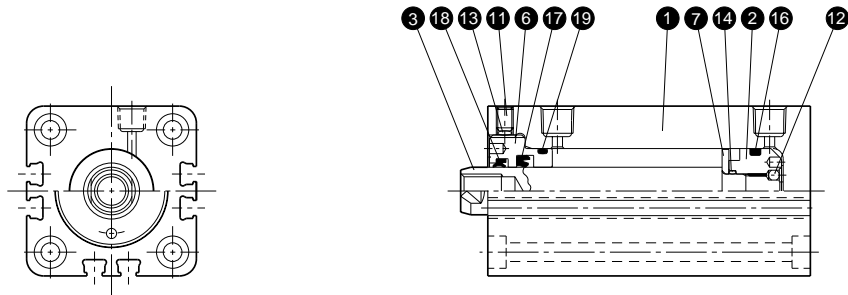




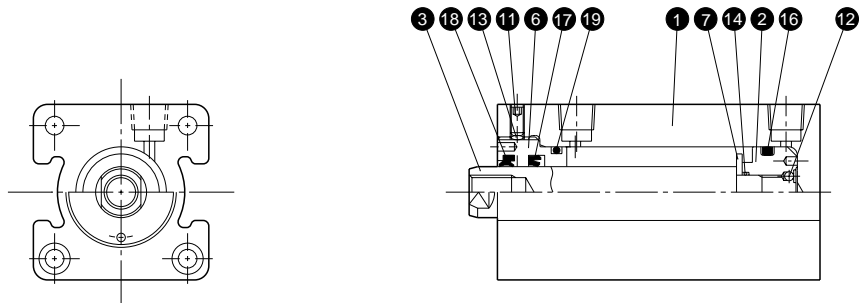
Sectional drawings / packing list

Double Acting Single-rod/Standard type/HQS2

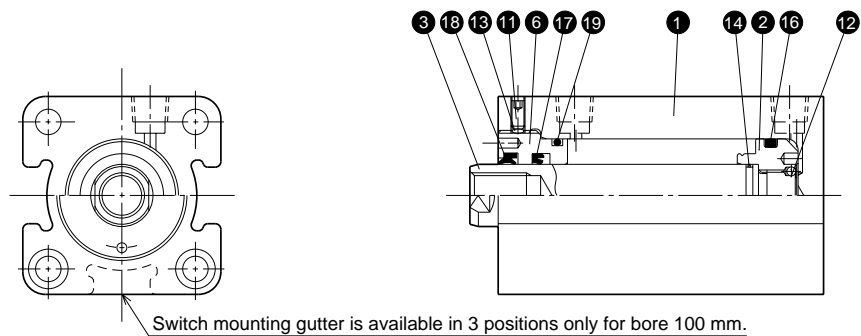
- Bore $\phi 20 \cdot \phi 25$



- Bore $\phi 32$

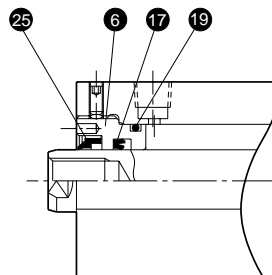


- Bore $\phi 40 - \phi 100$



Double Acting Single-rod/Cutting Fluid Proof type/HQSW2

- Bore $\phi 32 - \phi 100$



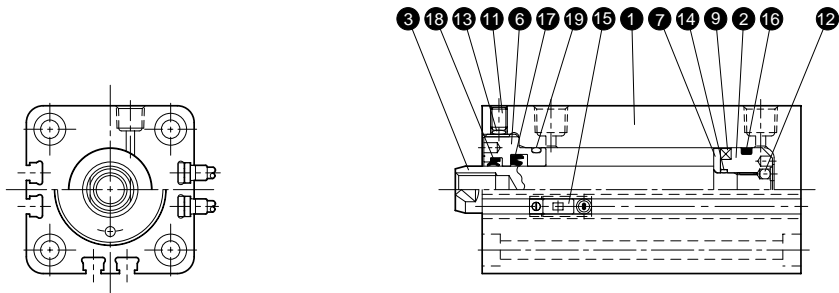
Parts list

No.	Name	Material	Q'ty
①	Body	Aluminum alloy	1
②	Piston	Special copper alloy	1
③	Piston rod	Stainless steel ($\phi 20 \cdot \phi 25$) Carbon steel for machine structural use ($\phi 32 - \phi 100$)	1
⑥	Rod gland	Special copper alloy	1
⑦	Magnet holder	Special copper alloy ($\phi 20 \cdot \phi 25$: For 5 stroke) Stainless steel ($\phi 20 - \phi 32$)	1
⑪	Set screw	Chrome molybdenum steel	1
⑫	Steel ball	Stainless steel	1
⑬	Copper piece	Copper	1
⑭	Piston rod O-ring	—	1

