

ROTARY VANE

Cylinders



Find out our
key products



Solution for most applications



Easy and intuitive choice



Excellent value for money



Wide availability



Fast delivery



Features and certifications

Series of rotary vane cylinders, available in bores from Ø 4 to 25, double acting, with reduced overall dimensions. With fixed and adjustable rotation angles and equipped with elastic dampers (hydraulic shock absorbers in adjustable versions for bores from Ø 12 to 25) to relieve the impacts of vanes. Supplied as standard in compliance with Reach and RoHS directives.



Type ARTM Ø 4 ÷ 10

from page 1.50.20



Rotary vane cylinders available in bores from Ø 4 to 10, double acting non-magnetic, with elastic dampers.
Rotation angle: 90°, 180° or 270°.



Type ARTMC Ø 4 ÷ 10

from page 1.50.20



Rotary vane cylinders available in bores from Ø 4 to 10, double acting magnetic, with elastic dampers.
Rotation angle: 90°, 180° or 270°



Type ARTML Ø 4 ÷ 10

from page 1.50.20



Rotary vane cylinders available in bores from Ø 4 to 10, double acting non-magnetic, with adjustable rotation angles and elastic dampers.
Rotation angle: 90°, 180° or 270°



Type ARTMLC Ø 4 ÷ 10

from page 1.50.20



Rotary vane cylinders available in bores from Ø 4 to 10, double acting magnetic, with adjustable rotation angles and elastic dampers.
Rotation angle: 90°, 180° or 270°



Type ARTMF Ø 4 ÷ 10

from page 1.50.40



Flanged rotary vane cylinders available in bores from Ø 4 to 10, double acting non-magnetic, with elastic dampers.
Rotation angle: 90°, 180° or 270°.



Type ARTMFC Ø 4 ÷ 10

from page 1.50.40



Flanged rotary vane cylinders available in bores from Ø 4 to 10, double acting magnetic, with elastic dampers.
Rotation angle: 90°, 180° or 270°



Type ARTMFL Ø 4 ÷ 10

from page 1.50.40



Flanged rotary vane cylinders available in bores from Ø 4 to 10, double acting non-magnetic, with adjustable rotation angles and elastic dampers.
Rotation angle: 90°, 180° or 270°



Type ARTMFLC Ø 4 ÷ 10

from page 1.50.40



Flanged rotary vane cylinders available in bores from Ø 4 to 10, double acting magnetic, with adjustable rotation angles and elastic dampers.
Rotation angle: 90°, 180° or 270°



Type ARTM Ø 12 ÷ 25

from page 1.50.60



Rotary vane cylinders available in bores from Ø 12 to 25, double acting non-magnetic, with elastic dampers.
Rotation angle: 90°, 180° or 270°.



Type ARTMC Ø 12 ÷ 25

from page 1.50.60



Rotary vane cylinders available in bores from Ø 12 to 25, double acting magnetic, with elastic dampers.
Rotation angle: 90°, 180° or 270°



Type ARTML Ø 12 ÷ 25

from page 1.50.60



Rotary vane cylinders available in bores from Ø 12 to 25, double acting non-magnetic, with adjustable rotation angles and hydraulic shock absorbers.
Rotation angle: 90°, 180° or 270°



Type ARTMLC Ø 12 ÷ 25

from page 1.50.60



Rotary vane cylinders available in bores from Ø 12 to 25, double acting magnetic, with adjustable rotation angles and hydraulic shock absorbers.
Rotation angle: 90°, 180° or 270°



