

KONAN[®]

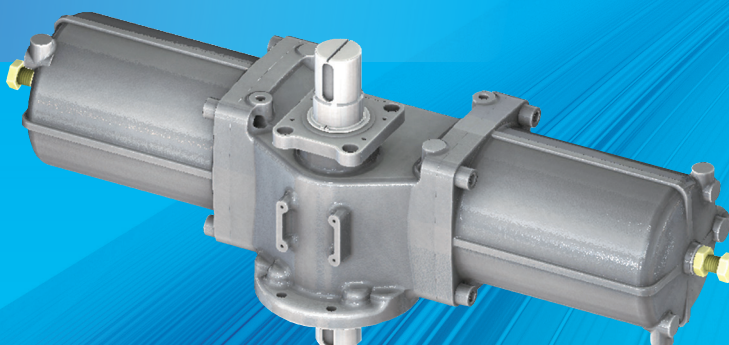
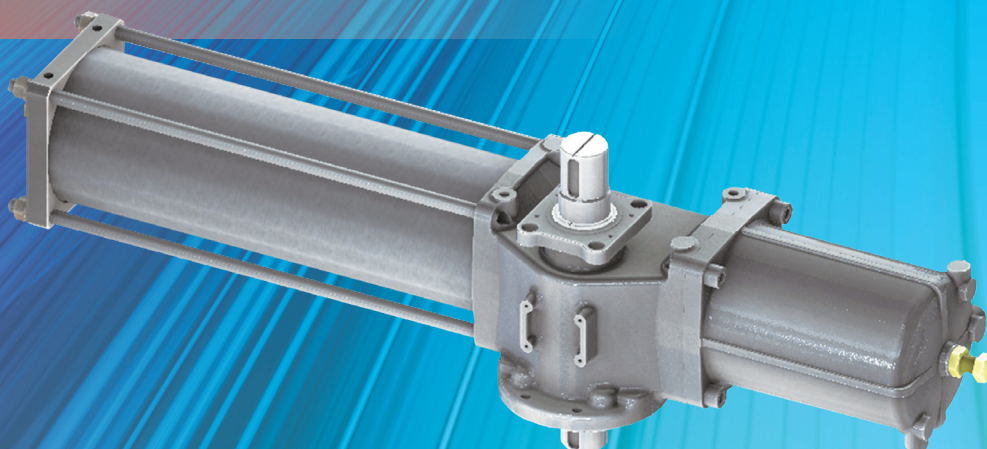
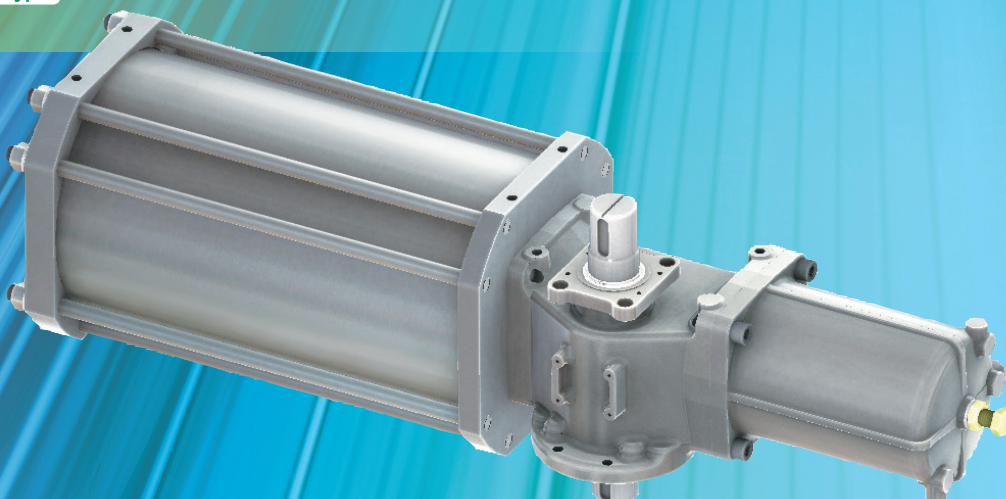
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**URL=[https://www.
konan-em.com/](https://www.konan-em.com/)**

TW3

For operation of large-diameter valve

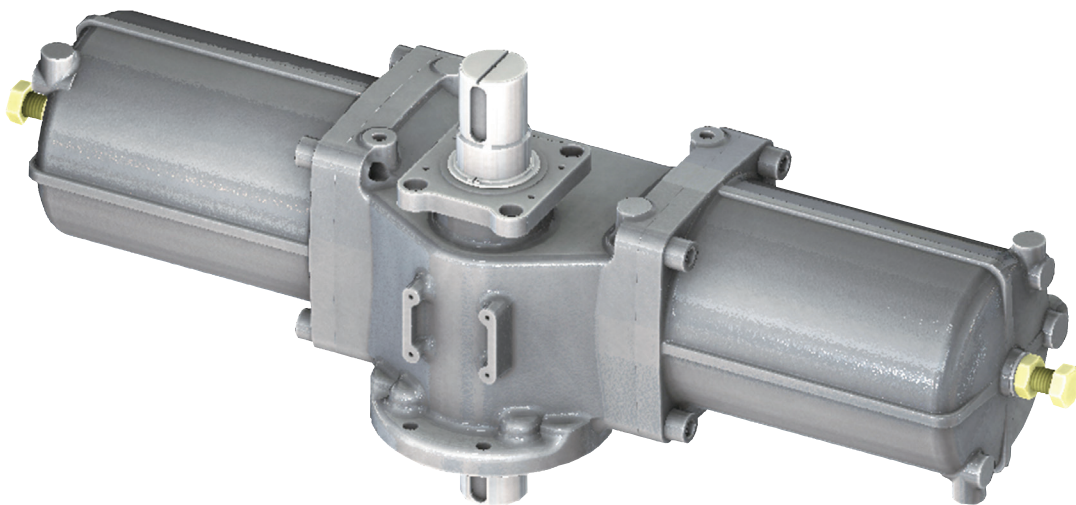
Rotary actuator

D**Double-Acting Type**
Type**S****Single-Acting Type**
Type**R****Single-Acting Type**
Type

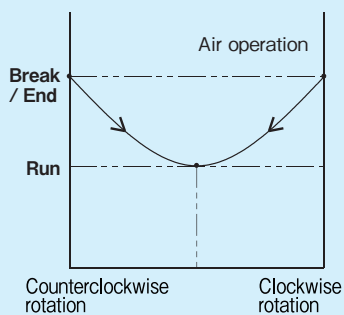
KONAN ELECTRIC CO.,LTD.

