

KONAN®

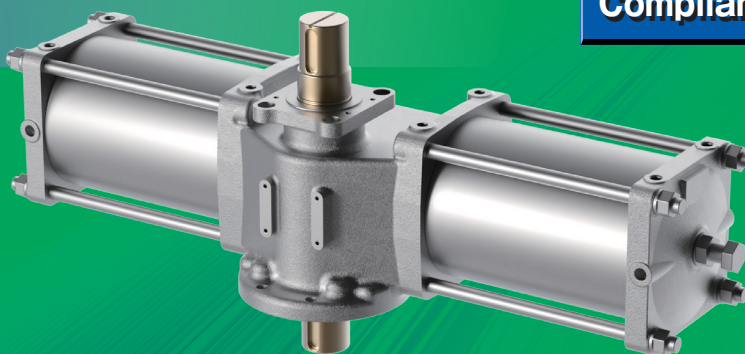
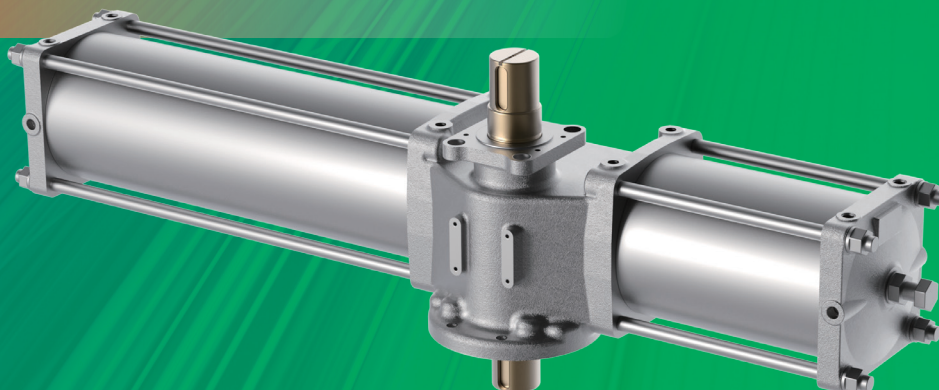
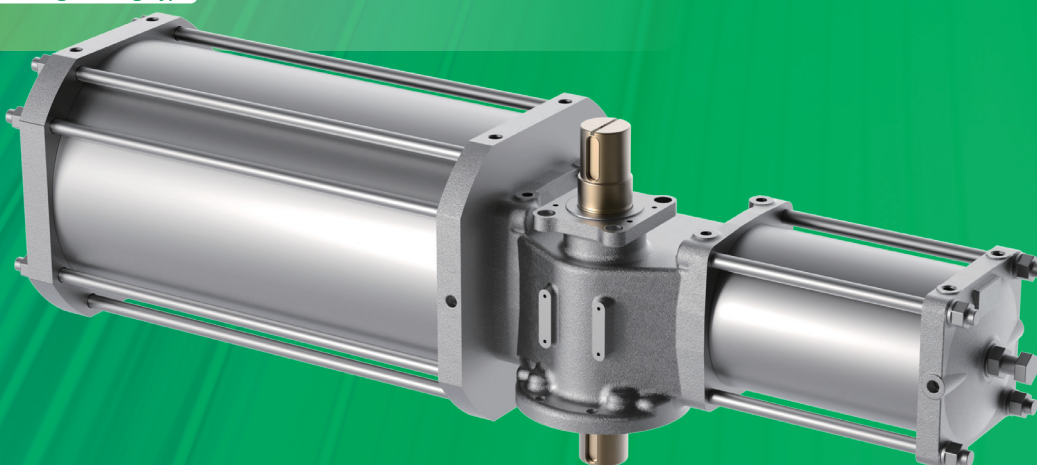
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TW4

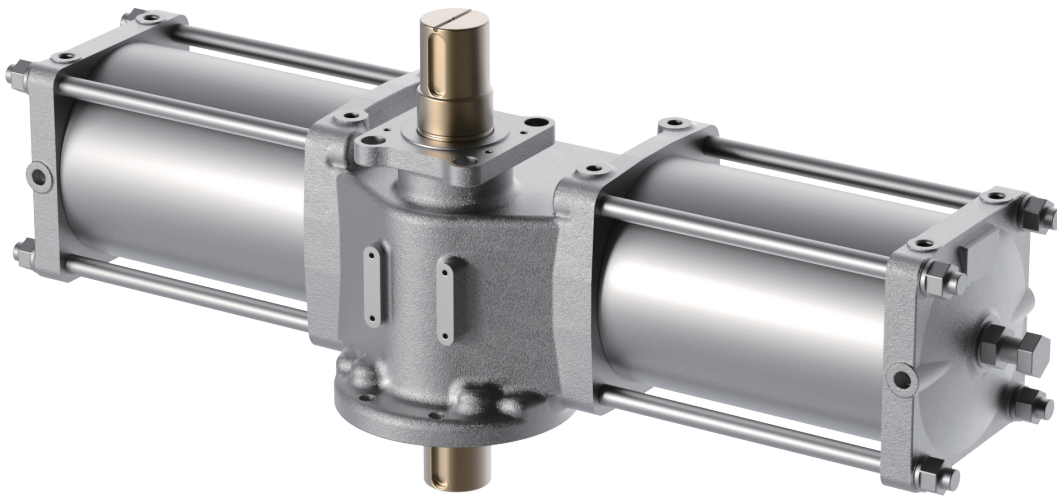
For operation of large-diameter valve

Rotary actuator

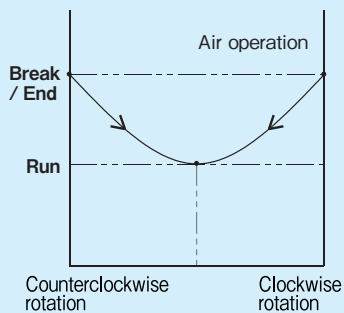
D**Double-Acting Type**
Type**RoHS2**
Compliant products**S****Single-Acting Type**
Type**R****Thrust increased Single-Acting Type**
Type**KONAN ELECTRIC CO.,LTD.**

TW4 Rotary actuator

Bore size $\phi 170$ 、 $\phi 200$ 、 $\phi 280$



■ Torque Characteristic



Output torque

Unit : N · m

Model Code	Operating pressure									
	0.3 MPa		0.4 MPa		0.5 MPa		0.6 MPa		0.7 MPa	
	Break/end	Run	Break/end	Run	Break/end	Run	Break/end	Run	Break/end	Run
TW4-170D-00	1230	715	1685	980	2141	1245	2596	1510	3052	1774
TW4-200D-00	2770	1611	3796	2207	4822	2804	5848	3400	6874	3997
TW4-280D-00	6648	3865	9111	5297	11573	6729	14036	8160	16498	9592