Code key

Size	/	Angle of rotation	Type
30	/	90°	ARTM

10	= Ø 4
15	= Ø 5
20	= Ø 6
30	= Ø 8
40	= Ø 10
50	= Ø 12
63	= Ø 15
80	= Ø 17
100	= Ø 25

90°, 180°, 270°

ARTM
Double acting
Non-magnetic
With fixed rotation angle

ARTMC
Double acting
Magnetic
With fixed rotation angle

ARTML
Double acting
Non-magnetic
With adjustable rotation angle

ARTMLC
Double acting
Magnetic
With adjustable rotation angle

ARTMF⁽¹⁾
Flanged
Double acting
Non-magnetic
With fixed rotation angle

ARTMFC⁽¹⁾
Flanged
Double acting
Magnetic
With fixed rotation angle

ARTMFL⁽¹⁾
Flanged
Double acting
Non-magnetic
With adjustable rotation angle

ARTMFLC⁽¹⁾
Flanged
Double acting
Magnetic
With adjustable rotation angle

How to order

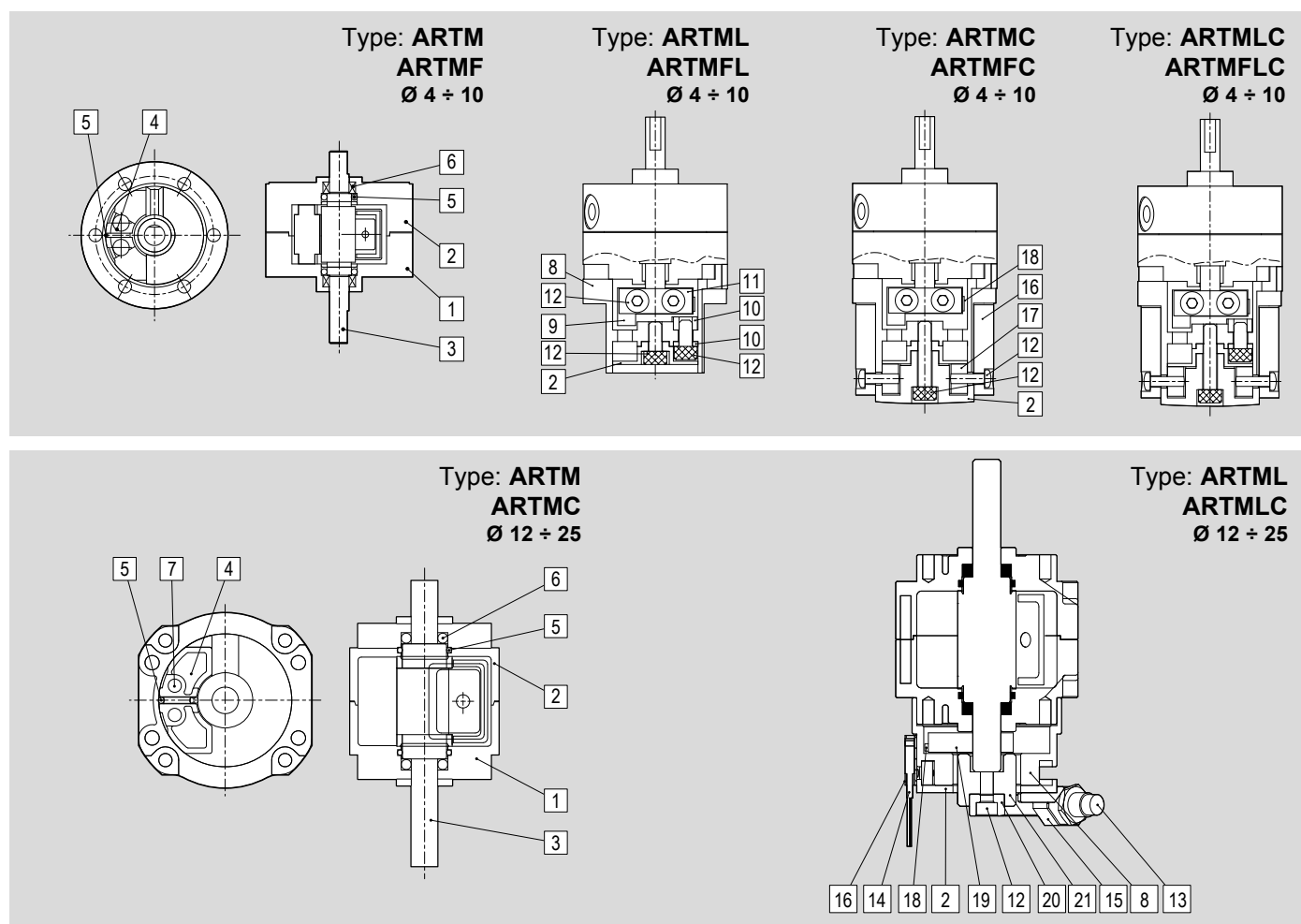
Size	/	Angle	Type
30	/	90°	ARTM

Note

For standard materials see page 1.50.5

(1) Only for bores from Ø 4 to 10

Materiali standard

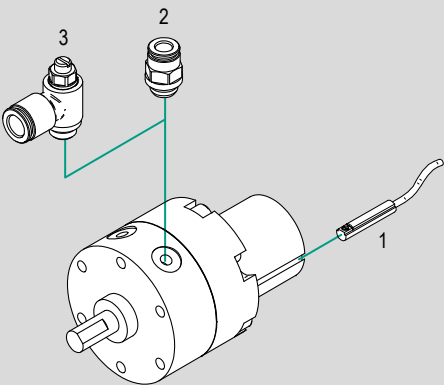


Posizione	Descrizione	Materiale	
		$\varnothing 4 \div 10$	$\varnothing 20 \div 25$
1	Front cover	Aluminium alloy	
2	End cover	Aluminium alloy	
3	Rod	Steel alloy	
4	Dampers	Plastic - Steel	
5	O-ring	NBR	
6	Bearing	Steel	
7	Position pin	-	Zinc alloy
8	Base	Zinc alloy	Stainless Steel
9	Stopper	Stainless Steel	-
10	Stopper base	Steel	-
11	Blocco	Stainless Steel	-
12	Screw	Steel alloy	Stainless Steel
13	Shoche absorber (x2)	-	Steel alloy
14	Magnetic reed switch	-	Steel alloy
15	Angle adjustment	-	Aluminium
16	Mounting base	Aluminium alloy	
17	Base and lump	Aluminium alloy	-
18	Magnet	TME	Steel alloy
19	Magnet seat	-	Steel alloy
20	Rocker arm	-	Steel
21	Rocker arm seat	-	Steel

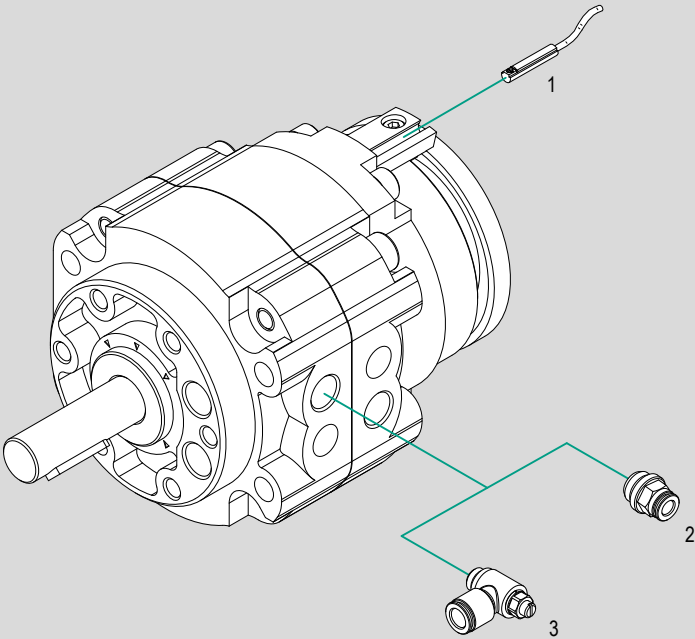
Accessories

1 - CYLINDERS

Type: **ARTM..**
Ø 4 ÷ 10



Type: **ARTM..**
Ø 12 ÷ 25



N.	Cylinder bore	Item	Description	Compliance	Matching				Code page	Data sheet page
					ARTM ARTMF	ARTMC ARTMFC	ARTML ARTMFL	ARTMLC ARTMFLC		
1	Ø 4 ÷ 25	ASC..	Magnetic reed switch C groove	-	-	●	-	●	1.50.90	1.110.30
2	Ø 4 ÷ 25	R..	Push-in fittings		●	●	●	●	4.2.1	
3	Ø 4 ÷ 25	V..C	Flow controls, for cylinders		●	●	●	●	4.94.1	

Key
● allowed matching; - not allowed matching

Main features

4 ÷ 10  **ARTM** 

Bores Ø Double acting Non magnetic Type

4 ÷ 10  **ARTMC** 

Bores Ø Double acting Magnetic Type

Main features

4 ÷ 10  **ARTML** 

Bores Ø Double acting Non magnetic Adjustable angle Type

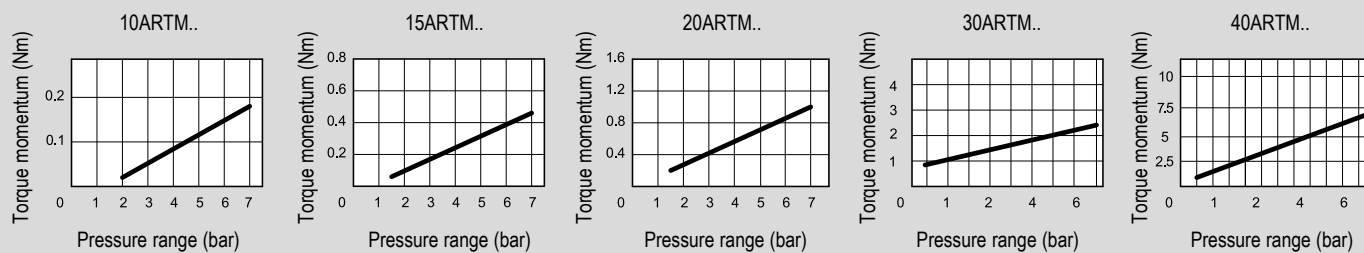
4 ÷ 10  **ARTMLC** 

Bores Ø Double acting Magnetic Adjustable angle Type

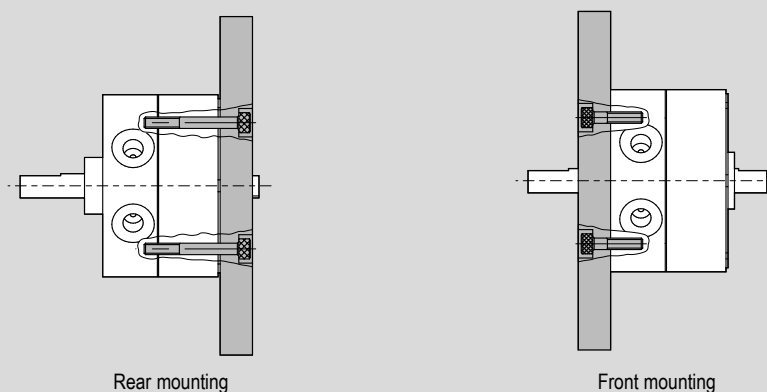
Technical data

Size		10	15	20	30	40
Bore		Ø 4	Ø 5	Ø 6	Ø 8	Ø 10
Fluid		Filtered compressed air with or without lubrication. Lubrication, if started, must be continued.				
Angle of rotation		90° - 180° - 270°				
Pressure range		1,5 ÷ 7 bar				
Temperature range		0°C ÷ +50°C				
Ports		M5				
Torque momentum (Nm) at 6 bar		0,14	0,38	0,81	1,8	3,8
Admissible kinetic energy (J)		0,0015	0,001	0,003	0,02	0,04
Weight (g)	ARTM	28	48	112	200	342
	ARTMC					
	ARTML	78	116	240	390	604
	ARTMLC					