TW3 Rotary actuator

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



■ Torque Characteristic



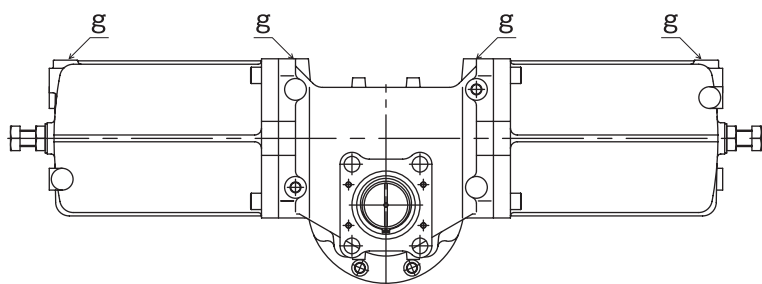
Output torque

Model Code		TW3-170D-00		TW3-200D-00		TW3-280D-00	
		Break/End	Run	Break/End	Run	Break/End	Run
Supply pressure	0.3 MPa	1230 N · m	715 N · m	2770 N · m	1611 N · m	6648 N · m	3865 N · m
	0.4 MPa	1685 N · m	980 N · m	3796 N · m	2207 N · m	9111 N · m	5297 N · m
	0.5 MPa	2141 N · m	1245 N · m	4822 N · m	2804 N · m	11573 N · m	6729 N · m
	0.6 MPa	2596 N · m	1510 N · m	5848 N · m	3400 N · m	14036 N · m	8160 N · m
	0.7 MPa	3052 N · m	1774 N · m	6874 N · m	3997 N · m	16498 N · m	9592 N · m

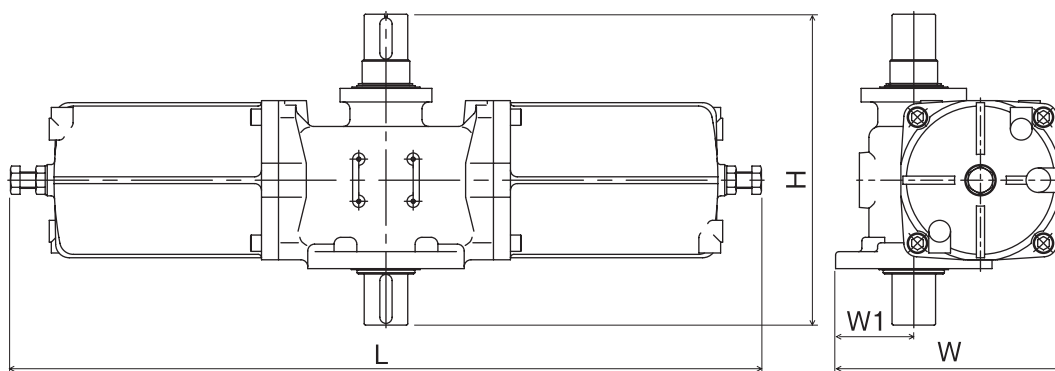
Specification

Model Code	TW3-170D-00	TW3-200D-00	TW3-280D-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℃ (In case of 5℃ or less, provide adequate measures against freezing.)		
Rotating angle	90°		
Angle adjustment range	± 5° both ends		
Mass	72kg	140kg	340kg

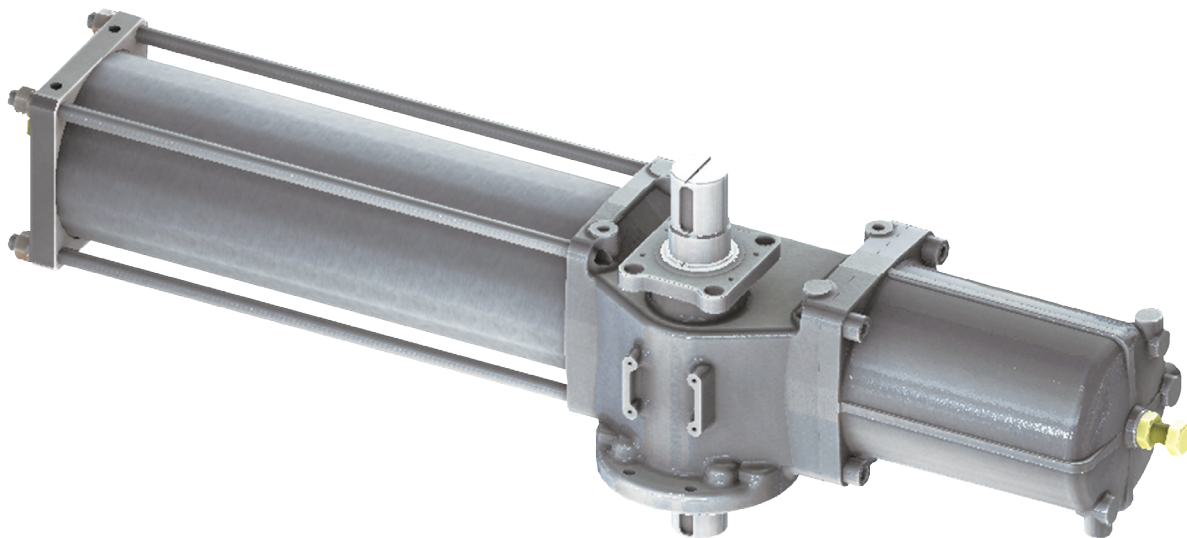
External Dimensions



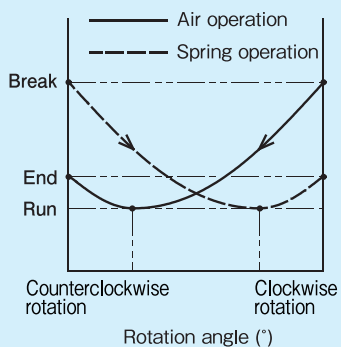
Model		TW3-170D	TW3-200D	TW3-280D
Size (Unit : mm)	L	780	1104	1482
	H	381	457	578
	W	256	330	451
	W1	98	115	167
	g	Rc3/8	Rc3/8	Rc1/2