Specification

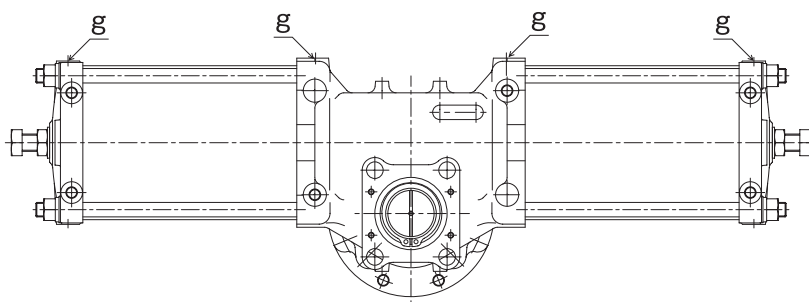
Model Code	TW4-170D-00	TW4-200D-00	TW4-280D-00
Bore size	φ 170	φ 200	φ 280
Operating fluid	Compressed air		
Operating pressure	0.3 ~ 0.7MPa		
Proof pressure	1.05MPa		
Ambient temperature	- 5 ~ 60°C (In case of 5°C or less, provide adequate measures against freezing.)		
Rotating angle	90°		
Angle adjustment range	± 5° both ends		
Mass	82kg	147kg	363kg
Actuator displacement	6.5L	14L	35L
Air consumption	$2 \times A \times \left(\frac{P + 0.1013}{0.1013} \right) \times n$		

A : Actuator displacement [L]

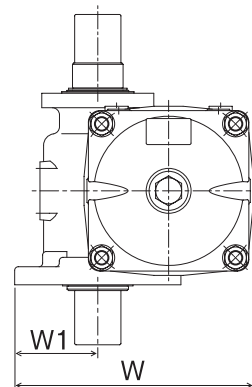
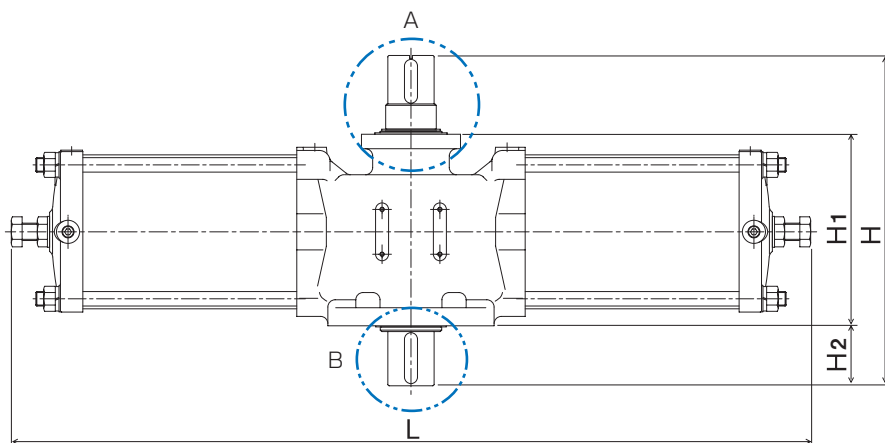
P : Operating Pressure [MPa]

n : Number of cycle (1 cycle = 1 reciprocation]

External Dimensions

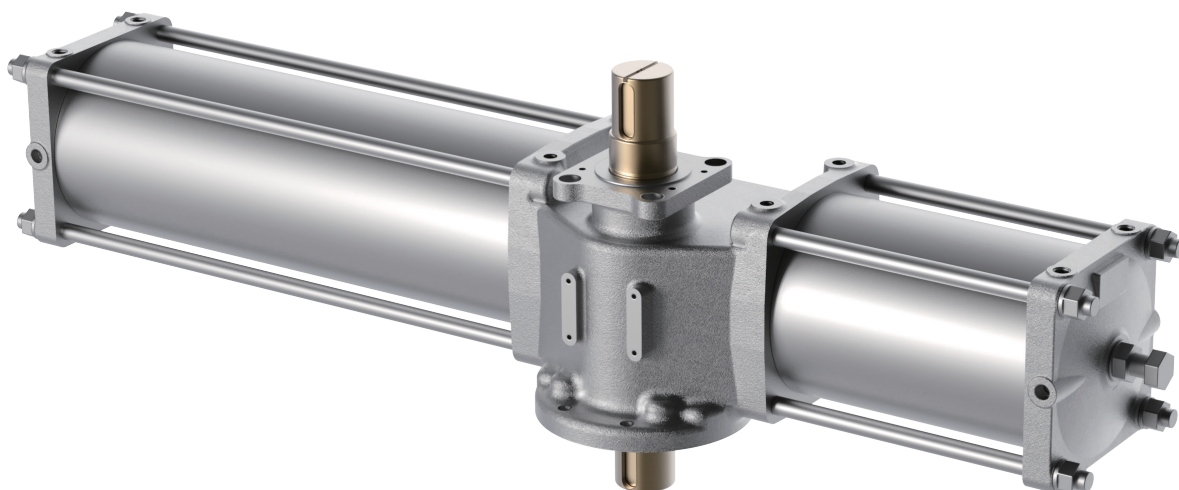


Model	TW4-170D	TW4-200D	TW4-280D
Size (Unit : mm)	L	780	1106
	H	381	457
	H1	215	265
	H2	67	83
	W	256	330
	W1	98	115
	g	Rc3/8	Rc1/2



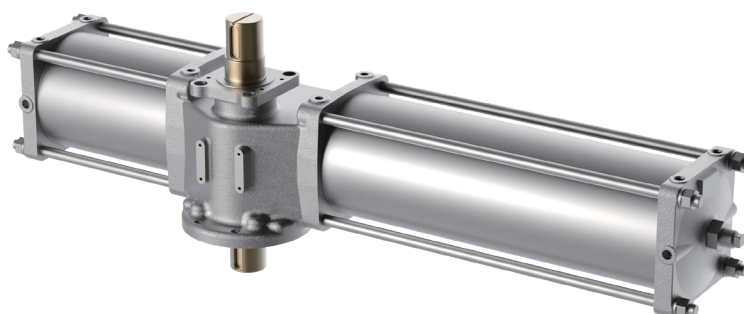
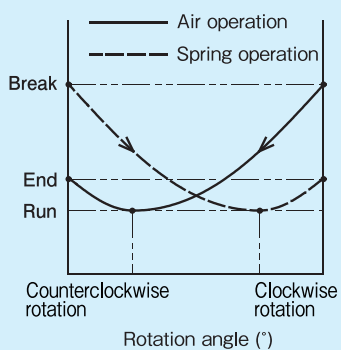
See page9 for A and B.

TW4 Rotary actuator

Bore size $\phi 170$, $\phi 200$, $\phi 280$ 

[Type S : Clockwise rotation by spring]

■ Torque Characteristic



*A model with right and left backward operation can be manufactured.