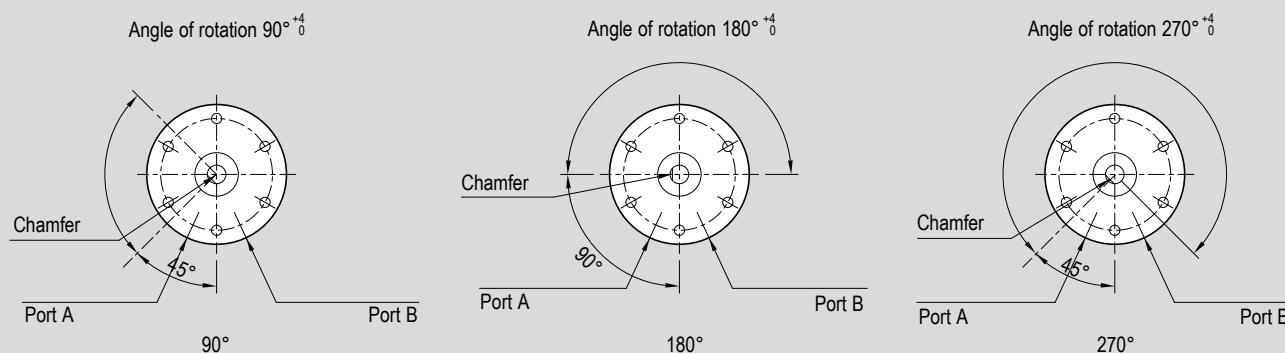
Output torque table



Assembly type

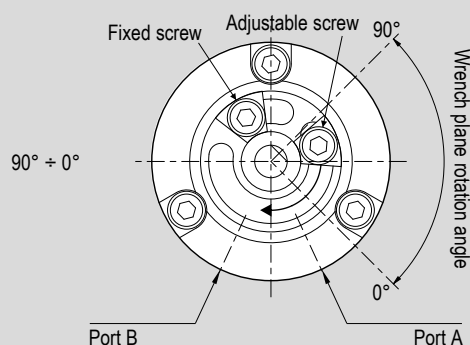
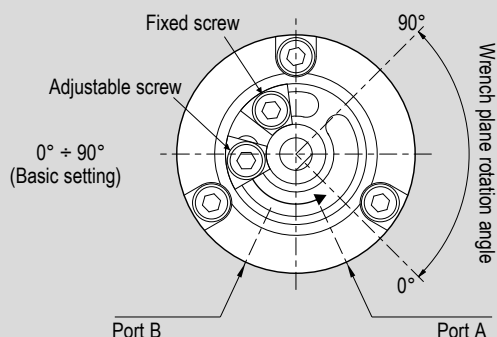


Angle of rotation

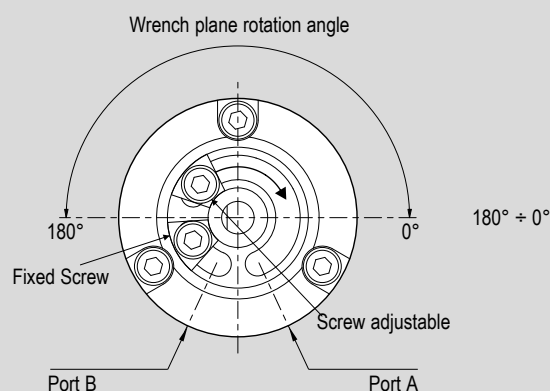
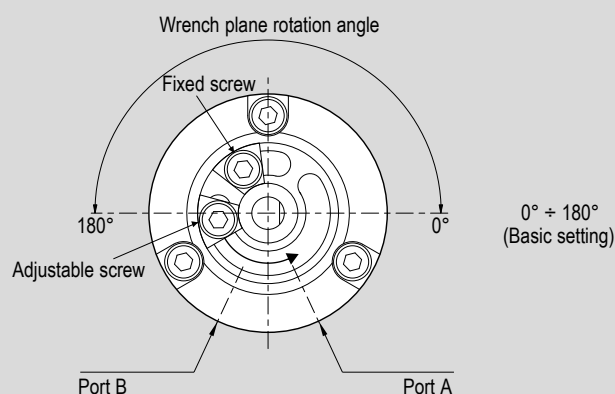


Rotation angle settings

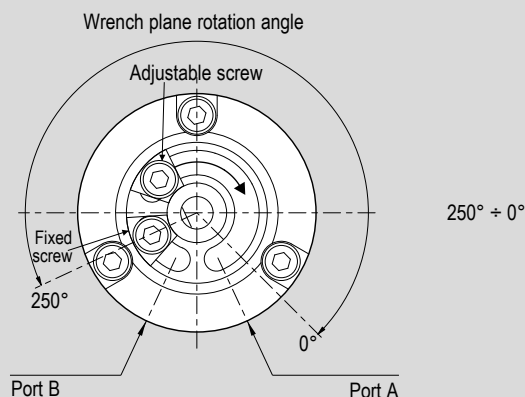
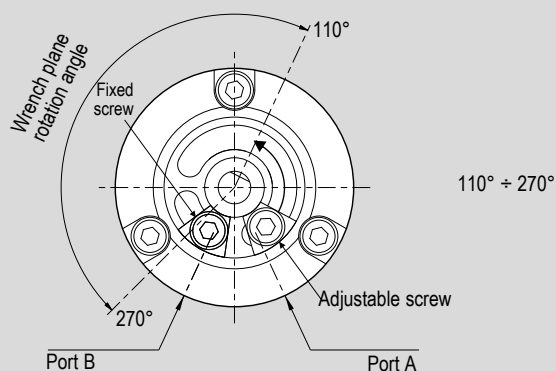
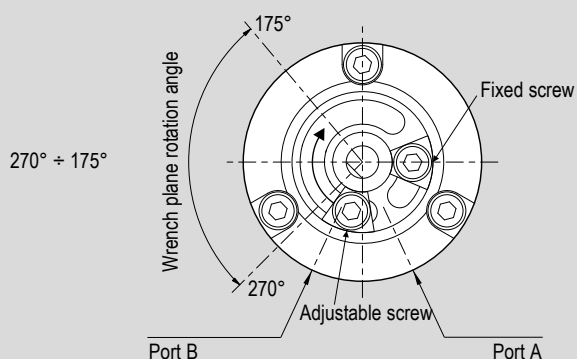
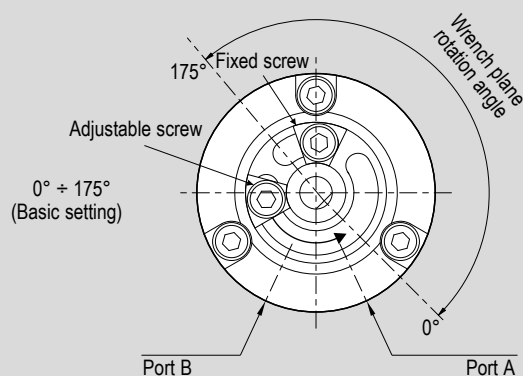
90° rotation setting



