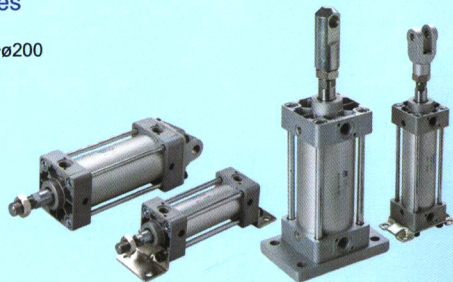


## STANDARD CYLINDERS

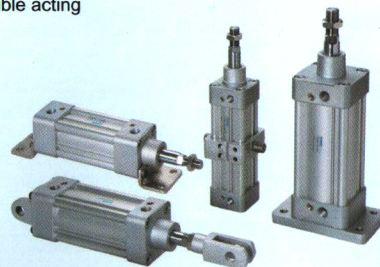
### MCQA series

(Japan type)  
Bore size:  $\phi 40$ ~ $\phi 200$   
Double acting



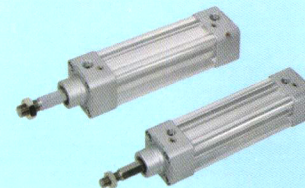
### MCQI2 series

(ISO-6431 / VDMA24562 Profile type)  
Bore size:  $\phi 32$ ~ $\phi 100$   
Double acting



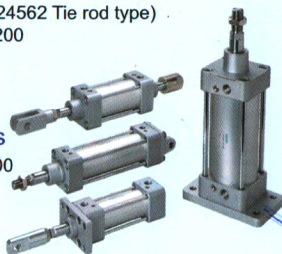
### MCKQI2 series

(ISO-6431 / VDMA24562 Profile type)  
**No-rotation type**  
Bore size:  $\phi 32$ ,  $\phi 40$   
Double acting



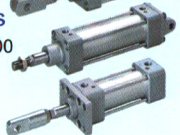
### MCQV series

(ISO-6431 / VDMA24562 Tie rod type)  
Bore size:  $\phi 125$ ~ $\phi 200$   
Double acting



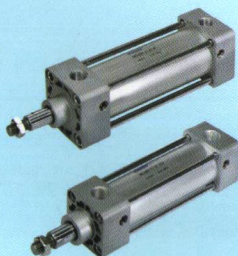
### MCQV2 series

Bore size:  $\phi 32$ ~ $\phi 100$   
Double acting



### MCQN series

(NFFA type)  
Bore size:  $\phi 1 \frac{1}{2}$ "~ $\phi 4$ "  
Double acting



## AIR/OIL CONVERTER

### MCQA-AH series

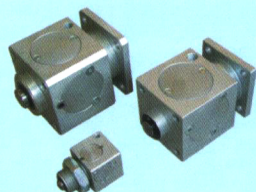
Bore size:  $\phi 40$ ~ $\phi 150$

- 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:  $\phi 20$ ~ $\phi 125$



### MCBQV2 series

Bore size:  $\phi 32$ ~ $\phi 100$

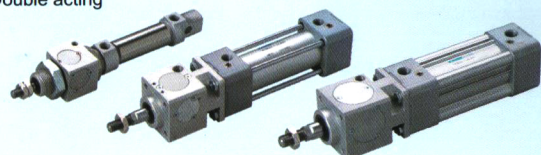
### MCBQV series

Bore size:  $\phi 125$

### MCBQI2 series

Bore size:  $\phi 32$ ~ $\phi 100$

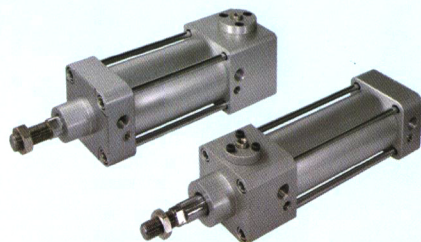
Double acting



### MCQV2L series

**End lock type**

Bore size:  $\phi 63$ ,  $\phi 80$



## CYLINDER KITS

- We can supply your company with full cylinder assembly kits which meet NFFA, 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.

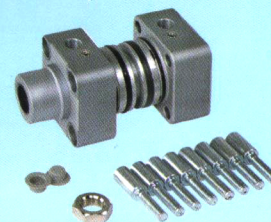
**Series** Component parts & Repair kits

**MCQA** Standard cylinders

**MCQN** Standard cylinders (inch)

**MCQV2** ISO-VDMA Standard cylinders

**MCQI2** ISO-VDMA Standard profile cylinders



- **NON-LUBRICATION available.**  
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 Availability**  
Available with separate supply of component kits, tube, rod, and tie rod to be able to assemble locally and enhance the delivery prospect.