

General pneumatic cylinders

Bore (mm) Series	φ 10	φ 12	φ 16	φ 20	φ 25	φ 32	φ 40	φ 50	φ 63	φ 80	φ 100	φ 125	φ 140	φ 150
10 Z -3	□	□	□	□	□	□	□	□	□	—	—	—	—	—
10 Z -2	—	—	—	●	●	●	●	●	●	●	●	—	—	—
10A-6	—	—	—	—	—	●	●	●	●	●	●	●	—	—
10A-6L	—	—	—	—	—	●	●	●	●	●	●	—	—	—
10B-6	—	—	—	—	—	—	□	□	□	□	□	—	—	—
DC7	—	—	—	—	—	—	●	●	●	●	●	●	—	●
10A-2	—	—	—	—	—	●	●	●	●	●	●	●	●	—
10A-3	—	—	—	—	—	—	—	●	●	●	●	●	—	—
7AL-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Bore (mm) Series	φ 160	φ 180	φ 200	φ 250	φ 280	φ 320	φ 360	φ 400
10 Z -3	—	—	—	—	—	—	—	—
10 Z -2	—	—	—	—	—	—	—	—
10A-6	—	—	—	—	—	—	—	—
10A-6L	—	—	—	—	—	—	—	—
10B-6	—	—	—	—	—	—	—	—
DC7	—	—	—	—	—	—	—	—
10A-2	●	●	●	●	—	—	—	—
10A-3	●	●	●	●	—	—	—	—
7AL-3	—	—	—	—	●	●	●	●

Low-pressure hydraulic cylinder

Bore (mm) Series	φ 32	φ 40	φ 50	φ 63	φ 80	φ 100	φ 125	φ 140	φ 160	φ 180	φ 200	φ 250
10H-6	○	○	○	○	○	○	—	—	—	—	—	—
10H-2	○	○	○	○	○	○	○	○	○	○	○	○

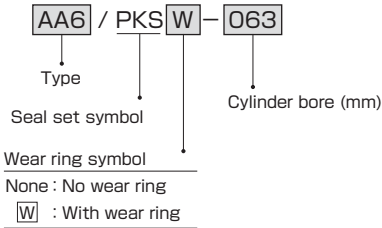
Composite cylinder

Bore (mm) Series	φ 10	φ 16	φ 32	φ 40	φ 50	φ 63	φ 80
CL1	—	—	—	—	○	○	—
RCA2	—	—	—	○	○	○	—
EU	—	—	—	—	—	—	—
TPU	○	○	—	—	—	—	—
ST3	—	—	○	○	○	—	○

Note) ●For the ●-marked cylinders, the parts lists and seal lists are provided. For the □-marked cylinders, seal lists have not been prepared.
 For the seal lists of the ○-marked cylinders, separately consult us.
 For the series not listed in this section, see the specification pages of the series.
 ●For EU Series, the bores are not indicated.

How to order seal set

When placing an order, inform us of the type code shown below.



Note) For details, refer to the sectional drawings.

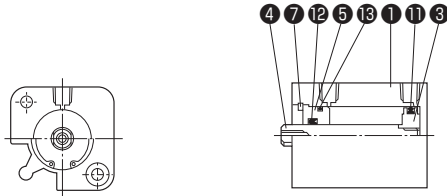
Sectional Drawing/Seal List
Compact design pneumatic cylinder

Bore (mm) Series	φ 10	φ 12	φ 16	φ 20	φ 25	φ 32	φ 40	φ 50	φ 63	φ 80	φ 100	φ 125	φ 140	φ 160
10S-1	—	●	●	●	●	●	●	●	●	●	●	●	—	—
10S-1R	—	●	●	●	●	●	●	●	●	●	●	●	—	—
10S-5	—	—	—	—	—	○	○	○	○	○	○	○	—	—
10S-6	—	●	●	●	●	●	●	●	●	●	●	●	●	●
10S-6G	—	—	—	●	●	●	●	●	●	●	●	—	—	—
10S-6C	—	—	—	□	□	□	□	□	□	—	—	—	—	—
10S-6RE	—	—	—	—	—	●	●	●	●	●	●	—	—	—
10S-6REC	—	—	—	—	—	□	□	□	□	—	—	—	—	—
10F-2	—	—	—	—	○	○	—	○	—	—	—	—	—	—
10F-1	—	—	—	—	○	○	—	○	—	—	—	—	—	—
10G-3	—	□	□	□	□	□	—	—	—	—	—	—	—	—
10G-2	—	—	—	○	—	○	○	○	○	○	—	—	—	—
7W-1	○	—	○	○	○	○	—	—	—	—	—	—	—	—
7W-1L	—	—	—	○	○	○	—	—	—	—	—	—	—	—
TS	○	—	○	—	○	○	—	—	—	—	—	—	—	—
TSL	—	—	○	—	○	○	—	—	—	—	—	—	—	—
TSB	—	○	—	○	○	○	—	—	—	—	—	—	—	—
RL2	—	○	—	○	○	○	○	○	—	—	—	—	—	—
RL3	□	□	—	□	□	□	□	□	—	—	—	—	—	—

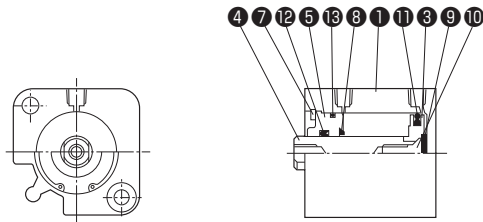
Note) ●For the ●-marked cylinders, the parts lists and seal lists are provided. For the □-marked cylinders, seal lists have not been prepared.
 For the seal lists of the ○-marked cylinders, separately consult us.
 For the series not listed in this section, see the specification pages of the series.

Standard/Double acting single rod

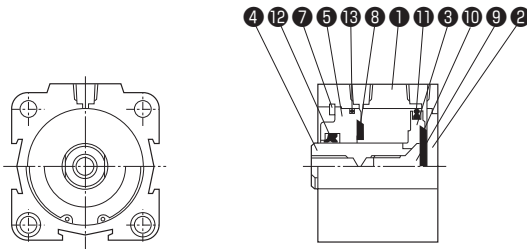
- Bore $\phi 12 \cdot \phi 16$



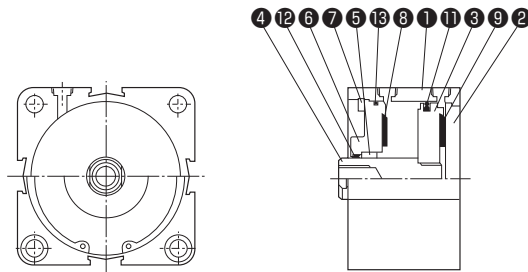
- Bore $\phi 20 \cdot \phi 25 \cdot \phi 32$



- Bore $\phi 40 \cdot \phi 50 \cdot \phi 63$



- Bore $\phi 80 \cdot \phi 100 \cdot \phi 125$



Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Body bottom plate	Aluminum alloy (φ40 to φ125)	1
③	Piston	Copper alloy (φ12 to φ63) Carbon steel for machine structural use (φ80 to φ125)	1
④	Piston rod	Stainless steel (plated with hard chrome):(φ12 to φ32) Carbon steel for machine structural use (plated with hard chrome):(φ40 to φ125)	1
⑤	Bush	Copper alloy (φ12 to φ63) Aluminum alloy (with wear-resistant surface treatment):(φ80 to φ125)	1
⑥	Bush housing	Aluminum alloy (φ80 to φ125)	1
⑦	Set ring	Carbon steel	1
⑧	Cushion pad (side R)	Urethane rubber	1
⑨	Cushion pad (side H)	Urethane rubber	1
⑩	Piston set screw	Chromium-molybdenum steel (φ20 to φ63)	1

Seal List/10S-1

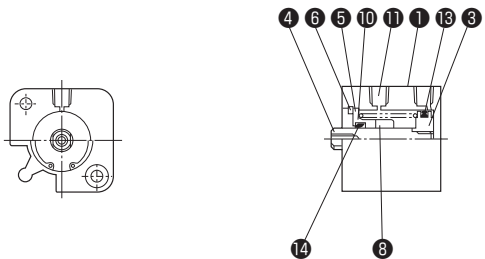
No.	Part name	Material	Qty.	Part number					
				φ12	φ16	φ20	φ25	φ32	φ40
⑪	Piston seal	Nitrile rubber	1	PSD-12	PSD-16	ZT-20	ZT-25	ZT-32	ZT-40
⑫	Rod seal	Nitrile rubber	1	MYR-6	MYR-6	MYR-10	MYR-10	MYR-16	DRP-16
⑬	O-ring for bush	Nitrile rubber	1	S-10	S-14	S-18	S-22	S-29	S-36
Seal set	Double acting single rod cylinder	———	1 set	AS1/PKS-012	AS1/PKS-016	AS1/PKS-020	AS1/PKS-025	AS1/PKS-032	AS1/PKS-040

No.	Part name	Material	Qty.	Part number				
				φ50	φ63	φ80	φ100	φ125
⑪	Piston seal	Nitrile rubber	1	ZT-50	ZT-63	ZT-80	ZT-100	ZT-125
⑫	Rod seal	Nitrile rubber	1	DRP-20	DRP-20	DRP-25	DRP-25	PRD-32
⑬	O-ring for bush	Nitrile rubber	1	S-46	S-60	S-75	S-95	S-120
Seal set	Double acting single rod cylinder	———	1 set	AS1/PKS-050	AS1/PKS-063	AS1/PKS-080	AS1/PKS-100	AS1/PKS-125

Note) The seal nominal types are subject to change.

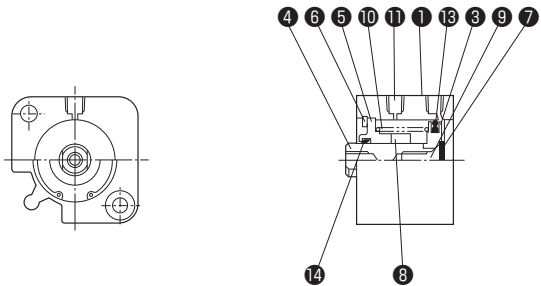
Standard/Single acting spring return(SR type)

●Boreφ12・φ16



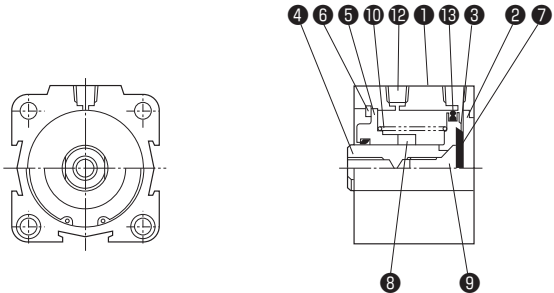
(Note) The 12 mm bore cylinder is not provided with the dust wiper for bush 14.
The 5- and 10-stroke cylinders are not provided with the collar 8.

●Boreφ20・φ25・φ32



(Note) The 5- and 10-stroke cylinders are not provided with the collar 8.

●Boreφ40・φ50



(Note) The 5- and 10-stroke cylinders are not provided with the collar 8.

Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Body bottom plate	Aluminum alloy (φ40・φ50)	1
3	Piston	Copper alloy	1
4	Piston rod	Stainless steel (plated with hard chrome):(φ12 to φ32) Carbon steel for machine structural use (plated with hard chrome):(φ40・φ50)	1
5	Bush	Copper alloy	1
6	Set ring	Carbon steel	1
7	Cushion pad	Urethane rubber (φ20 to φ50)	1
8	Collar	Aluminum alloy	1
9	Piston set screw	Chromium-molybdenum steel (φ20 to φ50)	1
10	Spring	Piano wire	1
11	Filter	Resin (φ12 to φ32)	1
12	Filter plug	— (φ40・φ50)	1

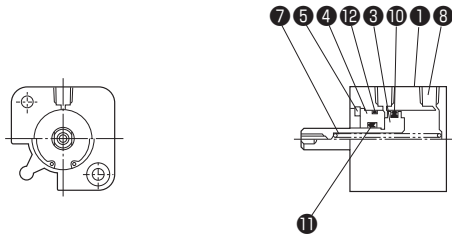
Seal List/10S-1SR

No.	Part name	Material	Qty.	Part number						
				φ12	φ16	φ20	φ25	φ32	φ40	φ50
13	Piston seal	Nitrile rubber	1	PSD-12	PSD-16	ZT-20	ZT-25	ZT-32	ZT-40	ZT-50
14	Dust wiper for bush	Nitrile rubber	1	—	SER-6	SER-10	SER-10	SER-16	SER-16	SER-20
Seal set	Single acting (spring return) single rod cylinder	—	1 set	AS1SR/PKS-012	AS1SR/PKS-016	AS1SR/PKS-020	AS1SR/PKS-025	AS1SR/PKS-032	AS1SR/PKS-040	AS1SR/PKS-050

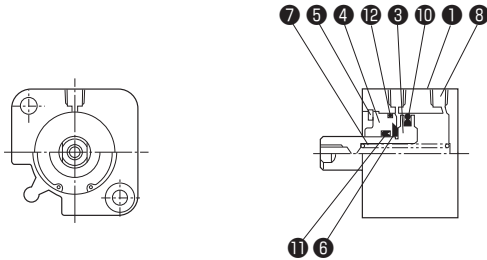
Note) The seal nominal types are subject to change.

Standard/Single acting spring-extended(SH type)

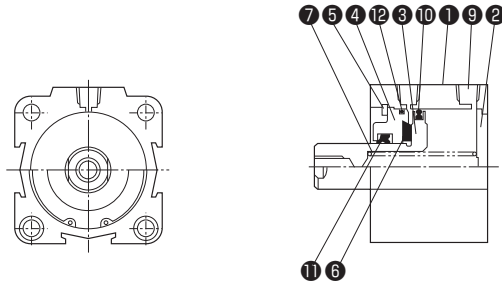
●Boreφ12・φ16



●Boreφ20・φ25・φ32



●Boreφ40・φ50



Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Body bottom plate	Aluminum alloy (φ40・φ50)	1
③	Piston and piston rod	Stainless steel	1
④	Bush	Copper alloy	1
⑤	Set ring	Carbon steel	1
⑥	Cushion pad	Urethane rubber (φ20 to φ50)	1
⑦	Spring	Piano wire	1
⑧	Filter	Resin (φ12 to φ32)	1
⑨	Plug silencer	— (φ40・φ50)	1

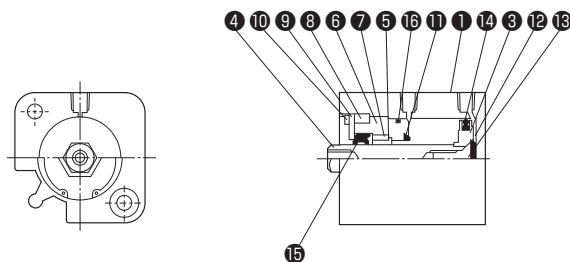
Seal List/10S-1SH

No.	Part name	Material	Qty.	Part number						
				φ12	φ16	φ20	φ25	φ32	φ40	φ50
⑩	Piston seal	Nitrile rubber	1	PSD-12	PSD-16	ZT-20	ZT-25	ZT-32	ZT-40	ZT-50
⑪	Rod seal	Nitrile rubber	1	MYR-6	MYR-6	MYR-10	MYR-10	MYR-16	DRP-16	DRP-20
⑫	O-ring for bush	Nitrile rubber	1	S-10	S-14	S-18	S-22	S-29	S-36	S-46
Seal set	Single acting (spring-extended) single rod cylinder	—	1 set	AS1D/PKS-012	AS1D/PKS-016	AS1D/PKS-020	AS1D/PKS-025	AS1D/PKS-032	AS1D/PKS-040	AS1D/PKS-050

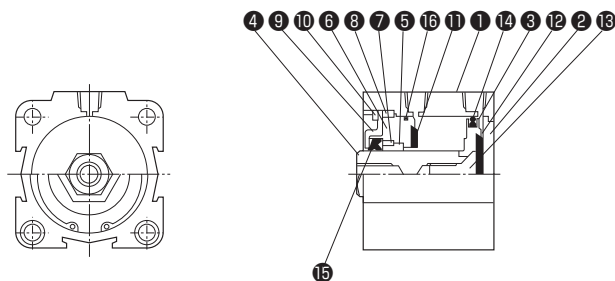
Note) The seal nominal types are subject to change.

Non-rotating/Double acting single rod

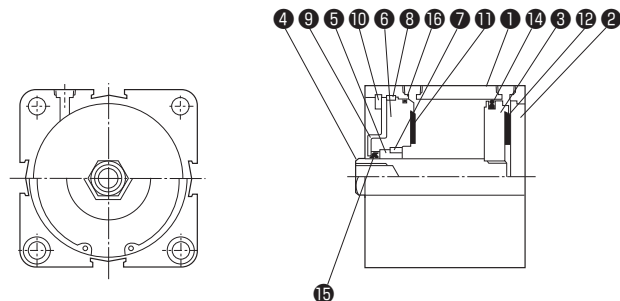
- Bore $\phi 20 \cdot \phi 25 \cdot \phi 32$



- Bore $\phi 40 \cdot \phi 50 \cdot \phi 63$



- Bore $\phi 80 \cdot \phi 100$



Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Body bottom plate	Aluminum alloy (φ40 to φ100)	1
③	Piston	Copper alloy (φ20 to φ63) Carbon steel for machine structural use (φ80・φ100)	1
④	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
⑤	Bush	Oil-impregnated sintered bearing (φ20 to φ40) Aluminum alloy (with wear-resistant surface treatment): (φ50 to φ100)	1
⑥	Bush housing	Copper alloy (φ20 to φ63) Aluminum alloy (φ80・φ100)	1
⑦	Spring pin	Stainless steel	1
⑧	Parallel key	Carbon steel for machine structural use	1
⑨	Rod seal retainer	Cold rolled steel	1
⑩	Set ring	Carbon steel	1
⑪	Cushion pad (side R)	Urethane rubber	1
⑫	Cushion pad (side H)	Urethane rubber	1
⑬	Piston set screw	Chromium-molybdenum steel (φ20 to φ63)	1

Seal List/10S-1G

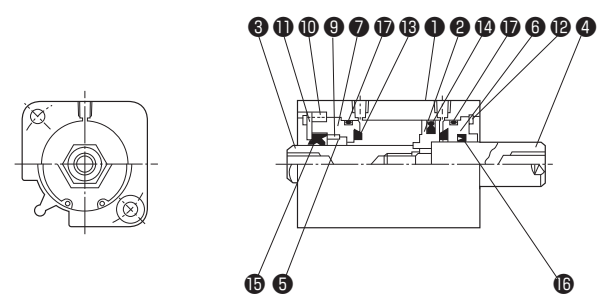
No.	Part name	Material	Qty.	Part number			
				φ20	φ25	φ32	φ40
14	Piston seal	Nitrile rubber	1	ZT-20	ZT-25	ZT-32	ZT-40
15	Rod seal	Urethane rubber	1	PGR-9	PGR-9	PGR-14A	PGR-14A
16	O-ring for bush	Nitrile rubber	1	S-18	S-22	S-29	S-36
Seal set	Double acting non-rotating single rod cylinder	—	1 set	AS1G/PKS-020	AS1G/PKS-025	AS1G/PKS-032	AS1G/PKS-040

No.	Part name	Material	Qty.	Part number			
				φ50	φ63	φ80	φ100
14	Piston seal	Nitrile rubber	1	ZT-50	ZT-63	ZT-80	ZT-100
15	Rod seal	Urethane rubber	1	PGR-19	PGR-19	PGR-23	PGR-23
16	O-ring for bush	Nitrile rubber	1	S-46	S-60	S-75	S-95
Seal set	Double acting non-rotating single rod cylinder	—	1 set	AS1G/PKS-050	AS1G/PKS-063	AS1G/PKS-080	AS1G/PKS-100

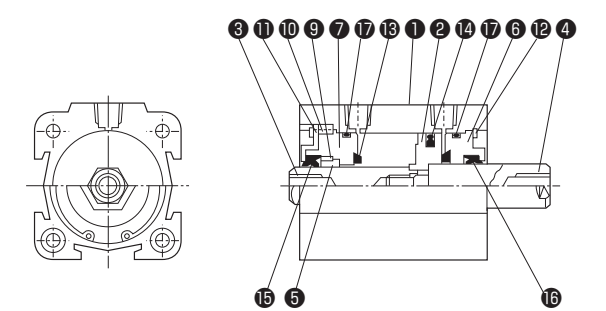
Note) The seal nominal types are subject to change.

Non-rotating/Double acting double rod

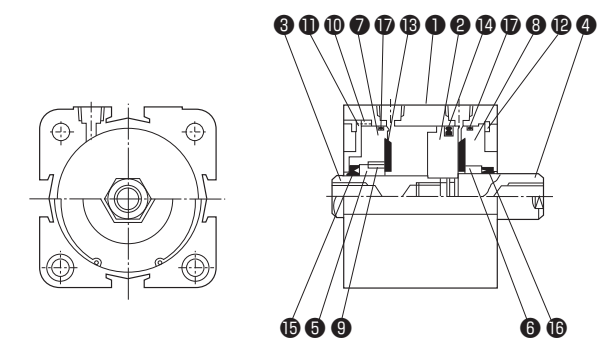
● Bore $\phi 20 \cdot \phi 25 \cdot \phi 32$



● Bore $\phi 40 \cdot \phi 50 \cdot \phi 63$



● Bore $\phi 80 \cdot \phi 100$



(Note) The piston rod A ③ is a hex. rod, and the piston rod B ④ is a round rod.

Sectional Drawing
10S-1

Sectional Drawing
10S-1

Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Piston	Copper alloy ($\phi 20$ to $\phi 63$) Carbon steel for machine structural use ($\phi 80 \cdot \phi 100$)	1
③	Piston rod A	Carbon steel for machine structural use (plated with hard chrome)	1
④	Piston rod B	Stainless steel (plated with hard chrome): ($\phi 20$ to $\phi 32$) Carbon steel for machine structural use (plated with hard chrome): ($\phi 40$ to $\phi 100$)	1
⑤	Bush A	Oil-impregnated sintered bearing ($\phi 20$ to $\phi 40$) Aluminum alloy ($\phi 50$ to $\phi 100$)	1
⑥	Bush B	Copper alloy ($\phi 20$ to $\phi 63$) Aluminum alloy ($\phi 80 \cdot \phi 100$)	1
⑦	Bush housing A	Copper alloy ($\phi 20$ to $\phi 63$) Aluminum alloy ($\phi 80 \cdot \phi 100$)	1
⑧	Bush housing B	Aluminum alloy ($\phi 80 \cdot \phi 100$)	1
⑨	Spring pin	Stainless steel	1
⑩	Parallel key	Carbon steel for machine structural use	1
⑪	Rod seal retainer	Cold rolled steel	1
⑫	Set ring	Carbon steel	2
⑬	Cushion pad	Urethane rubber	2

Seal List/10S-1GD

No.	Part name	Material	Qty.	Part number			
				$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
⑭	Piston seal	Nitrile rubber	1	ZT-20	ZT-25	ZT-32	ZT-40
⑮	Rod seal A	Urethane rubber	1	PGR-9	PGR-9	PGR-14A	PGR-14A
⑯	Rod seal B	Nitrile rubber	1	MYR-10	MYR-10	MYR-16	DRP-16
⑰	O-ring for bush	Nitrile rubber	2	S-18	S-22	S-29	S-36
Seal set	Double acting non-rotating double rod cylinder	—	1 set	AS1GD/PKS-020	AS1GD/PKS-025	AS1GD/PKS-032	AS1GD/PKS-040

No.	Part name	Material	Qty.	Part number			
				$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
⑭	Piston seal	Nitrile rubber	1	ZT-50	ZT-63	ZT-80	ZT-100
⑮	Rod seal A	Urethane rubber	1	PGR-19	PGR-19	PGR-23	PGR-23
⑯	Rod seal B	Nitrile rubber	1	DRP-20	DRP-20	DRP-25	DRP-25
⑰	O-ring for bush	Nitrile rubber	2	S-46	S-60	S-75	S-95
Seal set	Double acting non-rotating double rod cylinder	—	1 set	AS1GD/PKS-050	AS1GD/PKS-063	AS1GD/PKS-080	AS1GD/PKS-100

Note) The seal nominal types are subject to change.

Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Body bottom plate	Aluminum alloy (φ40 to φ125)	1
3	Piston	Copper alloy (φ12 to φ63) Stainless steel (φ80 to φ125)	1
4	Piston rod	Stainless steel (plated with hard chrome):(φ12 to φ32) Carbon steel for machine structural use (plated with hard chrome):(φ40 to φ125)	1
5	Bush	Copper alloy (φ12 to φ63) Aluminum alloy (with wear-resistant surface treatment):(φ80 to φ125)	1
6	Bush housing	Aluminum alloy (φ80 to φ125)	1
7	Set ring	Carbon steel	1
8	Cushion pad (side R)	Urethane rubber	1
9	Cushion pad (side H)	Urethane rubber	1
10	Magnet	—	—
11	Spacer	Copper alloy (φ12 to φ63) Aluminum alloy (φ80 to φ125)	1
12	Piston set screw	Chromium-molybdenum steel (φ20 to φ63)	1
13	Sensor	—	—

Seal List/10S-1R

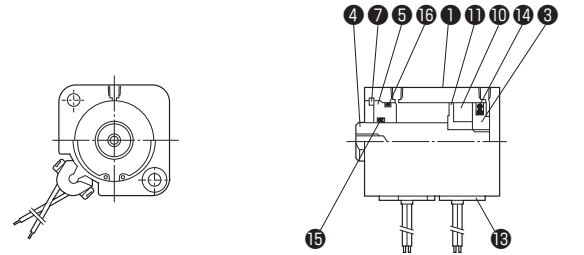
No.	Part name	Material	Qty.	Part number					
				φ12	φ16	φ20	φ25	φ32	φ40
14	Piston seal	Nitrile rubber	1	PSD-12	PSD-16	ZT-20	ZT-25	ZT-32	ZT-40
15	Rod seal	Nitrile rubber	1	MYR-6	MYR-6	MYR-10	MYR-10	MYR-16	DRP-16
16	O-ring for bush	Nitrile rubber	1	S-10	S-14	S-18	S-22	S-29	S-36
Seal set	Double acting single rod cylinder	—	1 set	AS1/PKS-012	AS1/PKS-016	AS1/PKS-020	AS1/PKS-025	AS1/PKS-032	AS1/PKS-040

No.	Part name	Material	Qty.	Part number				
				φ50	φ63	φ80	φ100	φ125
14	Piston seal	Nitrile rubber	1	ZT-50	ZT-63	ZT-80	ZT-100	ZT-125
15	Rod seal	Nitrile rubber	1	DRP-20	DRP-20	DRP-25	DRP-25	PRD-32
16	O-ring for bush	Nitrile rubber	1	S-46	S-60	S-75	S-95	S-120
Seal set	Double acting single rod cylinder	—	1 set	AS1/PKS-050	AS1/PKS-063	AS1/PKS-080	AS1/PKS-100	AS1/PKS-125

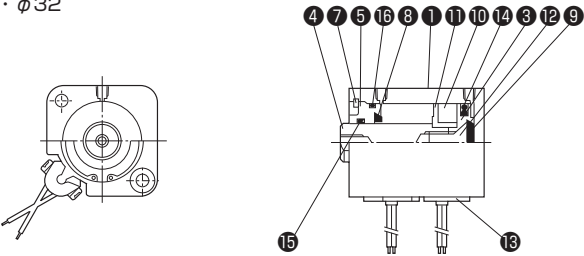
Note) The seal nominal types are subject to change.

