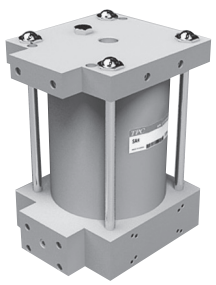
Series SAH

Air Hydro Converter

Bore Size(mm) : Ø63, Ø100, Ø160



How to Order

SAH 100 – 100
1 2 3

1 Air Hydro Converter
2 Bore Size
3 Effective Oil Level Stroke(㎜)

Caution

1) Install the converter vertically.
2) It is preferred to check that available effective capability must be 1.25 times greater than capability of the actuator.
3) It is preferred to check that oil level speed will be 20mm/s or less with calculating operating velocity.
4) It is preferred to check that compressed air must not be intermixed with the operating oil.
5) It is preferred to check that the bore of the pipes must be large without loss of the pressure.
6) It is preferred to check that the converter must be located higher than the cylinder in order to fill it with oil.
7) It is preferred to make sure that there are no extreme differences in the bore size of the pipes used for preventing air bubbles from forming.
8) It is preferred to prevent sludge from inter mixing with oil, liquid steel is recommended over tape.
9) It is preferred to check that all pipes should be checked for leakage prior to operation.
10) It is preferred to check that use of operating oil is recommended.
11) It is preferred to check that prior to operation please release compressed air and check fluid(oil) levels.

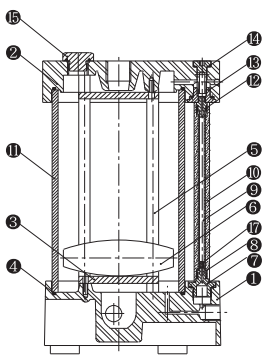
Bore Size (mm)	Effective oil level Stroke											Limited Flow
	50	100	150	200	250	300	400	500	600	700	800	(l/min)
ø 63	150	300	450	600	740	890	1190	1480	1780	-	-	36
ø 100	370	750	1120	1510	1870	2260	3010	3770	4520	-	-	88
ø 160	-	1830	-	3660	-	5490	7320	9150	10980	12810	14640	217

Specifications

Bore Size(mm)		63	100	160
Operating Pressure(MPa)		0 ~ 0.7MPa(0~99psi)		
Max. Operating Pressure		1.0MPa(142psi)		
Ambient and Fluid Temperature(℃)		5 ~ 50		
Fluid		Turbine Oil (40 ~ 100 cSt) ISO VG 32		
Thread (Rc) PT	AIR	3/8	1/2	3/4
	OIL	3/4		

※ Limited Flow : It shows the limit of converter oil level speed(0.2m/s) which can maintain stability of converter oil level.

Construction



No	Description	Port	Note
1	BODY (1)		
2	BODY (2)		
3	COVER		
4	O-RING	G port	
5	LOCK BOLT		
6	FLOATER		
7	FITTING		
8	CAP		
9	Oil gauge HOSE		
10	TUBE		acrylic
11	TUBE		
12	FITTING		
13	FLARE NUT		
14	Oil gauge BOLT		
15	CAP NUT		
16	OIL CAP		
17	Oil level gauge		

Bore Size : Ø63, Ø100, Ø160

(Unit:mm)

Symbol

Figure 1) Symbol

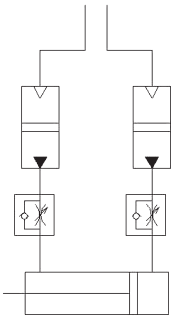


Figure 2) Application example

- Available Fluid

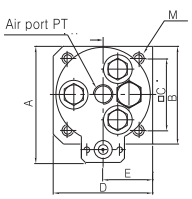
  Use petroleum based turbine hydraulic oil or turbine oil ISO VG32.

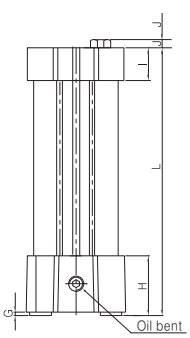
Model \ Size	Air Port	Oil Port	A	B	C	4-ØM	D	E	G	H	I
Ø 63	PT3/8	PT3/4	105	87	64	8.5	88	45	3	53	30
Ø 100	PT1/2	PT3/4	152	127	95.5	13	136	72	7	63	36

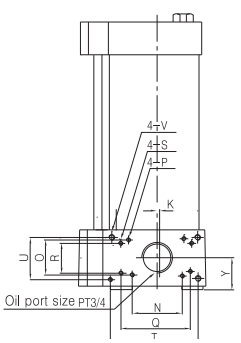
Model \ port	J	K	N	O	4-P	Q	R	4-S	T	U	4-V	Y
Ø 63	7	2	72	36	M5×0.8	-	-	-	-	-	-	28
Ø 100	7	8	72	36	M5×0.8	85	32.5	M5×0.8	100	40	M6×1.0	35

L \ ST	50	100	150	200	250	300	400	500	600	700	800
Ø 63	245	295	345	395	445	495	595	695	795	-	-
Ø 100	255	305	355	405	455	505	605	705	805	-	-
Ø 160	-	272	-	412	-	552	662	802	922	1042	1152

SAH-63, 100







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