180° rotation setting

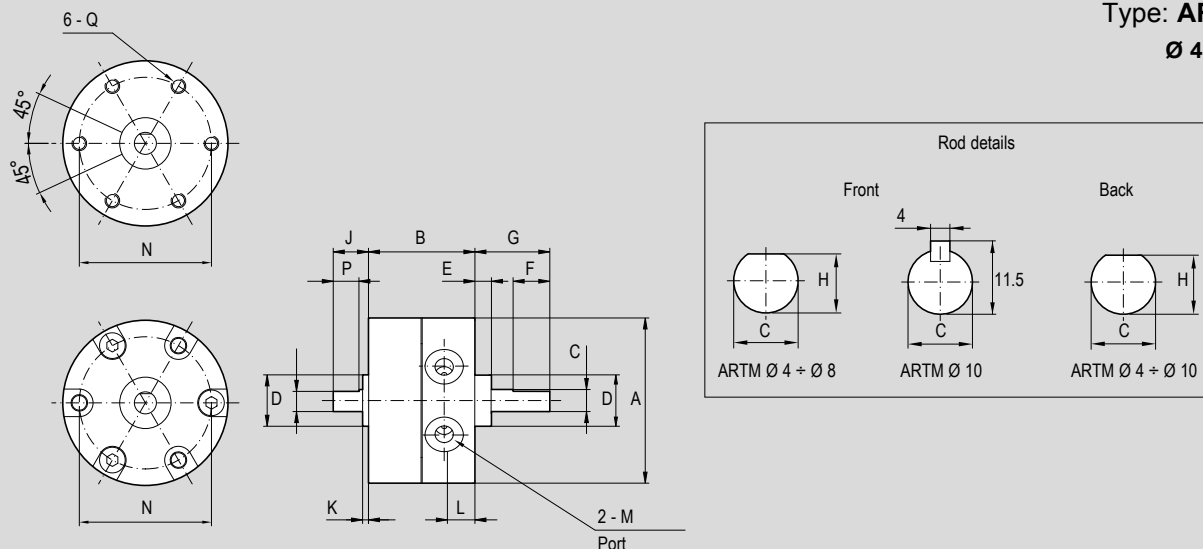


270° rotation setting



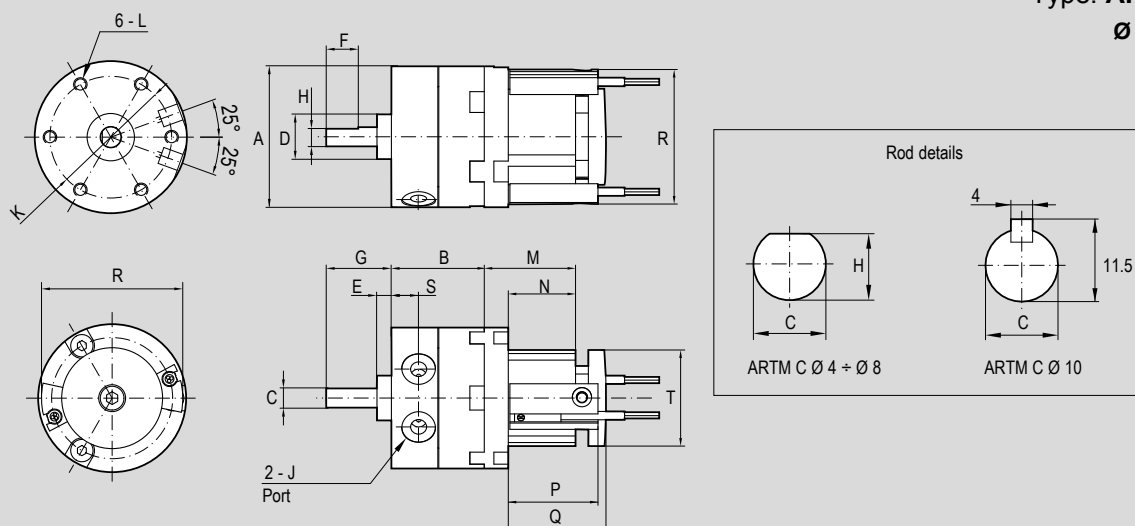
Dimensions

Type: **ARTM**
Ø 4 ÷ 10



Ø (mm)	size	ØA	B	ØC	ØD	E	F	G	H	P	J	K	L	M	ØN	Q
4	10	30	17	4	9	3	9	14	3,5	5	8	1	4,2	M5x0,8	24	M3x0,5
5	15	3	20,1	5	12	4	10	18	4,5	6	9	1,5	5	M5x0,8	29	M3x0,5
6	20	44	29,1	6	14	4,5	10	20,3	5,5	7	9,6	1,6	8,5	M5x0,8	36	M4x0,7
8	30	51	40	8	16	5	12	22	7,5	8	13	2	11	M5x0,8	43	M5x0,8
10	40	64	45	10	25	6,5	22	30	9	9	15	4,5	9,5	M5x0,8	56	M5x0,8

Type: **ARTMC**
Ø 4 ÷ 10

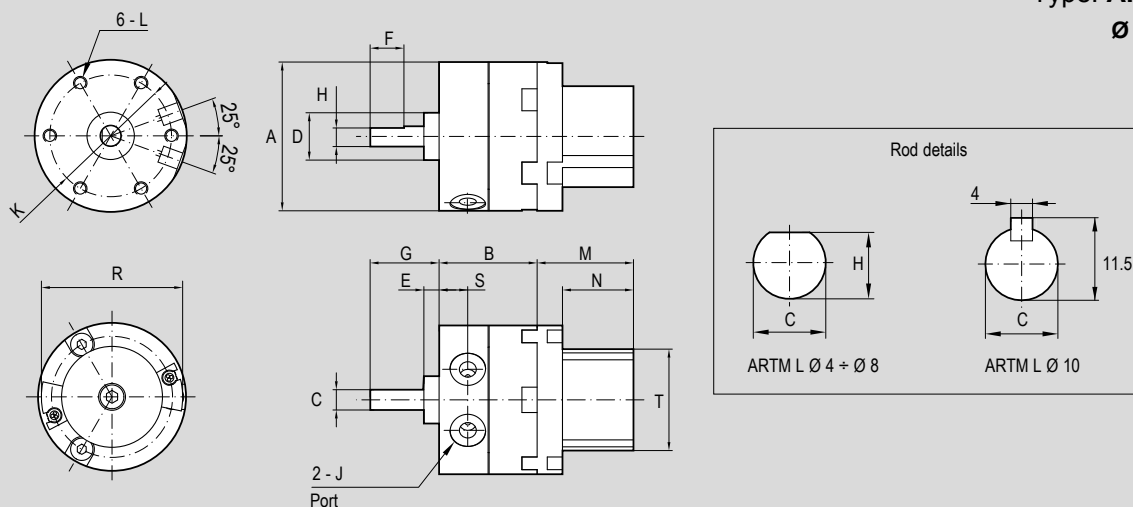


Ø (mm)	size	ØA	B	ØC	ØD	E	F	G	H	S	J	ØK	L	M	N	ØT	P	Q	ØR
4	10	30	17	4	9	3	9	14	3,5	4,2	M5x0,8	24	M3x0,5	24	18	18	23,3	24	29
5	15	35	20,1	5	12	4	10	18	4,5	5	M5x0,8	29	M3x0,5	28	22	24	27,3	29,5	34
6	20	44	29,1	6	14	4,5	10	20,3	5,5	8,5	M5x0,8	36	M4x0,7	28,5	21	30	28	30,5	42
8	30	51	40	8	16	5	12	22	7,5	11	M5x0,8	43	M5x0,8	32,5	24	34	30,8	34	47
10	40	64	45	10	25	6,5	22	30	-	9,5	M5x0,8	56	M5x0,8	34,5	26	34	33	36	47