Standard/Double acting single rod(Switch Set)

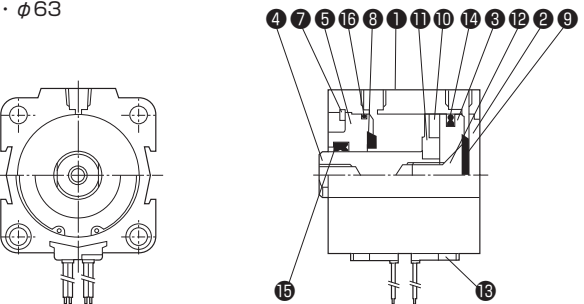
●Boreφ12・φ16



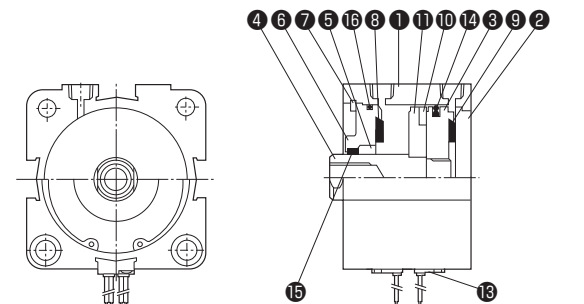
●Boreφ20・φ25・φ32



●Boreφ40・φ50・φ63

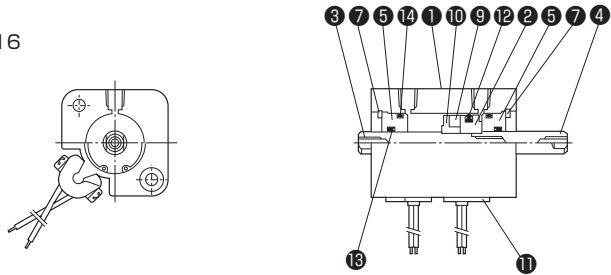


●Boreφ80・φ100・φ125

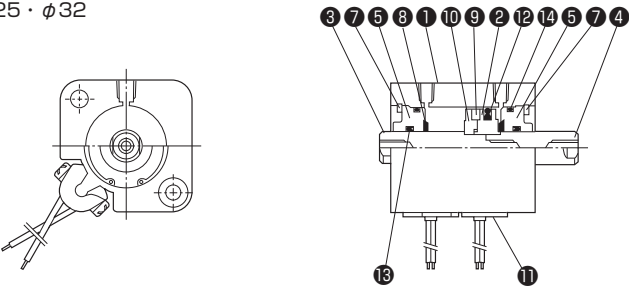


Standard/Double acting double rod(Switch Set)

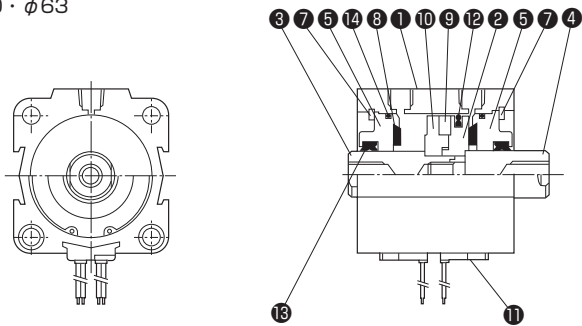
●Boreφ12・φ16



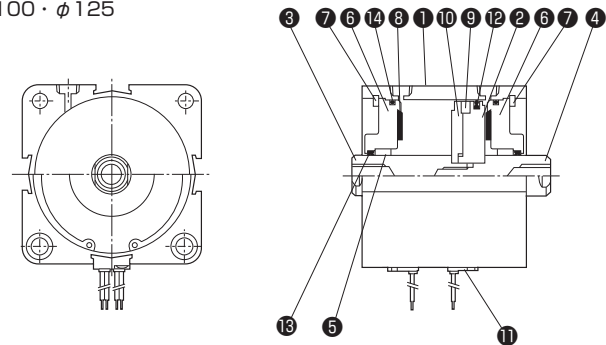
●Boreφ20・φ25・φ32



●Boreφ40・φ50・φ63



●Boreφ80・φ100・φ125



Sectional Drawing

10S-1R

Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Piston	Copper alloy (φ12 to φ63) Stainless steel (φ80 to φ125)	1
③	Piston rod A	Stainless steel (plated with hard chrome):(φ12 to φ32) Carbon steel for machine structural use (plated with hard chrome):(φ40 to φ125)	1
④	Piston rod B	Stainless steel (plated with hard chrome):(φ12 to φ32) Carbon steel for machine structural use (plated with hard chrome):(φ40 to φ125)	1
⑤	Bush	Copper alloy (φ12 to φ63) Aluminum alloy (with wear-resistant surface treatment):(φ80 to φ125)	2
⑥	Bush housing	Aluminum alloy (φ80 to φ125)	2
⑦	Set ring	Carbon steel	2
⑧	Cushion pad	Urethane rubber	2
⑨	Magnet	—	—
⑩	Spacer	Copper alloy (φ12 to φ63) Aluminum alloy (φ80 to φ125)	1
⑪	Sensor	—	—

Sectional Drawing

10S-1R

Seal List/10S-1RD

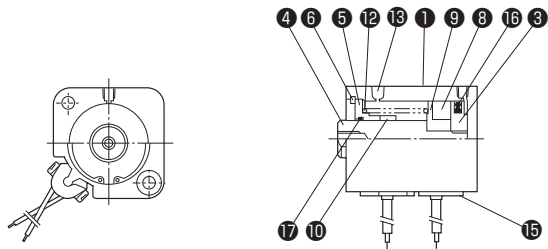
No.	Part name	Material	Qty.	Part number					
				φ12	φ16	φ20	φ25	φ32	φ40
⑫	Piston seal	Nitrile rubber	1	PSD-12	PSD-16	ZT-20	ZT-25	ZT-32	ZT-40
⑬	Rod seal	Nitrile rubber	2	MYR-6	MYR-6	MYR-10	MYR-10	MYR-16	DRP-16
⑭	O-ring for bush	Nitrile rubber	2	S-10	S-14	S-18	S-22	S-29	S-36
Seal set	Double acting double rod cylinder	—	1 set	AS1D/PKS-012	AS1D/PKS-016	AS1D/PKS-020	AS1D/PKS-025	AS1D/PKS-032	AS1D/PKS-040

No.	Part name	Material	Qty.	Part number				
				φ50	φ63	φ80	φ100	φ125
⑫	Piston seal	Nitrile rubber	1	ZT-50	ZT-63	ZT-80	ZT-100	ZT-125
⑬	Rod seal	Nitrile rubber	2	DRP-20	DRP-20	DRP-25	DRP-25	PRD-32
⑭	O-ring for bush	Nitrile rubber	2	S-46	S-60	S-75	S-95	S-120
Seal set	Double acting double rod cylinder	—	1 set	AS1D/PKS-050	AS1D/PKS-063	AS1D/PKS-080	AS1D/PKS-100	AS1D/PKS-125

Note) The seal nominal types are subject to change.

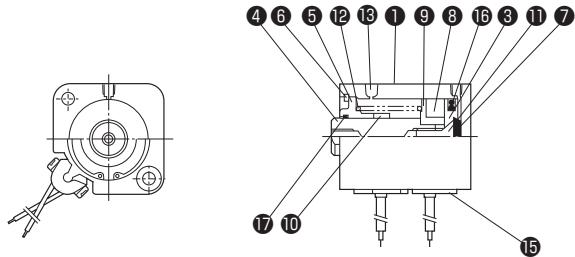
Standard/Single acting spring return(SR type) (Switch Set)

●Boreφ12・φ16



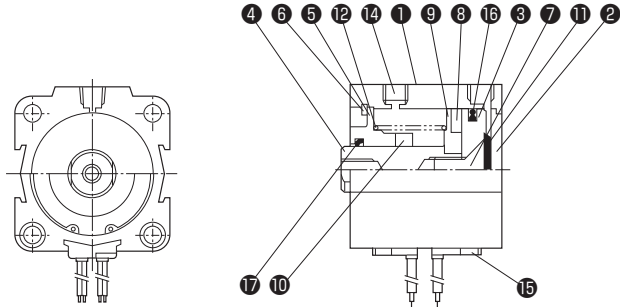
(Note) The 12 mm bore cylinder is not provided with the dust wiper for bush 17.
The 5- and 10-stroke cylinders are not provided with the collar 10.

●Boreφ20・φ25・φ32



(Note) The 5- and 10-stroke cylinders are not provided with the collar 10.

●Boreφ40・φ50



(Note) The 5- and 10-stroke cylinders are not provided with the collar 10.

Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Body bottom plate	Aluminum alloy (φ40・φ50)	1
3	Piston	Copper alloy	1
4	Piston rod	Stainless steel (plated with hard chrome):(φ12 to φ32) Carbon steel for machine structural use (plated with hard chrome):(φ40・φ50)	1
5	Bush	Copper alloy	1
6	Set ring	Carbon steel	1
7	Cushion pad	Urethane rubber (φ20 to φ50)	—
8	Magnet	—	—
9	Spacer	Copper alloy	1
10	Collar	Aluminum alloy	1
11	Piston set screw	Chromium-molybdenum steel (φ20 to φ50)	1
12	Spring	Piano wire	1
13	Filter	Resin (φ12 to φ32)	1
14	Plug silencer	— (φ40・φ50)	1
15	Sensor	—	—

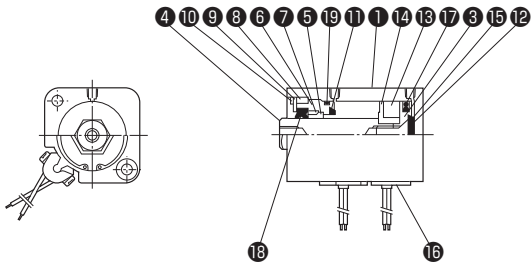
Seal List/10S-1RSR

No.	Part name	Material	Qty.	Part number						
				φ12	φ16	φ20	φ25	φ32	φ40	φ50
16	Piston seal	Nitrile rubber	1	PSD-12	PSD-16	ZT-20	ZT-25	ZT-32	ZT-40	ZT-50
17	Dust wiper for bush	Nitrile rubber	1	—	SER-6	SER-10	SER-10	SER-16	SER-16	SER-20
Seal set	Single acting (spring return) single rod cylinder	—	1 set	AS1SR/PKS-012	AS1SR/PKS-016	AS1SR/PKS-020	AS1SR/PKS-025	AS1SR/PKS-032	AS1SR/PKS-040	AS1SR/PKS-050

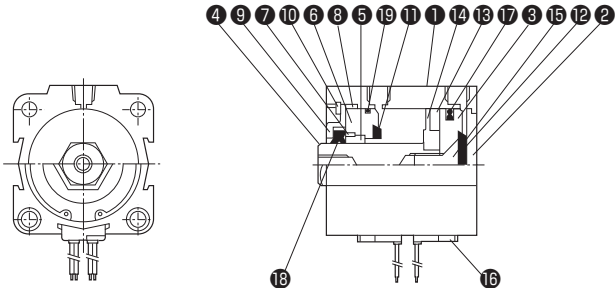
Note) The seal nominal types are subject to change.

Non-rotating/Double acting single rod(Switch Set)

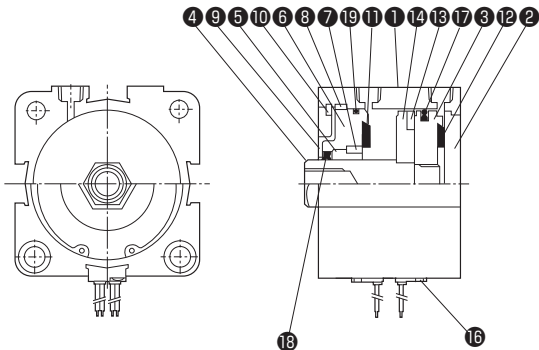
●Boreφ20 · φ25 · φ32



●Boreφ40 · φ50 · φ63



●Boreφ80 · φ100



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Body bottom plate	Aluminum alloy (φ40·φ100)	1
3	Piston	Copper alloy (φ12 to φ63) Stainless steel (φ60·φ100)	1
4	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
5	Bush	Oil-impregnated sintered bearing (φ20 to φ40) Aluminum alloy (with wear-resistant surface treatment):(φ50 to φ100)	1
6	Bush housing	Copper alloy (φ20 to φ63) Aluminum alloy (φ80·φ100)	1
7	Spring pin	Stainless steel	1
8	Parallel key	Carbon steel for machine structural use	1
9	Rod seal retainer	Cold rolled steel	1
10	Set ring	Carbon steel	1
11	Cushion pad (side R)	Urethane rubber	1
12	Cushion pad (side H)	Urethane rubber	1
13	Magnet	—	—
14	Spacer	Copper alloy (φ20 to φ63) Aluminum alloy (φ80·φ100)	1
15	Piston set screw	Chromium-molybdenum steel (φ20 to φ63)	1
16	Sensor	—	—

Seal List/10S-1RG

No.	Part name	Material	Qty.	Part number			
				φ20	φ25	φ32	φ40
17	Piston seal	Nitrile rubber	1	ZT-20	ZT-25	ZT-32	ZT-40
18	Rod seal	Urethane rubber	1	PGR-9	PGR-9	PGR-14A	PGR-14A
19	O-ring for bush	Nitrile rubber	1	S-18	S-22	S-29	S-36
Seal set	Double acting non-rotating single rod cylinder	—	1 set	AS1G/PKS-020	AS1G/PKS-025	AS1G/PKS-032	AS1G/PKS-040
No.	Part name	Material	Qty.	Part number			
				φ50	φ63	φ80	φ100
17	Piston seal	Nitrile rubber	1	ZT-50	ZT-63	ZT-80	ZT-100
18	Rod seal	Urethane rubber	1	PGR-19	PGR-19	PGR-23	PGR-23
19	O-ring for bush	Nitrile rubber	1	S-46	S-60	S-75	S-95
Seal set	Double acting non-rotating single rod cylinder	—	1 set	AS1G/PKS-050	AS1G/PKS-063	AS1G/PKS-080	AS1G/PKS-100

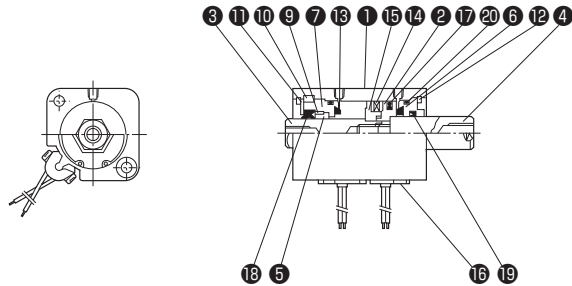
Note) The seal nominal types are subject to change.

10S-1R

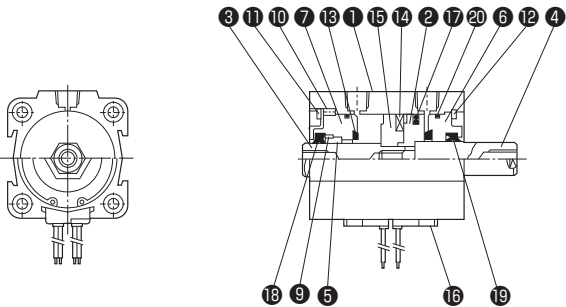
Sectional Drawing/Seal List

Non-rotating/Double acting double rod(Switch Set)

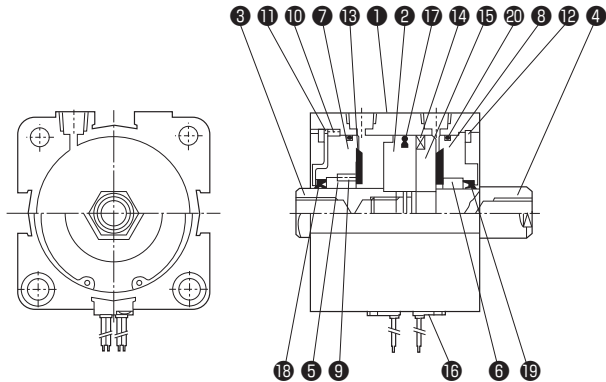
●Boreφ20・φ25・φ32



●Boreφ40・φ50・φ63



●Boreφ80・φ100



Sectional Drawing/Seal List

10S-1R

Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Piston	Copper alloy (φ20 to φ63) Stainless steel (φ80・φ100)	1
3	Piston rod A	Carbon steel for machine structural use (plated with hard chrome)	1
4	Piston rod B	Stainless steel (plated with hard chrome):(φ20 to φ32) Carbon steel for machine structural use (plated with hard chrome):(φ40 to φ100)	1
5	Bush A	Oil-impregnated sintered bearing (φ20 to φ40) Aluminum alloy (φ50 to φ100)	1
6	Bush B	Copper alloy (φ20 to φ63) Aluminum alloy (φ80・φ100)	1
7	Bush housing A	Copper alloy (φ20 to φ63) Aluminum alloy (φ80・φ100)	1
8	Bush housing B	Aluminum alloy (φ80・φ100)	1
9	Spring pin	Stainless steel	1
10	Parallel key	Carbon steel for machine structural use	1
11	Rod seal retainer	Cold rolled steel	1
12	Set ring	Carbon steel	1
13	Cushion pad	Urethane rubber	2
14	Magnet	—	—
15	Spacer	Copper alloy (φ20 to φ63) Aluminum alloy (φ80・φ100)	1
16	Sensor	—	—

Seal List/10S-1RGD

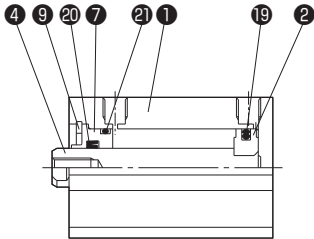
No.	Part name	Material	Qty.	Part number			
				φ20	φ25	φ32	φ40
17	Piston seal	Nitrile rubber	1	ZT-20	ZT-25	ZT-32	ZT-40
18	Rod seal A	Urethane rubber	1	PGR-9	PGR-9	PGR-14A	PGR-14A
19	Rod seal B	Nitrile rubber	1	MYR-10	MYR-10	MYR-16	DRP-16
20	O-ring for bush	Nitrile rubber	2	S-18	S-22	S-29	S-36
Seal set	Double acting non-rotating double rod cylinder	—	1 set	AS1GD/PKS-020	AS1GD/PKS-025	AS1GD/PKS-032	AS1GD/PKS-040

No.	Part name	Material	Qty.	Part number			
				φ50	φ63	φ80	φ100
17	Piston seal	Nitrile rubber	1	ZT-50	ZT-63	ZT-80	ZT-100
18	Rod seal A	Urethane rubber	1	PGR-19	PGR-19	PGR-23	PGR-23
19	Rod seal B	Nitrile rubber	1	DRP-20	DRP-20	DRP-25	DRP-25
20	O-ring for bush	Nitrile rubber	2	S-46	S-60	S-75	S-95
Seal set	Double acting non-rotating double rod cylinder	—	1 set	AS1GD/PKS-050	AS1GD/PKS-063	AS1GD/PKS-080	AS1GD/PKS-100

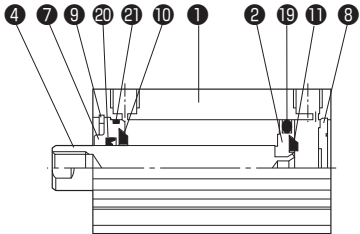
Note) The seal nominal types are subject to change.

Standard/Double acting single rod

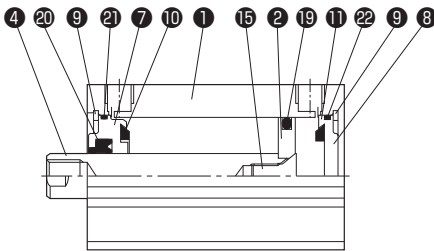
●Bore $\phi 12 \cdot \phi 16$



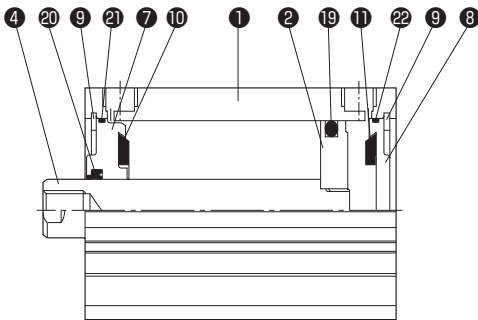
●Bore $\phi 20 \cdot \phi 25 \cdot \phi 32$



●Bore $\phi 40 \cdot \phi 50 \cdot \phi 63$



●Bore $\phi 80 \cdot \phi 100$



Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Piston	Aluminum alloy (with wear-resistant surface treatment)	1
④	Piston rod	Stainless steel (plated with hard chrome) $\phi 12$ to $\phi 25$ Carbon steel for machine structural use (plated with hard chrome) $\phi 32$ to $\phi 100$	1
⑦	Rod cover	Aluminum alloy	1
⑧	Cap cover	Aluminum alloy	1
⑨	Set ring	Carbon steel	1 (2)
⑩	Cushion pad (Rod side)	Urethane rubber	1
⑪	Cushion pad (Cap side)	Urethane rubber	1
⑮	Piston set screw	Chromium-molybdenum steel ($\phi 40$ to $\phi 63$)	1

●The quantity in parentheses applies to $\phi 40$, $\phi 50$, $\phi 63$, $\phi 80$, and $\phi 100$.

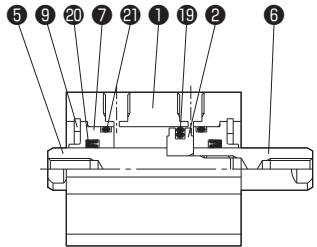
Seal List/10S-6

No.	Part name	Material	Qty.	Part number				
				$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$
⑮	Piston seal	Nitrile rubber	1	PSP-12	PSP-16	PWP-20N	PWP-25N	PWP-32N
⑳	Rod seal	Nitrile rubber	1	MYR-6	MYR-8	MYR-10	MYR-12	MYR-16
㉑	O-ring for rod cover	Nitrile rubber	1	$\phi 10 \times \phi 1$	$\phi 14 \times \phi 1.3$	S-18	S-22	$\phi 29 \times \phi 1.5$
㉒	O-ring for cap cover	Nitrile rubber	1	—	—	—	—	—
Seal set	Double acting single rod cylinder	—	1 set	AS6/PKS-012	AS6/PKS-016	AS6/PKS-020	AS6/PKS-025	AS6/PKS-032

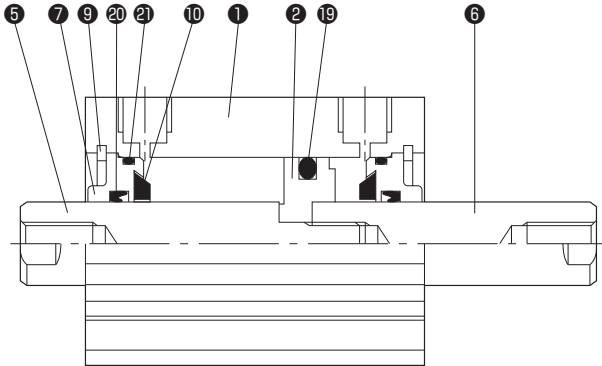
No.	Part name	Material	Qty.	Part number				
				$\phi 40$	$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
⑮	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
⑳	Rod seal	Nitrile rubber	1	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30
㉑	O-ring for rod cover	Nitrile rubber	1	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$	$\phi 61.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
㉒	O-ring for cap cover	Nitrile rubber	1	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$	$\phi 61.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
Seal set	Double acting single rod cylinder	—	1 set	AS6/PKS-040	AS6/PKS-050	AS6/PKS-063	AS6/PKS-080	AS6/PKS-100

Standard/Double acting double rod

●Bore $\phi 12 \cdot \phi 16$



●Bore $\phi 20$ to $\phi 100$



Parts List

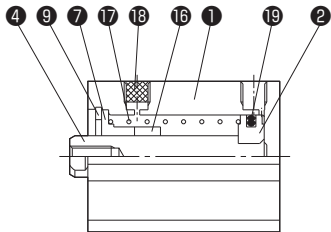
No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Piston	Aluminum alloy	1
⑤	Piston rod A	Stainless steel (plated with hard chrome) $\phi 12$ to $\phi 25$ Carbon steel for machine structural use (plated with hard chrome) $\phi 32$ to $\phi 100$	1
⑥	Piston rod B	Stainless steel (plated with hard chrome) $\phi 12$ to $\phi 25$ Carbon steel for machine structural use (plated with hard chrome) $\phi 32$ to $\phi 100$	1
⑦	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	2
⑨	Set ring	Carbon steel	2
⑩	Cushion pad (Rod side)	Urethane rubber	2

Seal List/10S-6D

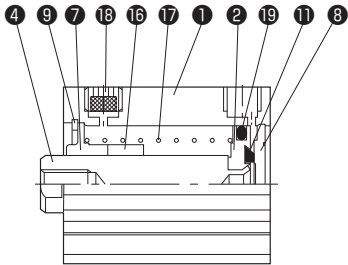
No.	Part name	Material	Qty.	Part number				
				$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$
⑬	Piston seal	Nitrile rubber	1	PSP-12	PSP-16	PWP-20N	PWP-25N	PWP-32N
⑭	Rod seal	Nitrile rubber	2	MYR-6	MYR-8	MYR-10	MYR-12	MYR-16
⑮	O-ring for rod cover	Nitrile rubber	2	$\phi 10 \times \phi 1$	$\phi 14 \times \phi 1.3$	S-18	S-22	$\phi 29 \times \phi 1.5$
Seal set	Double acting double rod cylinder	—	1 set	AS6D/PKS-012	AS6D/PKS-016	AS6D/PKS-020	AS6D/PKS-025	AS6D/PKS-032
No.	Part name	Material	Qty.	Part number				
				$\phi 40$	$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
⑬	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
⑭	Rod seal	Nitrile rubber	2	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30
⑮	O-ring for rod cover	Nitrile rubber	2	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$	$\phi 61.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
Seal set	Double acting double rod cylinder	—	1 set	AS6D/PKS-040	AS6D/PKS-050	AS6D/PKS-063	AS6D/PKS-080	AS6D/PKS-100

Standard/Single acting spring return (SR type)

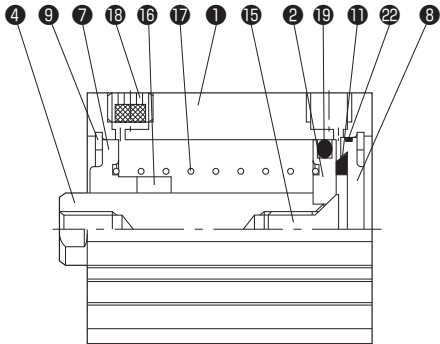
●Bore $\phi 12 \cdot \phi 16$



●Bore $\phi 20 \cdot \phi 25 \cdot \phi 32$



●Bore $\phi 40 \cdot \phi 50$



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Piston	Aluminum alloy (with wear-resistant surface treatment)	1
4	Piston rod	Stainless steel (plated with hard chrome) $\phi 12$ to $\phi 25$ Carbon steel for machine structural use (plated with hard chrome) $\phi 32$ to $\phi 50$	1
7	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	1
8	Cap cover	Aluminum alloy	1
9	Set ring	Carbon steel	Note 1
11	Cushion pad (Cap side)	Urethane rubber	1
15	Piston set screw	Chromium-molybdenum steel ($\phi 40$ to $\phi 50$)	1
16	Collar	Aluminum alloy	Note 2
17	Spring	Piano wire	1
18	Filter plug	Resin ($\phi 12$ to $\phi 40$) Sintered alloy ($\phi 50$)	1

Note 1) $\phi 12$ to $\phi 32$: 1; $\phi 40$ and $\phi 50$: 2
Note 2) $\phi 12$ to $\phi 32$ and stroke 5 and 10: None, $\phi 12$ and $\phi 16$ and stroke 15 to 20: 1, $\phi 20$ to $\phi 32$ and stroke 15 to 30: 1, $\phi 40$ and stroke 5 and 10: None, $\phi 40$ and stroke 15 to 50: 1, $\phi 50$ and stroke 10 to 20: None, $\phi 50$ and stroke 25 to 50: 1

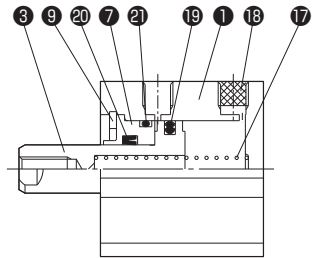
Seal List/10S-6SR

No.	Part name	Material	Qty.	Part number			
				$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$
19	Piston seal	Nitrile rubber	1	PSP-12	PSP-16	PWP-20N	PWP-25N
20	O-ring for cap cover	Nitrile rubber	1	—	—	—	—
Seal set	Single acting single rod cylinder of spring return type	—	1 set	AS6SR/PKS-012	AS6SR/PKS-016	AS6SR/PKS-020	AS6SR/PKS-025

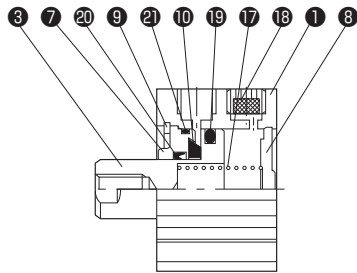
No.	Part name	Material	Qty.	Part number		
				$\phi 32$	$\phi 40$	$\phi 50$
19	Piston seal	Nitrile rubber	1	PWP-32N	PWP-40N	PWP-50N
20	O-ring for cap cover	Nitrile rubber	1	—	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$
Seal set	Single acting single rod cylinder of spring return type	—	1 set	AS6SR/PKS-032	AS6SR/PKS-040	AS6SR/PKS-050

Standard/Single acting spring-extended (SH type)

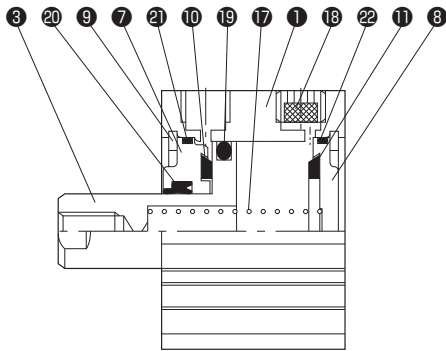
●Bore $\phi 12 \cdot \phi 16$



●Bore $\phi 20 \cdot \phi 25 \cdot \phi 32$



●Bore $\phi 40 \cdot \phi 50$



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
3	Piston and piston rod	Stainless steel	1
7	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	1
8	Cap cover	Aluminum alloy	1
9	Set ring	Carbon steel	Note 1
10	Cushion pad (Rod side)	Urethane rubber	1
11	Cushion pad (Cap side)	Urethane rubber	Note 2
17	Spring	Piano wire	1
18	Filter plug	Resin ($\phi 20$ to $\phi 40$) Sintered alloy ($\phi 50$)	1