[Type A : Counter clockwise rotation by spring]

Output torque

Unit : N · m

Model Code	Operating pressure														
	0.4 MPa			0.5 MPa			0.6 MPa			0.7 MPa			Spring operation		
	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
TW4-170S (A) -00	1095	483	638	1551	749	1093	2006	1016	1549	2462	1281	2004	1093	482	636
TW4-200S (A) -00	2587	1073	1330	3613	1680	2356	4639	2280	3382	5665	2880	4408	2569	1063	1312
TW4-280S (A) -00	5965	2612	3426	8427	4054	5889	10890	5494	8351	13352	6928	10813	5931	2592	3392

Specification

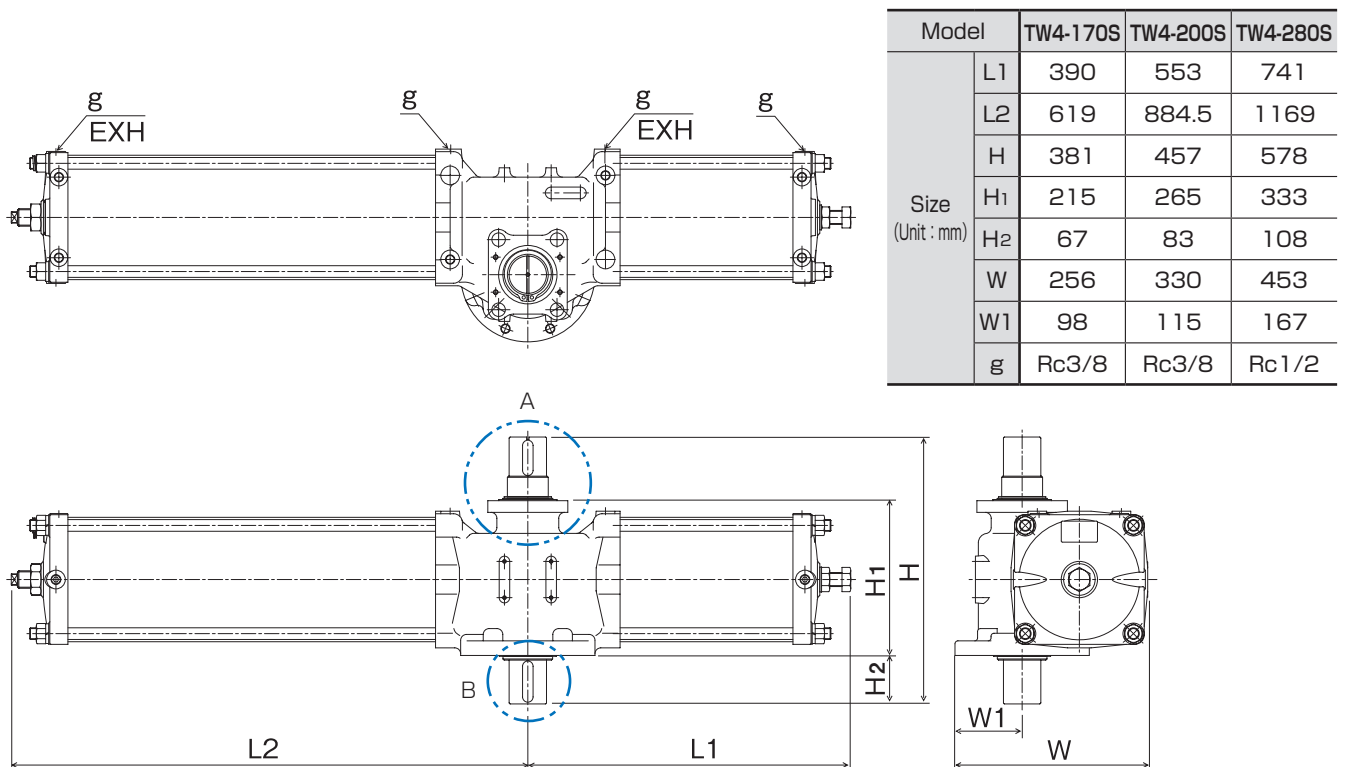
Model Code	TW4-170S (A) -00	TW4-200S (A) -00	TW4-280S (A) -00
Bore size	φ 170	φ 200	φ 280
Operating fluid	Compressed air		
Operating pressure	0.4 ~ 0.7MPa		
Proof pressure	1.05MPa		
Ambient temperature	- 5 ~ 60°C (In case of 5°C or less, provide adequate measures against freezing.)		
Rotating angle	90°		
Angle adjustment range	± 5° both ends		
Mass	107kg	193kg	478kg
Actuator displacement	6.5L	14L	35L
Air consumption	$2 \times A \times \left(\frac{P + 0.1013}{0.1013} \right) \times n$		

A : Actuator displacement [L]

P : Operating Pressure [MPa]

n : Number of cycle (1 cycle = 1 reciprocation]

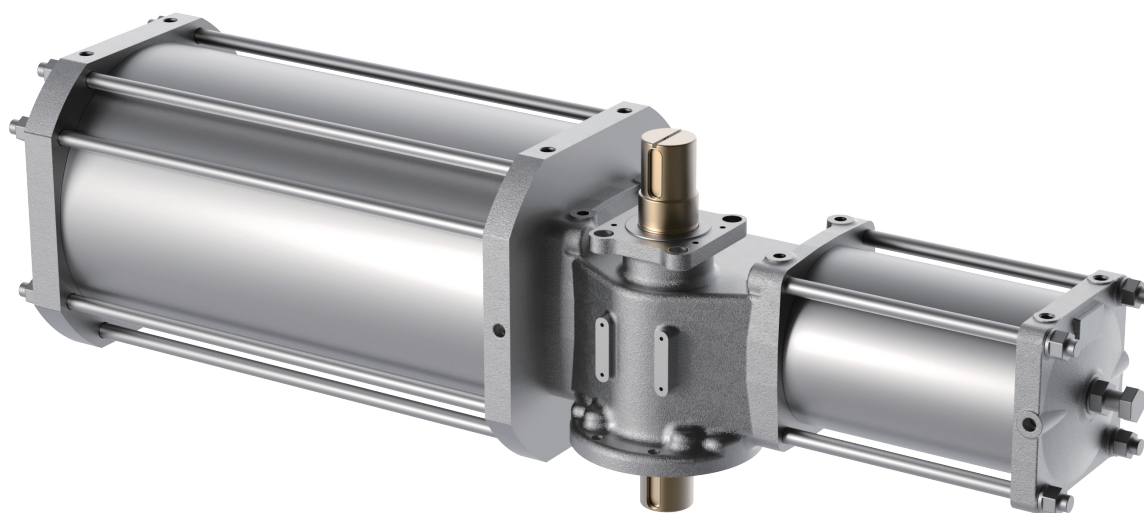
External Dimensions



See page9 for A and B.

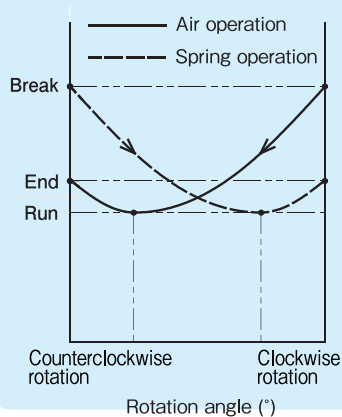
TW4 Rotary actuator

Bore size $\phi 170$ 、 $\phi 200$ 、 $\phi 280$



[Type R : Clockwise rotation by spring]

■ Torque Characteristic



*A model with right and left backward operation can be manufactured.