TW3 Rotary actuator

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

■ Torque Characteristic



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

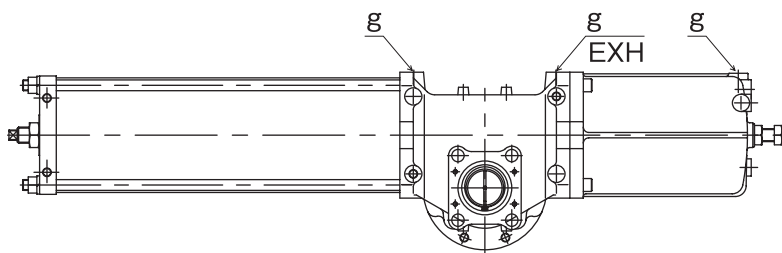
Output torque

Model Code		TW3-170S (A) -00			TW3-200S (A) -00			TW3-280S (A) -00		
		Break	Run	End	Break	Run	End	Break	Run	End
Supply pressure	0.4 MPa	1095 N·m	483 N·m	638 N·m	2587 N·m	1073 N·m	1330 N·m	5965 N·m	2612 N·m	3426 N·m
	0.5 MPa	1551 N·m	749 N·m	1093 N·m	3613 N·m	1680 N·m	2356 N·m	8427 N·m	4054 N·m	5889 N·m
	0.6 MPa	2006 N·m	1016 N·m	1549 N·m	4639 N·m	2280 N·m	3382 N·m	10890 N·m	5494 N·m	8351 N·m
	0.7 MPa	2462 N·m	1281 N·m	2004 N·m	5665 N·m	2880 N·m	4408 N·m	13352 N·m	6928 N·m	10813 N·m
	Spring operation	1093 N·m	482 N·m	636 N·m	2569 N·m	1063 N·m	1312 N·m	5931 N·m	2592 N·m	3392 N·m

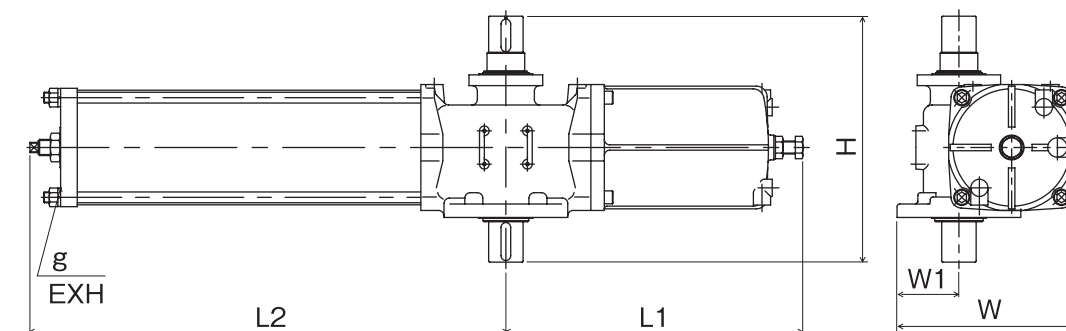
Specification

Model Code	TW3-170S (A) -00	TW3-200S (A) -00	TW3-280S (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	$\pm 5^\circ$ both ends		
Mass	105kg	190kg	505kg

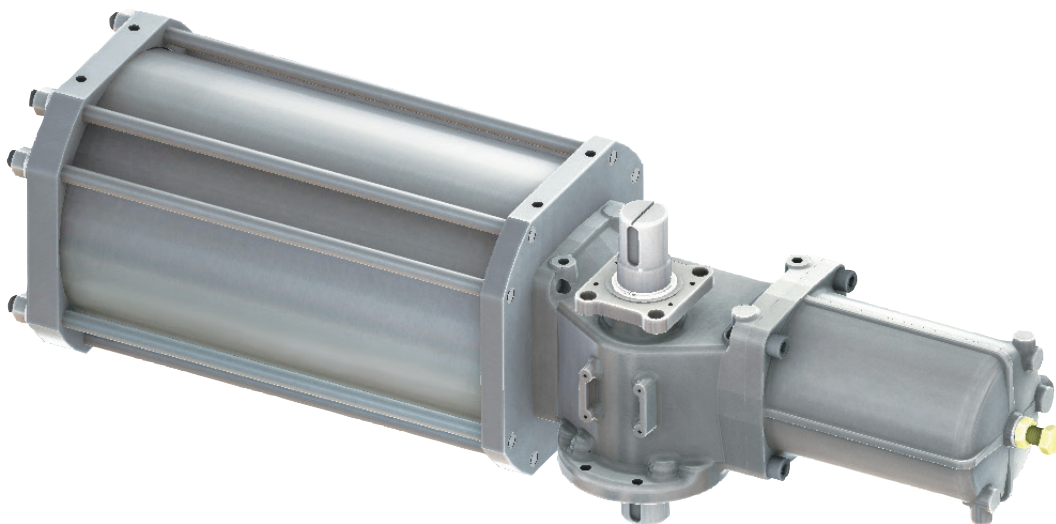
External Dimensions



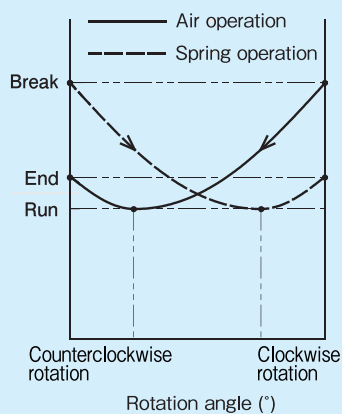
Model		TW3-170S	TW3-200S	TW3-280S
Size (Unit : mm)	L1	390	552	741
	L2	619	884.5	1169
	H	381	457	578
	W	256	330	451
	W1	98	115	167
	g	Rc3/8	Rc3/8	Rc1/2



TW3 Rotary actuator

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

■ Torque Characteristic

*A model with right and left backward operation can be manufactured. [\[Type L\]](#)