Note 1) $\phi 12$ to $\phi 32$: 1; $\phi 40$ and $\phi 50$: 2
Note 2) $\phi 12$ to $\phi 32$: None; $\phi 40$ and $\phi 50$: 1

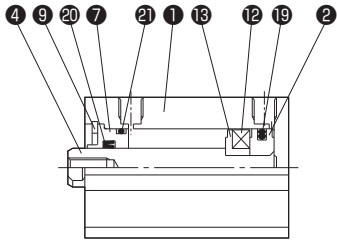
Seal List/10S-6SH

No.	Part name	Material	Qty.	Part number			
				$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$
19	Piston seal	Nitrile rubber	1	PSP-12	PSP-16	PWP-20N	PWP-25N
20	Rod seal	Nitrile rubber	1	MYR-6	MYR-8	MYR-10	MYR-12
21	O-ring for rod cover	Nitrile rubber	1	$\phi 10 \times \phi 1$	$\phi 14 \times \phi 1.3$	S-18	S-22
22	O-ring for cap cover	Nitrile rubber	1	—	—	—	—
Seal set	Single acting single rod cylinder of spring-extended type	—	1 set	AS6SH/PKS-012	AS6SH/PKS-016	AS6/PKS-020	AS6/PKS-025

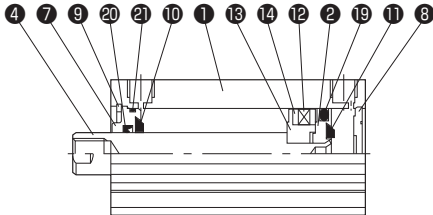
No.	Part name	Material	Qty.	Part number		
				$\phi 32$	$\phi 40$	$\phi 50$
19	Piston seal	Nitrile rubber	1	PWP-32N	PWP-40N	PWP-50N
20	Rod seal	Nitrile rubber	1	MYR-16	DRP-16	DRP-20
21	O-ring for rod cover	Nitrile rubber	1	$\phi 29 \times \phi 1.5$	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$
22	O-ring for cap cover	Nitrile rubber	1	—	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$
Seal set	Single acting single rod cylinder of spring-extended type	—	1 set	AS6/PKS-032	AS6/PKS-040	AS6/PKS-050

Standard/Double acting single rod (Switch Set)

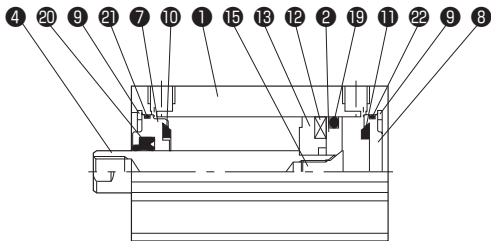
●Bore $\phi 12 \cdot \phi 16$



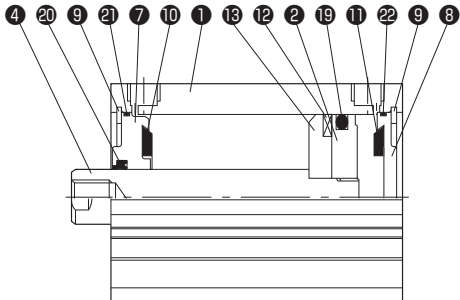
●Bore $\phi 20 \cdot \phi 25 \cdot \phi 32$



●Bore $\phi 40 \cdot \phi 50 \cdot \phi 63$



●Bore $\phi 80 \cdot \phi 100$



Sectional Drawing

10S-6

Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Piston	Aluminum alloy (with wear-resistant surface treatment)	1
④	Piston rod	Stainless steel (plated with hard chrome) $\phi 12$ to $\phi 25$ Carbon steel for machine structural use (plated with hard chrome) $\phi 32$ to $\phi 100$	1
⑦	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	1
⑧	Cap cover	Aluminum alloy	1
⑨	Set ring	Carbon steel	Note 1
⑩	Cushion pad (Rod side)	Urethane rubber	1
⑪	Cushion pad (Cap side)	Urethane rubber	1
⑫	Magnet	—	—
⑬	Spacer	Aluminum alloy	1
⑭	Yoke	Cold rolled steel ($\phi 32$)	2
⑮	Piston set screw	Chromium-molybdenum steel ($\phi 40$ to $\phi 63$)	1

Note 1) $\phi 12$ to $\phi 32$: 1; $\phi 40$ to $\phi 100$: 2

Seal List/10S-6R

No.	Part name	Material	Qty.	Part number				
				$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$
⑰	Piston seal	Nitrile rubber	1	PSP-12	PSP-16	PWP-20N	PWP-25N	PWP-32N
⑳	Rod seal	Nitrile rubber	1	MYR-6	MYR-8	MYR-10	MYR-12	MYR-16
㉑	O-ring for rod cover	Nitrile rubber	1	$\phi 10 \times \phi 1$	$\phi 14 \times \phi 1.3$	S-18	S-22	$\phi 29 \times \phi 1.5$
㉒	O-ring for cap cover	Nitrile rubber	1	—	—	—	—	—
Seal set	Double acting single rod cylinder	—	1 set	AS6/PKS -012	AS6/PKS -016	AS6/PKS -020	AS6/PKS -025	AS6/PKS -032

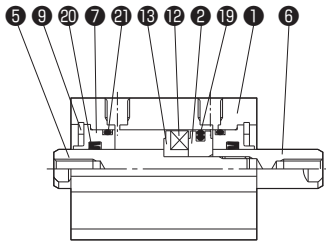
No.	Part name	Material	Qty.	Part number				
				$\phi 40$	$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
⑰	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
⑳	Rod seal	Nitrile rubber	1	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30
㉑	O-ring for rod cover	Nitrile rubber	1	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$	$\phi 61.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
㉒	O-ring for cap cover	Nitrile rubber	1	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$	$\phi 61.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
Seal set	Double acting single rod cylinder	—	1 set	AS6/PKS -040	AS6/PKS -050	AS6/PKS -063	AS6/PKS -080	AS6/PKS -100

Sectional Drawing

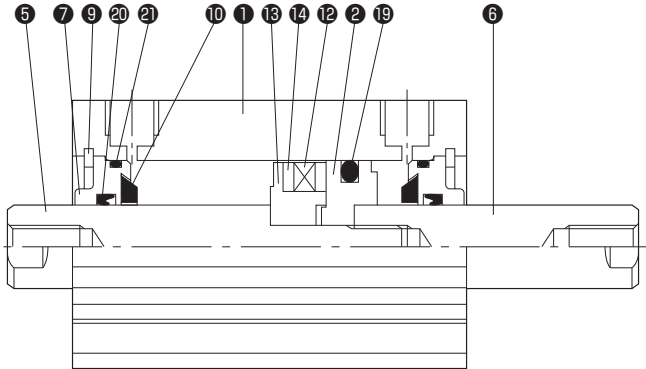
10S-6

Standard/Double acting double rod (Switch Set)

●Bore $\phi 12 \cdot \phi 16$



●Bore $\phi 20 \sim \phi 100$



Parts List

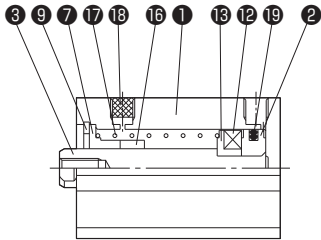
No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Piston	Aluminum alloy	1
5	Piston rod A	Stainless steel (plated with hard chrome) $\phi 12$ to $\phi 25$ Carbon steel for machine structural use (plated with hard chrome) $\phi 32$ to $\phi 100$	1
6	Piston rod B	Stainless steel (plated with hard chrome) $\phi 12$ to $\phi 25$ Carbon steel for machine structural use (plated with hard chrome) $\phi 32$ to $\phi 100$	1
7	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	2
9	Set ring	Carbon steel	2
10	Cushion pad (Rod side)	Urethane rubber	2
12	Magnet	—	—
13	Spacer	Aluminum alloy	1
14	Yoke	Cold rolled steel ($\phi 32$)	2

Seal List/10S-6RD

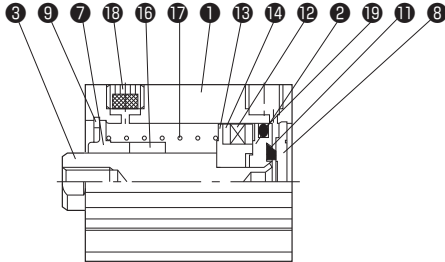
No.	Part name	Material	Qty.	Part number				
				$\phi 12$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$
19	Piston seal	Nitrile rubber	1	PSP-12	PSP-16	PWP-20N	PWP-25N	PWP-32N
20	Rod seal	Nitrile rubber	2	MYR-6	MYR-8	MYR-10	MYR-12	MYR-16
21	O-ring for rod cover	Nitrile rubber	2	$\phi 10 \times \phi 1$	$\phi 14 \times \phi 1.3$	S-18	S-22	$\phi 29 \times \phi 1.5$
Seal set	Double acting double rod cylinder	—	1 set	AS6D/PKS-012	AS6D/PKS-016	AS6D/PKS-020	AS6D/PKS-025	AS6D/PKS-032
No.	Part name	Material	Qty.	Part number				
				$\phi 40$	$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
19	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
20	Rod seal	Nitrile rubber	2	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30
21	O-ring for rod cover	Nitrile rubber	2	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$	$\phi 61.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
Seal set	Double acting double rod cylinder	—	1 set	AS6D/PKS-040	AS6D/PKS-050	AS6D/PKS-063	AS6D/PKS-080	AS6D/PKS-100

Standard/Single acting spring return (SR type) (Switch Set)

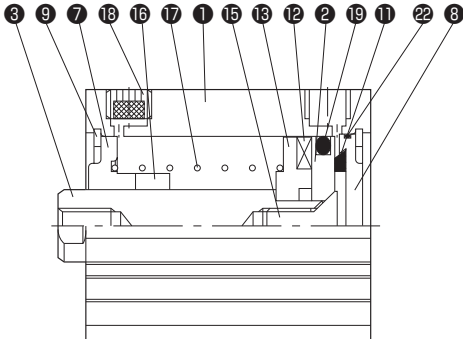
●Bore $\phi 12 \cdot \phi 16$



●Bore $\phi 20 \cdot \phi 25 \cdot \phi 32$



●Bore $\phi 40 \cdot \phi 50$



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Piston	Aluminum alloy (with wear-resistant surface treatment)	1
3	Piston rod	Stainless steel (plated with hard chrome) $\phi 12$ to $\phi 25$ Carbon steel for machine structural use (plated with hard chrome) $\phi 32$ to $\phi 50$	1
7	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	1
8	Cap cover	Aluminum alloy	1
9	Set ring	Carbon steel	Note 1
11	Cushion pad (Cap side)	Urethane rubber	1
12	Magnet	—	
13	Spacer	Aluminum alloy	1
14	Yoke	Cold rolled steel ($\phi 32$)	2
15	Piston set screw	Chromium-molybdenum steel ($\phi 40$ to $\phi 50$)	1
16	Collar	Aluminum alloy	Note 2
17	Spring	Piano wire	1
18	Filter plug	Resin ($\phi 20$ to $\phi 40$) Sintered alloy ($\phi 50$)	1

Note 1) $\phi 12$ to $\phi 32$: 1; $\phi 40$ and $\phi 50$: 2
Note 2) $\phi 12$ to $\phi 32$ and stroke 5 and 10: None, $\phi 12$ and $\phi 16$ and stroke 15 to 20: 1, $\phi 20$ to $\phi 32$ and stroke 15 to 30: 1, $\phi 40$ and stroke 5 and 10: None, $\phi 40$ and stroke 15 to 50: 1, $\phi 50$ and stroke 10 to 20: None, $\phi 50$ and stroke 25 to 50: 1

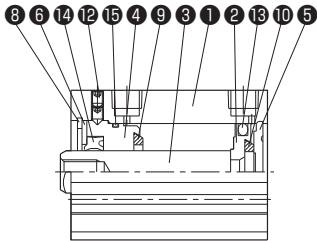
Seal List/10S-6RSR

No.	Part name	Material	Qty.	Part number			
				φ12	φ16	φ20	φ25
19	Piston seal	Nitrile rubber	1	PSP-12	PSP-16	PWP-20N	PWP-25N
22	O-ring for cap cover	Nitrile rubber	1	—	—	—	—
Seal set	Single acting single rod cylinder of spring return type	—	1 set	AS6SR/PKS -012	AS6SR/PKS -016	AS6SR/PKS -020	AS6SR/PKS -025

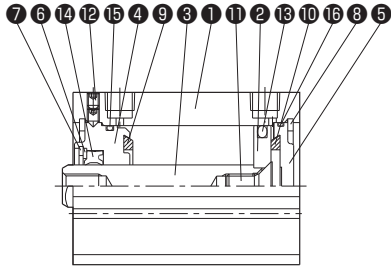
No.	Part name	Material	Qty.	Part number		
				φ32	φ40	φ50
19	Piston seal	Nitrile rubber	1	PWP-32N	PWP-40N	PWP-50N
22	O-ring for cap cover	Nitrile rubber	1	—	φ39.5×φ1.5	φ49.5×φ1.5
Seal set	Single acting single rod cylinder of spring return type	—	1 set	AS6SR/PKS -032	AS6SR/PKS -040	AS6SR/PKS -050

Non-rotating/Double acting single rod

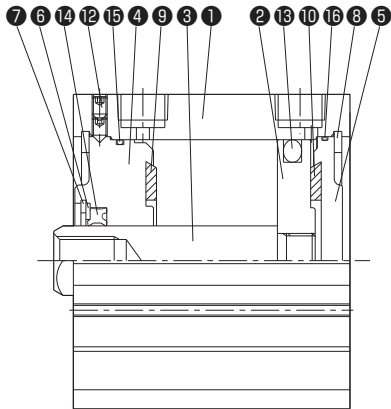
●Bore $\phi 20$ to $\phi 32$



●Bore $\phi 40$ to $\phi 63$



●Bore $\phi 80 \cdot \phi 100$



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Piston	Aluminum alloy (with wear-resistant surface treatment)	1
3	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
4	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	1
5	Cap cover	Aluminum alloy	1
6	Retainer	Cold rolled steel	1
7	Round R-type set ring	Carbon steel ($\phi 40$ to $\phi 100$)	1
8	Internal C-type set ring	Carbon steel	Note 1
9	Cushion pad (Rod side)	Urethane rubber	1
10	Cushion pad (Cap side)	Urethane rubber	1
11	Piston set screw	Chromium-molybdenum steel ($\phi 40$ to $\phi 63$)	1
12	Hex. socket set screw	—	Note 2

Note 1) $\phi 20$ to $\phi 32$: 1; $\phi 40$ to $\phi 100$: 2
Note 2) $\phi 20$ and $\phi 25$: 1; $\phi 32$ to $\phi 100$: 2

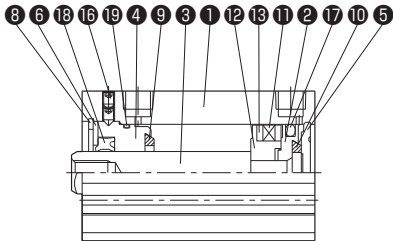
Seal List/10S-6G

No.	Part name	Material	Qty.	Part number			
				$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
13	Piston seal	Nitrile rubber	1	PWP-20N	PWP-25N	PWP-32N	PWP-40N
14	Rod seal	Urethane rubber	1	PGR-9	PGR-9	PGR-14A	PGR-14A
15	O-ring for rod cover	Nitrile rubber	1	S18	S22	$\phi 29 \times \phi 1.5$	S36
16	O-ring for cap cover	Nitrile rubber	1	—	—	—	$\phi 39.5 \times \phi 1.5$
Seal set	Double acting non-rotating single rod cylinder	—	1 set	AS6G/ PKS-020	AS6G/ PKS-025	AS6G/ PKS-032	AS6G/ PKS-040

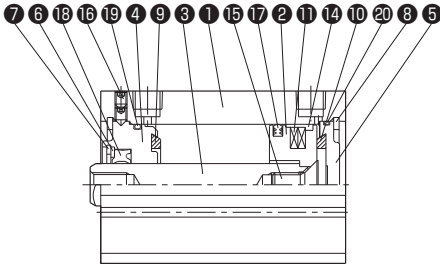
No.	Part name	Material	Qty.	Part number			
				$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
13	Piston seal	Nitrile rubber	1	PWP-50N	PWP-63N	PWP-80N	PWP-100N
14	Rod seal	Urethane rubber	1	PGR-19	PGR-19	PGR-23	PGR-23
15	O-ring for rod cover	Nitrile rubber	1	S46	S60	S75	S95
16	O-ring for cap cover	Nitrile rubber	1	$\phi 49.5 \times \phi 1.5$	$\phi 62.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
Seal set	Double acting non-rotating single rod cylinder	—	1 set	AS6G/ PKS-050	AS6G/ PKS-063	AS6G/ PKS-080	AS6G/ PKS-100

Non-rotating/Double acting single rod (Switch Set)

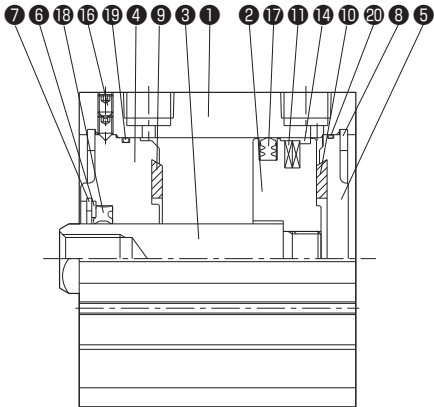
●Bore $\phi 20$ to $\phi 32$



●Bore $\phi 40$ to $\phi 63$



●Bore $\phi 80 \cdot \phi 100$



Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Piston	Aluminum alloy	1
③	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
④	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	1
⑤	Cap cover	Aluminum alloy	1
⑥	Retainer	Cold rolled steel	1
⑦	Round R-type set ring	Carbon steel ($\phi 40$ to $\phi 100$)	1
⑧	Internal C-type set ring	Carbon steel	Note 1
⑨	Cushion pad (Rod side)	Urethane rubber	1
⑩	Cushion pad (Cap side)	Urethane rubber	1
⑪	Magnet	—	
⑫	Spacer	Aluminum alloy ($\phi 20$ to $\phi 32$)	1
⑬	Yoke	Cold rolled steel ($\phi 32$)	2
⑭	Wear ring	Synthetic resin ($\phi 32$ to $\phi 100$)	1
⑮	Piston set screw	Chromium-molybdenum steel ($\phi 40$ to $\phi 63$)	1
⑯	Hex. socket set screw	—	Note 2

Note 1) $\phi 20$ to $\phi 32$: 1; $\phi 40$ to $\phi 100$: 2
Note 2) $\phi 20$ and $\phi 25$: 1; $\phi 32$ to $\phi 100$: 2

Seal List/10S-6RG

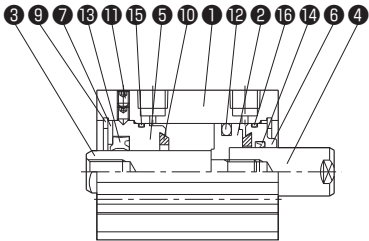
No.	Part name	Material	Qty.	Part number			
				$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
⑰	Piston seal	Nitrile rubber	1	PWP-20N	PWP-25N	PWP-32N	PWP-40N
⑱	Rod seal	Urethane rubber	1	PGR-9	PGR-9	PGR-14A	PGR-14A
⑲	O-ring for rod cover	Nitrile rubber	1	S18	S22	$\phi 29 \times \phi 1.5$	S36
⑳	O-ring for cap cover	Nitrile rubber	1	—	—	—	$\phi 39.5 \times \phi 1.5$
Seal set	Double acting non-rotating single rod cylinder	—	1 set	AS6RG/ PKS-020	AS6RG/ PKS-025	AS6RG/ PKS-032	AS6RG/ PKS-040

No.	Part name	Material	Qty.	Part number			
				$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
⑰	Piston seal	Nitrile rubber	1	PWP-50N	PWP-63N	PWP-80N	PWP-100N
⑱	Rod seal	Urethane rubber	1	PGR-19	PGR-19	PGR-23	PGR-23
⑲	O-ring for rod cover	Nitrile rubber	1	S46	S60	S75	S95
⑳	O-ring for cap cover	Nitrile rubber	1	$\phi 49.5 \times \phi 1.5$	$\phi 62.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
Seal set	Double acting non-rotating single rod cylinder	—	1 set	AS6RG/ PKS-050	AS6RG/ PKS-063	AS6RG/ PKS-080	AS6RG/ PKS-100

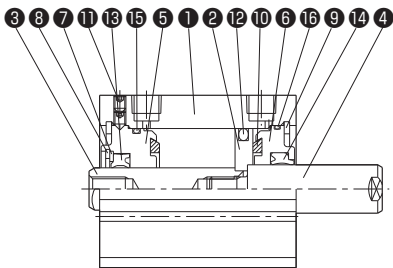
Note) The seal set includes a wear ring.($\phi 32$ to $\phi 100$)

Non-rotating/Double acting double rod

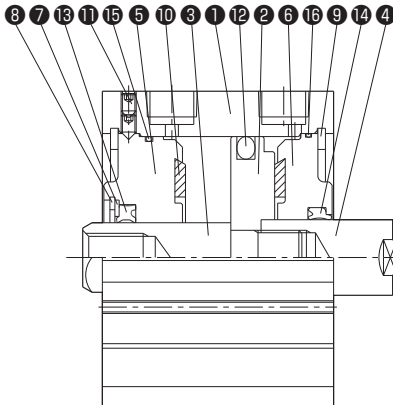
●Bore $\phi 20$ to $\phi 32$



●Bore $\phi 40$ to $\phi 63$



●Bore $\phi 80 \cdot \phi 100$



Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Piston	Aluminum alloy	1
③	Piston rod A	Carbon steel for machine structural use (plated with hard chrome)	1
④	Piston rod B	Carbon steel for machine structural use (plated with hard chrome)	1
⑤	Rod cover G	Aluminum alloy (with wear-resistant surface treatment)	1
⑥	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	1
⑦	Retainer	Cold rolled steel	1
⑧	Round R-type set ring	Carbon steel ($\phi 40$ to $\phi 100$)	1
⑨	Internal C-type set ring	Carbon steel	2
⑩	Cushion pad (Rod side)	Urethane rubber	2
⑪	Hex. socket set screw	—	Note 1

Note 1) $\phi 20$ and $\phi 25$: 1; $\phi 32$ to $\phi 100$: 2

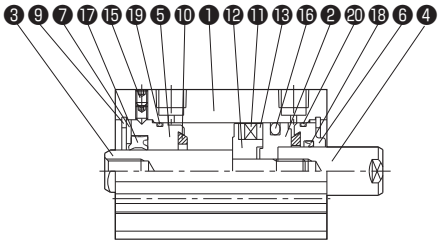
Seal List/10S-6GD

No.	Part name	Material	Qty.	Part number			
				$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
⑫	Piston seal	Nitrile rubber	1	PWP-20N	PWP-25N	PWP-32N	PWP-40N
⑬	Rod seal A	Urethane rubber	1	PGR-9	PGR-9	PGR-14A	PGR-14A
⑭	Rod seal B	Nitrile rubber	1	MYR-10	MYR-12	MYR-16	DRP-16
⑮	O-ring for rod cover	Nitrile rubber	1	S18	S22	$\phi 29 \times \phi 1.5$	S36
⑯	O-ring for rod cover	Nitrile rubber	1	S18	S22	$\phi 29 \times \phi 1.5$	$\phi 39.5 \times \phi 1.5$
Seal set	Double acting non-rotating double rod cylinder	—	1 set	AS6GD/ PKS-020	AS6GD/ PKS-025	AS6GD/ PKS-032	AS6GD/ PKS-040

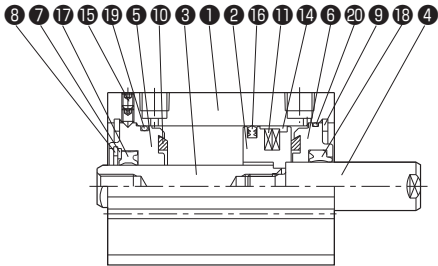
No.	Part name	Material	Qty.	Part number			
				$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
⑫	Piston seal	Nitrile rubber	1	PWP-50N	PWP-63N	PWP-80N	PWP-100N
⑬	Rod seal A	Urethane rubber	1	PGR-19	PGR-19	PGR-23	PGR-23
⑭	Rod seal B	Nitrile rubber	1	DRP-20	DRP-20	DRP-25	DRP-30
⑮	O-ring for rod cover	Nitrile rubber	1	S46	S60	S75	S95
⑯	O-ring for rod cover	Nitrile rubber	1	$\phi 49.5 \times \phi 1.5$	$\phi 62.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
Seal set	Double acting non-rotating double rod cylinder	—	1 set	AS6GD/ PKS-050	AS6GD/ PKS-063	AS6GD/ PKS-080	AS6GD/ PKS-100

Non-rotating/Double acting double rod (Switch Set)

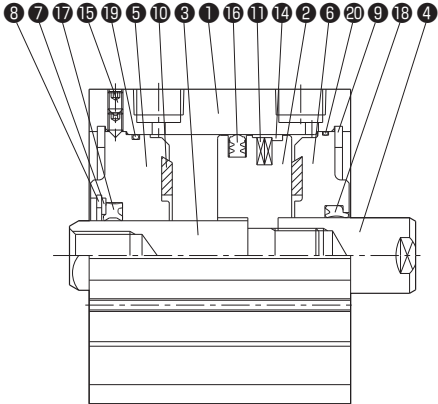
●Bore $\phi 20 \cdot \phi 25$



●Bore $\phi 32$ to $\phi 63$



●Bore $\phi 80 \cdot \phi 100$



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Piston	Aluminum alloy	1
3	Piston rod A	Carbon steel for machine structural use (plated with hard chrome)	1
4	Piston rod B	Carbon steel for machine structural use (plated with hard chrome)	1
5	Rod cover G	Aluminum alloy (with wear-resistant surface treatment)	1
6	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	1
7	Retainer	Cold rolled steel	1
8	Round R-type set ring	Carbon steel ($\phi 40$ to $\phi 100$)	1
9	Internal C-type set ring	Carbon steel	2
10	Cushion pad (Rod side)	Urethane rubber	2
11	Magnet	—	—
12	Spacer	Aluminum alloy ($\phi 20$ to $\phi 32$)	1
13	Yoke	Cold rolled steel ($\phi 32$)	2
14	Wear ring	Synthetic resin ($\phi 32$ to $\phi 100$)	1
15	Hex. socket set screw	—	Note 1

Note 1) $\phi 20$ and $\phi 25$: 1; $\phi 32$ to $\phi 100$: 2

Seal List/10S-6RGD

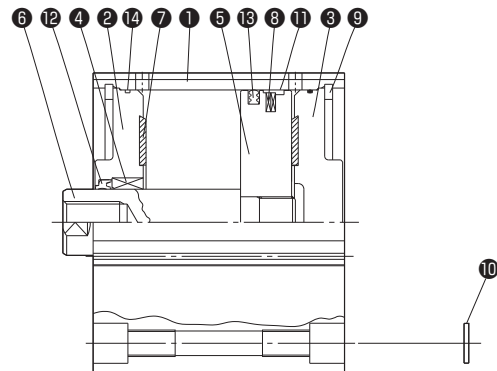
No.	Part name	Material	Qty.	Part number			
				$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
16	Piston seal	Nitrile rubber	1	PWP-20N	PWP-25N	PWP-32N	PWP-40N
17	Rod seal A	Urethane rubber	1	PGR-9	PGR-9	PGR-14A	PGR-14A
18	Rod seal B	Nitrile rubber	1	MYR-10	MYR-12	MYR-16	DRP-16
19	O-ring for rod cover G	Nitrile rubber	1	S18	S22	$\phi 29 \times \phi 1.5$	S36
20	O-ring for rod cover	Nitrile rubber	1	S18	S22	$\phi 29 \times \phi 1.5$	$\phi 39.5 \times \phi 1.5$
Seal set	Double acting non-rotating double rod cylinder	—	1 set	AS6RGD/ PKS-020	AS6RGD/ PKS-025	AS6RGD/ PKS-032	AS6RGD/ PKS-040

No.	Part name	Material	Qty.	Part number			
				$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
16	Piston seal	Nitrile rubber	1	PWP-50N	PWP-63N	PWP-80N	PWP-100N
17	Rod seal A	Urethane rubber	1	PGR-19	PGR-19	PGR-23	PGR-23
18	Rod seal B	Nitrile rubber	1	DRP-20	DRP-20	DRP-25	DRP-30
19	O-ring for rod cover G	Nitrile rubber	1	S46	S60	S75	S95
20	O-ring for rod cover	Nitrile rubber	1	$\phi 49.5 \times \phi 1.5$	$\phi 62.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
Seal set	Double acting non-rotating double rod cylinder	—	1 set	AS6RGD/ PKS-050	AS6RGD/ PKS-063	AS6RGD/ PKS-080	AS6RGD/ PKS-100

Note) The seal set includes a wear ring.($\phi 32$ to $\phi 100$)

Standard/Double acting single rod

- Bore ϕ 125 to ϕ 160



Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Rod cover	Cast iron	1
③	Cap cover	Cast iron	1
④	Bush	Aluminum alloy (with wear-resistant surface treatment)	1
⑤	Piston	Aluminum alloy	1
⑥	Piston rod	Carbon steel for machine structural use	1
⑦	Cushion pad	Urethane	2
⑧	Magnet	—	2
⑨	C type set ring	Carbon tool steel	2
⑩	Plain washer	Cold rolled steel plate	4
⑪	Wear ring	Synthetic resin	1

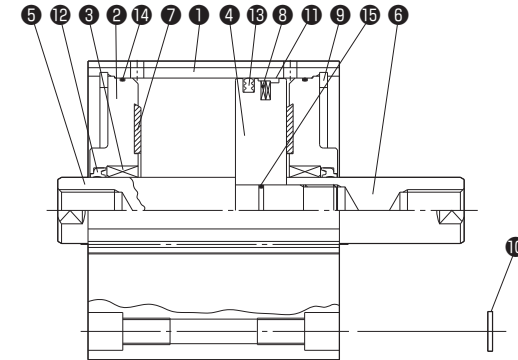
Seal List/10S-6 • 10S-6R

No.	Part name	Material	Qty.	Part number		
				φ 125	φ 140	φ 160
12	Rod seal	Nitrile rubber	1	DRP-35	DRP-35	DRP-40
13	Piston seal	Nitrile rubber	1	PWP-125N	PWP-140N	PWP-160N
14	O-ring	Nitrile rubber	2	S120	S135	S155
Seal set	Double acting single rod cylinder	—	1 set	AS6/PKS-125	AS6/PKS-140	AS6/PKS-160

Note) The seal nominal types are subject to change.