[Type L : Counter clockwise rotation by spring]

Output torque

Unit : N · m

Model Code	Operating pressure														
	0.4 MPa			0.5 MPa			0.6 MPa			0.7 MPa			Spring operation		
	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
TW4-170R (L) -00	2181	1017	1429	3131	1572	2380	4082	2126	3331	5033	2676	4281	2184	1018	1432
TW4-200R (L) -00	4822	2274	3237	6940	3513	5356	9059	4743	7474	11177	5969	9592	4812	2268	3227
TW4-280R (L) -00	8426	4086	5981	12211	6297	9766	15996	8487	13551	19781	10678	17336	8403	4072	5958

Specification

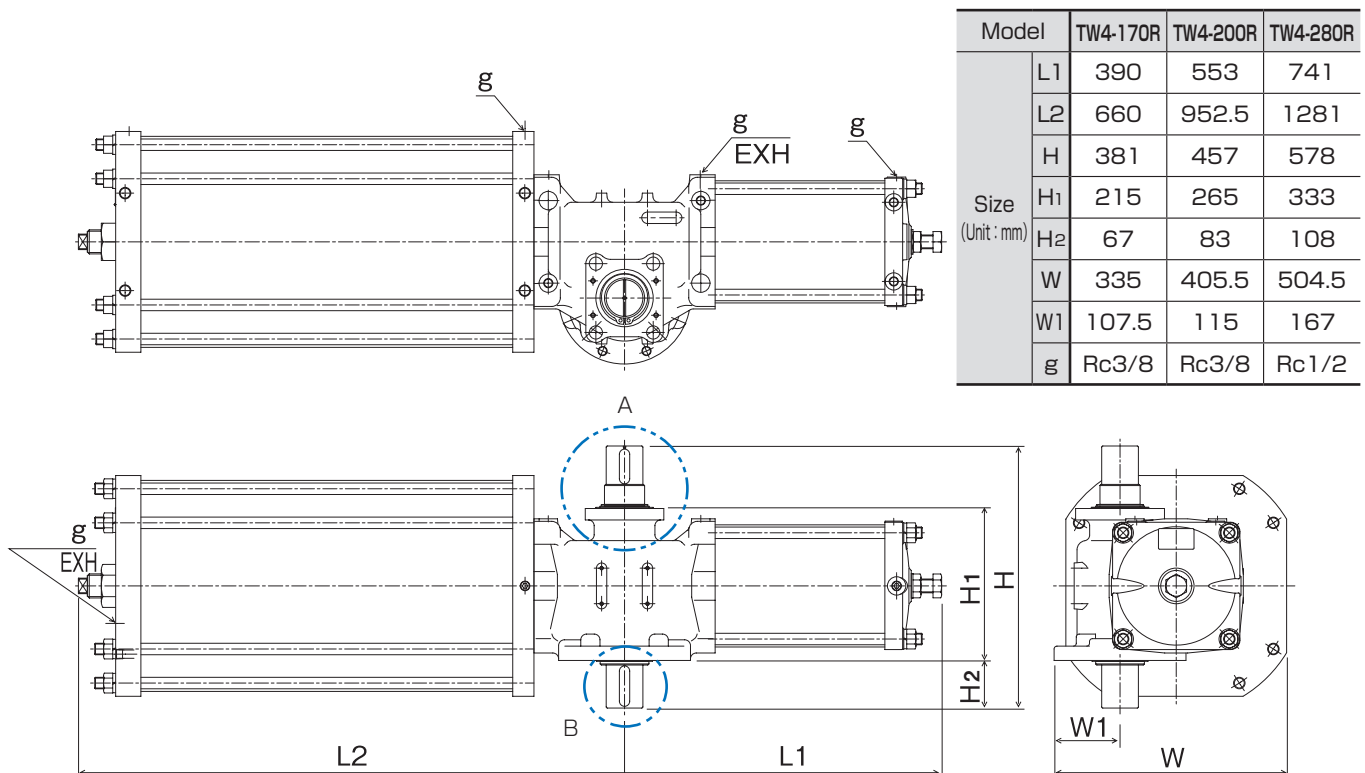
Model Code	TW4-170R(L)-00	TW4-200R(L)-00	TW4-280R(L)-00
Bore size	φ 170	φ 200	φ 280
Operating fluid	Compressed air		
Operating pressure	0.4 ~ 0.7MPa		
Proof pressure	1.05MPa		
Ambient temperature	- 5 ~ 60°C (In case of 5°C or less, provide adequate measures against freezing.)		
Rotating angle	90°		
Angle adjustment range	± 5° both ends		
Mass	210kg	370kg	790kg
Actuator displacement	14L	30L	53L
Air consumption	$2 \times A \times \left(\frac{P + 0.1013}{0.1013} \right) \times n$		

A : Actuator displacement [L]

P : Operating Pressure [MPa]

n : Number of cycle (1cycle = 1reciprocation]

External Dimensions

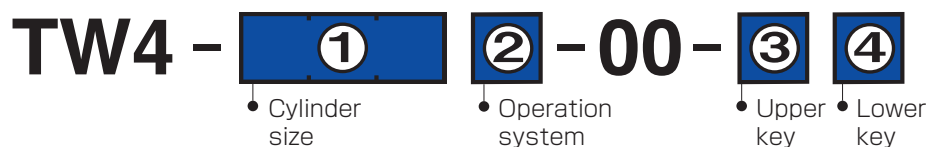


See page9 for A and B.

Common Items [Type D/S/A/R/L]

Model Code

When ordering, specify the model as follows.



1 Cylinder size

ϕ 170	170
ϕ 200	200
ϕ 280	280

2 Operation system

Double-Acting Type		D
Single-Acting Type	Type S (Clockwise rotation by spring)	S
	Type A (Counter clockwise rotation by spring)	A
Thrust increased type	Type R (Clockwise rotation by spring)	R
	Type L (Counter clockwise rotation by spring)	L