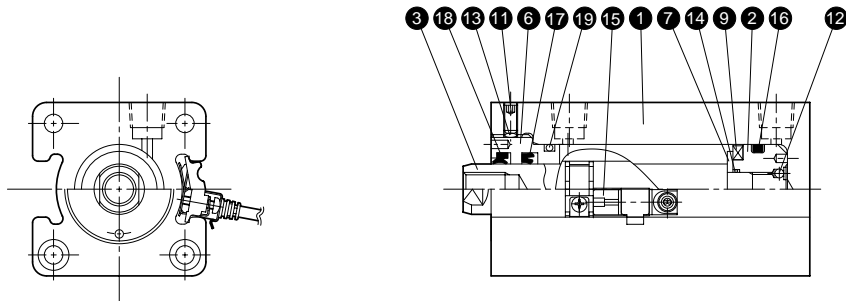
- The piston rod O-ring ⑭ cannot be replaced because the piston and rod are tightening.

Double Acting Single-rod/Switch set/HQS2R

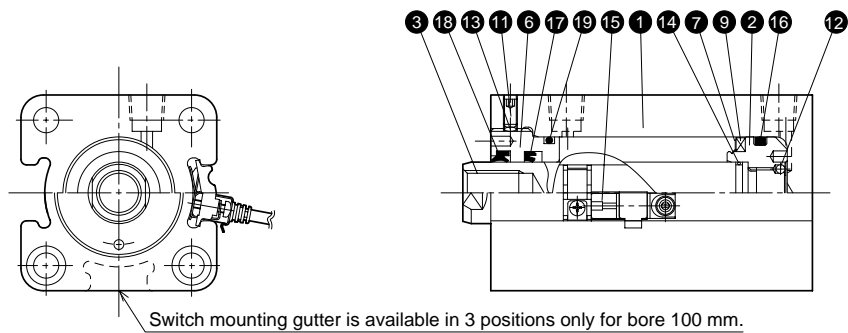
- Bore $\phi 20 \cdot \phi 25$



- Bore $\phi 32$



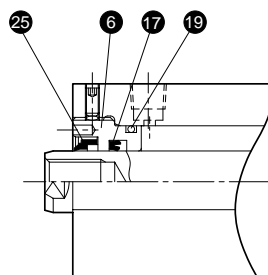
- Bore $\phi 40 - \phi 100$



Note) Type of bore 100 mm is equipped with yoke plate.

Double Acting Single-rod/Cutting Fluid Proof type/HQSW2R

- Bore $\phi 32 - \phi 100$



Parts list

No.	Name	Material	Q'ty
①	Body	Aluminum alloy	1
②	Piston	Special copper alloy	1
③	Piston rod	Stainless steel ($\phi 20 \cdot \phi 25$) Carbon steel for machine structural use ($\phi 32 - \phi 100$)	1
⑥	Rod gland	Special copper alloy	1
⑦	Magnet holder	Special copper alloy ($\phi 20 \cdot \phi 25$: For 5 stroke) Stainless steel ($\phi 20 - \phi 100$)	1
⑨	Magnet	—	—
⑪	Set screw	Chrome molybdenum steel	1
⑫	Steel ball	Stainless steel	1
⑬	Copper piece	Copper	1
⑭	Piston rod O-ring	—	1
⑮	Switch	—	—

- The piston rod O-ring ⑭ cannot be replaced because the piston and rod are tightening.