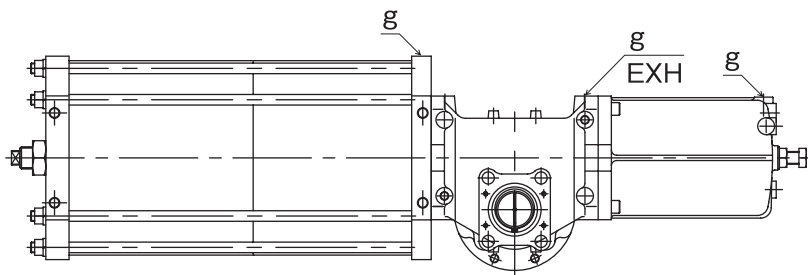
Output torque

Model Code		TW3-170R (L) -00			TW3-200R (L) -00			TW3-280R (L) -00		
		Break	Run	End	Break	Run	End	Break	Run	End
Supply pressure	0.4 MPa	2181 N · m	1017 N · m	1429 N · m	4822 N · m	2274 N · m	3237 N · m	8426 N · m	4086 N · m	5981 N · m
	0.5 MPa	3131 N · m	1572 N · m	2380 N · m	6940 N · m	3513 N · m	5356 N · m	12211 N · m	6297 N · m	9766 N · m
	0.6 MPa	4082 N · m	2126 N · m	3331 N · m	9059 N · m	4743 N · m	7474 N · m	15996 N · m	8487 N · m	13551 N · m
	0.7 MPa	5033 N · m	2676 N · m	4281 N · m	11177 N · m	5969 N · m	9592 N · m	19781 N · m	10678 N · m	17336 N · m
	Spring operation	2184 N · m	1018 N · m	1432 N · m	4812 N · m	2268 N · m	3227 N · m	8403 N · m	4072 N · m	5958 N · m

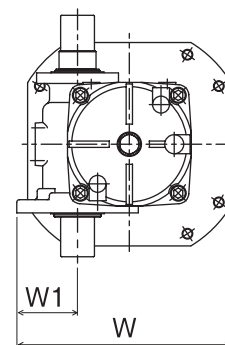
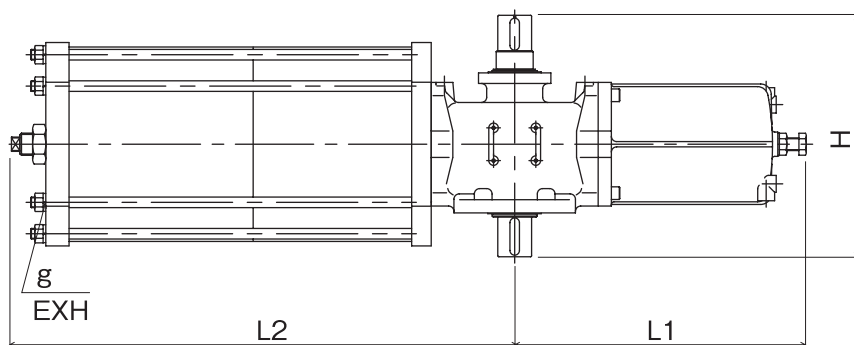
Specification

Model Code	TW3-170R(L)-00	TW3-200R(L)-00	TW3-280R(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	$\pm 5^\circ$ both ends		
Mass	218kg	385kg	798kg

External Dimensions



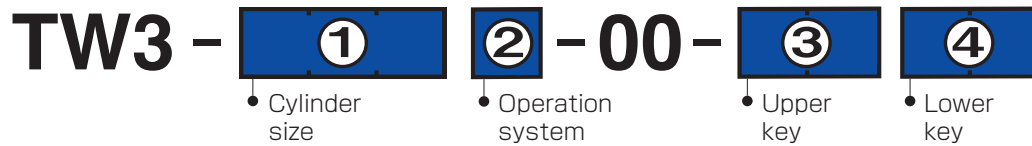
Model		TW3-170R	TW3-200R	TW3-280R
Size (Unit : mm)	L1	390	552	741
	L2	660	952.5	1313
	H	381	457	578
	W	335	405.5	504.5
	W1	107.5	115	167
	g	Rc3/8	Rc3/8	Rc1/2



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)	S
Single-Acting Type (Type A)	A
Single-Acting Type (Type R)	R
Single-Acting Type (Type L)	L

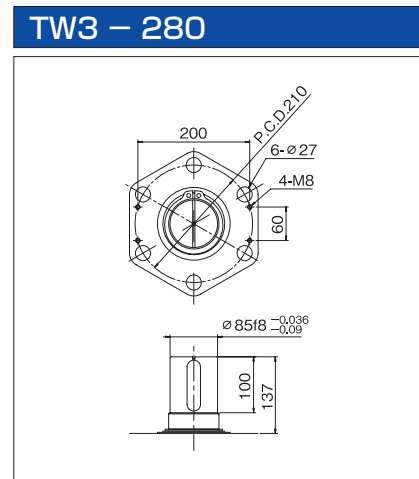
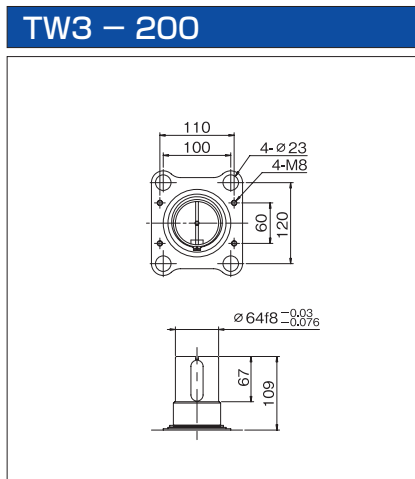
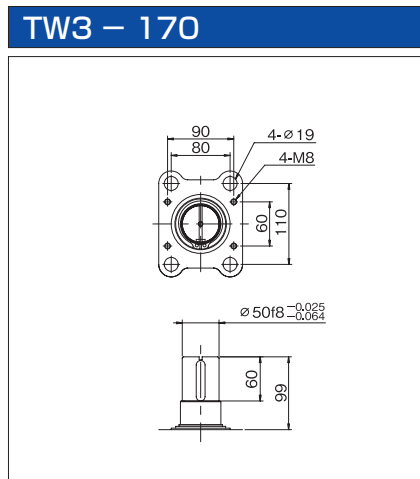
③ Upper key * TW3 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.