Standard/Double acting double rod

- Bore ϕ 125 to ϕ 160



Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Rod cover	Cast iron	2
③	Bush	Aluminum alloy (with wear-resistant surface treatment)	2
④	Piston (D)	Aluminum alloy	1
⑤	Piston rod (D1)	Carbon steel for machine structural use	1
⑥	Piston rod (D2)	Carbon steel for machine structural use	1
⑦	Cushion pad	Urethane	2
⑧	Magnet	—	2
⑨	C type set ring	Carbon tool steel	2
⑩	Plain washer	Cold rolled steel plate	4
⑪	Wear ring	Synthetic resin	1

Seal List/10S-6D • 10S-6RD

No.	Part name	Material	Qty.	Part number		
				φ 125	φ 140	φ 160
12	Rod seal	Nitrile rubber	2	DRP-35	DRP-35	DRP-40
13	Piston seal	Nitrile rubber	1	PWP-125N	PWP-140N	PWP-160N
14	O-ring	Nitrile rubber	2	S120	S135	S155
15	O-ring	Nitrile rubber	1	S24	S24	S26
Seal set	Double acting double rod cylinder	—	1 set	AS6D/PKS-125	AS6D/PKS-140	AS6D/PKS-160

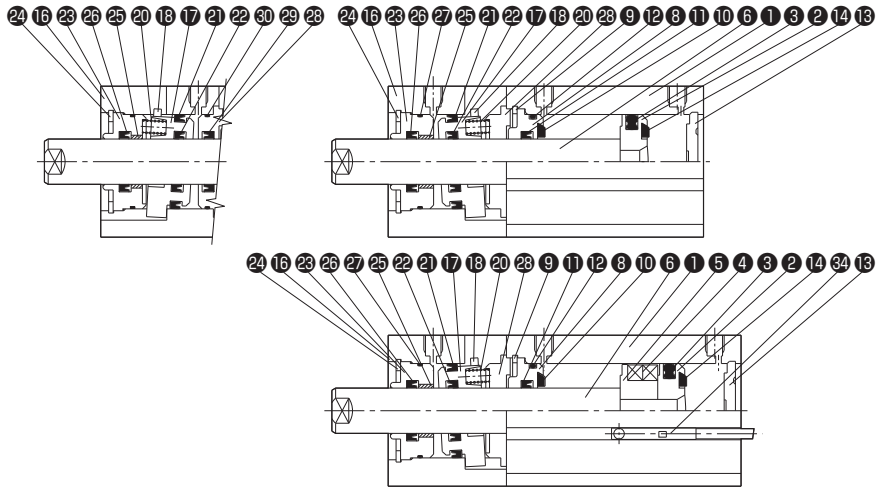
Note) The seal nominal types are subject to change.

Parts List

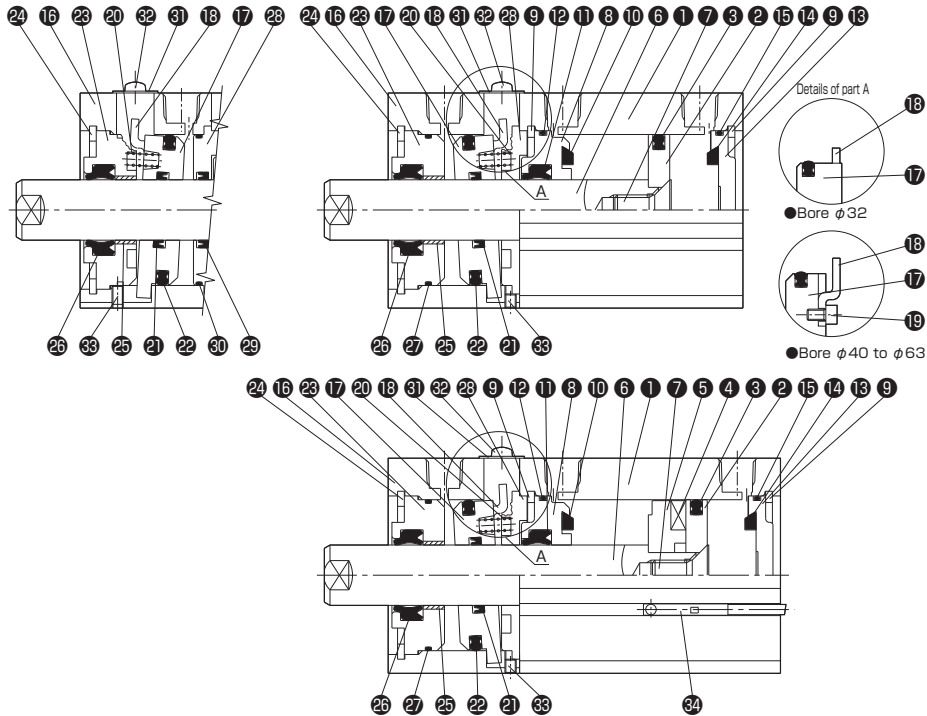
No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Piston	Aluminum alloy	1
3	Piston seal A	Nitrile rubber	1
4	Magnet	—	Note 1
5	Spacer	Aluminum alloy	1
6	Piston rod	Stainless steel $\phi 20$, $\phi 25$ Carbon steel for machine structural use $\phi 32$ to $\phi 63$	1
7	Piston set screw	Chromium-molybdenum steel	1
8	Rod cover	Aluminum alloy	1
9	Set ring	Carbon steel	Note 2
10	Cushion pad (Rod side)	Urethane rubber	1
11	Rod seal	Nitrile rubber	1
12	O-ring for rod cover	Nitrile rubber	1
13	Cap cover	Aluminum alloy	1
14	Cushion pad (Cap side)	Urethane rubber	1
15	O-ring for cap cover	Nitrile rubber	1
16	Lock body	Aluminum alloy	1
17	Lock metal	Spheroidal graphite cast iron	1
18	Release lever	Carbon steel $\phi 20$ to $\phi 32$ Rolled steel for general structure $\phi 40$ to $\phi 63$	1
19	Hex. socket head cap screw	Chromium-molybdenum steel	1
20	Spring	Piano wire	Note 3
21	Piston seal B	Nitrile rubber	1
22	Rod seal for lock metal	Nitrile rubber	1
23	Rod metal	Special aluminum	1
24	C type set ring	Carbon steel	1
25	Bush	Bearing with back metal (Teflon-based)	1
26	Rod seal for rod metal	Nitrile rubber	1
27	Rod metal gasket A	Nitrile rubber	1
28	Joint	Aluminum alloy	1
29	Rod seal for joint	Nitrile rubber	1
30	Rod metal gasket B	Nitrile rubber	1
31	Boots	Stainless steel	1
32	Cross-recessed pan head screw	Mild steel	1
33	Hex. socket set screw	Chromium-molybdenum steel	1
34	Sensor	—	—

Note 1) $\phi 20$ and $\phi 25$: 2, $\phi 32$ to $\phi 63$: 1
Note 2) $\phi 20$ and $\phi 25$: 1, $\phi 32$ to $\phi 63$: 2
Note 3) $\phi 20$ and $\phi 40$: 3, $\phi 25/\phi 32/\phi 50/\phi 63$: 2
[CAUTION] This block cannot be disassembled.

Bore $\phi 20 \cdot \phi 25$ ● Locking in rod retracting direction ● Locking in rod advancing direction

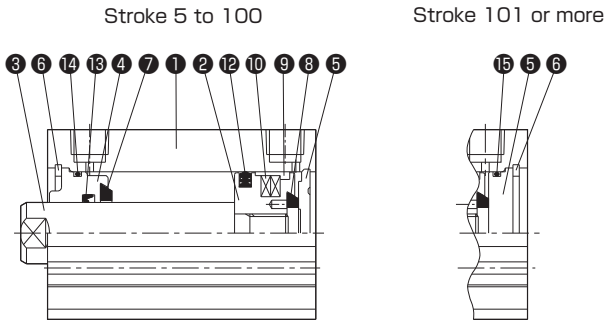


Bore $\phi 32$ to $\phi 63$ ● Locking in rod retracting direction ● Locking in rod advancing direction

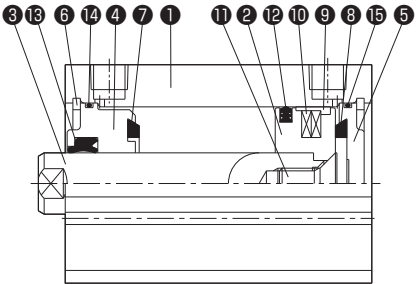


Standard/Double acting single rod

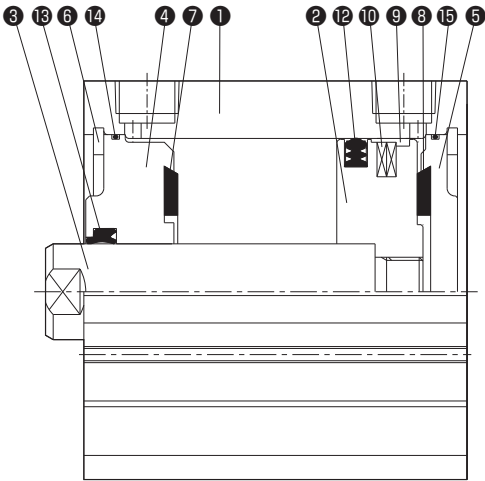
●Bore $\phi 32$



●Bore $\phi 40$ to $\phi 63$



●Bore $\phi 80 \cdot \phi 100$



Parts List

No.	Name	Material	Qty.
①	Cylinder body	Aluminum alloy	1
②	Piston	Aluminum alloy	1
③	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
④	Rod cover	Aluminum alloy (with wear-resistant surface treatment)	1
⑤	Cap cover	Aluminum alloy	1
⑥	Set ring	Carbon steel	2(1)
⑦	Cushion pad (Rod side)	Urethane rubber	1
⑧	Cushion pad (Cap side)	Urethane rubber	1
⑨	Wear ring	Synthetic resin	1
⑩	Rubber magnet	—	2
⑪	Hex. socket flat head cap screw	Chromium-molybdenum steel ($\phi 40$ to $\phi 63$)	1

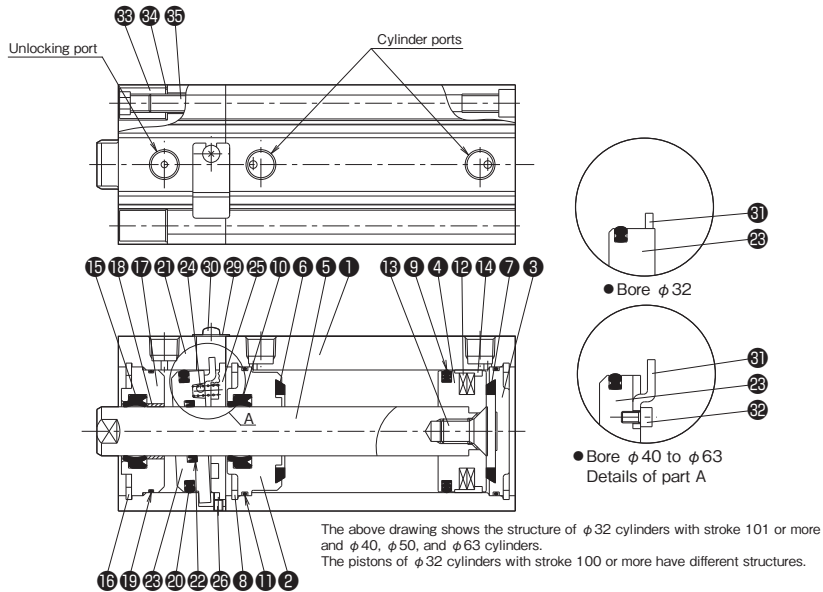
* The quantity in parentheses applies to $\phi 32$ and stroke 5 to 100.

Seal List/10S-6RE

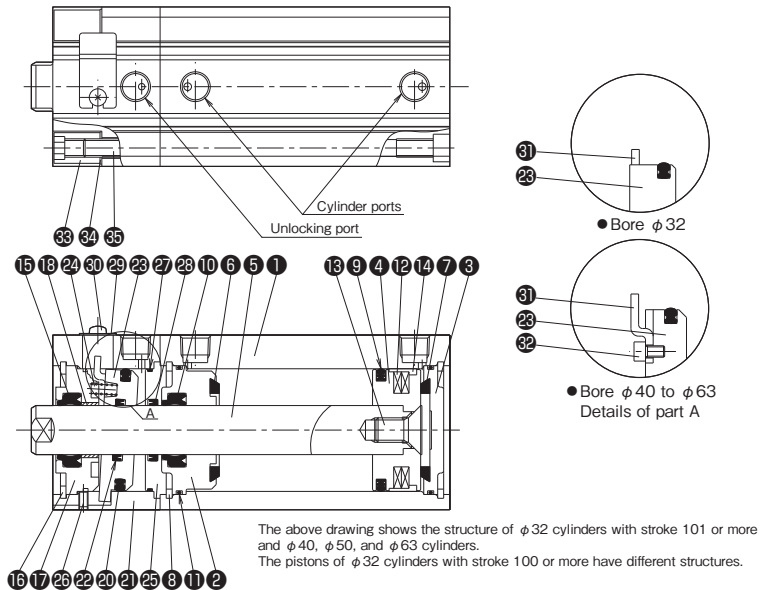
No.	Part name	Material	Qty.	Part number					
				$\phi 32$	$\phi 40$	$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
⑫	Piston seal	Nitrile rubber	1	PWP-32N	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
⑬	Rod seal	Nitrile rubber	1	MYR-16	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30
⑭	O-ring for rod cover	Nitrile rubber	1	$\phi 29 \times \phi 1.5$	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$	$\phi 62.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
⑮	O-ring for cap cover	Nitrile rubber	1	$\phi 29 \times \phi 1.5$	$\phi 39.5 \times \phi 1.5$	$\phi 49.5 \times \phi 1.5$	$\phi 62.5 \times \phi 1.5$	$\phi 77.3 \times \phi 1.5$	$\phi 98.5 \times \phi 2$
Seal set	Double acting single rod cylinder applicable to long stroke	—	1 set	AS6E/ PKS-032	AS6E/ PKS-040	AS6E/ PKS-050	AS6E/ PKS-063	AS6E/ PKS-080	AS6E/ PKS-100

* The seal set includes a wear ring.

● 10S-6REC1 Locking in rod advancing direction



● 10S-6REC2 Locking in rod retracting direction



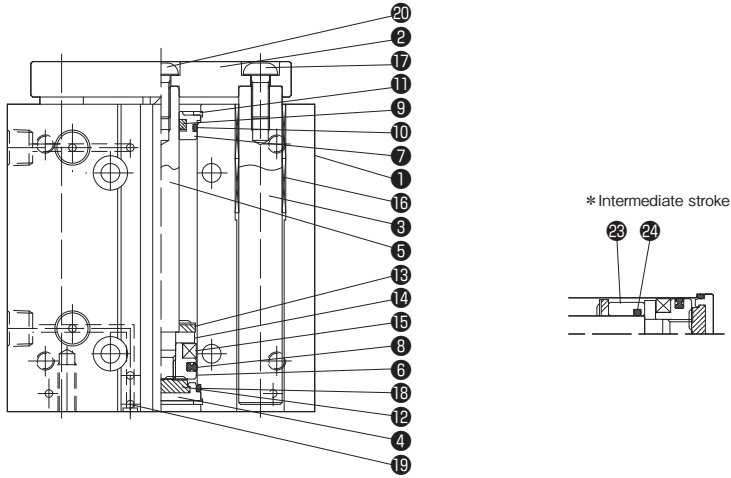
Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Rod cover	Aluminum alloy	1
3	Cap cover	Aluminum alloy	1
4	Piston	Aluminum alloy	1
5	Piston rod	Carbon steel for machine structural use	1
6	Cushion pad (Rod side)	Urethane rubber	1
7	Cushion pad (Cap side)	Urethane rubber	1
8	Internal C-type set ring	Carbon steel	Note 1
9	Piston seal	Nitrile rubber	1
10	Rod seal	Nitrile rubber	1
11	O-ring	Nitrile rubber	Note 1
12	Magnet	—	2
13	Hex. socket flat head cap screw	Chromium-molybdenum steel	1
14	Wear ring	Synthetic resin	1
15	Rod seal A	Nitrile rubber	1
16	C type set ring	Carbon steel	1
17	Rod metal	Special aluminum	1
18	Bush	Bearing with back metal (Teflon-based)	1
19	Rod metal gasket A	Nitrile rubber	1
20	Piston seal	Nitrile rubber	1
21	Lock body	Aluminum alloy	1
22	Rod seal B	Nitrile rubber	1
23	Lock metal	Spheroidal graphite cast iron	1
24	Spring	Piano wire	Note 2
25	Joint	Aluminum alloy	1
26	Hex. socket set screw	Chromium-molybdenum steel	1
27	Rod metal gasket B	Nitrile rubber	1
28	Rod seal C	Nitrile rubber	1
29	Boots	Stainless steel	1
30	Cross-recessed pan head screw	Mild steel	1
31	Release lever	φ 32: Carbon steel φ 40 to φ 63 : Rolled steel for general structure	1
32	Hex. socket head cap screw	Chromium-molybdenum steel	1
33	Round nut	Steel	4
34	Conical spring washer	Carbon steel	4
35	Hex. socket set screw	Chromium-molybdenum steel	4

Note 1) φ 32 and stroke 100 or less: 1, φ 32 and stroke 101 or more: 2, φ 40/φ 50/φ 63: 2
Note 2) φ 32/φ 50/φ 63: 2, φ 40: 3

[CAUTION] The block cannot be disassembled.

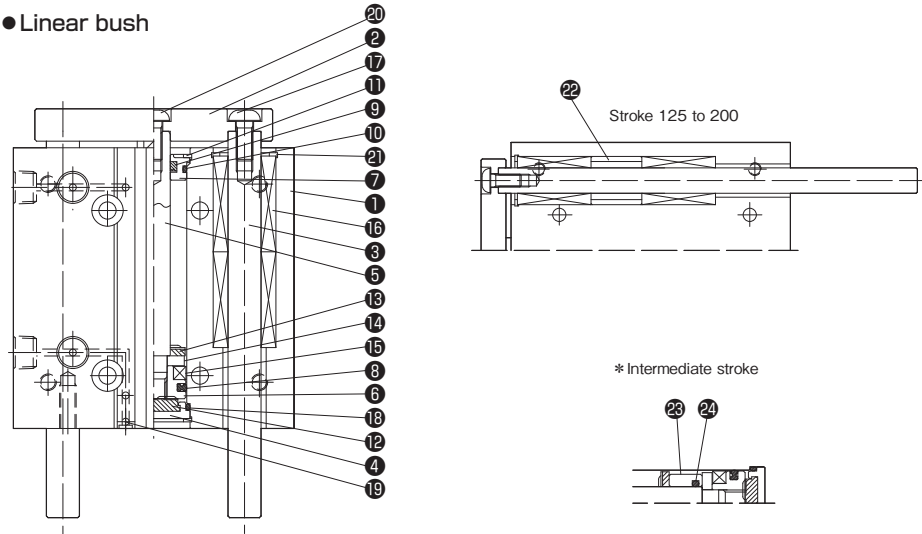
● Slide bearing



Parts List

No.	Name	Material	Qty.
1	Body	Aluminum alloy	1
2	Link bar	Rolled steel for general structure	1
3	Guide rod	Carbon steel for machine structural use	2
4	End cover	Rolled steel for general structure	1
5	Piston rod	Stainless steel	1
6	Piston	Aluminum alloy	1
7	Rod cover	Copper alloy	1
8	Piston seal	Nitrile rubber	1
9	Rod seal	Nitrile rubber	1
10	Body gasket 1	Nitrile rubber	1
11	Stop ring	Carbon steel	2
12	Cap cushion	Nitrile rubber	1
13	Rod cushion	Nitrile rubber	1
14	Magnet holder	Stainless steel	1
15	Magnet	—	1
16	Bush	—	4
17	Hex. socket button head cap screw	Chromium-molybdenum steel	2
18	Body gasket 2	Nitrile rubber	1
19	Steel ball	Carbon steel	3
20	Hex. socket button head cap screw	Chromium-molybdenum steel	1
23	Spacer collar	Synthetic resin	—
24	O-ring	Nitrile rubber	—

● Linear bush

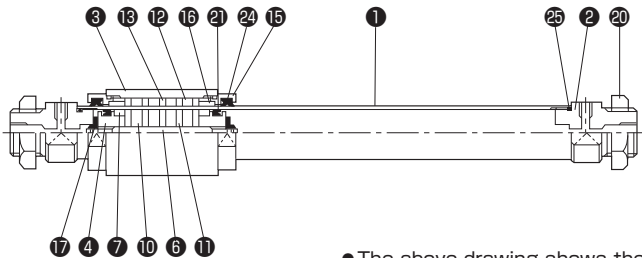


Parts List

No.	Name	Material	Qty.
1	Body	Aluminum alloy	1
2	Link bar	Rolled steel for general structure	1
3	Guide rod	Carbon steel for machine structural use	2
4	End cover	Rolled steel for general structure	1
5	Piston rod	Stainless steel	1
6	Piston	Aluminum alloy	1
7	Rod cover	Copper alloy	1
8	Piston seal	Nitrile rubber	1
9	Rod seal	Nitrile rubber	1
10	Body gasket 1	Nitrile rubber	1
11	Stop ring	Carbon steel	2
12	Cap cushion	Nitrile rubber	1
13	Rod cushion	Nitrile rubber	1
14	Magnet holder	Stainless steel	1
15	Magnet	—	1
16	Linear bush	—	2 or 4
17	Hex. socket button head cap screw	Chromium-molybdenum steel	2
18	Body gasket 2	Nitrile rubber	1
19	Steel ball	Carbon steel	3
20	Hex. socket button head cap screw	Chromium-molybdenum steel	1
21	Stop ring	—	2
22	Collar	—	2
23	Spacer collar	Synthetic resin	—
24	O-ring	Nitrile rubber	—

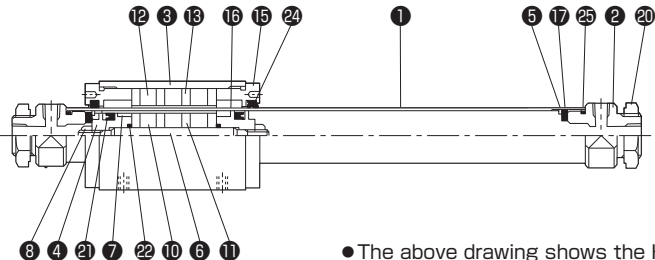
Standard

●Bore : $\phi 10 \cdot \phi 16 \cdot \phi 20$



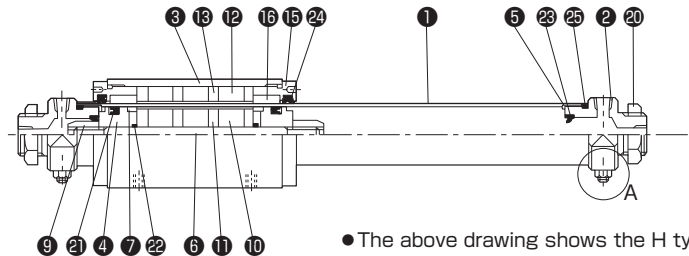
●The above drawing shows the H type cylinder.

●Bore : $\phi 25$



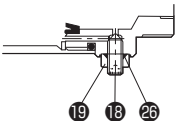
●The above drawing shows the H type cylinder.

●Bore : $\phi 32 \cdot \phi 40$



●The above drawing shows the H type cylinder.

Enlarged drawing of part A



Parts List

No.	Name	Material	Qty.
①	Cylinder tube	Stainless steel (plated with hard chrome)	1
②	Cylinder cover	Aluminum alloy	2
③	Slider	Aluminum alloy	1
④	Piston	Aluminum alloy	2
⑤	Set ring	Hard steel	2
⑥	Piston tie rod	Stainless steel	1
⑦	Piston wear ring	PTFE bronze	2
⑧	Piston lock nut	Stainless steel	2
⑨	Cushion ring	Stainless steel ($\phi 32$)·Carbon steel for machine structural use ($\phi 40$)	2
⑩	Piston magnet	—	—
⑪	Piston yoke	Rolled steel for general structure	—
⑫	Slider magnet	—	—
⑬	Slider yoke	Rolled steel for general structure	—
⑮	Seal housing	Aluminum alloy	2
⑯	Slider wear ring	Aluminum alloy (with wear-resistant surface treatment)	2
⑰	Cushion pad	Urethane rubber	2
⑱	Cushion valve	Chromium-molybdenum steel	2
⑲	Cushion lock nut	Rolled steel for general structure	2
⑳	Lock nut for mounting accessory	Rolled steel for general structure	2
㉔	O-ring for piston	Nitrile rubber	2

Seal List/Standard

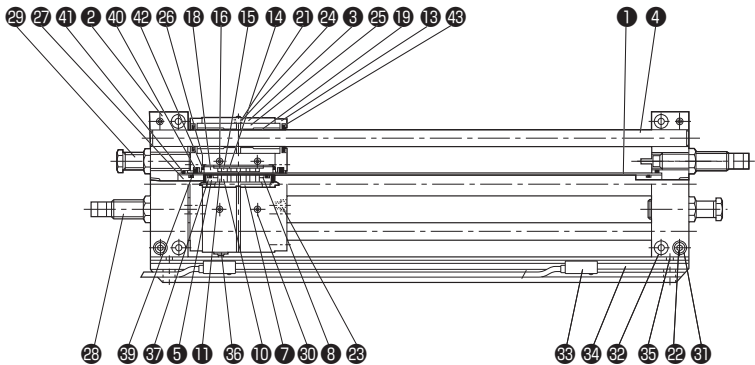
No.	Part name	Material	Qty.	Part number					
				$\phi 10$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
㉔	Piston seal	Nitrile rubber	2	PPY-10	PPY-16	PPY-20	PGY-25	PGY-32	PGY-40
㉔	Cushion seal	Nitrile rubber	2	—	—	—	—	PCS-15	PCS-20
㉔	Dust wiper	Urethane rubber	2	DAL-12	DAL-18	DA-23	DA-28	DA-36	DAL-44
㉔	O-ring for cover	Nitrile rubber	2	9×10.6×0.8	S-15	S-20	S-24	S-32	S-39
㉔	Cushion valve seal	Fluororesin	2	—	—	—	—	SF-5	SF-5
Seal set	Standard	—	1 set	Please contact us.					

Note) ●The seal nominal types are subject to change.

With guide

- Bore : $\phi 10 \cdot \phi 16 \cdot \phi 20$

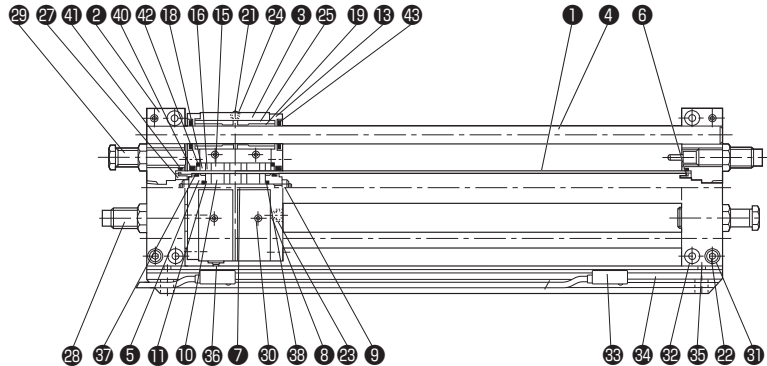
General purpose type (slide bearing)



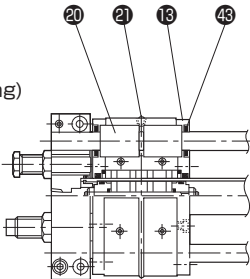
- The $\phi 20$ cylinder is not provided with the cushion pad 26.
- Only the cylinders with shock absorber have the stopper bolt 29.
- The above drawing shows a cylinder with the H* type sensor.