Dimensions

Type: **ARTML**

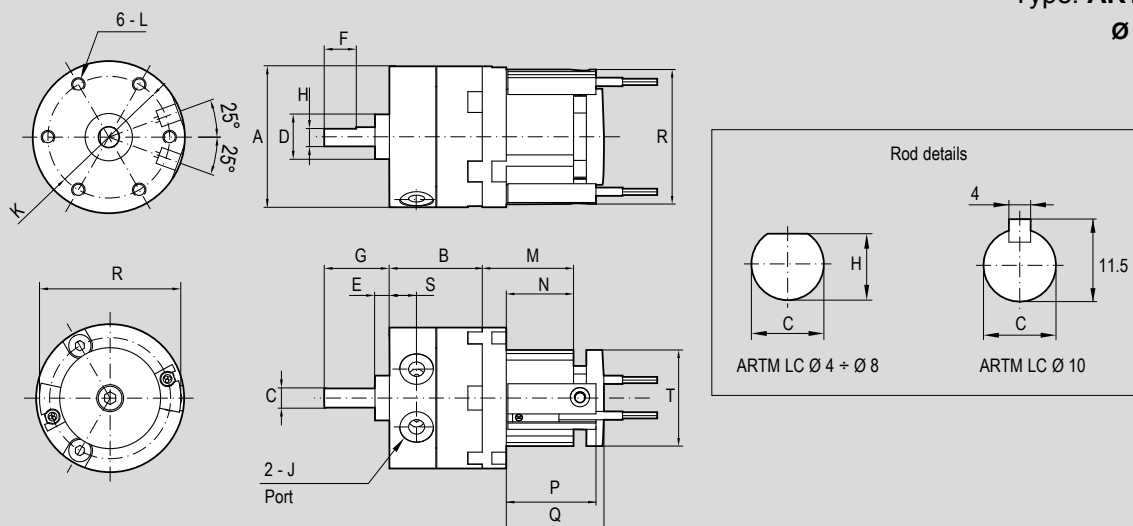
Ø 4 ÷ 10



Ø (mm)	size	ØA	B	ØC	ØD	E	F	G	H	S	J	K	L	M	N	ØT	ØR
4	10	30	17	4	9	3	9	14	3,5	4,2	M5x0,8	24	M3x0,5	24	18	18	29
5	15	35	20,1	5	12	4	10	18	4,5	5	M5x0,8	29	M3x0,5	28	22	24	34
6	20	44	29,1	6	14	4,5	10	20,3	5,5	8,5	M5x0,8	36	M4x0,7	28,5	21	30	42
8	30	51	40	8	16	5	12	22	7,5	11	M5x0,8	43	M5x0,8	32,5	24	34	47
10	40	64	45	10	25	6,5	22	30	-	9,5	M5x0,8	56	M5x0,8	34,5	26	34	47

Type: **ARTMLC**

Ø 4 ÷ 10



Ø (mm)	size	ØA	B	ØC	ØD	E	F	G	H	S	J	ØK	L	M	N	ØT	P	Q	ØR
4	10	30	17	4	9	3	9	14	3,5	4,2	M5x0,8	24	M3x0,5	24	18	18	23,3	24	29
5	15	35	20,1	5	12	4	10	18	4,5	5	M5x0,8	29	M3x0,5	28	22	24	27,3	29,5	34
6	20	44	29,1	6	14	4,5	10	20,3	5,5	8,5	M5x0,8	36	M4x0,7	28,5	21	30	28	30,5	42
8	30	51	40	8	16	5	12	22	7,5	11	M5x0,8	43	M5x0,8	32,5	24	34	30,8	34	47
10	40	64	45	10	25	6,5	22	30	-	9,5	M5x0,8	56	M5x0,8	34,5	26	34	33	36	47

Main features

4 ÷ 10  **ARTMF** 

Bores Ø Double acting Non magnetic Type

4 ÷ 10  **ARTMFC** 

Bores Ø Double acting Magnetic Type

Main features

4 ÷ 10  **ARTMFL** 

Bores Ø Double acting Non magnetic Adjustable angle Type

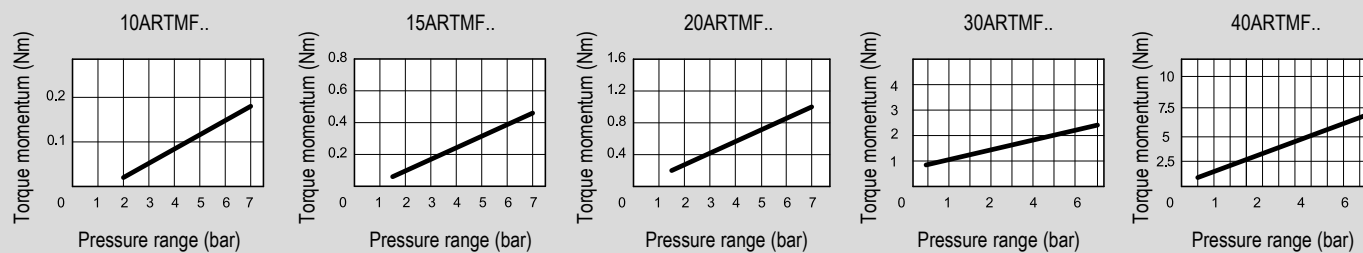
4 ÷ 10  **ARTMFLC** 

Bores Ø Double acting Magnetic Adjustable angle Type

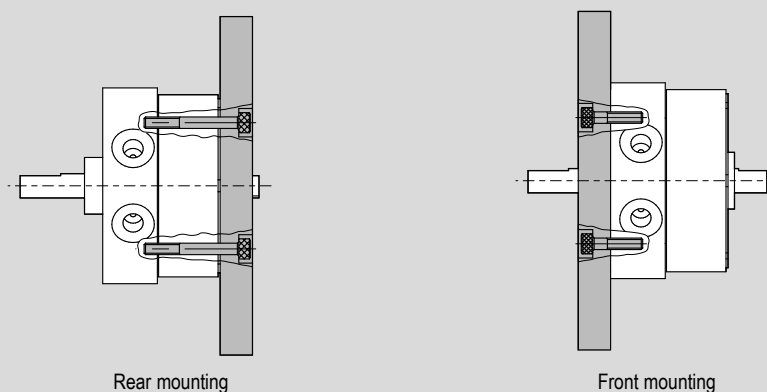
Technical data

Size	10	15	20	30	40
Bore	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10
Fluid	Filtered compressed air with or without lubrication. Lubrication, if started, must be continued.				
Angle of rotation	90° - 180° - 270°				
Pressure range	1,5 ÷ 7 bar				
Temperature range	0°C ÷ +50°C				
Ports	M5				
Torque momentum (Nm) at 6 bar	0,14	0,38	0,81	1,8	3,8
Admissible kinetic energy (J)	0,0015	0,001	0,003	0,02	0,04
Weight (g)	ARTMF	41	70	138	268
	ARTMFC	91	138	266	468
	ARTMFL				
	ARTMFLC				

