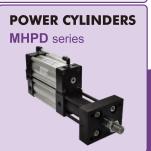












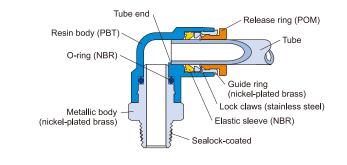




Maintaining basic functions, this low-cost quick-fitting joint achieves high-cost performance.

- The Tube Fitting comes in a wide variety of tube and thread sizes.
- Even after installation the direction of the tubing can be changed freely (Elbow, Long Elbow, Universal Elbow, etc.).

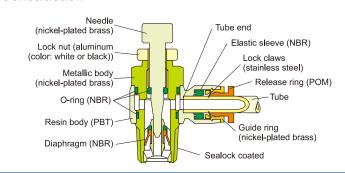
Construction



Maintaining basic functions, this low-cost speed controller achieves high-cost performance.

- The speed controller controls the operation speed of a driving device.
- The lead-out directions are free thanks to rotation of the resin body and joint.

Construction









MDHB series (Standard)

MDHD series (Double end rod)

MDHN series (Adjstable foward stroke)

Bore size : $\phi 40 \sim \phi 150$ Operating pressure: 14 MPa



With magnet

MDMB series (Standard)

MDMD series (Double end rod)

MDMN series (Adjstable foward stroke)

Bore size : $\phi 40 \sim \phi 100$ Operating pressure: 7 MPa

PIS contact with us for its specifications.



MDOC series (Pivot)

MDOA series (Front nose mounting)

MDOD series (Double end rod)

MDON series (Adjustable foward stroke)

Bore size : ϕ 20, ϕ 32 Operating pressure: 3.5 MPa



HYDRAULIC -Swing Clamp Cylinders

MTHS / MTHD series

Bore size : $\phi 25 \sim \phi 63$





COMPACT HYDRAULIC CYLINDER

MHCB series (Front mounting)

MHCQ series (Side mounting)

Bore size : $\phi 32 \sim \phi 80$



COMPACT HYDRAULIC WITH PISTON SENSING CYLINDER

MHCB-M series Bore size : ϕ 32~ ϕ 80



MANIFOLD TYPE HYDRAULIC CYLINDERS

MHCBR series Front mounting (Axial front manifold type)

MHCBF series Front mounting (Axial back manifold type)

MHCBS series Side mounting (Manifold type)

Bore size : $\phi 20 \sim \phi 80$



HYDRAULIC ROTARY ACTUATORS

MRPH series

Bore size : ϕ 32, ϕ 40 Operating pressure: 3.5 MPa



HYDRAULIC LEVER-TYPE CYLINDERS

MHCK series

Bore size : ϕ 25~ ϕ 63 Operating pressure: 7 MPa



MHSD MHTS MHTSD



MFS MDS MFT MDT



MTC-**A/B MSP-**A/B



Global Distributions

The recent information technology had been brought us closer ever. In the future, there will be no boundary between each nations. One phone call, one email, or fax, you could feel the instant response from our oversea staffs service.



| | Asia | | А | America | | Eur | Oceania | Africa | | |
|--|---|-------------------------------------|---|---|--|--------|--|-----------|-------------------------|---|
| China Turkey Japan Malaysia Indonesia Thailand India | Oman Korea Singapore Hong kong Philipines Sri lanka Vietnam | Syria Pakistan Iran Israel | Canada Colombia Peru Ecuador El Salvador U.S.A Mexico | Brazil Honduras Venezuela Dominican republic Chile' Argentina Bahrain | U.K. Germany Greece Spain Czech republic Bulgaria Poland | France | Switzerland The Netherlands Serbia Russian Croatia Ireland Finland | Macedonia | Australia New zeland | South Africa Egypt U.A.E Kenya Botswana |

Marketing Network

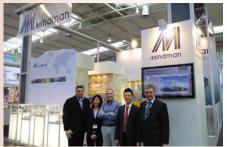
Mindman started with the development of overseas market in 1989, every year Mindman participates in all the large international exhibitions, such as Hannover Messe, Las Vegas fair, IFPEX Tokyo, PTC China... etc. Introducing our products to wide range of industries and enhance our knowledge on the latest innovative products through these world renowned exhibitions.

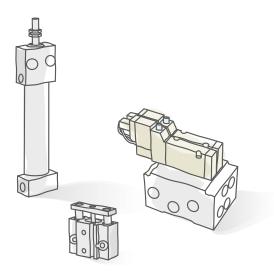
Mindman had already extended its sales areas into Europe, Japan, Germany, USA, Australia, South Asia, Middle East, and Mainland China. Most of all, we will continue to serve our customers with best quality, highly competitive price, on time delivery, and instant-sale services. If you have any special requirements, please do not hesitate to contact with us. Our staffs are always ready to further assist you.











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