- Bore : $\phi 25 \cdot \phi 32 \cdot \phi 40$

General purpose type (slide bearing)



- The $\phi 32$ and $\phi 40$ cylinders are not provided with the spacer 27.
- Only the $\phi 25$ cylinder with shock absorber has the stopper bolt 29.
- The above drawing shows a cylinder with the H* type sensor.



- High-accuracy type (linear bearing)

Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Stainless steel (plated with hard chrome)	1
2	Plate	Aluminum alloy	2
3	Slider	Aluminum alloy	1
4	Guide rod (plated with hard chrome)	Carbon steel for machine structural use (general-purpose type) and high-carbon chrome bearing steel (high-accuracy type)	2
5	Piston	Aluminum alloy	2
6	Set ring	Hard steel	2
7	Piston tie rod	Stainless steel	1
8	Piston wear ring	Sintered alloy	2
9	Piston lock nut	Stainless steel	2
10	Piston magnet	—	—
11	Piston yoke	Rolled steel for general structure	—
13	Slider cover	Rolled steel for general structure	2
14	Slider tube	Stainless steel	—
15	Slider magnet	—	—
16	Slider yoke	Rolled steel for general structure	—
18	Slider wear ring	Aluminum alloy (with wear-resistant surface treatment)	2
19	Guide bush	Special resin	4
20	Linear bearing	—	4
21	Wave washer	—	2
22	Hex. socket head cap screw	Chromium-molybdenum steel	4
23	Hex. socket head cap screw	Chromium-molybdenum steel	—
24	Lubricating cup	Brass	2
25	Bush holder	Aluminum alloy	4
26	Cushion pad	Urethane rubber	2
27	Spacer	Aluminum alloy	2
28	Shock absorber	—	2
29	Stopper bolt	Carbon steel for machine structural use	2
30	Helsert	Stainless steel	4
31	Washer	—	4
32	Bolt spacer	Carbon steel for machine structural use	4
33	Reed sensor	—	—
34	Sensor mounting rail	Aluminum alloy	1
35	Cross-recessed pan head screw	Rolled steel for general structure	2
36	Sensor magnet	—	—
38	O-ring for piston	Nitrile rubber	2

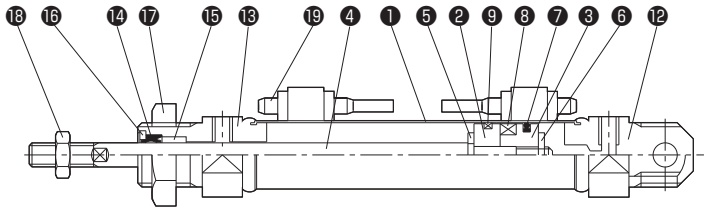
Seal List/With guide

No.	Part name	Material	Qty.	Part number					
				$\phi 10$	$\phi 16$	$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
37	Piston seal	Nitrile rubber	2	PPY-10	PPY-16	PPY-20	PGY-25	PGY-32	PGY-40
38	O-ring for spacer	Nitrile rubber	2	P-7	P-12	P-15	—	—	—
40	Dust wiper	Urethane rubber	2	DAL-12	DAL-18	DA-23	DA-28	DA-36	DAL-44
41	O-ring for plate	Nitrile rubber	2	S-12	S-18	22.7x28.4x2.85	S-28	S-36	S-44
42	O-ring for slider cover	Nitrile rubber	2	S-16	S-22	S-28	P-35	P-44	P-50
43	Bearing seat	Felt	4	FLM-10	FLM-10	FLM-16	FLM-20	FLM-20	FLM-25
Seal set	With guide	—	1 set	Please contact us.					

Note) ●The seal nominal types are subject to change.

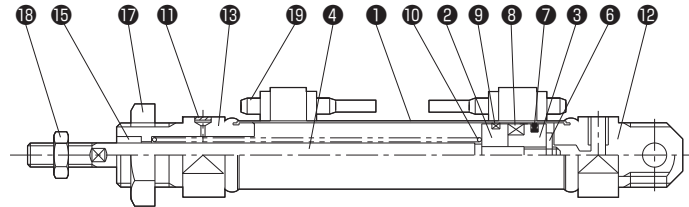
Double acting single rod

●Boreφ12・φ16



Single acting single rod

●Boreφ12・φ16

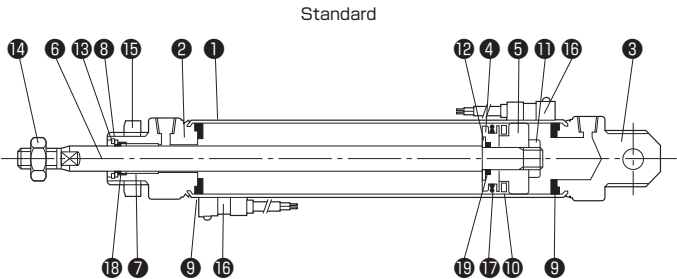
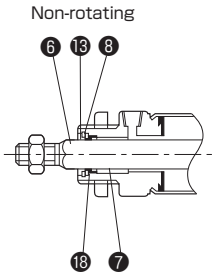


Parts List

No.	Name	Material	Qty.
①	Cylinder tube	Stainless steel	1
②	Piston A	Brass	1
③	Piston B	Brass	1
④	Piston rod	Stainless steel (plated with hard chrome)	1
⑤	Cushion pad A	Urethane rubber	1
⑥	Cushion pad B	Urethane rubber	1
⑦	Piston seal	Nitrile rubber	1
⑧	Magnet	—	1
⑨	Wear ring	Synthetic resin	1
⑩	Spring	Piano wire	1
⑪	Filter	Sintered alloy	1
⑫	Cap cover	Aluminum alloy	1
⑬	Rod cover	Aluminum alloy	1
⑭	Rod seal	Nitrile rubber	1
⑮	Bush	Oil-impregnated sintered bearing	1
⑯	Retainer	Brass	1
⑰	Lock nut for mounting accessory	Rolled steel for general structure	1
⑱	Lock nut for rod end attachment	Rolled steel for general structure	1
⑲	Sensor	—	—

Double acting single rod (standard/non-rotating)
Bore $\phi 20$ to $\phi 40$

● Standard type ● Switch Set



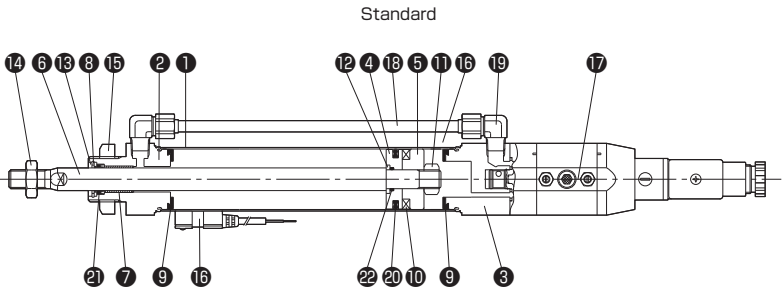
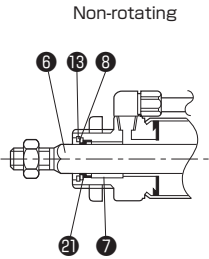
Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Stainless steel	1
2	Rod cover	Aluminum alloy	1
3	Cap cover	Aluminum alloy	1
4	Piston A	Aluminum alloy	1
5	Piston B	Aluminum alloy (with wear-resistant surface treatment)	1
6	Piston rod	Standard $\phi 20$ to $\phi 32$: Stainless steel (plated with hard chrome) $\phi 40$: Carbon steel for machine structural use (plated with hard chrome)	1
		Non-rotating: Carbon steel for machine structural use (plated with hard chrome)	
7	Bush	Standard: Dry bearing Non-rotating: Oil-impregnated sintered bearing	1
8	Rod seal retainer	Cold rolled steel	1
9	Cushion pad	Urethane rubber	2
10	Magnet	—	1
11	Piston nut	Rolled steel for general structure	1
12	Piston washer	Cold rolled steel	1
13	Set ring	Spring steel	1
14	Lock nut for rod end attachment	Rolled steel for general structure	1
15	Lock nut for mounting accessory	Rolled steel for general structure	1
16	Sensor	—	—
17	Piston seal	Nitrile rubber	1
18	Rod seal	Standard: Nitrile rubber	1
		Non-rotating: Urethane rubber	
19	O-ring for piston rod	Nitrile rubber	1

* Only the rod seal can be replaced. (Common to 10Z-2 Series)

Double acting single rod(standard/non-rotating)
Bore $\phi 20$ to $\phi 40$

●VAL set/SV set



Parts List

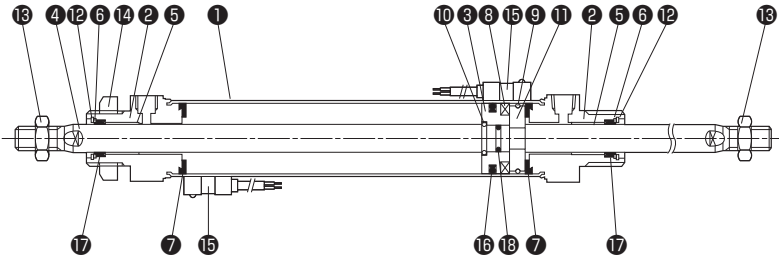
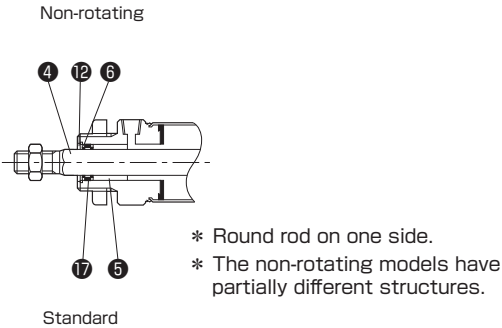
No.	Name	Material	Qty.
①	Cylinder tube	Stainless steel	1
②	Rod cover	Aluminum alloy	1
③	Cap cover	Aluminum alloy	1
④	Piston A	Aluminum alloy	1
⑤	Piston B	Aluminum alloy (with wear-resistant surface treatment)	1
⑥	Piston rod	Standard $\phi 20$ to $\phi 32$: Stainless steel (plated with hard chrome) $\phi 40$: Carbon steel for machine structural use (plated with hard chrome)	1
		Non-rotating: Carbon steel for machine structural use (plated with hard chrome)	
⑦	Bush	Standard: Dry bearing Non-rotating: Oil-impregnated sintered bearing	1
⑧	Rod seal retainer	Cold rolled steel	1
⑨	Cushion pad	Urethane rubber	2
⑩	Magnet	—	1
⑪	Piston nut	Rolled steel for general structure	1
⑫	Piston washer	Cold rolled steel	1
⑬	Set ring	Spring steel	1
⑭	Lock nut for rod end attachment	Rolled steel for general structure	1
⑮	Lock nut for mounting accessory	Rolled steel for general structure	1
⑯	Sensor	—	—
⑰	5-port 2-position single solenoid valve	—	1 set
⑱	Hose	Nylon	1
⑲	Joint	Brass	2
⑳	Piston seal	Nitrile rubber	1
㉑	Rod seal	Standard: Nitrile rubber	1
		Non-rotating: Urethane rubber	
㉒	O-ring for piston rod	Nitrile rubber	1

* Only the rod seal can be replaced. (Common to 10Z-2 Series)

Double acting double rod(standard/non-rotating)

Bore $\phi 20$ to $\phi 40$

●Standard type●Switch Set

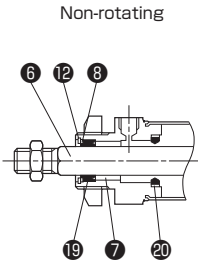


Parts List

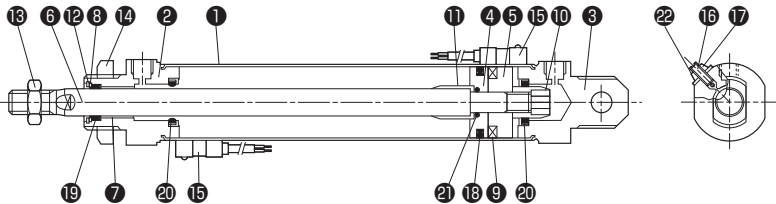
No.	Name	Material	Qty.
1	Cylinder tube	Stainless steel	1
2	Rod cover	Aluminum alloy	2
3	Piston	Aluminum alloy	1
4	Piston rod	Standard $\phi 20$ to $\phi 32$: Stainless steel (plated with hard chrome) $\phi 40$: Carbon steel for machine structural use (plated with hard chrome)	1
		Non-rotating Hexagonal: Carbon steel for machine structural use (plated with hard chrome) Round: $\phi 25$ mm dia. stainless steel (plated with hard chrome) $\phi 40$: Carbon steel for machine structural use (plated with hard chrome)	
5	Bush	Standard: Dry bearing Non-rotating: Oil-impregnated sintered bearing+dry bearing	2
6	Rod seal retainer	Cold rolled steel	2
7	Cushion pad	Urethane rubber	2
8	Magnet	—	1
9	Stopper ring	Stainless steel	1
10	Stopper	Stainless steel	1
11	Split ring	Stainless steel	1
12	Set ring	Spring steel	2
13	Lock nut for rod end attachment	Rolled steel for general structure	2
14	Lock nut for mounting accessory	Rolled steel for general structure	1
15	Sensor	—	—
16	Piston seal	Nitrile rubber	1
17	Rod seal	Standard: Nitrile rubber	2
		Non-rotating: Urethane rubber+nitrile rubber	
18	O-ring for piston rod	Nitrile rubber	1

* Only the rod seal can be replaced. (Common to 10Z-2 Series)

Double acting single rod/With cushion
Bore $\phi 20$ to $\phi 40$



Standard



* The above drawing shows the sectional view of 32 and 40 mm bore cylinders.
The 20 and 25 mm bore cylinders have cushion valves at different positions.

Parts List

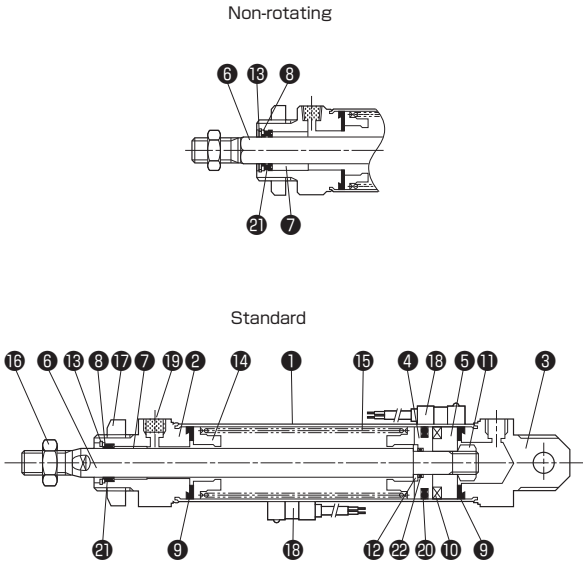
No.	Name	Material	Qty.
1	Cylinder tube	Stainless steel	1
2	Rod cover	Aluminum alloy	1
3	Cap cover	Aluminum alloy	1
4	Piston A	Aluminum alloy	1
5	Piston B	Aluminum alloy (with wear-resistant surface treatment)	1
6	Piston rod	Standard $\phi 20$ to $\phi 32$: Stainless steel (plated with hard chrome) $\phi 40$: Carbon steel for machine structural use (plated with hard chrome)	1
		Non-rotating: Carbon steel for machine structural use (plated with hard chrome)	
7	Bush	Standard: Dry bearing Non-rotating: Oil-impregnated sintered bearing	1
8	Rod seal retainer	Cold rolled steel	1
9	Magnet	—	1
10	Cushion nut	$\phi 20 \cdot \phi 25$: Aluminum alloy $\phi 32 \cdot \phi 40$: Rolled steel for general structure	1
11	Cushion ring	Rolled steel for general structure	1
12	Set ring	Spring steel	1
13	Lock nut for rod end attachment	Rolled steel for general structure	1
14	Lock nut for mounting accessory	Rolled steel for general structure	1
15	Sensor	—	—
16	Cushion valve	Rolled steel for general structure	2
17	Lock nut for cushion valve	Rolled steel for general structure	2
18	Piston seal	Nitrile rubber	1
19	Rod seal	Standard: Nitrile rubber Non-rotating: Urethane rubber	1
20	Cushion seal	Metallic ring+nitrile rubber	2
21	O-ring for piston rod	Nitrile rubber	1
22	Daithread	Nitrile rubber with metallic ring	2

* Only the rod seal can be replaced. (Common to 10Z-2 Series)

Single acting spring return(SR type)(standard/non-rotating)

Bore $\phi 20$ to $\phi 40$

- Standard type/Switch Set



Parts List

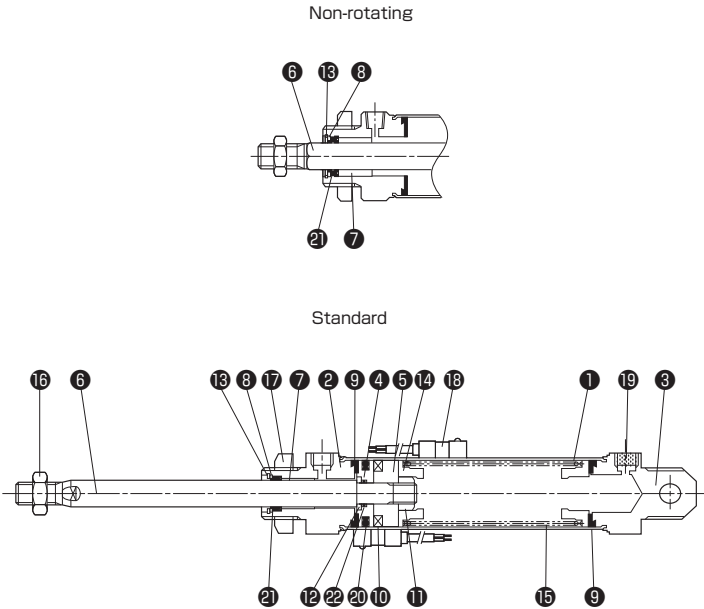
No.	Name	Material	Qty.
①	Cylinder tube	Stainless steel	1
②	Rod cover	Aluminum alloy	1
③	Cap cover	Aluminum alloy	1
④	Piston A	Aluminum alloy	1
⑤	Piston B	Aluminum alloy (with wear-resistant surface treatment)	1
⑥	Piston rod	Standard $\phi 20$ to $\phi 32$: Stainless steel (plated with hard chrome) $\phi 40$: Carbon steel for machine structural use (plated with hard chrome)	1
		Non-rotating: Carbon steel for machine structural use (plated with hard chrome)	
⑦	Bush	Standard: Oil-impregnated sintered bearing Non-rotating: Oil-impregnated sintered bearing	1
⑧	Rod seal retainer	Cold rolled steel	1
⑨	Cushion pad	Urethane rubber	2
⑩	Magnet	—	1
⑪	Piston nut	Rolled steel for general structure	1
⑫	Piston washer	Cold rolled steel	1
⑬	Set ring	Spring steel	1
⑭	Spring stopper	Aluminum alloy	2
⑮	Spring	Stainless steel	—
⑯	Lock nut for rod end attachment	Rolled steel for general structure	1
⑰	Lock nut for mounting accessory	Rolled steel for general structure	1
⑱	Sensor	—	—
⑲	Plug silencer	Resin	1
⑳	Piston seal	Nitrile rubber	1
㉑	Rod seal	Standard: Nitrile rubber	1
		Non-rotating: Urethane rubber	
㉒	O-ring for piston rod	Nitrile rubber	1

* Only the rod seal can be replaced. (Common to 10Z-2 Series)

Single acting spring-extended(SH type) (standard/non-rotating)

Bore $\phi 20$ to $\phi 40$

- Standard type/Switch Set



Parts List

No.	Name	Material	Qty.
①	Cylinder tube	Stainless steel	1
②	Rod cover	Aluminum alloy	1
③	Cap cover	Aluminum alloy	1
④	Piston A	Aluminum alloy	1
⑤	Piston B	Aluminum alloy (with wear-resistant surface treatment)	1
⑥	Piston rod	Standard $\phi 20$ to $\phi 32$: Stainless steel (plated with hard chrome) $\phi 40$: Carbon steel for machine structural use (plated with hard chrome)	1
		Non-rotating: Carbon steel for machine structural use (plated with hard chrome)	
⑦	Bush	Standard: Dry bearing Non-rotating: Oil-impregnated sintered bearing	1
⑧	Rod seal retainer	Cold rolled steel	1
⑨	Cushion pad	Urethane rubber	2
⑩	Magnet	—	1
⑪	Piston nut	Rolled steel for general structure	1
⑫	Piston washer	Cold rolled steel	1
⑬	Set ring	Spring steel	1
⑭	Spring stopper	Aluminum alloy	2
⑮	Spring	Stainless steel	—
⑯	Lock nut for rod end attachment	Rolled steel for general structure	1
⑰	Lock nut for mounting accessory	Rolled steel for general structure	1
⑱	Sensor	—	—
⑲	Plug silencer	Resin	1
⑳	Piston seal	Nitrile rubber	1
㉑	Rod seal	Standard: Nitrile rubber Non-rotating: Urethane rubber	1
㉒	O-ring for piston rod	Nitrile rubber	1

* Only the rod seal can be replaced. (Common to 10Z-2 Series)

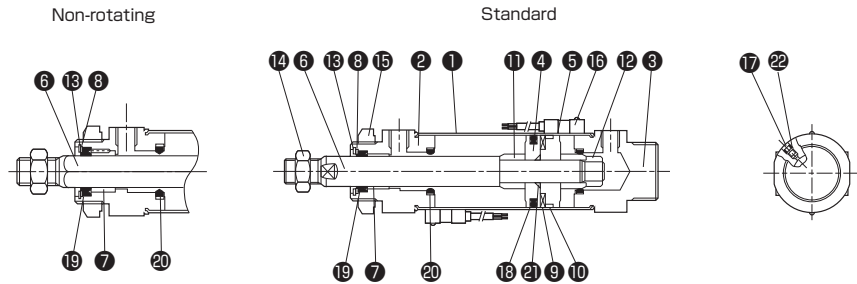
10Z-3

Sectional Drawing

Double acting single rod(standard/non-rotating)

Bore $\phi 50 \cdot \phi 63$

●Standard type/Switch Set



Parts List

No.	Name	Material	Qty.
①	Cylinder tube	Stainless steel	1
②	Rod cover	Aluminum alloy	1
③	Cap cover	Aluminum alloy	1
④	Seal housing	Aluminum alloy	1
⑤	Piston	Aluminum alloy	1
⑥	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
⑦	Bush	Standard: Oil-impregnated sintered bearing Non-rotating: Aluminum alloy (with wear-resistant surface treatment)	1
⑧	Rod seal retainer	Cold rolled steel	1
⑨	Magnet	—	1
⑩	Wear ring	Synthetic resin	1
⑪	Cushion ring	Carbon steel for machine structural use	2
⑫	Piston nut	Rolled steel for general structure	1
⑬	Set ring	Spring steel	1
⑭	Lock nut for rod end attachment	Rolled steel for general structure	1
⑮	Lock nut for mounting accessory	Rolled steel for general structure	1
⑯	Sensor	—	—
⑰	Cushion valve	Carbon steel for machine structural use	2
⑱	Piston seal	Nitrile rubber	1
⑲	Rod seal	Standard: Nitrile rubber Non-rotating: Urethane rubber	1
⑳	Cushion seal	Metallic ring+nitrile rubber	2
㉑	O-ring for piston rod	Nitrile rubber	1
㉒	O-ring for cushion valve	Nitrile rubber	2

* Only the rod seal can be replaced.

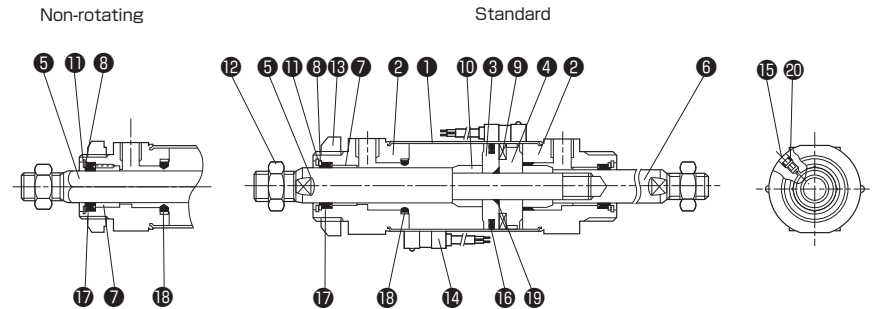
10Z-3

Sectional Drawing

Double acting double rod(standard/non-rotating)

Bore $\phi 50 \cdot \phi 63$

●Standard type/Switch Set



* Round rod on one side.

Parts List

No.	Name	Material	Qty.
①	Cylinder tube	Stainless steel	1
②	Rod cover	Aluminum alloy	2
③	Seal housing	Aluminum alloy	1
④	Piston	Aluminum alloy	1
⑤	Piston rod A	Carbon steel for machine structural use (plated with hard chrome)	1
⑥	Piston rod B	Carbon steel for machine structural use (plated with hard chrome)	1
⑦	Bush	Standard: Oil-impregnated sintered bearing Non-rotating: Aluminum alloy+oil-impregnated sintered bearing	2
⑧	Rod seal retainer	Cold rolled steel	2
⑨	Magnet	—	1
⑩	Cushion ring	Carbon steel for machine structural use	2
⑪	Set ring	Spring steel	2
⑫	Lock nut for rod end attachment	Rolled steel for general structure	2
⑬	Lock nut for mounting accessory	Rolled steel for general structure	1
⑭	Sensor	—	—
⑮	Cushion valve	Carbon steel for machine structural use	2
⑯	Piston seal	Nitrile rubber	1
⑰	Rod seal	Standard: Nitrile rubber Non-rotating: Urethane rubber+nitrile rubber	2
⑱	Cushion seal	Metallic ring+nitrile rubber	2
⑲	O-ring for piston rod	Nitrile rubber	1
㉒	O-ring for cushion valve	Nitrile rubber	2

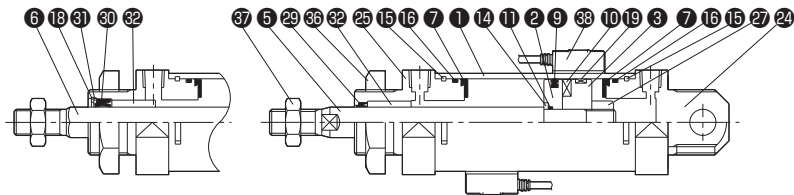
* Only the rod seal can be replaced.