Packing list

6 Hydrogenated nitrile rubber/HQS2, HQS2R

No.	Parts name	Material	Q'ty	Parts code			
				$\phi 20$	$\phi 25$	$\phi 32$	$\phi 40$
16	Piston packing	Hydrogenated nitrile rubber	1	NCHY-20	NCHY-25	NCHY-32	NCHY-40
17	Rod packing	Hydrogenated nitrile rubber	1	UHY-12	UHY-14	UHR-18	UHR-22
18	Dust wiper	Hydrogenated nitrile rubber	1	LPH-12	LPH-14	DHS-18	DHS-22
19	Rod gland O-ring	Hydrogenated nitrile rubber	1	S-18	S-22.4	G-25	G-35
Packing set	Double acting single rod cylinder	—	1 set	RS1/PKS6-020	RS1/PKS6-025	QS1/PKS6-032	QS1/PKS6-040

No.	Parts name	Material	Q'ty	Parts code			
				$\phi 50$	$\phi 63$	$\phi 80$	$\phi 100$
16	Piston packing	Hydrogenated nitrile rubber	1	NCHY-50	NCHY-63	NCHY-80	NCHY-100
17	Rod packing	Hydrogenated nitrile rubber	1	UHR-28A	UHR-36	UHR-45	UHR-56
18	Dust wiper	Hydrogenated nitrile rubber	1	DHS-28	DHS-36	DHS-45	DHS-56
19	Rod gland O-ring	Hydrogenated nitrile rubber	1	G-45	G-58	G-75	G-95
Packing set	Double acting single rod cylinder	—	1 set	QS1/PKS6-050	QS1/PKS6-063	QS1/PKS6-080	QS1/PKS6-100

- A copper piece for protecting the threads of the rod gland is included in the packing set. Be careful not to lose it.

Packing list

3 Fluoric rubber/HQS2, HQS2R

No.	Parts name	Material	Q'ty	Parts code					
				φ32	φ40	φ50	φ63	φ80	φ100
16	Piston packing	Fluoric rubber	1	P-26	P-34	P-44	P-53	P-70	P-90
17	Rod packing	Fluoric rubber	1	UHR-18	UHR-22	UHR-28A	UHR-36	UHR-45	UHR-56
18	Dust wiper	Fluoric rubber	1	DHS-18	DHS-22	DHS-28	DHS-36	DHS-45	DHS-56
19	Rod gland O-ring	Fluoric rubber	1	G-25	G-35	G-45	G-58	G-75	G-95
Packing set	Double acting single rod cylinder	—	1 set	QS1/PKS3-032	QS1/PKS3-040	QS1/PKS3-050	QS1/PKS3-063	QS1/PKS3-080	QS1/PKS3-100

- The hardness of the O-ring (P-G) is Hs90.
- A copper piece for protecting the threads of the rod gland is included in the packing set. Be careful not to lose it.

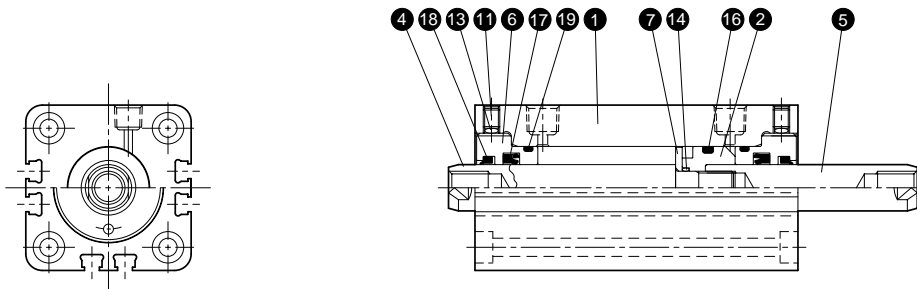
6 Cutting fluid proof type/HQSW2, HQSW2R

No.	Parts name	Material	Q'ty	Parts code					
				φ32	φ40	φ50	φ63	φ80	φ100
16	Piston packing	Hydrogenated nitrile rubber	1	NCHY-32	NCHY-40	NCHY-50	NCHY-63	NCHY-80	NCHY-100
17	Rod packing	Hydrogenated nitrile rubber	1	UHR-18	UHR-22	UHR-28A	UHR-36	UHR-45	UHR-56
25	Dust wiper 1	Canned hydrogenated nitrile rubber	1	(DYL-18SK)	(DYL-22SK)	(DYL-28SK)	(DYL-36SK)	(DYL-45SK)	(DYL-56)
19	Rod gland O-ring	Hydrogenated nitrile rubber	1	G-25	G-35	G-45	G-58	G-75	G-95
Packing set	Double acting single rod cylinder	—	1 set	QSW1/PKS6-032	QSW1/PKS6-040	QSW1/PKS6-050	QSW1/PKS6-063	QSW1/PKS6-080	QSW1/PKS6-100