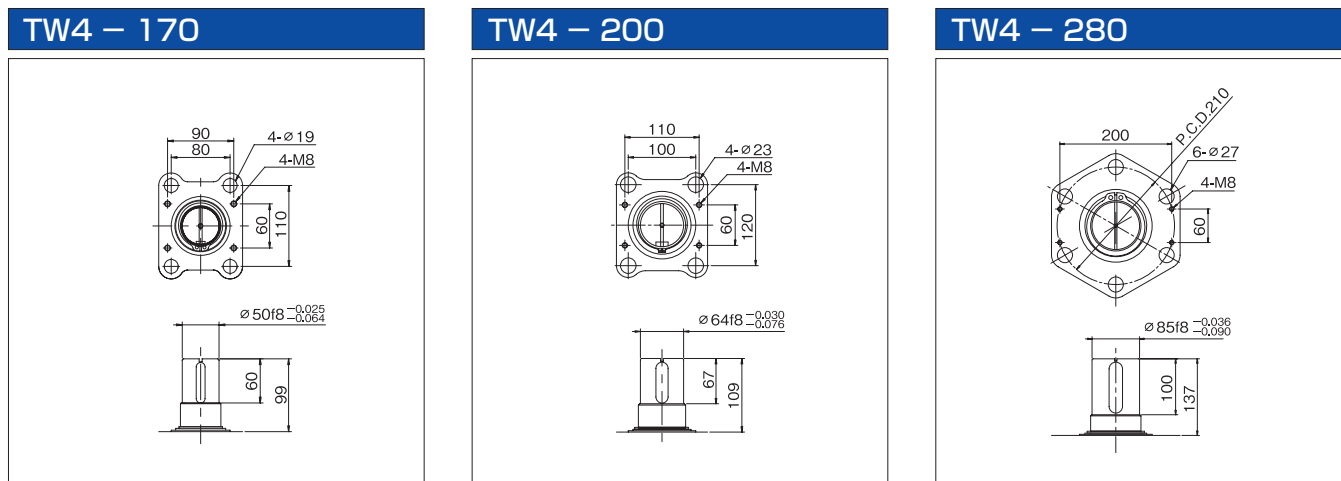
3 Upper key * TW4 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.

With/Without key	Cylinder size	Parallel key size	Designation
Without key	ϕ 170, ϕ 200, ϕ 280	—	No entry
With key	ϕ 170	12 × 8 × 50L key with both round ends (JISB1301 - 1996)	T
	ϕ 200	18 × 11 × 60L key with both round ends (JISB1301 - 1996)	T
		18 × 12 × 60L key with both round ends (JISB1301 - 1959) class 2	P
	ϕ 280	24 × 16 × 90L key with both round ends (JISB1301 - 1996)	T

4 Lower key * TW4 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.

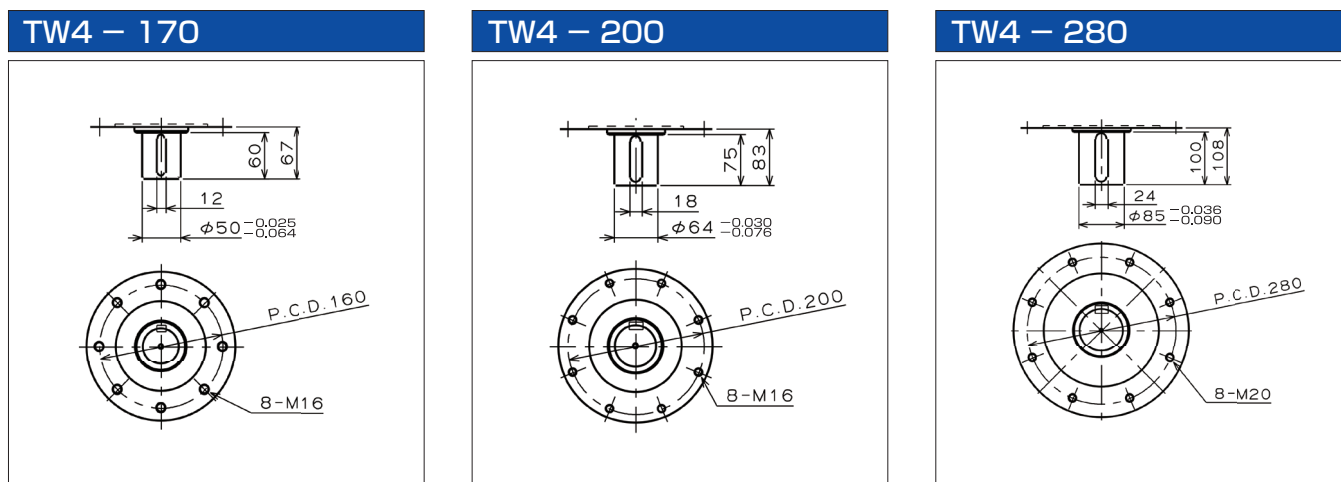
With/Without key	Cylinder size	Parallel key size	Designation
Without key	ϕ 170, ϕ 200, ϕ 280	—	No entry
With key	ϕ 170	12 × 8 × 55L key with both round ends (JISB1301 - 1996)	B
	ϕ 200	18 × 11 × 70L key with both round ends (JISB1301 - 1996)	B
		18 × 12 × 70L key with both round ends (JISB1301 - 1959) class 2	Q
	ϕ 280	24 × 16 × 98L key with both round ends (JISB1301 - 1996)	B

Optional equipment mounting interface



*For the compatible parallel key size, refer to the "Parallel key size" of ③ Upper key in the model code column.