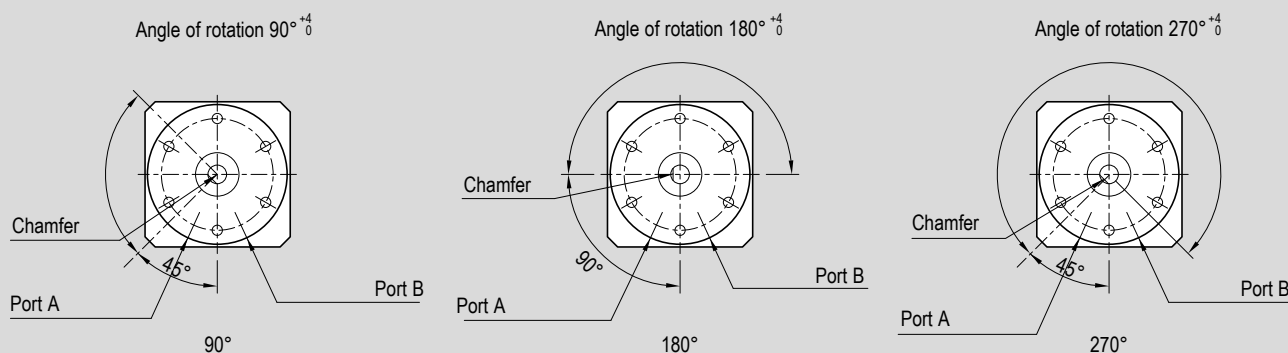
Output torque table



Assembly type

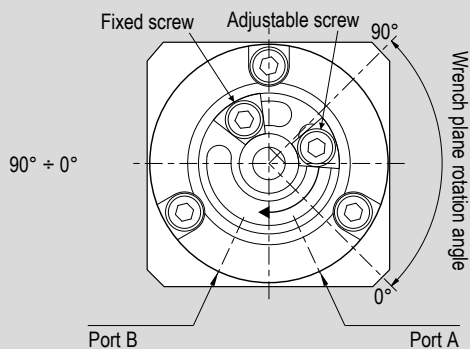
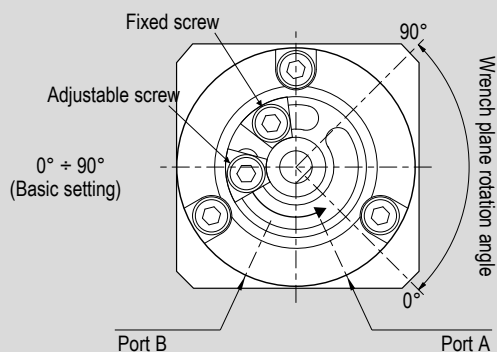


Angle of rotation

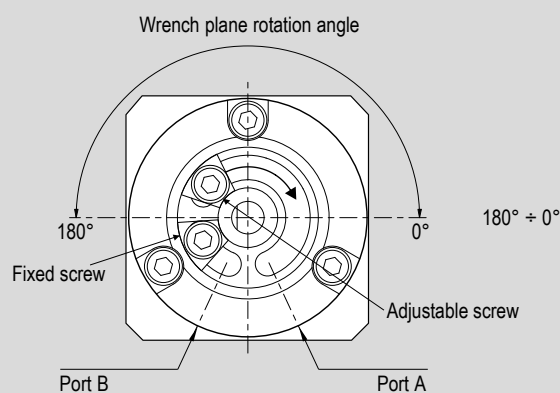
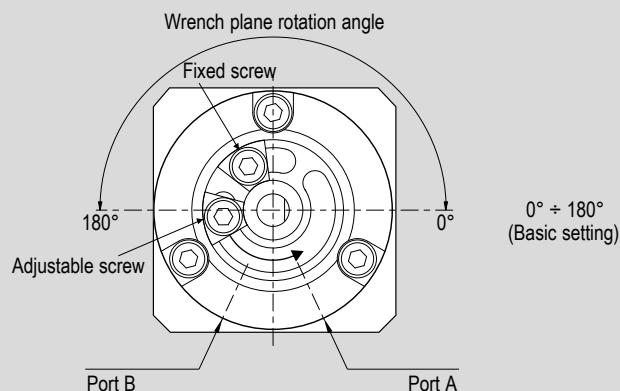


Rotation angle settings

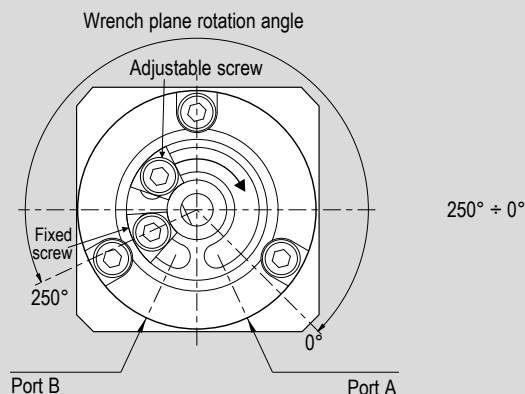
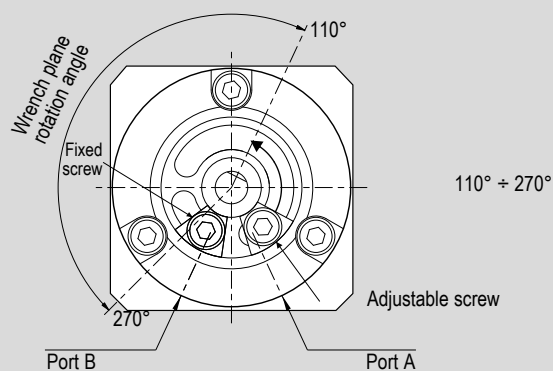
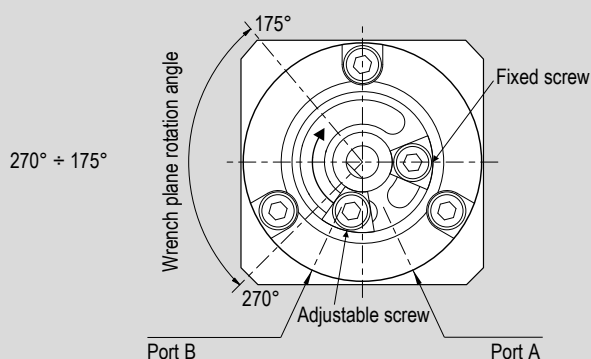
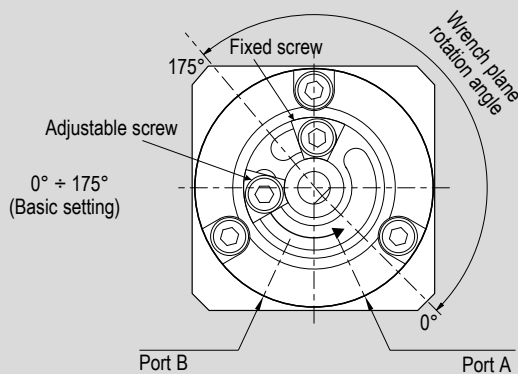
90° rotation setting