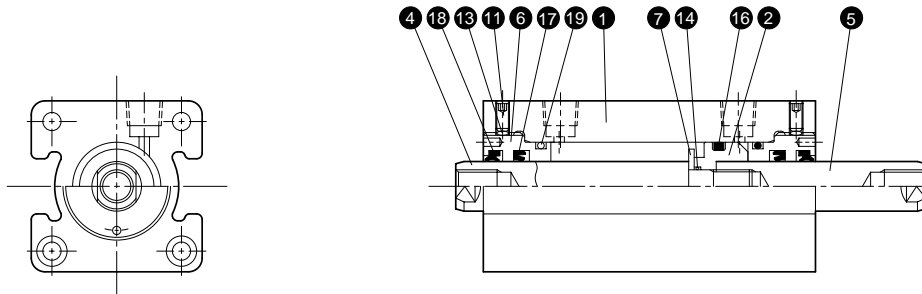
- You could replace it, but we recommend that you change the Rod grand ass'y including Dust-Wiper. Because the damage to the grand may lead to the leakage of oil. In this reason, Dust-Wiper isn't included in the seal kit. But you could buy only Dust-Wiper according to your separate order.
- The dust wipe 25 is pressed in the rod gland to be incorporated with it, and cannot be replaced singly. When replace together with the rod gland.
- A copper piece for protecting the threads of the rod gland is included in the packing set. Be careful not to lose it.