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 (JIS B 1301)	1
	ϕ 200	18 × 12 × 60L key with both round ends Old JIS (JIS B 1301 – 1959)	1
		18 × 11 × 60L key with both round ends New JIS (JIS B 1301 – 1996)	1N
	ϕ 280	24 × 16 × 90L key with both round ends (JIS B 1301)	1

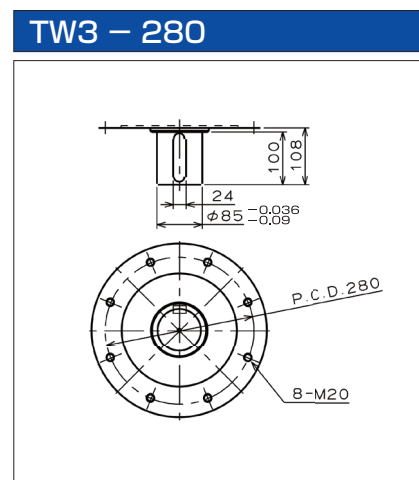
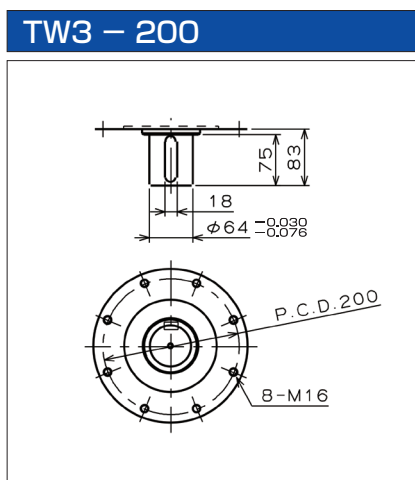
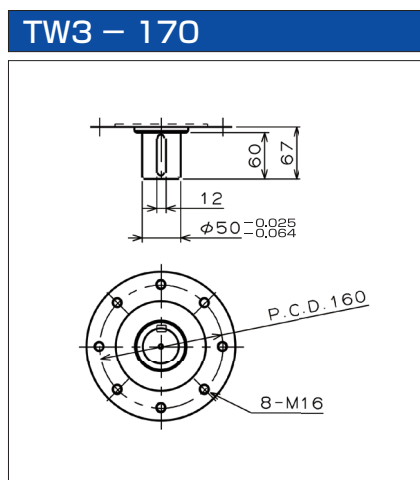
④ Lower key * TW3 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.

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 (JIS B 1301)	2
	ϕ 200	18 × 12 × 70L key with both round ends Old JIS (JIS B 1301 – 1959)	2
		18 × 11 × 70L key with both round ends New JIS (JIS B 1301 – 1996)	2N
	ϕ 280	24 × 16 × 98L key with both round ends (JIS B 1301)	2

Optional equipment mounting interface

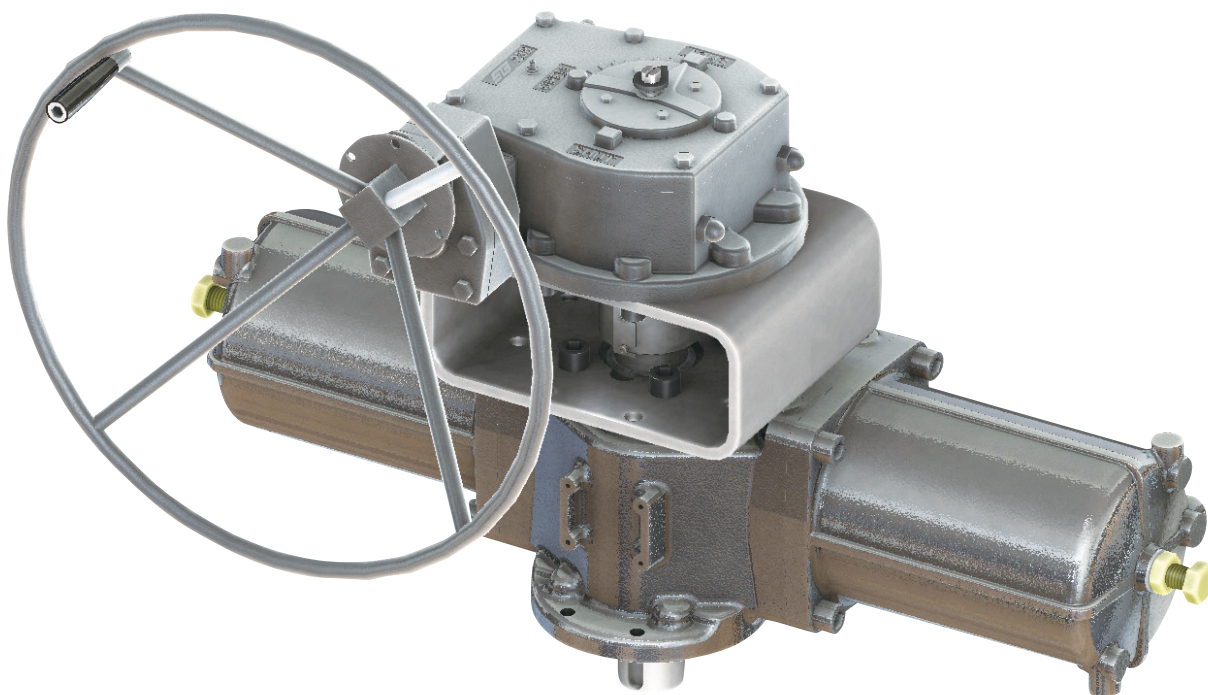


Valve mounting interface

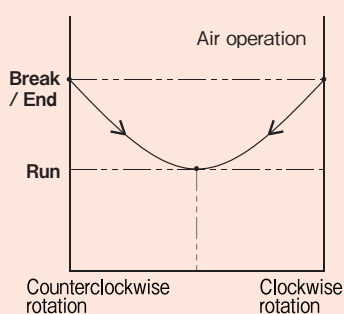


TW3 Rotary actuator

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



■ Torque Characteristic



Output torque

Model Code		TW3-170D-52		TW3-200D-52		TW3-280D-52	
		Break/End	Run	Break/End	Run	Break/End	Run
Supply pressure	0.3 MPa	1230 N · m	715 N · m	2770 N · m	1611 N · m	6648 N · m	3865 N · m
	0.4 MPa	1685 N · m	980 N · m	3796 N · m	2207 N · m	9111 N · m	5297 N · m
	0.5 MPa	2141 N · m	1245 N · m	4822 N · m	2804 N · m	11573 N · m	6729 N · m
	0.6 MPa	2596 N · m	1510 N · m	5848 N · m	3400 N · m	14036 N · m	8160 N · m
	0.7 MPa	3052 N · m	1774 N · m	6874 N · m	3997 N · m	16498 N · m	9592 N · m

Model Code When ordering, specify the model as follows.