Basic style/Double acting single rod (standard/non-rotating)

●Standard type●Switch Set

Non-rotating (φ25・φ40)

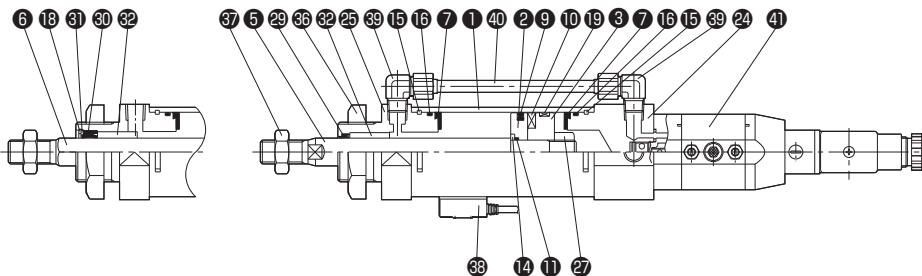
Standard



●VAL set●SV Set

Non-rotating (φ25・φ40)

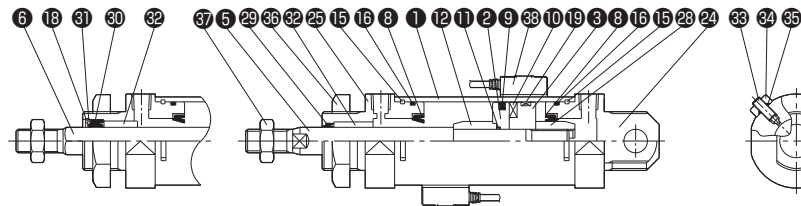
Standard



●With cushion (bore: φ32 and φ40)

Non-rotating (φ40)

Standard



Parts List

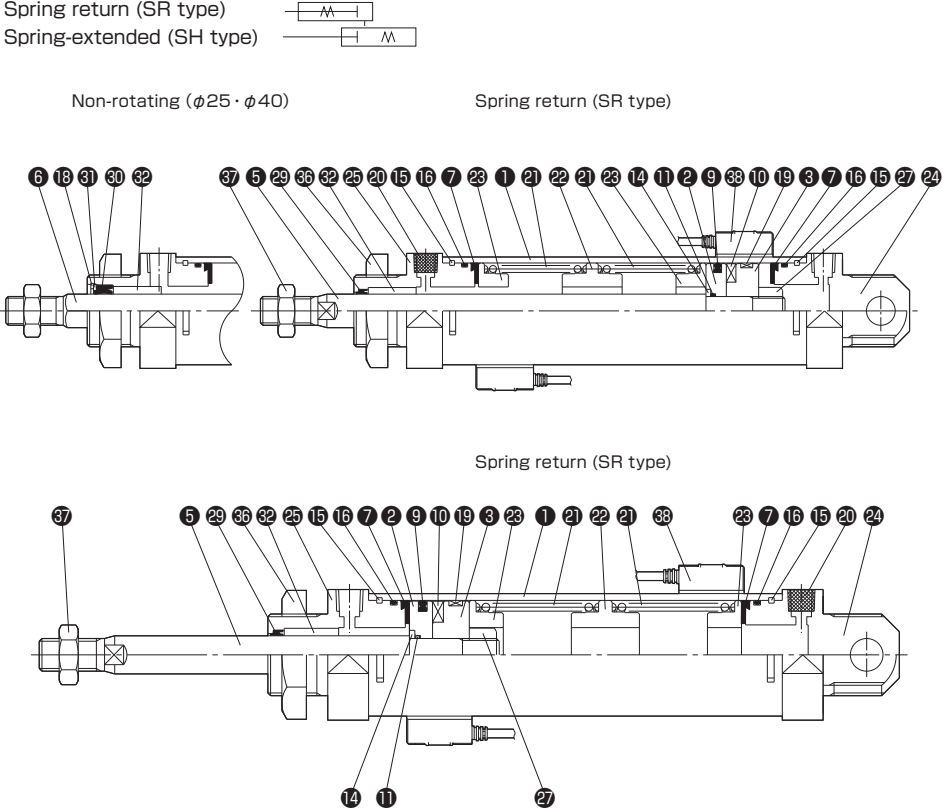
No.	Name	Material	Qty.
1	Cylinder tube	Stainless steel	1
2	Piston A	Aluminum alloy	1
3	Piston B	Aluminum alloy	1
5	Piston rod	φ20 to φ32 : Stainless steel (plated with hard chrome) φ40 : Carbon steel for machine structural use (plated with hard chrome)	1
6	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
7	Cushion pad	Urethane rubber	2
10	Magnet	—	—
11	O-ring for piston rod	Nitrile rubber	1(2)
12	Cushion ring	φ32 : Stainless steel φ40 : Carbon steel for machine structural use	1
14	Piston washer	Cold rolled steel	1
15	Retaining ring	Mild steel	2
18	Set ring	Spring steel	1
19	Wear ring	Synthetic resin	1
24	Cap cover	Aluminum alloy	1
25	Rod cover	Aluminum alloy	1
27	Piston nut	Rolled steel for general structure	1
28	Cushion nut	φ32 : Stainless steel φ40 : Carbon steel for machine structural use	1
30	Rod seal	Urethane rubber	1
31	Rod seal retainer	Cold rolled steel	1
32	Bush	φ20 and φ25: Dry bearing φ32 and φ40: Oil-impregnated sintered bearing φ25 non-rotating and φ40 non-rotating: Oil-impregnated sintered bearing	1
33	Cushion valve	Chromium-molybdenum steel	2
34	Cushion lock nut	Rolled steel for general structure	2
36	Lock nut for mounting accessory	Rolled steel for general structure	1
37	Lock nut for rod end attachment	Rolled steel for general structure	1
38	Sensor	—	—
39	Joint	Brass	2
40	Hose	Nylon	1
41	5-port 2-position single solenoid valve	—	1set

*: The quantities are variable.

●The φ20 cylinders do not have a piston washer. The quantity in parentheses applies to φ20 and φ25.

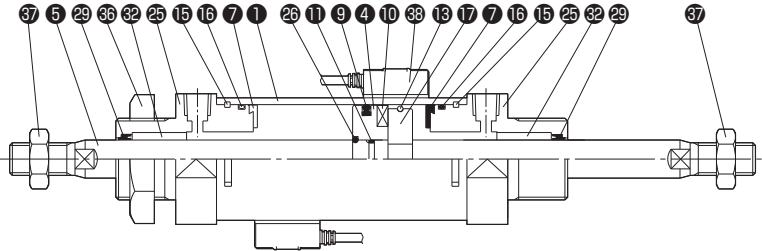
Basic style/Single acting (standard/non-rotating)

- Standard type ● Switch Set
- Spring return (SR type)
- Spring-extended (SH type)



Basic Style/Double Acting Double Rod

- Standard type ● Switch Set


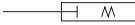


Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Stainless steel	1
2	Piston A	Aluminum alloy	1
3	Piston B	Aluminum alloy	1
4	Piston	Aluminum alloy	1
5	Piston rod	φ 20 to φ 32 : Stainless steel (plated with hard chrome) φ 40 : Carbon steel for machine structural use (plated with hard chrome)	1
6	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
7	Cushion pad	Urethane rubber	2
10	Magnet	—	—
11	O-ring for piston rod	Nitrile rubber	1
13	Stop ring	Stainless steel	1
14	Piston washer	Cold rolled steel	1
15	Retaining ring	Mild steel	2
17	Split ring	Stainless steel	1
18	Set ring	Spring steel	1
19	Wear ring	Synthetic resin	1
20	Filter plug	—	1
21	Spring	Stainless steel	*
22	Spring guide	Aluminum alloy	*
23	Spring stopper	Aluminum alloy	2
24	Cap cover	Aluminum alloy	1
25	Rod cover	Aluminum alloy	1 (2)
26	Stopper	Stainless steel	1
27	Piston nut	Rolled steel for general structure	1
30	Rod seal	Urethane rubber	1
31	Rod seal retainer	Cold rolled steel	1
32	Bush	φ 20 and φ 25: Dry bearing φ 32 and φ 40: Oil-impregnated sintered bearing	1 (2)
36	Lock nut for mounting accessory	Rolled steel for general structure	1
37	Lock nut for rod end attachment	Rolled steel for general structure	1 (2)
38	Sensor	—	—

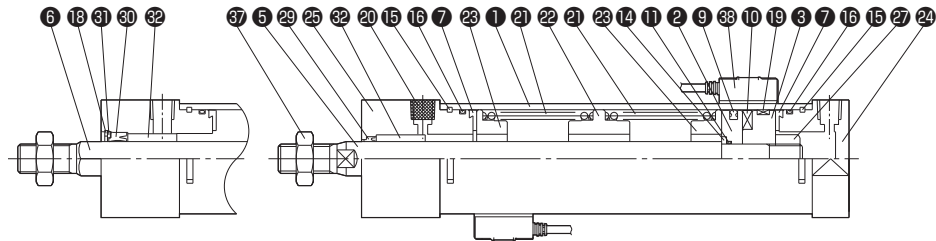
● The quantities in parentheses apply to the double rod cylinders. ●*: The quantities are variable.

Block type/Single acting (standard/non-rotating)

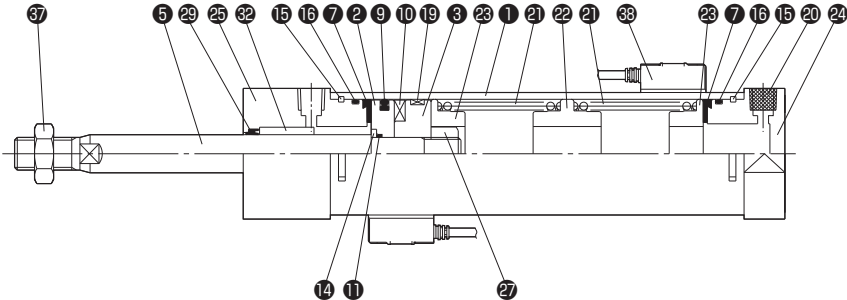
- Standard type●Switch Set
Spring return (SR type) 
Spring-extended (SH type) 

Non-rotating (φ25・φ40)

Spring return (SR type)



Spring return (SR type)



Sectional Drawing

10Z-2

Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Stainless steel	1
2	Piston A	Aluminum alloy	1
3	Piston B	Aluminum alloy	1
5	Piston rod	φ20 to φ32 : Stainless steel (plated with hard chrome) φ40 : Carbon steel for machine structural use (plated with hard chrome)	1
6	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
7	Cushion pad	Urethane rubber	2
10	Magnet	—	1 (2)
11	O-ring for piston rod	Nitrile rubber	1
14	Piston washer	Cold rolled steel	1
15	Retaining ring	Mild steel	2
18	Set ring	Spring steel	1
19	Wear ring	Synthetic resin	1
20	Filter plug	—	1
21	Spring	Stainless steel	*
22	Spring guide	Aluminum alloy	*
23	Spring stopper	Aluminum alloy	2
24	Cap cover	Aluminum alloy	1
25	Rod cover	Aluminum alloy	1
27	Piston nut	Rolled steel for general structure	1
30	Rod seal	Urethane rubber	1
31	Rod seal retainer	Steel for cold rolling	1
32	Bush	φ20 and φ25: Dry bearing φ32 and φ40: Oil-impregnated sintered bearing φ25 non-rotating and φ40 non-rotating: Oil-impregnated sintered bearing	1
37	Lock nut for rod end attachment	Rolled steel for general structure	1
38	Sensor	—	—

*: The quantities are variable.
●The φ20 cylinders do not have a piston washer. The quantity in parentheses applies to φ20 and φ25.

Sectional Drawing

10Z-2

Seal List

Standard/Double acting single rod/Standard type, Switch Set, VAL set, SV set

No.	Part name	Material	Qty.	Part number			
				φ 20	φ 25	φ 32	φ 40
9	Piston seal	Nitrile rubber	1	PWP20-N	PWP25-N	PWP32-N	PWP40-N
16	O-ring	Nitrile rubber	2	S18	S22	S29	S36
29	Rod seal	Nitrile rubber	1	DRP8	DRP10	DRP12	DRP14
Seal set	Double acting single rod cylinder	—	1 set	AZ2/PKS-020	AZ2/PKS-025	AZ2/PKS-032	AZ2/PKS-040

Note) The seal nominal types are subject to change.

Standard/Double acting single rod/With cushion

No.	Part name	Material	Qty.	Part number	
				φ 32	φ 40
8	Cushion seal	Nitrile rubber with metallic ring	2	PCS15	PCS20
9	Piston seal	Nitrile rubber	1	PWP32-N	PWP40-N
16	O-ring	Nitrile rubber	2	S29	S36
29	Rod seal	Nitrile rubber	1	DRP12	DRP14
35	Valve seal	Fluororesin	2	SF5	SF5
Seal set	Double acting single rod cylinder	—	1 set	Please contact us.	

Note) The seal nominal types are subject to change.

Non-rotating/Double acting single rod/Standard type, Switch Set, VAL set, SV set

No.	Part name	Material	Qty.	Part number	
				φ 25	φ 40
9	Piston seal	Nitrile rubber	1	PWP25-N	PWP40-N
16	O-ring	Nitrile rubber	2	S22	S36
29	Rod seal	Urethane rubber	1	PGR9	PGR14
Seal set	Double acting single rod cylinder	—	1 set	AZ2G/PKS-025	AZ2G/PKS-040

Note) The seal nominal types are subject to change.

Non-rotating/Double acting single rod/With cushion

No.	Part name	Material	Qty.	Part number	
				φ 40	
8	Cushion seal	Nitrile rubber with metallic ring	2	PCS20	
9	Piston seal	Nitrile rubber	1	PWP40-N	
16	O-ring	Nitrile rubber	2	S36	
29	Rod seal	Nitrile rubber	1	PGR14	
35	Valve seal	Fluororesin	2	SF5	
Seal set	Double acting single rod cylinder	—	1 set	Please contact us.	

Note) The seal nominal types are subject to change.

Standard/Double acting double rod/Standard type, Switch Set

No.	Part name	Material	Qty.	Part number			
				φ 20	φ 25	φ 32	φ 40
9	Piston seal	Nitrile rubber	1	PWP20-N	PWP25-N	PWP32-N	PWP40-N
16	O-ring	Nitrile rubber	2	S18	S22	S29	S36
29	Rod seal	Nitrile rubber	2	DRP8	DRP10	DRP12	DRP14
Seal set	Double acting double rod cylinder	—	1 set	AZ2D/PKS-020	AZ2D/PKS-025	AZ2D/PKS-032	AZ2D/PKS-040

Note) The seal nominal types are subject to change.

Standard/Single acting single rod/Standard type, Switch Set

No.	Part name	Material	Qty.	Part number			
				φ 20	φ 25	φ 32	φ 40
9	Piston seal	Nitrile rubber	1	PWP20-N	PWP25-N	PWP32-N	PWP40-N
16	O-ring	Nitrile rubber	2	S18	S22	S29	S36
29	Rod seal	Nitrile rubber	1	DRP8	DRP10	DRP12	DRP14
Seal set	Double acting single rod cylinder	—	1 set	AZ2/PKS-020	AZ2/PKS-025	AZ2/PKS-032	AZ2/PKS-040

Note) The seal nominal types are subject to change.

Non-rotating/Single acting single rod/Standard type, Switch Set

No.	Part name	Material	Qty.	Part number	
				φ 25	φ 40
9	Piston seal	Nitrile rubber	1	PWP25-N	PWP40-N
16	O-ring	Nitrile rubber	2	S29	S36
29	Rod seal	Urethane rubber	1	PGR9	PGR14
Seal set	Double acting single rod cylinder	—	1 set	AZ2G/PKS-025	AZ2G/PKS-040

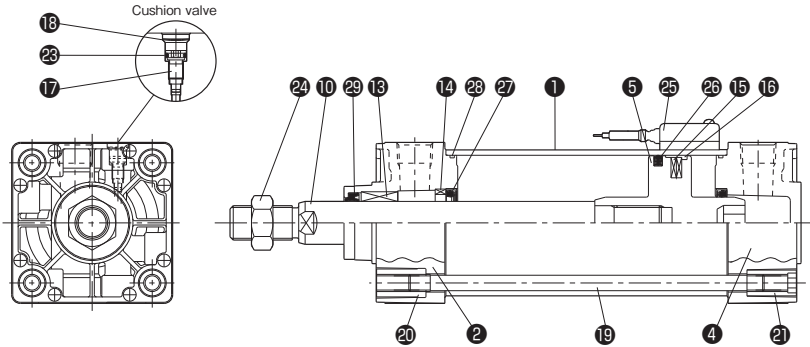
Note) The seal nominal types are subject to change.

Double acting single rod

- Standard type ●VAL set

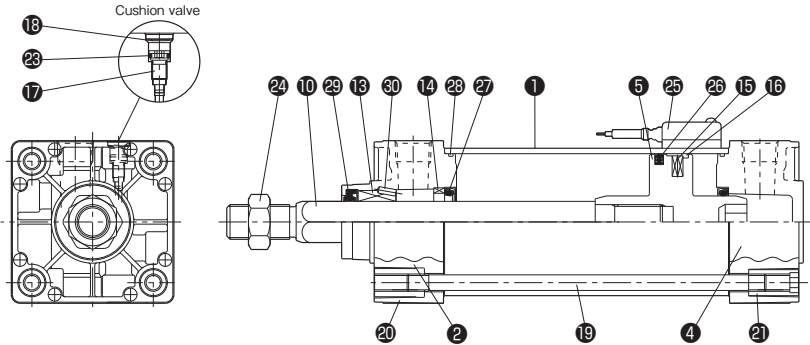
Standard

- Boreφ32 to φ125



Non-rotating

- Boreφ40 to φ100



Parts List

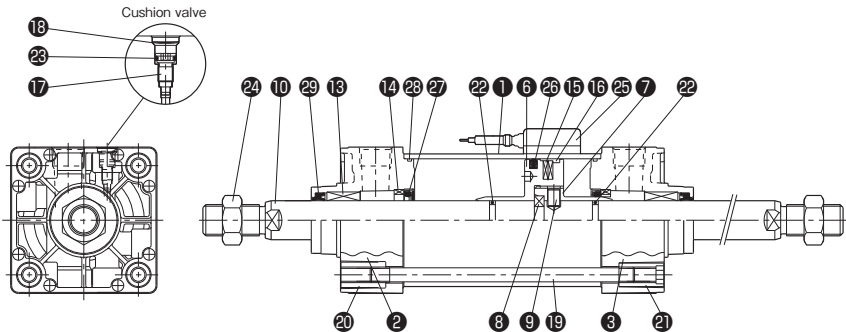
No.	Name	Material	Qty.
1	Cylinder tube	Aluminum alloy	1
2	Rod cover	Aluminum alloy die-cast	1
4	Cap cover	Aluminum alloy die-cast	1
5	Piston	Aluminum alloy	1
10	Piston rod	φ32: Stainless steel φ40 to φ125: Carbon steel for machine structural use	1
13	Bush	Standard: Oil-impregnated sintered bearing Non-rotating: Aluminum alloy (with wear-resistant surface treatment)	1
14	Keep ring	Aluminum alloy	1
15	Magnet	—	—
16	Wear ring	Synthetic resin	1
17	Cushion needle	Carbon steel for machine structural use	2
18	Set ring	Spring steel	2
19	Tie rod	Carbon steel for machine structural use	4
20	Tie rod nut R	Resulphurized free-cutting steel	4
21	Tie rod nut H	Carbon steel for cold heating and cold forging	4
23	O-ring for cushion valve	Nitrile rubber	2
24	Lock nut for rod end attachment	Rolled steel for general structure	1
25	Sensor	—	—
30	Spring pin	Cold rolled special steel strip	1

Double acting double rod

- Standard type ●VAL set

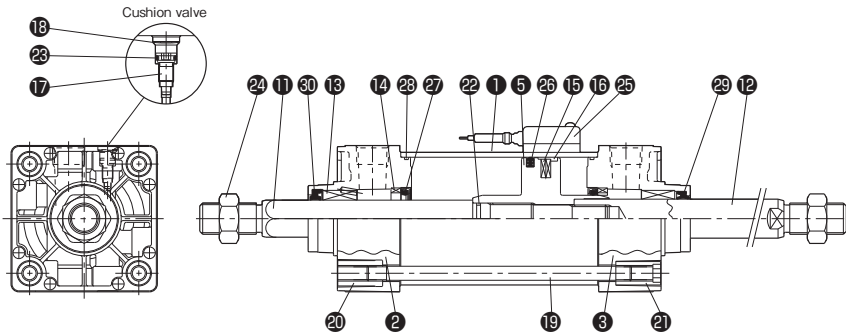
Standard

- Boreφ32 to φ125



Non-rotating

- Boreφ40 to φ100



Parts List

No.	Name	Material	Qty.
①	Cylinder tube	Aluminum alloy	1
②	Rod cover	Aluminum alloy die-cast	1
③	Rod cover D	Aluminum alloy die-cast	1
⑤	Piston	Aluminum alloy	1
⑥	Piston A	Aluminum alloy	1
⑦	Piston B	Aluminum alloy	1
⑧	Split ring	φ32 to φ63: Stainless steel φ80 to φ125: Carbon steel for machine structural use	1
⑨	Locking pin	φ32 to φ50: Stainless steel φ63 to φ125: Carbon steel for machine structural use	1
⑩	Piston rod	φ32: Stainless steel φ40 to φ125: Carbon steel for machine structural use	1
⑪	Piston rod A	φ40 to φ100: Carbon steel for machine structural use	1
⑫	Piston rod B	φ40 to φ100: Carbon steel for machine structural use	1
⑬	Bush	Standard: Oil-impregnated sintered bearing Non-rotating: Aluminum alloy (with wear-resistant surface treatment)	2
⑭	Keep ring	Aluminum alloy	2
⑮	Magnet	—	—
⑯	Wear ring	Synthetic resin	1
⑰	Cushion needle	Carbon steel for machine structural use	2
⑱	Set ring	Spring steel	2
⑲	Tie rod	Carbon steel for machine structural use	4
⑳	Tie rod nut R	Resulphurized free-cutting steel	4
㉑	Tie rod nut H	Carbon steel for cold heating and cold forging	4
㉒	O-ring for piston	Nitrile rubber	2
㉓	O-ring for cushion valve	Nitrile rubber	2
㉔	Lock nut for rod end attachment	Rolled steel for general structure	2
㉕	Sensor	—	—

Seal List/Double acting single rod (standard)

No.	Part name	Material	Qty.	Part number						
				φ32	φ40	φ50	φ63	φ80	φ100	φ125
26	Piston seal	Nitrile rubber	1	PWP-32N	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N	PWP-125N
27	Cushion seal	Nitrile rubber	2	CPF-15	CPF-20	CPF-24	CPF-24	CPF-30	CPF-35	CPF-45
28	O-ring for cover	Nitrile rubber	2	1.5×32	1.5×40	1.5×50	1.5×63	1.5×80	1.5×100	S120
29	Rod seal	Nitrile rubber	1	DRP-12	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30	DRP-35
Seal set	Standard type single rod cylinder	_____	1 set	AA6/PSKW -032	AA6/PSKW -040	AA6/PSKW -050	AA6/PSKW -063	AA6/PSKW -080	AA6/PSKW -100	AA6/PSKW -125

Notes) ●The O-rings for cover conform to TAIYO standards. ●The seal set includes a wear ring.
●The seal nominal types are subject to change.

Seal List/Double acting single rod (non-rotating)

No.	Part name	Material	Qty.	Part number				
				φ40	φ50	φ63	φ80	φ100
26	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
27	Cushion seal	Nitrile rubber	2	CPF-20	CPF-24	CPF-24	CPF-30	CPF-35
28	O-ring for cover	Nitrile rubber	2	1.5×40	1.5×50	1.5×63	1.5×80	1.5×100
29	Rod seal	Urethane rubber	1	PGR-14A	PGR-19	PGR-19	PGR-23	PGR-23
Seal set	Standard type single rod cylinder	_____	1 set	AA6G/PSKW -040	AA6G/PSKW -050	AA6G/PSKW -063	AA6G/PSKW -080	AA6G/PSKW -100

Notes) ●The O-rings for cover conform to TAIYO standards. ●The seal set includes a wear ring.
●The seal nominal types are subject to change.

Seal List/Double acting double rod (standard)

No.	Part name	Material	Qty.	Part number						
				φ32	φ40	φ50	φ63	φ80	φ100	φ125
26	Piston seal	Nitrile rubber	1	PWP-32N	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N	PWP-125N
27	Cushion seal	Nitrile rubber	2	CPF-15	CPF-20	CPF-24	CPF-24	CPF-30	CPF-35	CPF-45
28	O-ring for cover	Nitrile rubber	2	1.5×32	1.5×40	1.5×50	1.5×63	1.5×80	1.5×100	S120
29	Rod seal	Nitrile rubber	2	DRP-12	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30	DRP-35
Seal set	Standard type double rod cylinder	_____	1 set	AA6D/PSKW -032	AA6D/PSKW -040	AA6D/PSKW -050	AA6D/PSKW -063	AA6D/PSKW -080	AA6D/PSKW -100	AA6D/PSKW -125

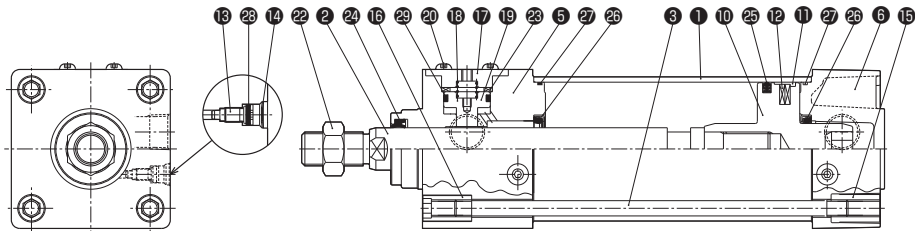
Notes) ●The O-rings for cover conform to TAIYO standards. ●The seal set includes a wear ring.
●The seal nominal types are subject to change.

Seal List/Double acting double rod (non-rotating)

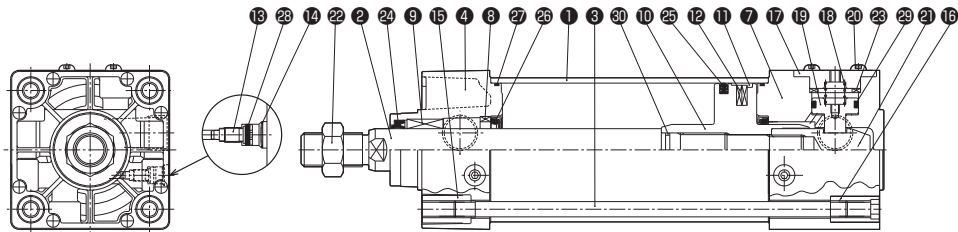
No.	Part name	Material	Qty.	Part number				
				φ40	φ50	φ63	φ80	φ100
26	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
27	Cushion seal	Nitrile rubber	2	CPF-20	CPF-24	CPF-24	CPF-30	CPF-35
28	O-ring for cover	Nitrile rubber	2	1.5×40	1.5×50	1.5×63	1.5×80	1.5×100
29	Rod seal A	Nitrile rubber	1	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30
30	Rod seal B	Urethane rubber	1	PGR-14A	PGR-19	PGR-19	PGR-23	PGR-23
Seal set	Standard type double rod cylinder	_____	1 set	AA6GD/PSKW -040	AA6GD/PSKW -050	AA6GD/PSKW -063	AA6GD/PSKW -080	AA6GD/PSKW -100

Notes) ●The O-rings for cover conform to TAIYO standards. ●The seal set includes a wear ring.
●The seal nominal types are subject to change.

10A-6L1
●With lock on rod side



10A-6L2
●With lock on cap side



Parts List

No.	Name	Material	Qty.
①	Cylinder tube	Aluminum alloy	1
②	Piston rod	Carbon steel for machine structural use	1
③	Tie rod	Carbon steel for machine structural use	4
④	Rod cover	Aluminum die-cast	1
⑤	Rod cover (for lock)	Aluminum alloy	1
⑥	Cap cover	Aluminum die-cast	1
⑦	Cap cover (for lock)	Aluminum alloy	1
⑧	Keep ring	Aluminum alloy	1
⑨	Rod bush	Oil-impregnated sintered copper alloy	1
⑩	Piston	Aluminum alloy	1
⑪	Wear ring	Synthetic resin	1
⑫	Magnet	—	—
⑬	Cushion needle	Carbon steel for machine structural use	2
⑭	Set ring	Spring steel	2
⑮	Tie rod nut R	Rolled steel for general structure	4
⑯	Tie rod nut H	Chromium-molybdenum steel	4
⑰	Lock cover	Aluminum alloy	1
⑱	Spring for lock	Spring steel	1
⑲	Piston for lock	Carbon steel for machine structural use	1
⑳	Button bolt	Chromium-molybdenum steel	4
㉑	Globe pin	Carbon steel for machine structural use	1
㉒	Rod end lock nut	Rolled steel for general structure	1
㉓	Damper	Urethane rubber	1
㉔	O-ring for cushion valve	Nitrile rubber	2

Seal List/Standard type single rod (with lock on rod side)

No.	Part name	Material	Qty.	Part number				
				φ40	φ50	φ63	φ80	φ100
24	Rod seal	Nitrile rubber	1	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30
25	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
26	Cushion seal	Nitrile rubber	2	CPF-20	CPF-24	CPF-24	CPF-30	CPF-35
27	O-ring for cover	Nitrile rubber	2	1.5×40	1.5×50	1.5×63	1.5×80	1.5×100
29	Seal for lock piston	Nitrile rubber	1	MYA-18	MYA-18	MYA-18	MYA-24	MYA-24
Seal set	Standard type single rod cylinder	_____	1 set	AA6L1/ PKSW-040	AA6L1/ PKSW-050	AA6L1/ PKSW-063	AA6L1/ PKSW-080	AA6L1/ PKSW-100

Notes) ●The O-rings for cover conform to TAIYO standards. ●The seal set includes a wear ring.
●The seal nominal types are subject to change.

Seal List/Standard type single rod/10A-6L2 (with lock on cap side)

No.	Part name	Material	Qty.	Part number				
				φ40	φ50	φ63	φ80	φ100
24	Rod seal	Nitrile rubber	1	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30
25	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
26	Cushion seal	Nitrile rubber	2	CPF-20	CPF-24	CPF-24	CPF-30	CPF-35
27	O-ring for cover	Nitrile rubber	2	1.5×40	1.5×50	1.5×63	1.5×80	1.5×100
29	Seal for lock piston	Nitrile rubber	1	MYA-18	MYA-18	MYA-18	MYA-24	MYA-24
30	O-ring for piston	Nitrile rubber	1	S-10	S-14	S-14	S-18	S-18
Seal set	Standard type single rod cylinder	_____	1 set	AA6L2/ PKSW-040	AA6L2/ PKSW-050	AA6L2/ PKSW-063	AA6L2/ PKSW-080	AA6L2/ PKSW-100

Notes) ●The O-rings for cover conform to TAIYO standards. ●The seal set includes a wear ring.
●The seal nominal types are subject to change.