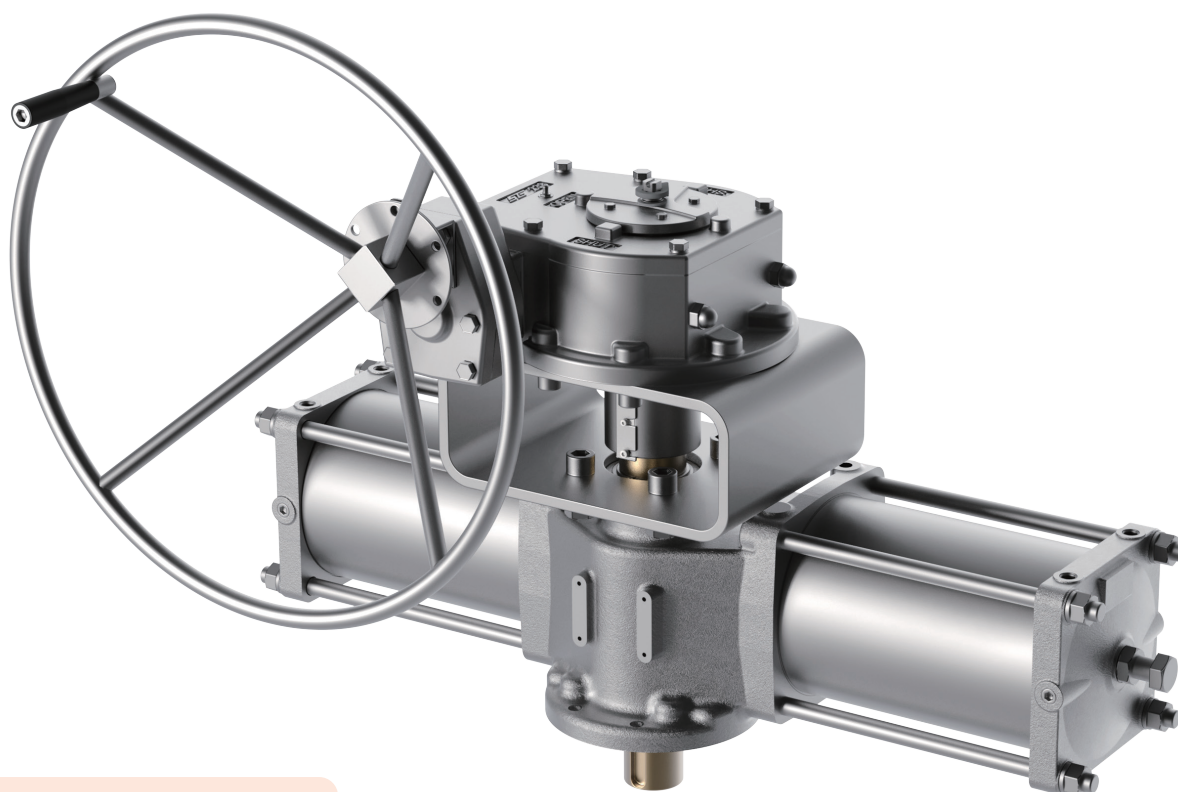
Valve mounting interface



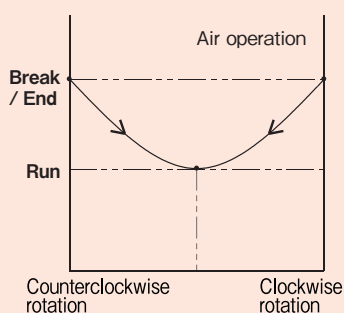
*For the compatible parallel key size, refer to the "Parallel key size" of ④ Lower key in the model code column.

TW4 Rotary actuator

Bore size $\phi 170$ 、 $\phi 200$ 、 $\phi 280$



■ Torque Characteristic



Output torque

Unit : N · m

Model Code	Operating pressure									
	0.3 MPa		0.4 MPa		0.5 MPa		0.6 MPa		0.7 MPa	
	Break/end	Run	Break/end	Run	Break/end	Run	Break/end	Run	Break/end	Run
TW4-170D-52	1230	715	1685	980	2141	1245	2596	1510	3052	1774
TW4-200D-52	2770	1611	3796	2207	4822	2804	5848	3400	6874	3997
TW4-280D-52	6648	3865	9111	5297	11573	6729	14036	8160	16498	9592

Model Code When ordering, specify the model as follows.

< Equipped with manual gear with opening display >

TW3 - **1** **D - 52 -** **4**

• Cylinder size

• Lower key

1 Cylinder size

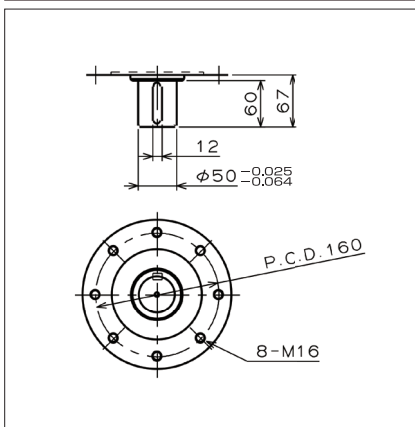
ϕ 170	170
ϕ 200	200
ϕ 280	280

4 Lower key * TW4 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.

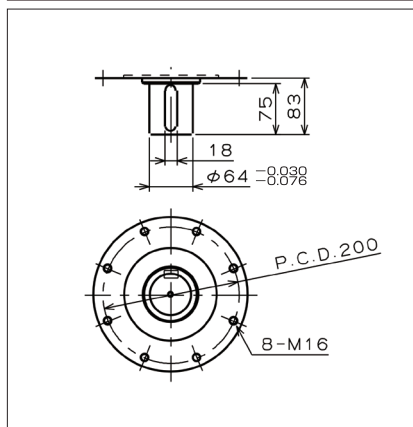
With/Without key	Cylinder size	Parallel key size	Designation
Without key	ϕ 170, ϕ 200, ϕ 280	—	No entry
With key	ϕ 170	12 x 8 x 55L key with both round ends (JIS B 1301 - 1996)	B
	ϕ 200	18 x 11 x 70L key with both round ends (JIS B 1301 - 1996)	B
		18 x 12 x 70L key with both round ends (JIS B 1301 - 1959) class 2	Q
	ϕ 280	24 x 16 x 98L key with both round ends (JIS B 1301 - 1996)	B

Valve mounting interface

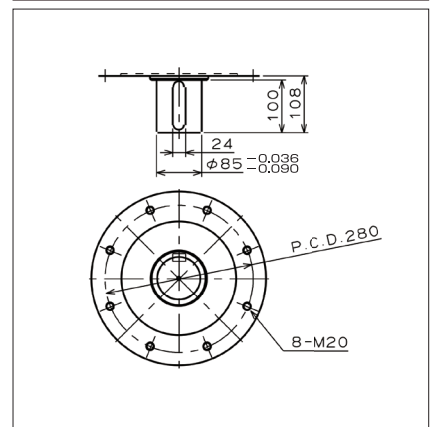
TW4 - 170



TW4 - 200

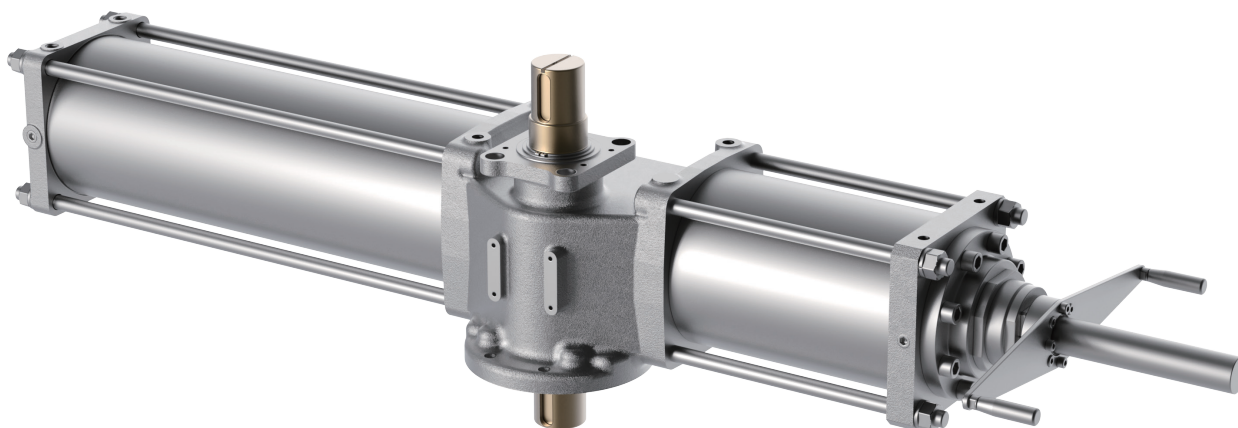


TW4 - 280



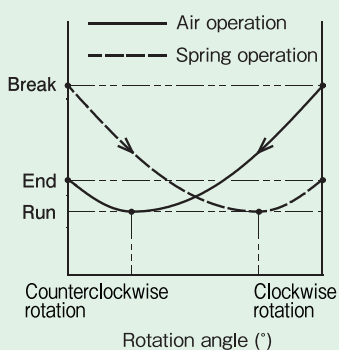
*For the compatible parallel key size, refer to the "Parallel key size" of 4 Lower key.