< Equipped with manual gear with opening display >

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

• Cylinder size

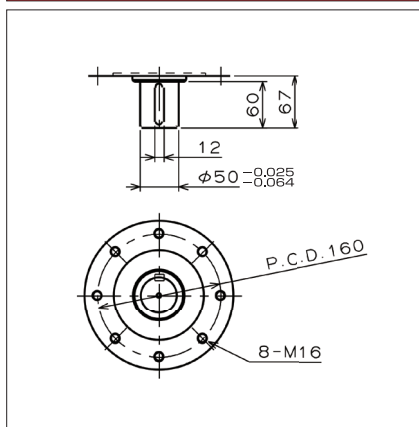
• Lower key

1 Cylinder size		
	ϕ 170	170
	ϕ 200	200
	ϕ 280	280

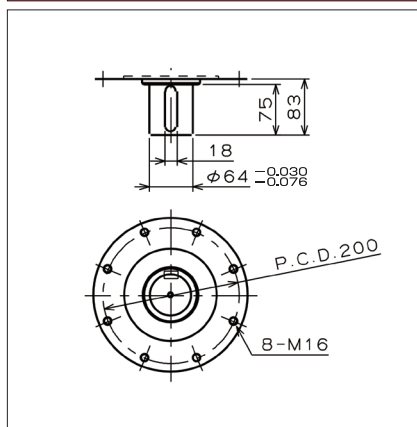
4 Lower key * TW3 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.			
With/Without key	Cylinder size	Parallel key size	Designation
Without key	ϕ 170, ϕ 200, ϕ 280	—	No entry
With key	ϕ 170	12 × 8 × 55L key with both round ends (JIS B 1301)	2
	ϕ 200	18 × 12 × 70L key with both round ends Old JIS (JIS B1301 - 1959)	2
		18 × 11 × 70L key with both round ends New JIS (JIS B1301 - 1996)	2N
	ϕ 280	24 × 16 × 98L key with both round ends (JIS B1301)	2