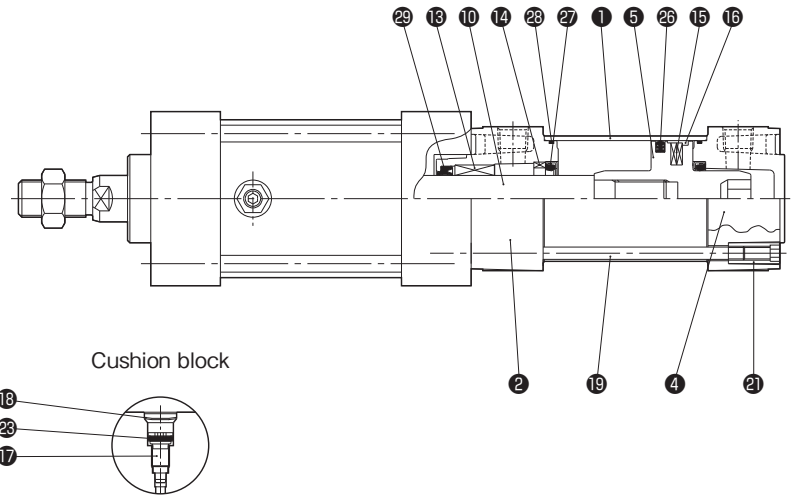
Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Aluminum alloy	1
2	Rod cover	Aluminum alloy die-cast	1
4	Cap cover	Aluminum alloy die-cast	1
5	Piston	Aluminum alloy	1
10	Piston rod	Carbon steel for machine structural use	1
13	Bush	Oil-impregnated sintered bearing	1
14	Keep ring	Aluminum alloy	1
15	Magnet	—	—
16	Wear ring	Synthetic resin	1
17	Cushion needle	Carbon steel for machine structural use	2
18	Set ring	Spring steel	2
19	Tie rod	Carbon steel for machine structural use	4
21	Tie rod nut H	Chromium-molybdenum steel	4
23	O-ring for cushion valve	Nitrile rubber	2

Seal List
Cylinder unit

No.	Part name	Material	Qty.	Part number				
				φ40	φ50	φ63	φ80	φ100
26	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N
27	Cushion seal	Nitrile rubber	2	CPF-20	CPF-24	CPF-24	CPF-30	CPF-35
28	O-ring for cover	Nitrile rubber	2	1.5×40	1.5×50	1.5×63	1.5×80	1.5×100
29	Rod seal	Nitrile rubber	1	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30
Seal set	Standard type single rod cylinder	—	1 set	AA6/PKSW -040	AA6/PKSW -050	AA6/PKSW -063	AA6/PKSW -080	AA6/PKSW -100

Notes) ●The O-rings for cover conform to TAIYO standards.
●The seal set includes a wear ring.
●The seal nominal types are subject to change.



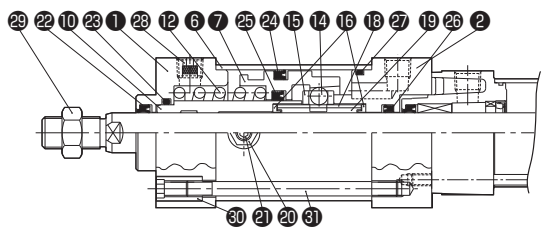
Cylinder unit

Cushion block

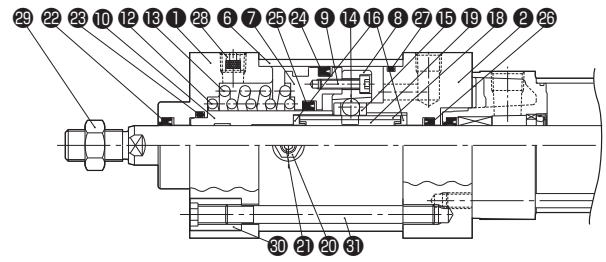
Brake block

10B-6/Single type

●Bore $\phi 40 \cdot \phi 50$

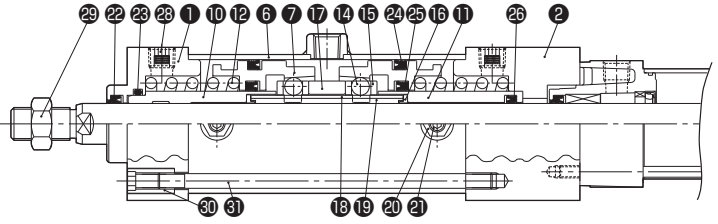


●Bore $\phi 63$ to $\phi 100$

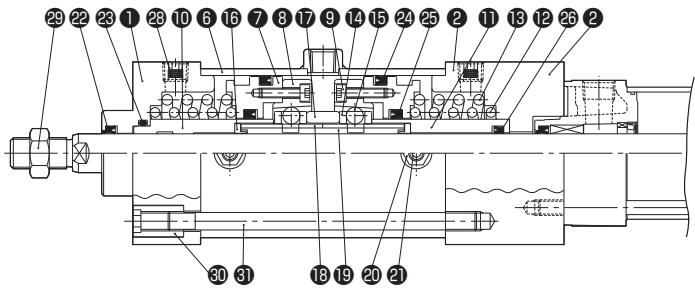


10BD-6/Double type

●Bore $\phi 40 \cdot \phi 50$



●Bore $\phi 63$ to $\phi 100$



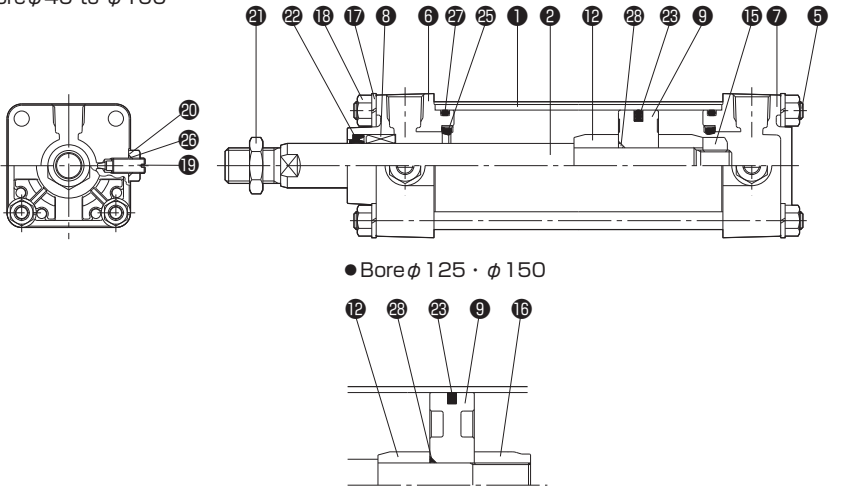
Parts List

No.	Name	Material	Qty.
1	Front cover	Aluminum alloy	1
2	Rear cover	Aluminum alloy	1
6	Brake tube	Carbon steel for machine structural use	1
7	Brake piston	$\phi 40, \phi 50$: High-carbon chromium bearing steel $\phi 63, \phi 80$: Grey cast iron	1 (2)
8	Taper ring	High-carbon chromium bearing steel	1 (2)
9	Taper ring set screw	Chromium-molybdenum steel	4 (8)
10	Spacer A	Aluminum alloy (with wear-resistant surface treatment)	1
11	Spacer B	Aluminum alloy (with wear-resistant surface treatment)	(1)
12	Spring A	Piano wire	1 (2)
13	Spring B	Piano wire	1 (2)
14	Steel ball	High-carbon chromium bearing steel	—
15	Retainer A	High-carbon chromium bearing steel	1 (2)
16	Retainer B	Carbon steel for machine structural use	2
17	Retainer C	Carbon steel for machine structural use	1
18	Ring	High-carbon chromium bearing steel	—
19	Brake shoe	Phosphor bronze	—
20	Lock nut for brake releasing screw	Rolled steel for general structure	2 (4)
21	Brake releasing screw	Chromium-molybdenum steel	2 (4)
22	Rod seal A for brake	Nitrile rubber	1
23	O-ring for spacer	Nitrile rubber	1
24	Piston seal A	Nitrile rubber	1 (2)
25	Piston seal B	Nitrile rubber	1 (2)
26	Rod seal B for brake	Nitrile rubber	1
27	O-ring for rear cover	Nitrile rubber	1 (—)
28	Plug silencer	Chromium-molybdenum steel+synthetic resin	1 (2)
29	Lock nut for rod end attachment	Rolled steel for general structure	1
30	Tie rod nut	Rolled steel for general structure	4
31	Tie rod	Carbon steel for machine structural use	4

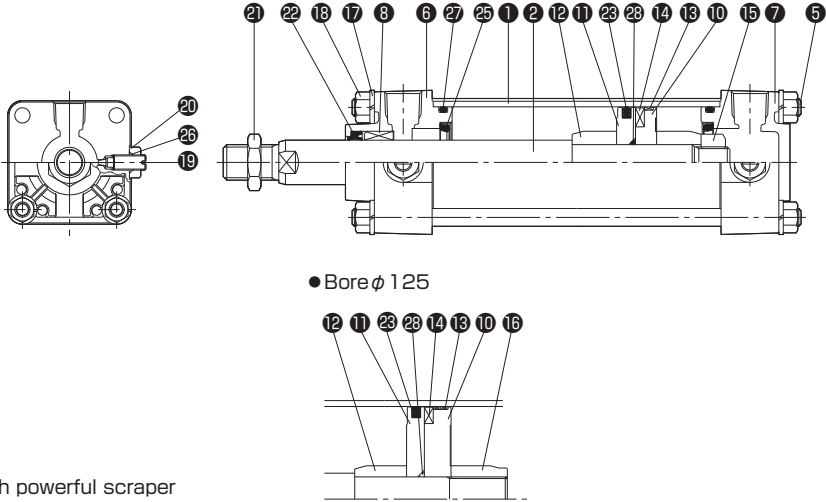
Note) The quantities in parentheses apply to the double piston type.

Double acting single rod

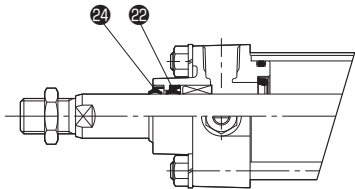
- Standard type ● Iron proximity type
- Bore $\phi 40$ to $\phi 100$



- Magnetic proximity type
- Bore $\phi 40$ to $\phi 100$



- With powerful scraper
- Bore $\phi 40$ to $\phi 150$



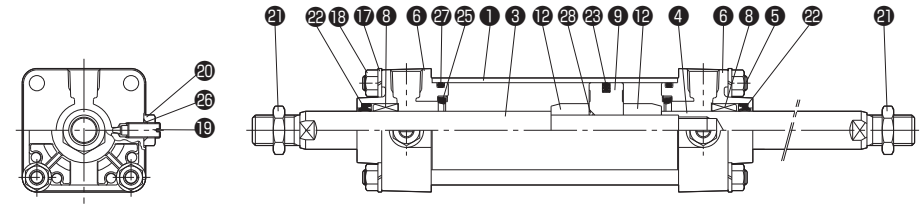
Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Aluminum alloy	1
2	Piston rod	Carbon steel for machine structural use	1
5	Tie rod	Carbon steel for machine structural use	4
6	Rod cover	Aluminum alloy die-cast	1
7	Cap cover	Aluminum alloy die-cast	1
8	Bush	Oil-impregnated sintered copper alloy	1
9	Piston	Cast iron	1
10	Piston	Aluminum alloy	1
11	Seal housing	Aluminum alloy	1
12	Cushion ring	Carbon steel for machine structural use	2 (1)
13	Wear ring	Synthetic resin	1 (2)
14	Magnet	—	1
15	Piston nut	Rolled steel for general structure	1
16	Cushion nut	Carbon steel for machine structural use	1
17	Spring washer	Spring steel	8
18	Tie rod nut	Rolled steel for general structure	8
19	Cushion valve	Carbon steel for machine structural use	2
20	Cushion lock nut	Rolled steel for general structure	2
21	Rod end lock nut	Rolled steel for general structure	1
28	O-ring for piston rod	Nitrile rubber	1

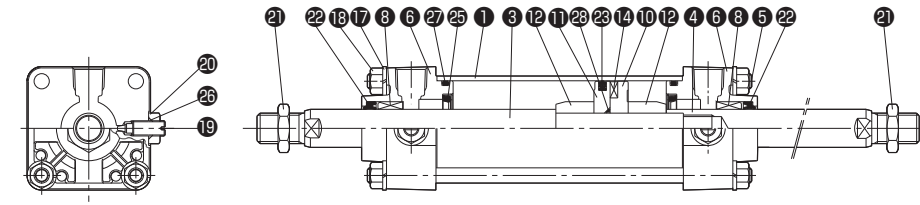
Note) The quantities in parentheses apply to $\phi 125$ and $\phi 150$.

Double acting double rod

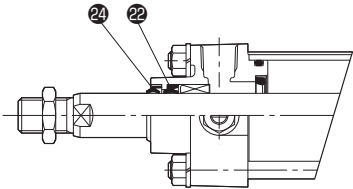
- Standard type●Iron proximity type
- Boreφ40 to φ150



- Magnetic proximity type
- Boreφ40 to φ125



- With powerful scraper
- Boreφ40 to φ150



Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Aluminum alloy	1
3	Piston rod A	Carbon steel for machine structural use	1
4	Piston rod B	Carbon steel for machine structural use	1
5	Tie rod	Carbon steel for machine structural use	4
6	Rod cover	Aluminum alloy die-cast	2
8	Bush	Oil-impregnated sintered copper alloy	2
9	Piston	Cast iron	1
10	Piston	Aluminum alloy	1
11	Seal housing	Aluminum alloy	1
12	Cushion ring	Carbon steel for machine structural use	2
14	Magnet	—	1
17	Spring washer	Spring steel	8
18	Tie rod nut	Rolled steel for general structure	8
19	Cushion valve	Carbon steel for machine structural use	2
20	Cushion lock nut	Rolled steel for general structure	2
21	Rod end lock nut	Rolled steel for general structure	2
28	O-ring for piston rod	Nitrile rubber	1

Seal List
General-purpose type/Double acting single rod

No.	Part name	Material	Qty.	Part number						
				φ40	φ50	φ63	φ80	φ100	φ125	φ150
22	Rod seal	Nitrile rubber	1	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30	DRP-35	DRP-40
23	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N	PWP-125N	PWP-150N
25	Cushion seal	Nitrile rubber with metallic ring	2	CPF-20	CPF-28	CPF-28	CPF-40	CPF-40	CPF-45	CPC-50
26	Cushion valve seal	Nitrile rubber	2	P-8	P-8	P-8	P-10	P-10	P-16	P-16
27	O-ring for cover	Nitrile rubber	2	G-35	G-45	G-58	G-75	G-95	G-120	G-145
Seal set	Standard type cylinder Iron proximity type Switch Set Cylinder	—	1 set	DC7 /PKS-040	DC7 /PKS-050	DC7 /PKS-063	DC7 /PKS-080	DC7 /PKS-100	DC7 /PKS-125	DC7 /PKS-150
	Magnetic proximity type Switch Set Cylinder	—	1 set	DC7R /PKS-040	DC7R /PKS-050	DC7R /PKS-063	DC7R /PKS-080	DC7R /PKS-100	DC7R /PKS-125	—

Note) The seal nominal types are subject to change.

With powerful scraper/Double acting single rod

No.	Part name	Material	Qty.	Part number						
				φ40	φ50	φ63	φ80	φ100	φ125	φ150
22	Rod seal	Nitrile rubber	1	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30	DRP-35	DRP-40
23	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N	PWP-125N	PWP-150N
24	Scraper	Nitrile rubber with metallic ring	1	K2-16	K2-20	K2-20	K2-25	K2-30	DKB-35	DKB-40
25	Cushion seal	Nitrile rubber with metallic ring	2	CPF-20	CPF-28	CPF-28	CPF-40	CPF-40	CPF-45	CPC-50
26	Cushion valve seal	Nitrile rubber	2	P-8	P-8	P-8	P-10	P-10	P-16	P-16
27	O-ring for cover	Nitrile rubber	2	G-35	G-45	G-58	G-75	G-95	G-120	G-145
Seal set	Standard type cylinder Iron proximity type Switch Set Cylinder	—	1 set	DC7H /PKS-040	DC7H /PKS-050	DC7H /PKS-063	DC7H /PKS-080	DC7H /PKS-100	DC7H /PKS-125	DC7H /PKS-150
	Magnetic proximity type Switch Set Cylinder	—	1 set	DC7HR /PKS-040	DC7HR /PKS-050	DC7HR /PKS-063	DC7HR /PKS-080	DC7HR /PKS-100	DC7HR /PKS-125	—

Note) The seal nominal types are subject to change.

Seal List
General-purpose type/Double acting double rod

No.	Part name	Material	Qty.	Part number						
				φ40	φ50	φ63	φ80	φ100	φ125	φ150
22	Rod seal	Nitrile rubber	2	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30	DRP-35	DRP-40
23	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N	PWP-125N	PWP-150N
25	Cushion seal	Nitrile rubber with metallic ring	2	CPF-20	CPF-28	CPF-28	CPF-40	CPF-40	CPF-45	CPC-50
26	Cushion valve seal	Nitrile rubber	2	P-8	P-8	P-8	P-10	P-10	P-16	P-16
27	O-ring for cover	Nitrile rubber	2	G-35	G-45	G-58	G-75	G-95	G-120	G-145
Seal set	Standard type cylinder Iron proximity type Switch Set Cylinder	—	1 set	DC7D /PKS-040	DC7D /PKS-050	DC7D /PKS-063	DC7D /PKS-080	DC7D /PKS-100	DC7D /PKS-125	DC7D /PKS-150
	Magnetic proximity type Switch Set Cylinder	—	1 set	DC7RD /PKS-040	DC7RD /PKS-050	DC7RD /PKS-063	DC7RD /PKS-080	DC7RD /PKS-100	DC7RD /PKS-125	—

Note) The seal nominal types are subject to change.

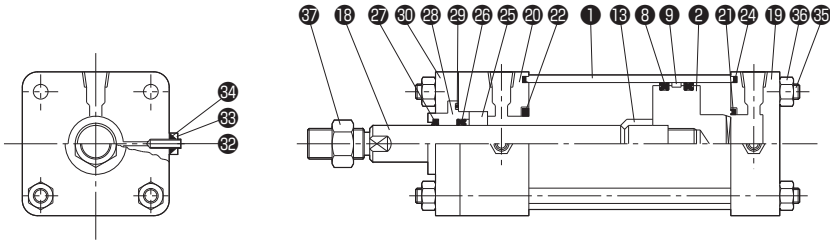
With powerful scraper/Double acting double rod

No.	Part name	Material	Qty.	Part number						
				φ40	φ50	φ63	φ80	φ100	φ125	φ150
22	Rod seal	Nitrile rubber	2	DRP-16	DRP-20	DRP-20	DRP-25	DRP-30	DRP-35	DRP-40
23	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N	PWP-80N	PWP-100N	PWP-125N	PWP-150N
24	Scraper	Nitrile rubber with metallic ring	2	K2-16	K2-20	K2-20	K2-25	K2-30	DKB-35	DKB-40
25	Cushion seal	Nitrile rubber with metallic ring	2	CPF-20	CPF-28	CPF-28	CPF-40	CPF-40	CPF-45	CPC-50
26	Cushion valve seal	Nitrile rubber	2	P-8	P-8	P-8	P-10	P-10	P-16	P-16
27	O-ring for cover	Nitrile rubber	2	G-35	G-45	G-58	G-75	G-95	G-120	G-145
Seal set	Standard type cylinder Iron proximity type Switch Set Cylinder	—	1 set	DC7HD /PKS-040	DC7HD /PKS-050	DC7HD /PKS-063	DC7HD /PKS-080	DC7HD /PKS-100	DC7HD /PKS-125	DC7HD /PKS-150
	Magnetic proximity type Switch Set Cylinder	—	1 set	DC7HRD /PKS-040	DC7HRD /PKS-050	DC7HRD /PKS-063	DC7HRD /PKS-080	DC7HRD /PKS-100	DC7HRD /PKS-125	—

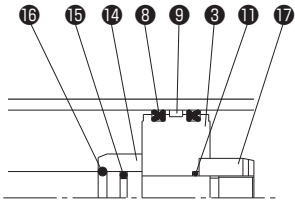
Note) The seal nominal types are subject to change.

Double acting single rod/Standard type($\phi 32$ to $\phi 250$)/VAL set($\phi 40$ to $\phi 100$)

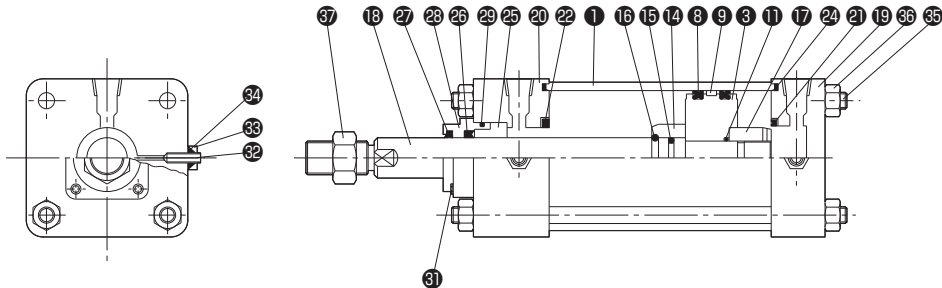
●Bore $\phi 32$ to $\phi 63$



●Bore $\phi 80 \cdot \phi 100$



●Bore $\phi 125$ to $\phi 250$



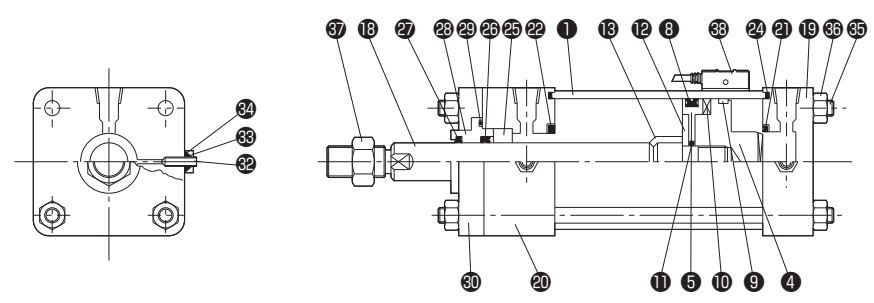
Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Carbon steel pipe for machine structural use	1
2	Piston ($\phi 32$ to $\phi 63$)	Carbon steel for machine structural use	1
3	Piston ($\phi 80$ to $\phi 250$)	Carbon steel for machine structural use	1
9	Wear ring	Synthetic resin	*
11	O-ring for piston rod	Nitrile rubber	1
13	Cushion ring ($\phi 32$ to $\phi 63$)	Brass tube	1
14	Cushion ring ($\phi 80$ to $\phi 250$)	Rolled steel for general structure	1
15	O-ring for cushion ring	Nitrile rubber	1
16	Stop ring	Piano wire	1
17	Piston nut	Rolled steel for general structure	1
18	Piston rod	Carbon steel for machine structural use	1
19	Cap cover	Carbon steel for machine structural use ($\phi 32$ to $\phi 100$) Rolled steel for general structure ($\phi 125$ to $\phi 250$)	1
20	Rod cover	Carbon steel for machine structural use ($\phi 32$ to $\phi 100$) Rolled steel for general structure ($\phi 125$ to $\phi 250$)	1
25	Bush	Oil-impregnated sintered bearing	1
28	Seal housing	Carbon steel for machine structural use	1
30	Retainer	Carbon steel for machine structural use	1
31	Seal housing set screw	Chromium-molybdenum steel	4
32	Cushion valve	Chromium-molybdenum steel	2
33	Cushion lock nut	Rolled steel for general structure	2
35	Tie rod	Carbon steel for machine structural use	4
36	Tie rod nut	Rolled steel for general structure	8
37	Lock nut for rod end attachment	Rolled steel for general structure	1

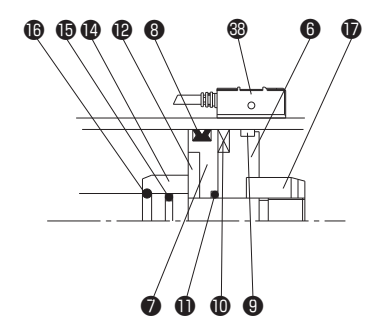
Notes) *: 1 piece for cylinders with bores of $\phi 100$ or less, 2 pieces for cylinders with bores of $\phi 125$ or more.
28 is used for cylinders with dust cover.

Double acting single rod/Switch Set($\phi 32$ to $\phi 160$)/SV set($\phi 40$ to $\phi 100$)

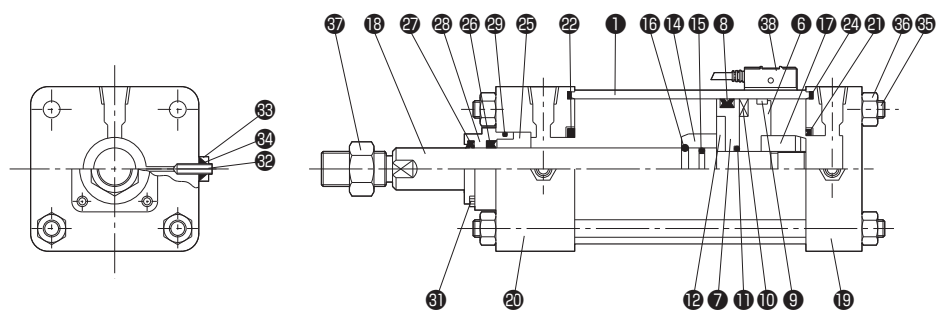
●Bore $\phi 32$ to $\phi 63$



●Bore $\phi 80 \cdot \phi 100$



●Bore $\phi 125 \cdot \phi 140 \cdot \phi 160$



Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Aluminum alloy tube	1
4	Piston A ($\phi 32$ to $\phi 63$)	Aluminum alloy	1
5	Piston B ($\phi 32$ to $\phi 63$)	Aluminum alloy	1
6	Piston A ($\phi 80$ to $\phi 160$)	Aluminum alloy	1
7	Piston B ($\phi 80$ to $\phi 160$)	Aluminum alloy	1
9	Wear ring	Synthetic resin	*
10	Magnet	Plastic	1
11	O-ring for piston rod	Nitrile rubber	1
12	Piston washer	Rolled steel for general structure	1
13	Cushion ring ($\phi 32$ to $\phi 63$)	Brass tube	1
14	Cushion ring ($\phi 80$ to $\phi 160$)	Rolled steel for general structure	1
15	O-ring for cushion ring	Nitrile rubber	1
16	Stop ring	Piano wire	1
17	Piston nut	Rolled steel for general structure	1
18	Piston rod	Stainless steel ($\phi 32$) Carbon steel for machine structural use ($\phi 40$ to $\phi 160$)	1
19	Cap cover	Carbon steel for machine structural use ($\phi 32$ to $\phi 100$) Rolled steel for general structure ($\phi 125$ to $\phi 160$)	1
20	Rod cover	Carbon steel for machine structural use ($\phi 32$ to $\phi 100$) Rolled steel for general structure ($\phi 125$ to $\phi 160$)	1
25	Bush	Oil-impregnated sintered bearing	1
28	Seal housing	Carbon steel for machine structural use	1
30	Retainer	Carbon steel for machine structural use	1
31	Seal housing set screw	Chromium-molybdenum steel	4
32	Cushion valve	Chromium-molybdenum steel	2
33	Cushion lock nut	Rolled steel for general structure	2
35	Tie rod	Carbon steel for machine structural use	4
36	Tie rod nut	Rolled steel for general structure	8
37	Lock nut for rod end attachment	Rolled steel for general structure	1
38	Sensor	—	—

Note) *: 1 piece for cylinders with bores of $\phi 100$ or less, 2 pieces for cylinders with bores of $\phi 125$ or more.
 is used for cylinders with dust cover.

Seal List

Standard type/VAL set

No.	Part name	Material	Qty.	Part number					
				φ32	φ40	φ50	φ63	φ80	φ100
8	Piston seal	Nitrile rubber	2	PNU-24	PNU-30	PNU-40	PNU-53	PNU-70	PNU-90
21	Cushion seal (H side)	Nitrile rubber with metallic ring	1	HM-15	HM-20	HM-28	HM-28	HM-35	HM-35
22	Cushion seal (R side)	Nitrile rubber with metallic ring	1	HM-15	HM-20	HM-28	HM-28	HM-40	HM-40
24	End face seal	Nitrile rubber	2	TX-32	TX-40	TX-50	TX-63	TX-80	TX-100
26	Rod seal	Nitrile rubber	1	PNU-12	PNU-16A	PNU-22	PNU-22	PNU-25A	PNU-25A
27	Dust wiper	Urethane rubber	1	DA-12	DA-16	DA-22	DA-22	DA-25	DA-25
29	O-ring for seal housing	Nitrile rubber	1	S-25	S-30	S-38	S-38	G-45	G-45
34	Cushion valve seal	Fluororesin	2	SF-6	SF-6	SF-6	SF-8	SF-8	SF-8
Seal set	Standard type single rod cylinder	_____	1 set	AA2/PKS-032	AA2/PKS-040	AA2/PKS-050	AA2/PKS-063	AA2/PKS-080	AA2/PKS-100

No.	Part name	Material	Qty.	Part number					
				φ125	φ140	φ160	φ180	φ200	φ250
8	Piston seal	Nitrile rubber	2	PNU-115	PNU-125	PNU-145	PNU-165	PNU-185	PNU-230
21	Cushion seal (H side)	Nitrile rubber with metallic ring	1	HM-40	CPC-50	CPC-50	CPC-50	CPC-50	CPC-60
22	Cushion seal (R side)	Nitrile rubber with metallic ring	1	CPC-45	CPC-55	CPC-55	CPC-55	CPC-55	CPC-60
24	End face seal	Nitrile rubber	2	TX-125	TO-140	TO-160	TO-180	TO-200	TO-250
26	Rod seal	Nitrile rubber	1	PNU-32	PNU-40	PNU-40	PNU-40	PNU-40	PNU-45
27	Dust wiper	Urethane rubber	1	DA-32	DA-40	DA-40	DA-40	DA-40	DA-45
29	O-ring for seal housing	Nitrile rubber	1	G-45	G-55	G-55	G-55	G-55	G-60
34	Cushion valve seal	Fluororesin	2	SF-8	SF-10	SF-10	SF-10	SF-10	SF-10
Seal set	Standard type single rod cylinder	_____	1 set	AA2/PKS-125	AA2/PKS-140	AA2/PKS-160	AA2/PKS-180	AA2/PKS-200	AA2/PKS-250

●The O-rings conform to JIS B2401-1A.