Double Acting Double-rod/Standard type/HQS2D

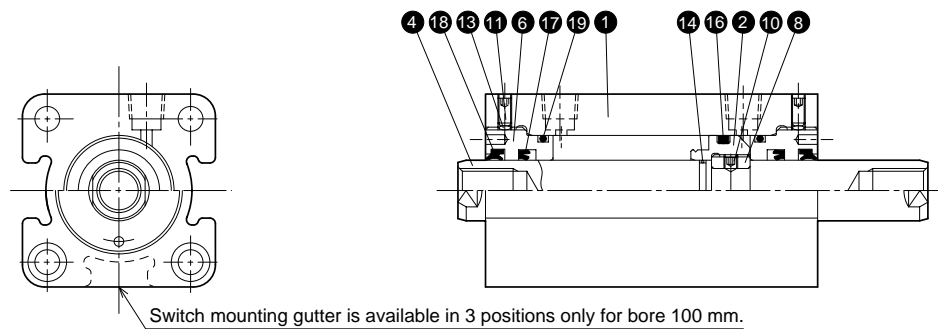
- Bore $\phi 20 \cdot \phi 25$



- Bore $\phi 32$

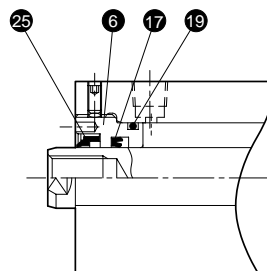


- Bore $\phi 40 - \phi 100$



Double Acting Double-rod/Cutting Fluid Proof type/HQSW2D

- Bore $\phi 32 - \phi 100$



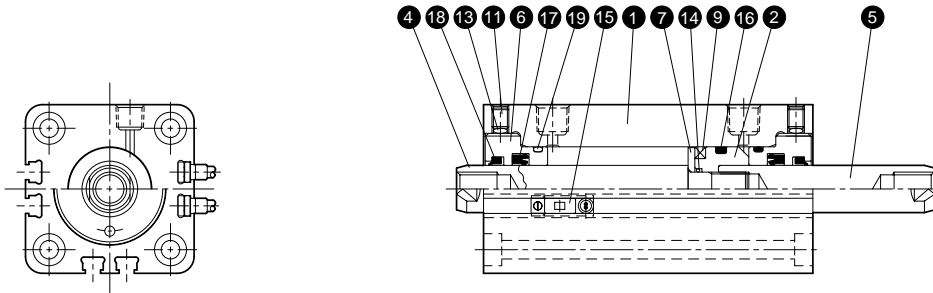
Parts list

No.	Name	Material	Q'ty
①	Body	Aluminum alloy	1
②	Piston	Special copper alloy	1
④	Piston rod A	Stainless steel ($\phi 20 \cdot \phi 25$) Carbon steel for machine structural use ($\phi 32 - \phi 100$)	1
⑤	Piston rod B	Stainless steel ($\phi 20 \cdot \phi 25$) Carbon steel for machine structural use ($\phi 32$)	1
⑥	Rod gland	Special copper alloy	2
⑦	Magnet holder	Special copper alloy ($\phi 20 \cdot \phi 25$: For 5 stroke) Stainless steel ($\phi 20 - \phi 32$)	1
⑧	Split fitting	Special copper alloy ($\phi 40 - \phi 100$)	1
⑩	Set screw	Chrome molybdenum steel ($\phi 40 - \phi 100$)	1
⑪	Set screw	Chrome molybdenum steel	2
⑬	Copper piece	Copper	2
⑭	Piston rod O-ring	—	1

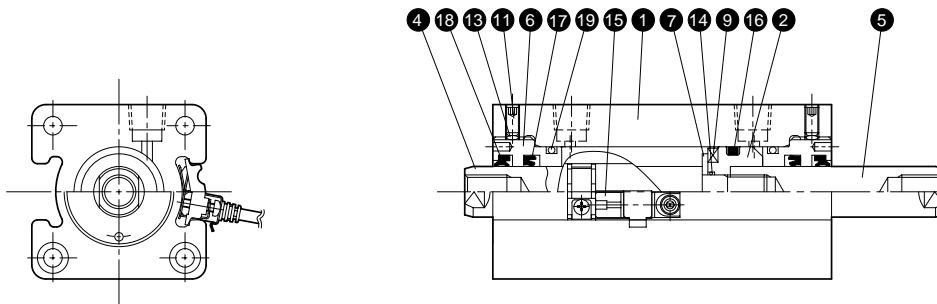
- The piston rod O-ring ⑭ cannot be replaced because the piston and rod are tightening.

Double Acting Double-rod/Switch set/HQS2RD

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



- Bore $\phi 32$



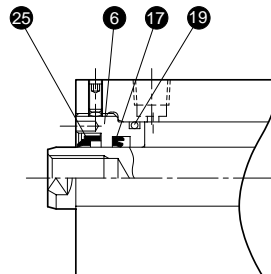
Note) Rod structure for $\phi 40 - \phi 100$ is with one piece.

Switch mounting gutter is available in 3 positions for bore 100 mm.

Type of bore 100 mm is equipped with yoke plate.

Double Acting Double-rod/Cutting Fluid Proof type/HQSW2RD

- Bore $\phi 32 - \phi 100$



Parts list

No.	Name	Material	Q'ty
①	Body	Aluminum alloy	1
②	Piston	Special copper alloy	1
④	Piston rod A	Stainless steel ($\phi 20 \cdot \phi 25$) Carbon steel for machine structural use ($\phi 32 - \phi 100$)	1
⑤	Piston rod B	Stainless steel ($\phi 20 \cdot \phi 25$) Carbon steel for machine structural use ($\phi 32$)	1
⑥	Rod gland	Special copper alloy	2
⑦	Magnet holder	Special copper alloy ($\phi 20 \cdot \phi 25$: For 5mm stroke) Stainless steel ($\phi 20 - \phi 100$)	1
⑧	Split fitting	Special copper alloy ($\phi 40 - \phi 100$)	1
⑨	Magnet	—	—
⑩	Set screw	Chrome molybdenum steel ($\phi 40 - \phi 100$)	1
⑪	Set screw	Chrome molybdenum steel	2
⑬	Copper piece	Copper	2
⑭	Piston rod O-ring	—	1
⑮	Switch	—	—

- The piston rod O-ring ⑭ cannot be replaced because the piston and rod are tightening.