Valve mounting interface

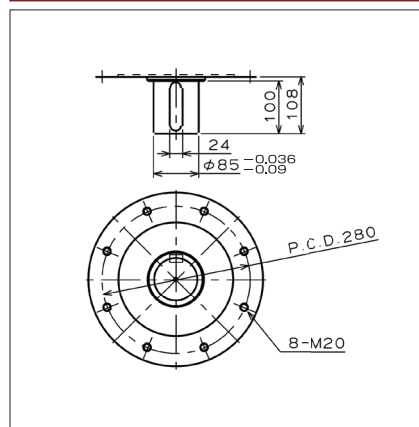
TW3 - 170



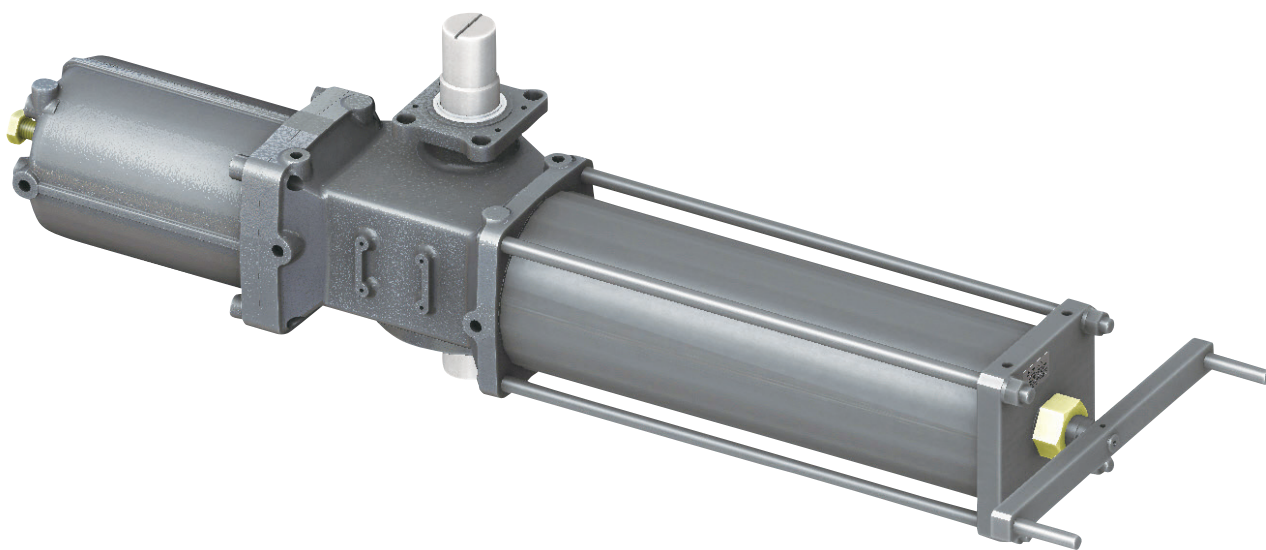
TW3 - 200



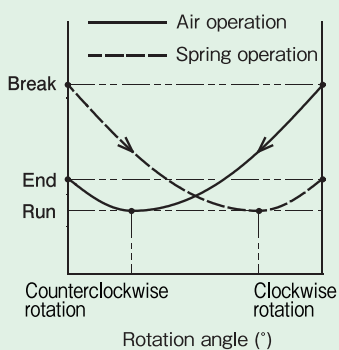
TW3 - 280



TW3 Rotary actuator

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

■ Torque Characteristic

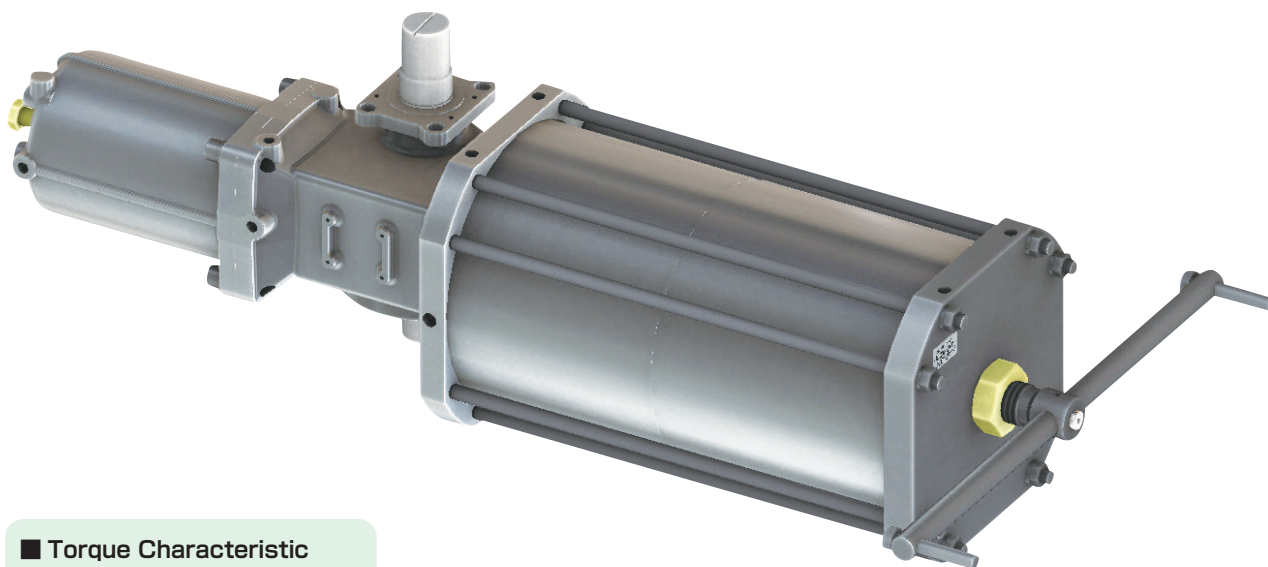


*A model with right and left backward operation can be manufactured. [Type AM]

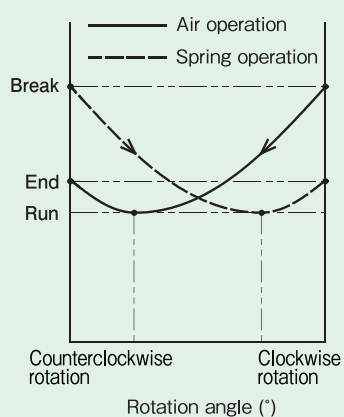
Output torque

Model Code		TW3-170SM (AM) -00			TW3-200SM (AM) -00			TW3-280SM (AM) -00		
		Break	Run	End	Break	Run	End	Break	Run	End
Supply pressure	0.4 MPa	1095 N · m	483 N · m	638 N · m	2587 N · m	1073 N · m	1330 N · m	5965 N · m	2612 N · m	3426 N · m
	0.5 MPa	1551 N · m	749 N · m	1093 N · m	3613 N · m	1680 N · m	2356 N · m	8427 N · m	4054 N · m	5889 N · m
	0.6 MPa	2006 N · m	1016 N · m	1549 N · m	4639 N · m	2280 N · m	3382 N · m	10890 N · m	5494 N · m	8351 N · m
	0.7 MPa	2462 N · m	1281 N · m	2004 N · m	5665 N · m	2880 N · m	4408 N · m	13352 N · m	6928 N · m	10813 N · m
	Spring operation	1093 N · m	482 N · m	636 N · m	2569 N · m	1063 N · m	1312 N · m	5931 N · m	2592 N · m	3392 N · m

TW3 Rotary actuator

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

■ Torque Characteristic



*A model with right and left backward operation can be manufactured. [Type LM]

Output torque

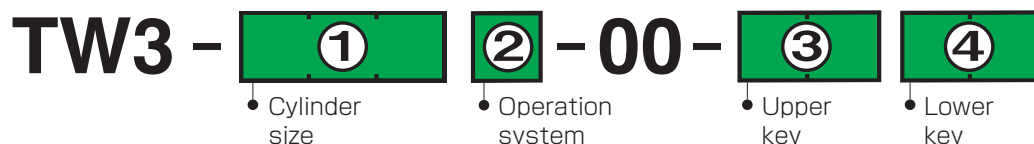
Model Code		TW3-170RM (LM) -00			TW3-200RM (LM) -00			TW3-280RM (LM) -00		
		Break	Run	End	Break	Run	End	Break	Run	End
Supply pressure	0.4 MPa	2181 N·m	1017 N·m	1429 N·m	4822 N·m	2274 N·m	3237 N·m	8426 N·m	4086 N·m	5981 N·m
	0.5 MPa	3131 N·m	1572 N·m	2380 N·m	6940 N·m	3513 N·m	5356 N·m	12211 N·m	6297 N·m	9766 N·m
	0.6 MPa	4082 N·m	2126 N·m	3331 N·m	9059 N·m	4743 N·m	7474 N·m	15996 N·m	8487 N·m	13551 N·m
	0.7 MPa	5033 N·m	2676 N·m	4281 N·m	11177 N·m	5969 N·m	9592 N·m	19781 N·m	10678 N·m	17336 N·m
	Spring operation	2184 N·m	1018 N·m	1432 N·m	4812 N·m	2268 N·m	3227 N·m	8403 N·m	4072 N·m	5958 N·m

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

Model Code

When ordering, specify the model as follows.

< With manual operation equipment >



① Cylinder size

ϕ 170	170
ϕ 200	200
ϕ 280	280

② Operation system

Single-Acting Type (Type SM)	SM
Single-Acting Type (Type AM)	AM
Single-Acting Type (Type RM)	RM
Single-Acting Type (Type LM)	LM

③ Upper key * TW3 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.

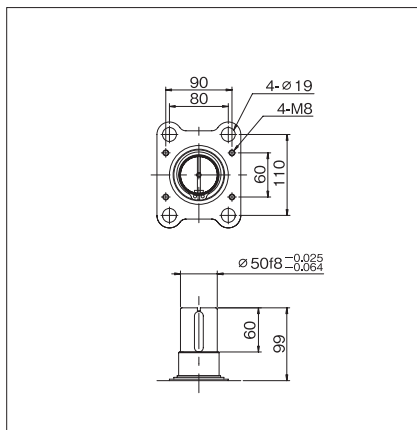
With/Without key	Cylinder size	Parallel key size	Designation
Without key	ϕ 170, ϕ 200, ϕ 280	—	No entry
With key	ϕ 170	12 × 8 × 50L key with both round ends (JIS B 1301)	1
	ϕ 200	18 × 12 × 60L key with both round ends Old JIS (JIS B1301 – 1959)	1
		18 × 11 × 60L key with both round ends New JIS (JIS B1301 – 1996)	1N
	ϕ 280	24 × 16 × 90L key with both round ends (JIS B1301)	1

④ Lower key * TW3 (standard) is not equipped with a key. If a cylinder with a key is required, please place an order as shown below.