Note) The seal nominal types are subject to change.

Seal List

Switch Set/SV set

No.	Part name	Material	Qty.	Part number					
				φ32	φ40	φ50	φ63	φ80	φ100
8	Piston seal	Nitrile rubber	1	PNX-32	PNX-40	PNX-50	PNX-63	PNX-80	PNX-100
21	Cushion seal (H side)	Nitrile rubber with metallic ring	1	HM-15	HM-20	HM-28	HM-28	HM-35	HM-35
22	Cushion seal (R side)	Nitrile rubber with metallic ring	1	HM-15	HM-20	HM-28	HM-28	HM-40	HM-40
24	End face seal	Nitrile rubber	2	TX-32	TX-40	TX-50	TX-63	TX-80	TX-100
26	Rod seal	Nitrile rubber	1	PNU-12	PNU-16A	PNU-22	PNU-22	PNU-25A	PNU-25A
27	Dust wiper	Urethane rubber	1	DA-12	DA-16	DA-22	DA-22	DA-25	DA-25
29	O-ring for seal housing	Nitrile rubber	1	S-25	S-30	S-38	S-38	G-45	G-45
34	Cushion valve seal	Fluororesin	2	SF-6	SF-6	SF-6	SF-8	SF-8	SF-8
Seal set	Standard type single rod cylinder	_____	1 set	AA2R/PKS-032	AA2R/PKS-040	AA2R/PKS-050	AA2R/PKS-063	AA2R/PKS-080	AA2R/PKS-100

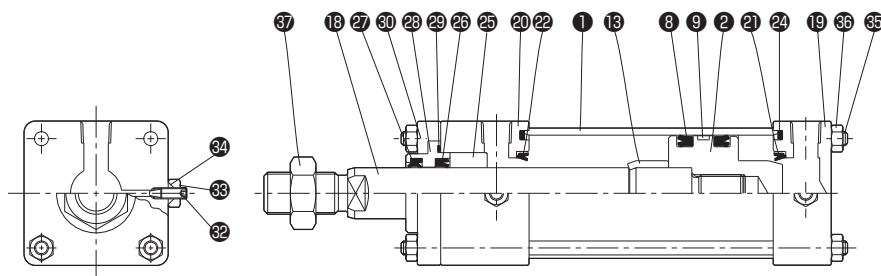
No.	Part name	Material	Qty.	Part number		
				φ125	φ140	φ160
8	Piston seal	Nitrile rubber	1	PNX-125	PNX-140	PNX-160
21	Cushion seal (H side)	Nitrile rubber with metallic ring	1	HM-40	CPC-50	CPC-50
22	Cushion seal (R side)	Nitrile rubber with metallic ring	1	CPC-45	CPC-55	CPC-55
24	End face seal	Nitrile rubber	2	TX-125	TO-140	TO-160
26	Rod seal	Nitrile rubber	1	PNU-32	PNU-40	PNU-40
27	Dust wiper	Urethane rubber	1	DA-32	DA-40	DA-40
29	O-ring for seal housing	Nitrile rubber	1	G-45	G-55	G-55
34	Cushion valve seal	Fluororesin	2	SF-8	SF-10	SF-10
Seal set	Standard type single rod cylinder	_____	1 set	AA2R/PKS-125	AA2R/PKS-140	AA2R/PKS-160

●The O-rings conform to JIS B2401-1A.

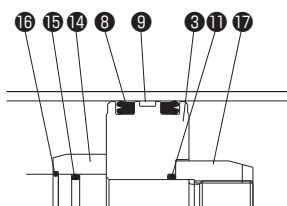
Note) The seal nominal types are subject to change.

Double acting single rod/Standard type

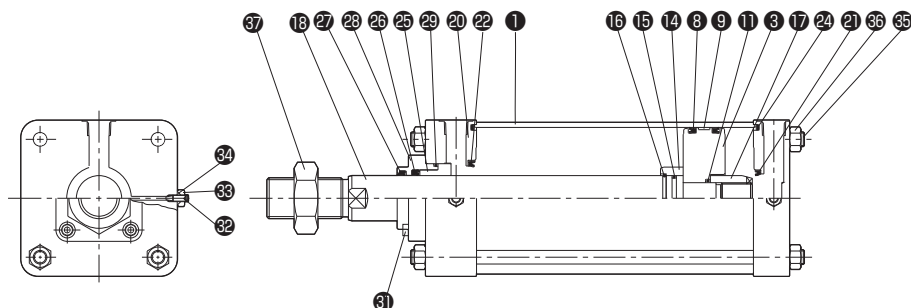
●Bore $\phi 50 \cdot 63$



●Bore $\phi 80$



●Bore $\phi 100$ to $\phi 250$



Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Carbon steel pipe for machine structural use	1
2	Piston ($\phi 50 \cdot \phi 63$)	Carbon steel for machine structural use	1
3	Piston ($\phi 80$ to $\phi 250$)	Carbon steel for machine structural use	1
9	Wear ring	Synthetic resin	1 ($\phi 100$ or less) 2 ($\phi 125$ or more)
11	O-ring for piston rod	Nitrile rubber	1
13	Cushion ring ($\phi 50 \cdot \phi 63$)	Brass tube	1
14	Cushion ring ($\phi 80$ to $\phi 250$)	Rolled steel for general structure	1
15	O-ring for cushion ring	Nitrile rubber	1
16	Stop ring	Piano wire	1
17	Piston nut	Rolled steel for general structure	1
18	Piston rod	Carbon steel for machine structural use	1
19	Cap cover	Carbon steel for machine structural use ($\phi 50$ to $\phi 100$) Rolled steel for general structure ($\phi 125$ to $\phi 250$)	1
20	Rod cover	Carbon steel for machine structural use ($\phi 50$ to $\phi 100$) Rolled steel for general structure ($\phi 125$ to $\phi 250$)	1
25	Bush	Oil-impregnated sintered metal ($\phi 50$ to $\phi 125$) Oil-impregnated metal ($\phi 160$ to $\phi 250$)	1
28	Seal housing	Carbon steel for machine structural use ($\phi 50$ to $\phi 200$) Rolled steel for general structure ($\phi 250$)	1
30	Retainer	Carbon steel for machine structural use	1
31	Seal housing set screw	Chromium-molybdenum steel	4
32	Cushion valve	Chromium-molybdenum steel	2
33	Cushion lock nut	Rolled steel for general structure	2
35	Tie rod	Carbon steel for machine structural use	4
36	Tie rod nut	Rolled steel for general structure	8
37	Lock nut for rod end attachment	Rolled steel for general structure	1

28 is used only for cylinders with dust cover.

Seal List

No.	Part name	Material	Qty.	Part number				
				φ50	φ63	φ80	φ100	φ125
8	Piston seal	Nitrile rubber	2	PNU-40	PNU-53	PNU-70	PNU-90	PNU-115
21	Cushion seal (H side)	Nitrile rubber with metallic ring	1	HM-28	HM-28	HM-35	HM-35	HM-40
22	Cushion seal (R side)	Nitrile rubber with metallic ring	1	HM-28	HM-28	HM-40	CPC-45	CPC-55
24	End face seal	Nitrile rubber	2	TX-50	TX-63	TX-80	TX-100	TX-125
26	Rod seal	Nitrile rubber	1	PNU-22	PNU-22	PNU-25A	PNU-32	PNU-40
27	Dust wiper	Urethane rubber	1	DA-22	DA-22	DA-25	DA-32	DA-40
29	O-ring for seal housing	Nitrile rubber	1	S-38	S-38	G-45	G-45	G-55
34	Cushion valve seal	Fluororesin	2	SF-6	SF-8	SF-8	SF-8	SF-8
Seal set	Standard type single rod cylinder	————	1 set	AA3/PKS -050	AA3/PKS -063	AA3/PKS -080	AA3/PKS -100	AA3/PKS -125

No.	Part name	Material	Qty.	Part number			
				φ160	φ180	φ200	φ250
8	Piston seal	Nitrile rubber	2	PNU-145	PNU-165	PNU-185	PNU-230
21	Cushion seal (H side)	Nitrile rubber with metallic ring	1	CPC-50	CPC-50	CPC-50	CPC-60
22	Cushion seal (R side)	Nitrile rubber with metallic ring	1	PCS-65	PCS-65	PCS-65	PCS-75
24	End face seal	Nitrile rubber	2	TO-160	TO-180	TO-200	TO-250
26	Rod seal	Nitrile rubber	1	PNU-50	PNU-50	PNU-50	PNU-63
27	Dust wiper	Urethane rubber	1	DA-50	DA-50	DA-50	DA-63
29	O-ring for seal housing	Nitrile rubber	1	G-65	G-65	G-65	G-80
34	Cushion valve seal	Fluororesin	2	SF-10	SF-10	SF-10	SF-10
Seal set	Standard type single rod cylinder	————	1 set	AA3/PKS -160	AA3/PKS -180	AA3/PKS -200	AA3/PKS -250

●The O-rings conform to JIS B2401-1A.
(Note) The seal nominal types are subject to change.

Parts List

No.	Name	Material	Qty.
1	Cylinder tube	Rolled steel for general structure or carbon steel pipe for machine structural use	1
2	Piston	Rolled steel for general structure	1
3	Piston rod	Carbon steel for machine structural use	1
4	Set screw	Chromium-molybdenum steel	1
5	Cushion ring	Carbon steel pipe for machine structural use	1
7	Wear ring	Fluororesin with filler	1
10	Stop ring	Piano wire	1
11	Cap cover	Rolled steel for general structure	1
12	Rod cover	Rolled steel for general structure	1
14	Bush	Grey cast iron part	1
15	Bush set screw	Chromium-molybdenum steel	4
21	Cushion valve	Chromium-molybdenum steel	2
22	Cushion plug	Carbon steel for machine structural use	2
26	Tie rod	Carbon steel for machine structural use	8
27	Tie rod nut	Carbon steel for machine structural use	16

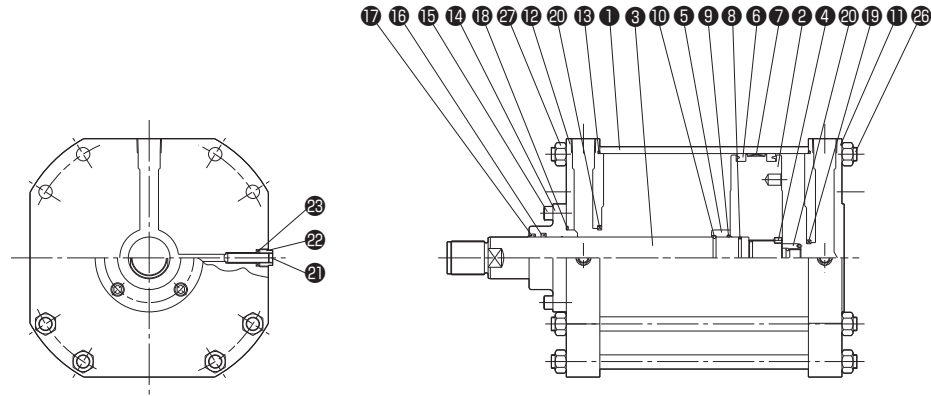
Seal List

No.	Part name	Material	Qty.	Part number			
				φ280	φ320	φ360	φ400
6	Piston seal	Nitrile rubber	2	DUP-260	DUP-300	DUP-340	DUP-380
8	O-ring for piston rod	Nitrile rubber	1	G-50	G-50	G-65	G-65
9	O-ring for cushion ring	Nitrile rubber	1	G-55	G-55	G-70	G-70
13	O-ring for cover	Nitrile rubber	2	281.4×287.6×3.1	321.4×327.6×3.1	361.4×367.6×3.1	401.4×407.6×3.1
16	Rod seal	Nitrile rubber	1	DUP-56	DUP-56	DUP-71	DUP-71
17	Dust wiper	Nitrile rubber	1	SDR-56	SDR-56	SDR-71	SDR-71
18	O-ring for bush	Nitrile rubber	1	G-80	G-80	G-90	G-90
19	Cushion seal on cap side	Nitrile rubber	1	PCS-38	PCS-38	PCS-45	PCS-45
20	Cushion seal on rod side	Nitrile rubber	1	PCS-75	PCS-75	PCS-85	PCS-85
23	Cushion valve seal	Fluororesin	2	TF-22	TF-22	TF-22	TF-22
Seal set	Standard type single rod cylinder	—	1 set	CL3/PKS1 -280	CL3/PKS1 -320	CL3/PKS1 -360	CL3/PKS1 -400

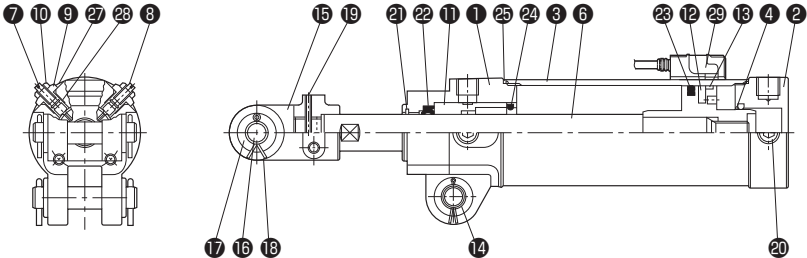
- Notes) ●The above table shows the quantities when cushions are provided at both ends.
 ●The O-rings conform to JIS B2401-1A. However, the O-rings for cover 13 conform to TAIYO standards and have a hardness of HS70.
 ●The seal nominal types are subject to change.

Double acting single rod

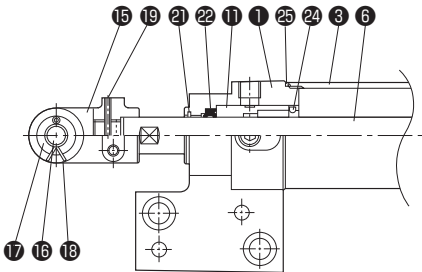
- Bore φ280 to φ400



●Cap clevis



●Flange type



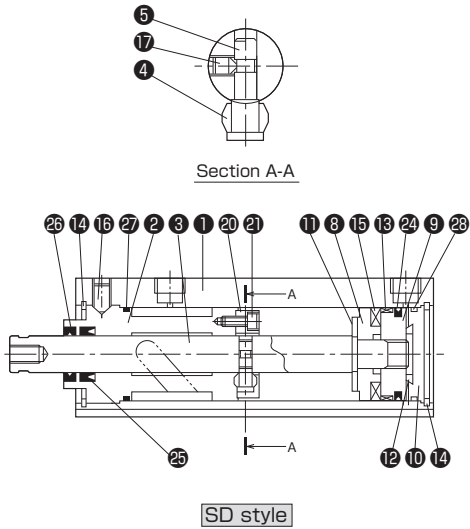
●The above drawings show the sectional views of cylinders with rod clevis.

Parts List

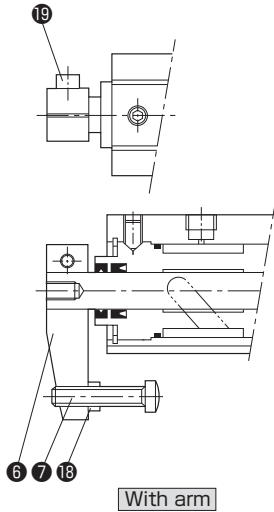
No.	Name	Material	Qty.
1	Rod cover	Aluminum die-cast	1
2	Cap cover	Aluminum alloy	1
3	Tube	Aluminum alloy	1
4	Piston	Aluminum alloy	1
6	Piston rod	Carbon steel for machine structural use	1
7	Throttle valve needle	Carbon steel for machine structural use	2
8	Cushion needle	Carbon steel for machine structural use	2
9	Needle housing	Carbon steel for machine structural use	4
10	Needle lock nut	Carbon steel for machine structural use	4
11	Rod bush	Aluminum alloy	1
12	Magnet	—	—
13	Wear ring	Synthetic resin	1
14	Clevis bush	Oil-impregnated sintered bearing	2
15	Rod end attachment	Spheroidal graphite cast iron	1
16	Hinge pin	Carbon steel for machine structural use	2(1)
17	Washer	Cold rolled steel plate	4(2)
18	Split pin	Low-carbon steel wire rod	4(2)
19	Spring pin	Carbon steel	1
20	Socket head cap screw plug	Carbon steel for machine structural use	4
21	Metallic scraper	Phosphor bronze	1
22	Rod seal	Nitrile rubber	1
23	Piston seal	Nitrile rubber	1
24	Cushion seal	Nitrile rubber	2
25	O-ring	Nitrile rubber	2
27	O-ring	Nitrile rubber	4
28	O-ring	Nitrile rubber	2
29	Sensor	—	—

●The quantities in parentheses apply to flange type cylinders.

Rotary Clamp Cylinder



- This drawing shows a cylinder with a straight stroke of 20 mm.
- Cylinders with a straight stroke of 10 mm do not have the spacer 20 and the hex. socket head cap screw 21.



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Bush	Spheroidal graphite cast iron	1
3	Piston rod	Carbon steel for machine structural use	1
4	Roller	Carbon steel for machine structural use	1
5	Roller pin	Carbon steel for machine structural use	1
6	Arm	Rolled steel for general structure	1
7	Adjusting bolt	Rolled steel for general structure	1
8	Spacer for magnet	Copper alloy	1
9	Piston	Aluminum alloy	1
10	Bottom plate	Aluminum alloy	1
11	Cushion pad on rod side	Urethane rubber	1
12	Cushion pad on cap side	Urethane rubber	1
13	Wear ring	Synthetic resin	1
14	Internal C-type set ring	—	2
15	Magnet	—	1
16	Hex. socket set screw	—	1
17	Hex. socket set screw	—	1
18	Hex. nut	—	1
19	Hex. socket head cap screw	—	1 (2)
20	Spacer	Spheroidal graphite cast iron	1
21	Hex. socket head cap screw	—	3

● The quantity in parentheses applies to $\phi 50$ and $\phi 63$.

Seal List

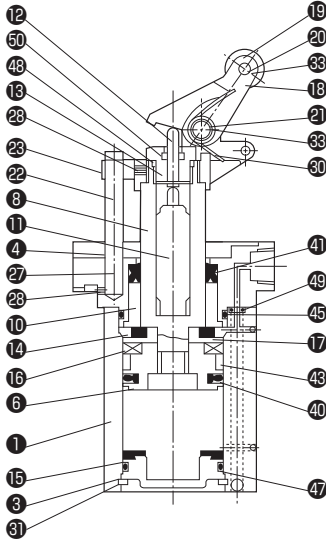
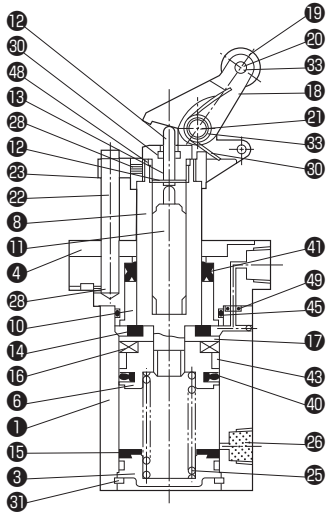
No.	Part name	Material	Qty.	Part number		
				$\phi 40$	$\phi 50$	$\phi 63$
24	Piston seal	Nitrile rubber	1	PWP-40N	PWP-50N	PWP-63N
25	Rod seal	Nitrile rubber	1	PNU-16A	PNU-20	PNU-20
26	Dust wiper	Nitrile rubber with metallic ring	1	K2-16	K2-20	K2-20
27	O-ring for bush	Nitrile rubber	1	S-36	S-46	S-60
28	O-ring for bottom plate	Nitrile rubber	1	S-36	S-46	S-60
Seal set	Double acting side port cylinder	—	1 set	Please contact us.		

Note) The seal nominal types are subject to change.

Pallet Stopper/Lever type/Bore $\phi 32$ /Single acting and double acting

●Single acting type
STS3-32-20S

●Double acting type
STD3-32-20S



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
3	Body bottom plate	Aluminum alloy	1
4	Rod cover	Aluminum alloy	1
6	Piston	Aluminum alloy	1
8	Piston rod	Carbon steel for machine structural use (plated with hard chrome)	1
10	Bush	Aluminum alloy (with wear-resistant surface treatment)	1
11	Shock absorber	—	1
12	Eccentric rod	Carbon steel for machine structural use (plated with hard chrome)	1
13	Eccentric bush	Carbon steel for machine structural use	1
14	Cushion pad	Urethane rubber	1
15	Cushion pad	Urethane rubber	1
16	Magnet	—	1
17	Spacer	Aluminum alloy	1
18	Roller lever	Carbon steel	1
19	Roller	Resin	2
20	Roller pin	Carbon steel for machine structural use (plated with hard chrome)	1
21	Lever pin	Carbon steel for machine structural use (plated with hard chrome)	1
22	Guide bar	Carbon steel for machine structural use (plated with hard chrome)	1
23	Lever bracket	Chromium-molybdenum steel	1
25	Spring	Piano wire	1
26	Filter plug	—	1
27	Hex. socket head cap screw	—	4
28	Hex. socket set screw	—	2
30	Torsion spring	Piano wire	1
31	Set ring	—	1
33	Set ring	—	4

Seal List

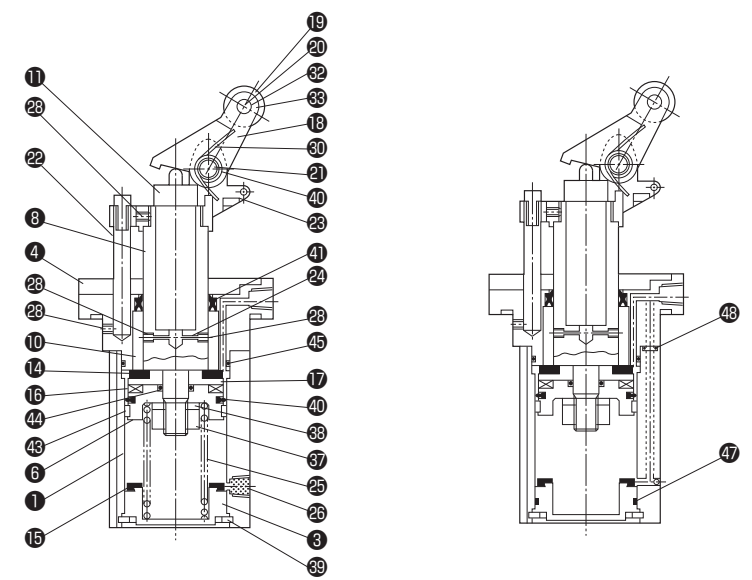
No.	Part name	Material	Qty.	Part number
				$\phi 32$
40	Piston seal	Nitrile rubber	1	ZT32
41	Rod seal	Nitrile rubber	1	DRP20
43	Wear ring	Synthetic resin	1	for $\phi 32$
45	O-ring for rod cover	Nitrile rubber	1	S32
47	O-ring for body bottom plate	Nitrile rubber	1	S29
48	O-ring	Nitrile rubber	1	S10
49	O-ring	Nitrile rubber	1 (2)	S5
50	Scraper	Nitrile rubber	1	SER-4
Seal set	Double acting cylinder Single acting cylinder	—	1 set	Please contact us.

Notes) ●The seal nominal types are subject to change.
●The quantity in parentheses applies to double acting cylinders.

Pallet Stopper/Lever type/Bore $\phi 50$ /Single acting and double acting

● Single acting type
STS3-50-30S

● Double acting type
STD3-50-30S



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
3	Body bottom plate	Aluminum alloy	1
4	Rod cover	Aluminum alloy	1
6	Piston	Aluminum alloy	1
8	Piston rod	Carbon steel for machine structural use	1
10	Bush	Aluminum alloy	1
11	Shock absorber	—	1
14	Cushion pad	Urethane rubber	1
15	Cushion pad	Urethane rubber	1
16	Magnet	—	1
17	Spacer	Aluminum alloy	1
18	Roller lever	Carbon steel	1
19	Roller	Resin	2
20	Roller pin	Carbon steel for machine structural use	1
21	Lever pin	Carbon steel for machine structural use	1
22	Guide bar	Carbon steel for machine structural use	1
23	Lever bracket	Chromium-molybdenum steel	1
24	Parallel pin	—	1
25	Spring	Piano wire	1
26	Filter plug	—	1
28	Hex. socket set screw	—	4
29	Hex. socket set screw	—	1
30	Torsion spring	Piano wire	1
32	Washer	Nylon	2
33	Set ring	—	2
37	Hex. nut	—	1
38	Plain washer	—	1
39	Set ring	—	1
40	Set ring	—	2
44	O-ring for piston rod	Nitrile rubber	1

Seal List

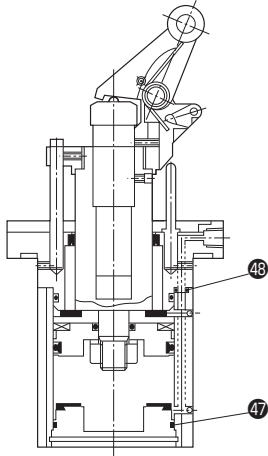
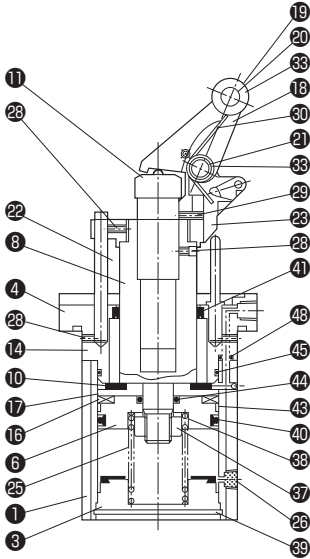
No.	Part name	Material	Qty.	Part number
				$\phi 50$
40	Piston seal	Nitrile rubber	1	ZT50
41	Rod seal	Nitrile rubber	1	PRD32
43	Wear ring	Synthetic resin	1	for $\phi 50$
45	O-ring for rod cover	Nitrile rubber	1	S50
47	O-ring for body bottom plate	Nitrile rubber	1	S46
48	O-ring	Nitrile rubber	1	S5
Seal set	Double acting cylinder Single acting cylinder	—	1 set	Please contact us.

Note) The seal nominal types are subject to change.

Pallet Stopper/Lever type/Bore $\phi 80$ /Single acting and double acting

●Single acting type
STS3-80-30S

●Double acting type
STD3-80-30S



Parts List

No.	Name	Material	Qty.
1	Cylinder body	Aluminum alloy	1
2	Body bottom plate	Aluminum alloy	1
4	Rod cover	Aluminum alloy	1
6	Piston	Aluminum alloy	1
8	Piston rod	Carbon steel for machine structural use	1
10	Bush	Aluminum alloy	1
11	Shock absorber	—	1
14	Cushion pad	Urethane rubber	1
15	Cushion pad	Urethane rubber	1
16	Magnet	—	1
17	Spacer	Aluminum alloy	1
18	Roller lever	Carbon steel	1
19	Roller	Chromium molybdenum	2
20	Roller pin	Carbon steel for machine structural use	1
21	Lever pin	Carbon steel for machine structural use	1
22	Guide bar	Carbon steel for machine structural use	1
23	Lever bracket	Chromium-molybdenum steel	1
25	Spring	Piano wire	1
26	Filter plug	—	1
28	Hex. socket set screw	—	4
29	Hex. socket set screw	—	1
30	Torsion spring	Piano wire	1
33	Set ring	—	4
37	Hex. nut	—	1
38	Plain washer	—	1
39	Set ring	—	1
44	O-ring for piston rod	Nitrile rubber	1

Seal List

No.	Part name	Material	Qty.	Part number
				$\phi 80$
40	Piston seal	Nitrile rubber	1	PNU70 (PWP-80N)
41	Rod seal	Nitrile rubber	1	DRP50
43	Wear ring	Synthetic resin	1	for $\phi 80$
45	O-ring for rod cover	Nitrile rubber	1	S75
47	O-ring for body bottom plate	Nitrile rubber	1	S75
48	O-ring	Nitrile rubber	1 (2)	P5
Seal set	Double acting cylinder Single acting cylinder	—	1 set	Please contact us.

Notes) ●The seal nominal types are subject to change.
●The quantity in parentheses applies to double acting cylinders.