TW4 Rotary actuator

Bore size $\phi 170$ 、 $\phi 200$ 、 $\phi 280$ 

[TYPE : SM : Clockwise rotation by spring]

■ Torque Characteristic



*A model with right and left backward operation can be manufactured.

[Type AM : Counter clockwise rotation by spring]

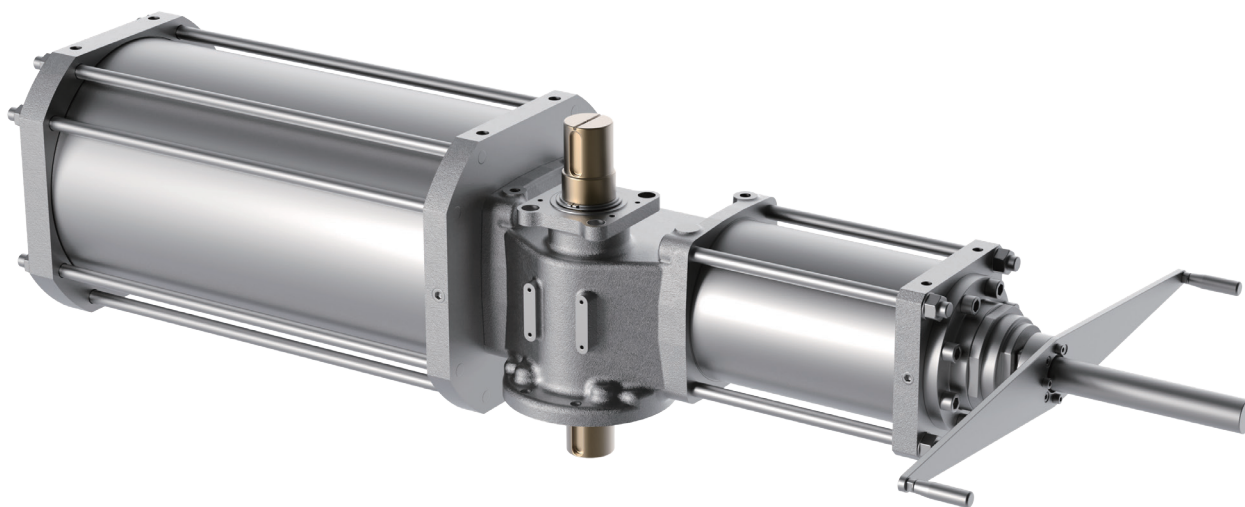
Output torque

Unit : N · m

Model Code	Operating pressure														
	0.4 MPa			0.5 MPa			0.6 MPa			0.7 MPa			Spring operation		
	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
TW4-170SM (AM) -00	1095	483	638	1551	749	1093	2006	1016	1549	2462	1281	2004	1093	482	636
TW4-200SM (AM) -00	2587	1073	1330	3613	1680	2356	4639	2280	3382	5665	2880	4408	2569	1063	1312
TW4-280SM (AM) -00	5965	2612	3426	8427	4054	5889	10890	5494	8351	13352	6928	10813	5931	2592	3392

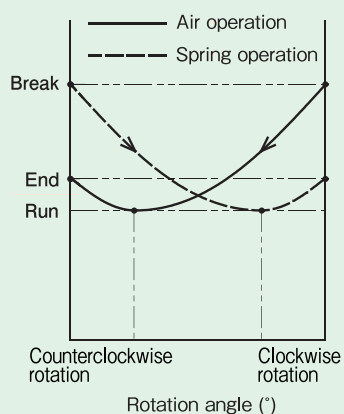
TW4 Rotary actuator

Bore size $\phi 170$ 、 $\phi 200$ 、 $\phi 280$



[RM タイプ : Clockwise rotation by spring]

■ Torque Characteristic



*A model with right and left backward operation can be manufactured.

[Type LM : Counter clockwise rotation by spring]

Output torque

Unit : N · m

Model Code	使用圧力														
	0.4 MPa			0.5 MPa			0.6 MPa			0.7 MPa			Spring operation		
	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End	Break	Run	End
TW4-170RM (LM) -00	2181	1017	1429	3131	1572	2380	4082	2126	3331	5033	2676	4281	2184	1018	1432
TW4-200RM (LM) -00	4822	2274	3237	6940	3513	5356	9059	4743	7474	11177	5969	9592	4812	2268	3227
TW4-280RM (LM) -00	8426	4086	5981	12211	6297	9766	15996	8487	13551	19781	10678	17336	8403	4072	5958

Common Items [Type SM/AM/RM/LM]

Model Code When ordering, specify the model as follows.

< With manual operation equipment >

TW4 - 1 2 **M - 00 -** 3 4

• Cylinder size • Operation system • With Hand-Operated Wheel • Upper key • Lower key

1 Cylinder size

ϕ 170	170
ϕ 200	200
ϕ 280	280

2 Operation system

Single-Acting Type	Type S (Clockwise rotation by spring)	S
	Type A (Counter clockwise rotation by spring)	A
Thrust increased type	Type R (Clockwise rotation by spring)	R
	Type L (Counter clockwise rotation by spring)	L

3 Upper key * TW4 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.

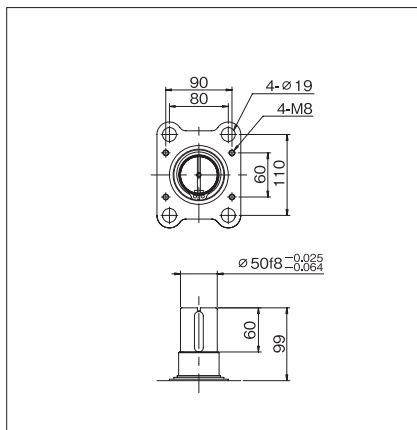
With/Without key	Cylinder size	Parallel key size	Designation
Without key	ϕ 170, ϕ 200, ϕ 280	—	No entry
With key	ϕ 170	12 × 8 × 50L key with both round ends (JISB1301 - 1996)	T
	ϕ 200	18 × 11 × 60L key with both round ends (JISB1301 - 1996)	T
		18 × 12 × 60L key with both round ends (JISB1301 - 1959) class 2	P
	ϕ 280	24 × 16 × 90L key with both round ends (JISB1301 - 1996)	T

4 Lower key * TW4 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.

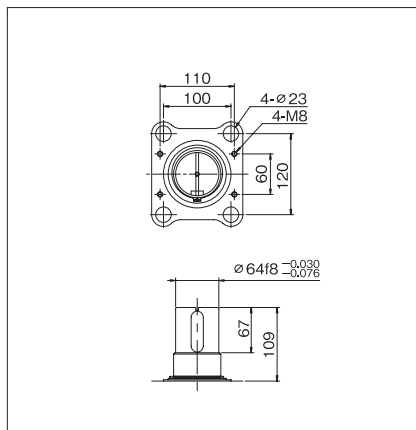
With/Without key	Cylinder size	Parallel key size	Designation
Without key	ϕ 170, ϕ 200, ϕ 280	—	No entry
With key	ϕ 170	12 × 8 × 50L key with both round ends (JISB1301 - 1996)	B
	ϕ 200	18 × 11 × 60L key with both round ends (JISB1301 - 1996)	B
		18 × 12 × 60L key with both round ends (JISB1301 - 1959) class 2	Q
	ϕ 280	24 × 16 × 90L key with both round ends (JISB1301 - 1996)	B