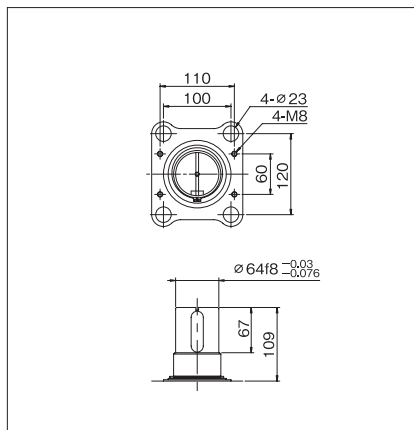
With/Without key	Cylinder size	Parallel key size	Designation
Without key	ϕ 170, ϕ 200, ϕ 280	—	No entry
With key	ϕ 170	12 × 8 × 55L key with both round ends (JIS B 1301)	2
	ϕ 200	18 × 12 × 70L key with both round ends Old JIS (JIS B1301 – 1959)	2
		18 × 11 × 70L key with both round ends New JIS (JIS B1301 – 1996)	2N
	ϕ 280	24 × 16 × 98L key with both round ends (JIS B1301)	2

Optional equipment mounting interface

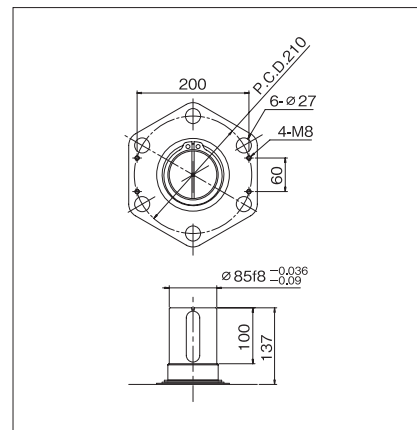
TW3 – 170



TW3 – 200

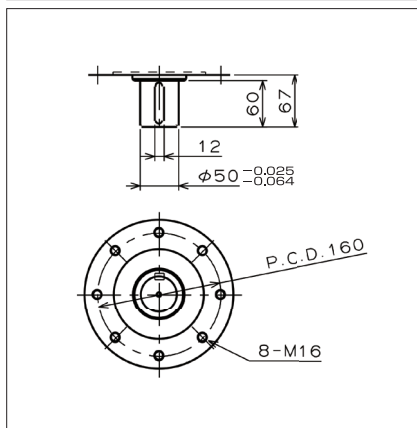


TW3 – 280

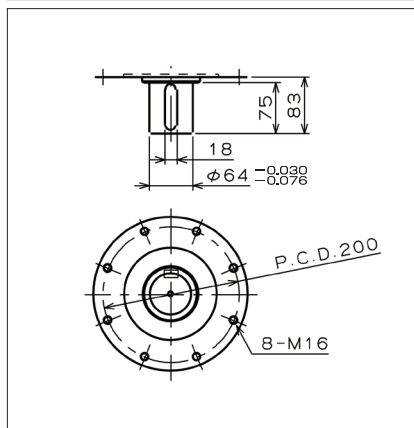


Valve mounting interface

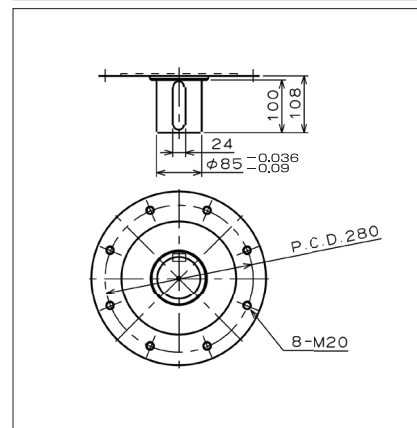
TW3 – 170



TW3 – 200

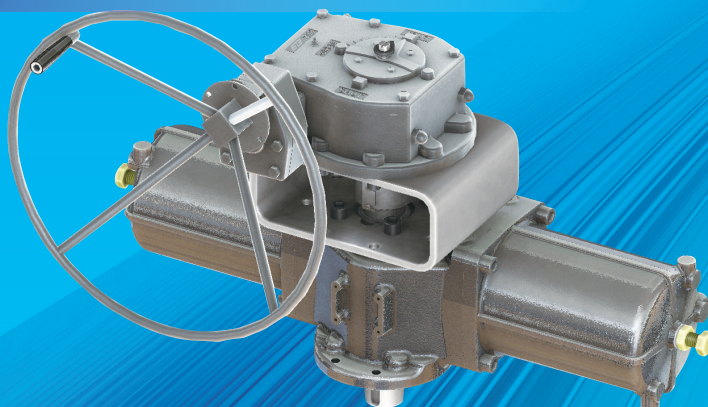


TW3 – 280



D-52

Equipped with manual gear with opening display



SM

Single-Acting Type

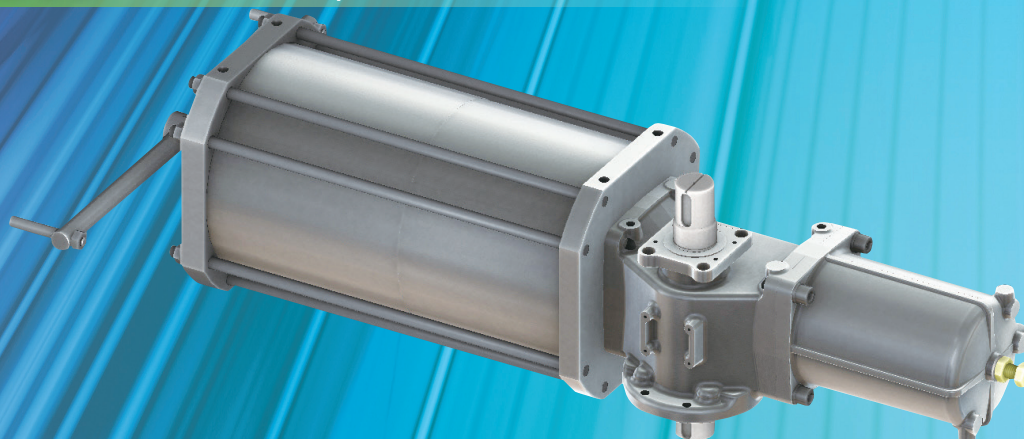
With Hand-Operated Wheel



RM

Single-Acting Type

With Hand-Operated Wheel



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