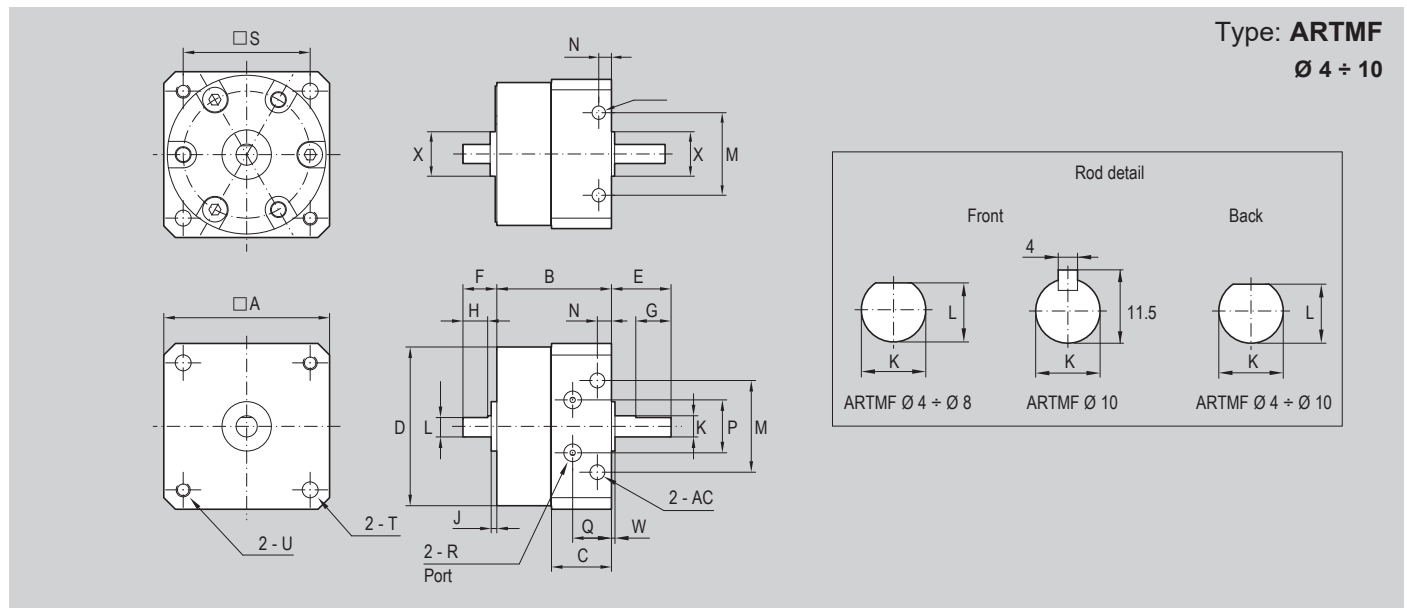
180° rotation setting



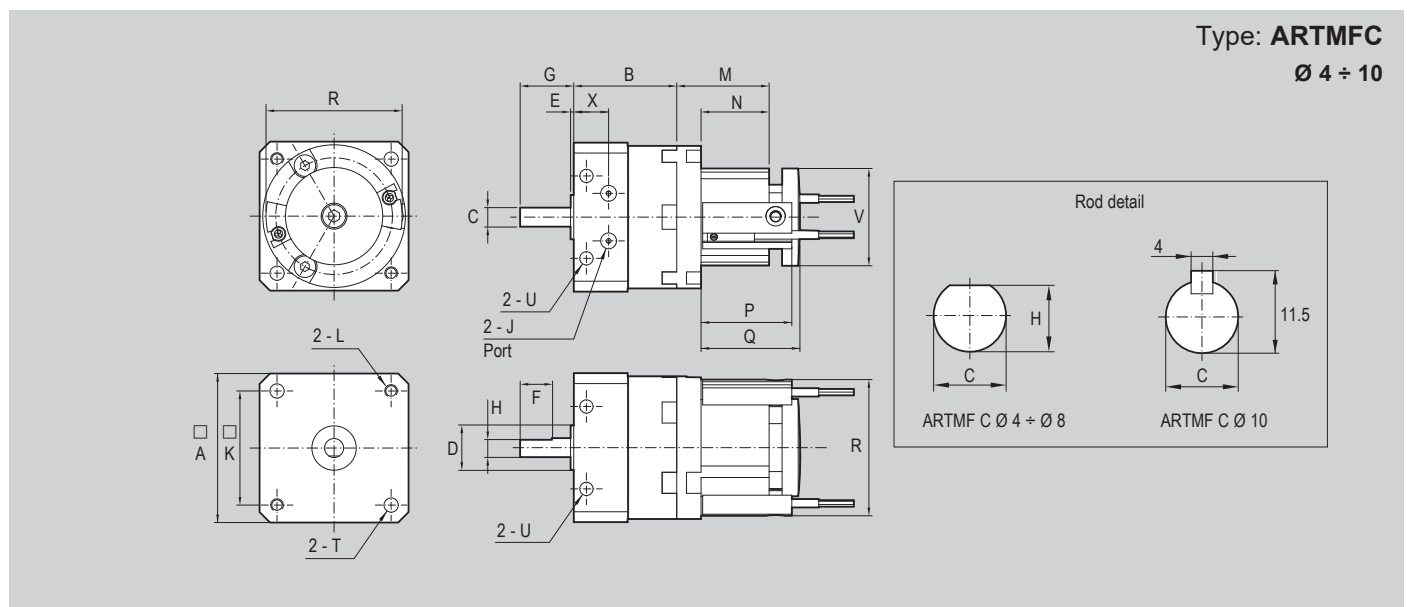
270° rotation setting



Dimensions



Ø (mm)	size	□A	B	C	ØD	E	F	G	H	ØX	J	ØK	L	M	N	AC	P	Q	R	□S	T	U	V	W
4	10	31	22	13,3	30	14	8	9	5	9	1	4	3,5	17	3	3,5	10,5	9,2	M5x0,8	25	3,5	M3x0,5	24	1
5	15	36	25,7	15,5	35	18	9	10	6	12	1,5	5	4,5	21	3	3,5	10,5	10,5	M5x0,8	29	3,5	M3x0,5	29	1,5
6	20	44	33,6	19	44	20	10	10	7	14	1,6	6	5,5	26	4	4,2	15	13	M5x0,8	36	4,5	M4x0,7	36	1
8	30	52	47,5	27,2	51	22	13	12	8	16	2	8	7,5	29	4,5	5,5	13,5	18,5	M5x0,8	42	5,5	M5x0,8	43	2
10	40	64	53	30,4	64	30	15	22	9	25	4,5	10	9	38	5	5,5	19	14	M5x0,8	52	5,5	M5x0,8	56	3