Packing list

6 Hydrogenated nitrile rubber/HQS2D, HQS2RD

No.	Parts name	Material	Q'ty	Parts code			
				φ20	φ25	φ32	φ40
16	Piston packing	Hydrogenated nitrile rubber	1	NCHY-20	NCHY-25	NCHY-32	NCHY-40
17	Rod packing	Hydrogenated nitrile rubber	2	UHY-12	UHY-14	UHR-18	UHR-22
18	Dust wiper	Hydrogenated nitrile rubber	2	LPH-12	LPH-14	DHS-18	DHS-22
19	Rod gland O-ring	Hydrogenated nitrile rubber	2	S-18	S-22.4	G-25	G-35
Packing set	Double acting double rod cylinder	—	1 set	RS1D/PKS6-020	RS1D/PKS6-025	QS1D/PKS6-032	QS1D/PKS6-040

No.	Parts name	Material	Q'ty	Parts code			
				φ50	φ63	φ80	φ100
16	Piston packing	Hydrogenated nitrile rubber	1	NCHY-50	NCHY-63	NCHY-80	NCHY-100
17	Rod packing	Hydrogenated nitrile rubber	2	UHR-28A	UHR-36	UHR-45	UHR-56
18	Dust wiper	Hydrogenated nitrile rubber	2	DHS-28	DHS-36	DHS-45	DHS-56
19	Rod gland O-ring	Hydrogenated nitrile rubber	2	G-45	G-58	G-75	G-95
Packing set	Double acting double rod cylinder	—	1 set	QS1D/PKS6-050	QS1D/PKS6-063	QS1D/PKS6-080	QS1D/PKS6-100

- A copper piece for protecting the threads of the rod gland is included in the packing set. Be careful not to lose it.

Packing list

3 Fluoric rubber/HQS2D, HQS2RD

No.	Parts name	Material	Q'ty	Parts code					
				φ32	φ40	φ50	φ63	φ80	φ100
16	Piston packing	Fluoric rubber	1	P-26	P-34	P-44	P-53	P-70	P-90
17	Rod packing	Fluoric rubber	2	UHR-18	UHR-22	UHR-28A	UHR-36	UHR-45	UHR-56
18	Dust wiper	Fluoric rubber	2	DHS-18	DHS-22	DHS-28	DHS-36	DHS-45	DHS-56
19	Rod gland O-ring	Fluoric rubber	2	G-25	G-35	G-45	G-58	G-75	G-95
Packing set	Double acting double rod cylinder	—	1 set	QS1D/PKS3-032	QS1D/PKS3-040	QS1D/PKS3-050	QS1D/PKS3-063	QS1D/PKS3-080	QS1D/PKS3-100

- The hardness of the O-ring (P-G) is Hs90.
- A copper piece for protecting the threads of the rod gland is included in the packing set. Be careful not to lose it.

6 Cutting fluid proof type/HQSW2D, HQSW2RD

No.	Parts name	Material	Q'ty	Parts code					
				φ32	φ40	φ50	φ63	φ80	φ100
16	Piston packing	Hydrogenated nitrile rubber	1	NCHY-32	NCHY-40	NCHY-50	NCHY-63	NCHY-80	NCHY-100
17	Rod packing	Hydrogenated nitrile rubber	2	UHR-18	UHR-22	UHR-28A	UHR-36	UHR-45	UHR-45
18	Dust wiper 1	Canned hydrogenated nitrile rubber	2	(DYL-18SK)	(DYL-22SK)	(DYL-28SK)	(DYL-36SK)	(DYL-45SK)	(DYL-56SK)
19	Rod gland O-ring	Hydrogenated nitrile rubber	2	G-25	G-35	G-45	G-58	G-75	G-95
Packing set	Double acting double rod cylinder	—	1 set	QSW1D/PKS6-032	QSW1D/PKS6-040	QSW1D/PKS6-050	QSW1D/PKS6-063	QSW1D/PKS6-080	QSW1D/PKS6-100

- You could replace it, but we recommend that you change the Rod gland ass'y including Dust-Wiper. Because the damage to the gland may lead to the leakage of oil. In this reason, Dust-Wiper isn't included in the seal kit. But you could buy only Dust-Wiper according to your separate order.
- The dust wipe 25 is pressed in the rod gland to be incorporated with it, and cannot be replaced singly. When replace together with the rod gland.
- A copper piece for protecting the threads of the rod gland is included in the packing set. Be careful not to lose it.