Optional equipment mounting interface

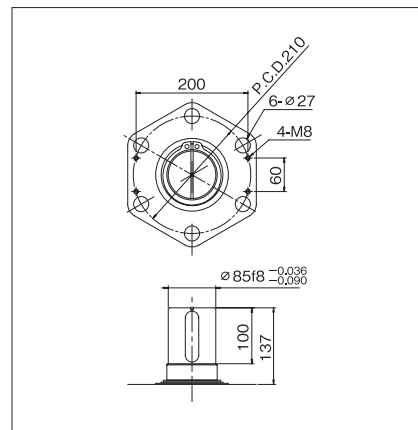
TW4 – 170



TW4 – 200



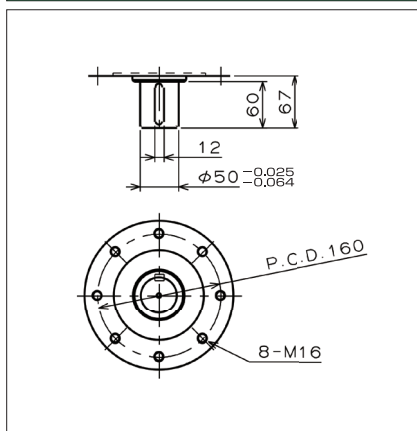
TW4 – 280



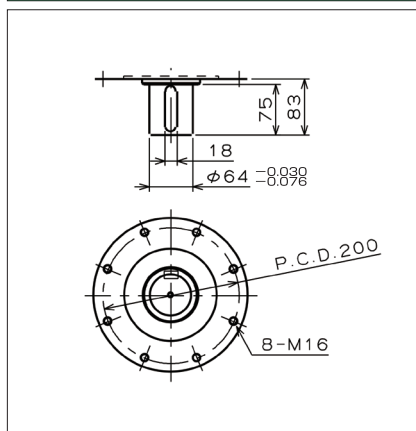
*For the compatible parallel key size, refer to the "Parallel key size" of ③ Upper key in the model code column.

Valve mounting interface

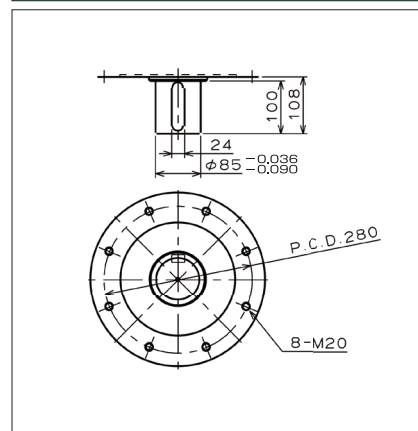
TW4 – 170



TW4 – 200



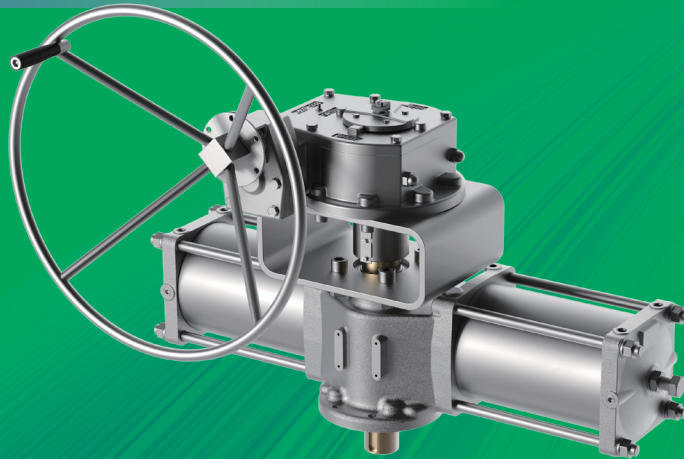
TW4 – 280



*For the compatible parallel key size, refer to the "Parallel key size" of ④ Lower key in the model code column.

D-52

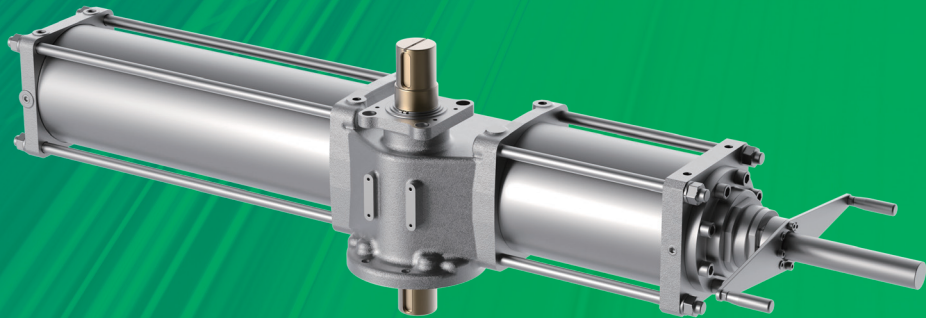
Equipped with manual gear with opening display



SM

Single-Acting Type

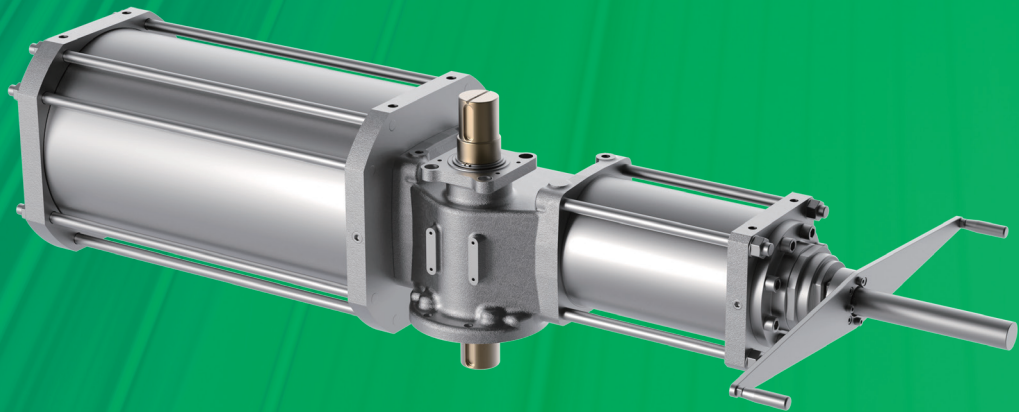
With Hand-Operated Wheel



RM

Thrust increased Single-Acting Type

With Hand-Operated Wheel



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Osaka Branch Chiba Office Kanazawa Office Kitakyushu Office
Seibu Branch Hokkaido Office Takamatsu Office



Distributing Agent

URL=<https://www.konan-em.com/>

2024.09
Please note that this catalog is subject to revision without notice.

2024.11-2 版 (D1) -H