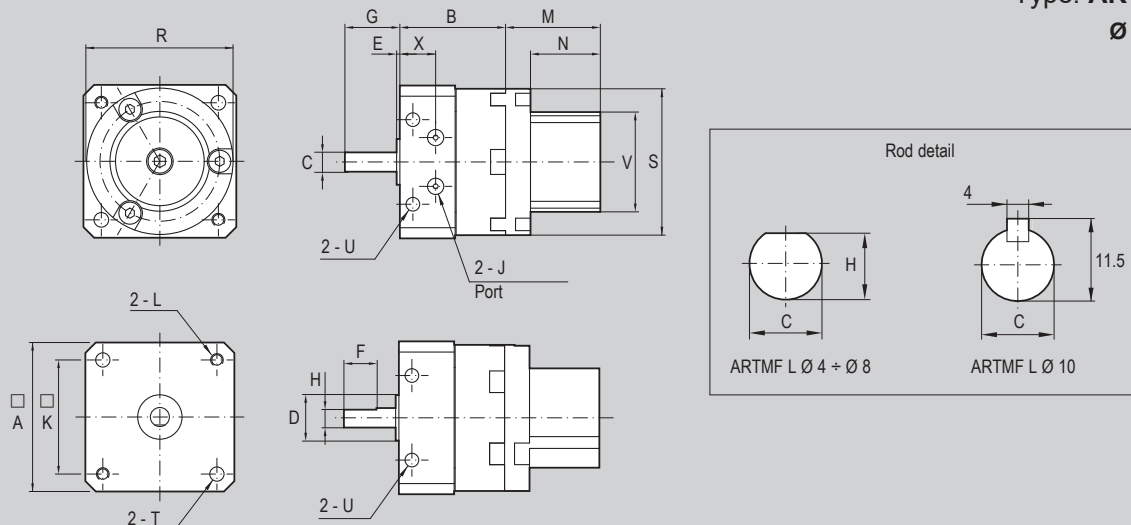


Ø (mm)	size	□A	B	ØC	ØD	E	F	G	H	X	J	□K	L	M	N	ØV	P	Q	ØR	S	T	U
4	10	31	22	4	9	1	9	14	3,5	9,2	M5x0,8	25	M3x0,5	24	18	18	23,3	24	29	30	3,5	3,5
5	15	36	25,7	5	12	1,5	10	18	4,5	10,5	M5x0,8	29	M3x0,5	28	22	24	27,3	29,5	34	35	3,5	3,5
6	20	44	33,6	6	14	1	10	20	5,5	13	M5x0,8	36	M4x0,7	28,5	21	30	28	30,5	42	44	4,5	4,2
8	30	52	47,5	8	16	2	12	22	7,5	18,5	M5x0,8	42	M5x0,8	32,5	24	34	30,8	34	47	51	5,5	5,5
10	40	64	53	10	25	3	22	30	-	14	M5x0,8	52	M5x0,8	34,5	26	34	33	36	47	64	5,5	5,5

Dimensions

Type: **ARTMFL**

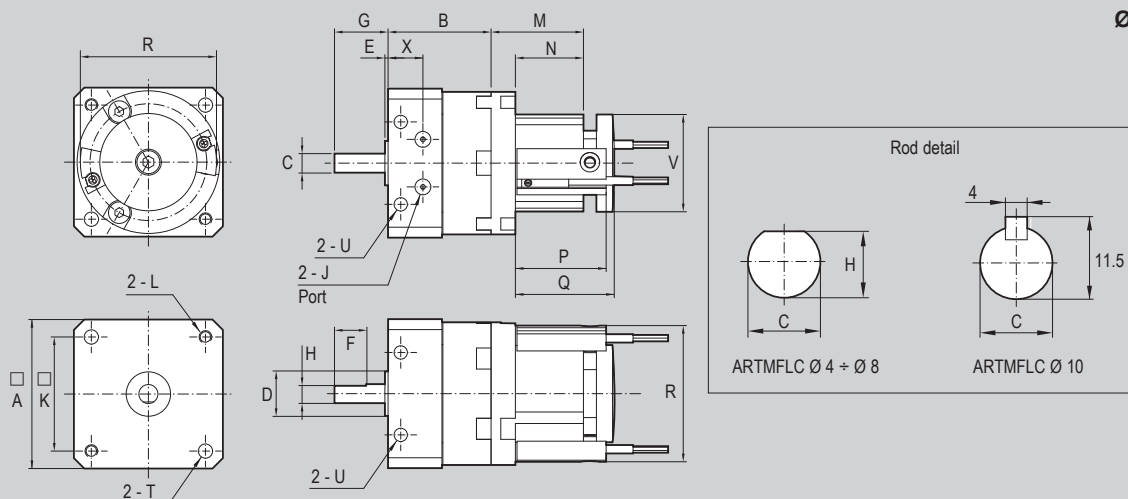
Ø 4 ÷ 10



Ø (mm)	size	□A	B	ØC	ØD	E	F	G	H	X	J	□K	L	M	N	ØV	P	Q	ØR	ØS	T	U
4	10	31	22	4	9	1	9	14	3,5	9,2	M5x0,8	25	M3x0,5	24	18	18	23,3	24	29	30	3,5	3,5
5	15	36	25,7	5	12	1,5	10	18	4,5	10,5	M5x0,8	29	M3x0,5	28	22	24	27,3	29,5	34	35	3,5	3,5
6	20	44	33,6	6	14	1	10	20	5,5	13	M5x0,8	36	M4x0,7	28,5	21	30	28	30,5	42	44	4,5	4,2
8	30	52	47,5	8	16	2	12	22	7,5	18,5	M5x0,8	42	M5x0,8	32,5	24	34	30,8	34	47	51	5,5	5,5
10	40	64	53	10	25	3	22	30	-	14	M5x0,8	52	M5x0,8	34,5	26	34	33	36	47	64	5,5	5,5

Type: **ARTMFLC**

Ø 4 ÷ 10



Ø (mm)	size	□A	B	ØC	ØD	E	F	G	H	X	J	□K	L	M	N	ØV	P	Q	ØR	ØS	T	U
4	10	31	22	4	9	1	9	14	3,5	9,2	M5x0,8	25	M3x0,5	24	18	18	23,3	24	29	30	3,5	3,5
5	15	36	25,7	5	12	1,5	10	18	4,5	10,5	M5x0,8	29	M3x0,5	28	22	24	27,3	29,5	34	35	3,5	3,5
6	20	44	33,6	6	14	1	10	20	5,5	13	M5x0,8	36	M4x0,7	28,5	21	30	28	30,5	42	44	4,5	4,2
8	30	52	47,5	8	16	2	12	22	7,5	18,5	M5x0,8	42	M5x0,8	32,5	24	34	30,8	34	47	51	5,5	5,5
10	40	64	53	10	25	3	22	30	-	14	M5x0,8	52	M5x0,8	34,5	26	34	33	36	47	64	5,5	5,5

Main features

12 ÷ 25



ARTM

Bores Ø

Double acting
Non magnetic

Type



12 ÷ 25



ARTMC

Bores Ø

Double acting
Magnetic

Type



Main features

12 ÷ 25



ARTML

Bores Ø

Double acting
Non magnetic
Adjustable angle

Type



12 ÷ 25



ARTMLC

Bores Ø

Double acting
Magnetic
Adjustable angle

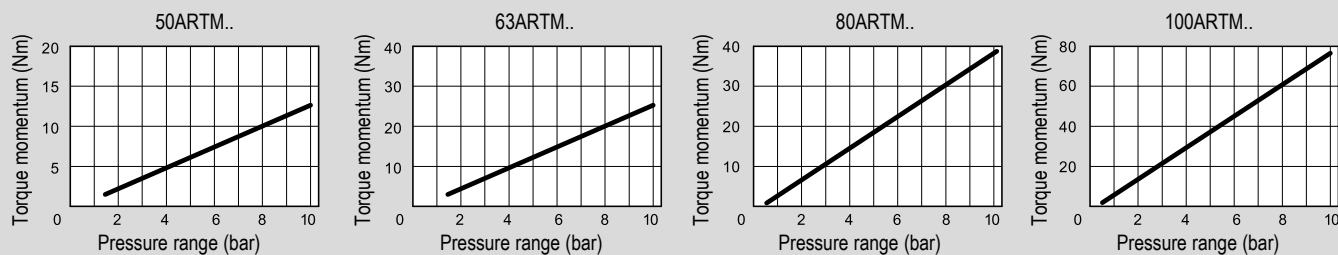
Type



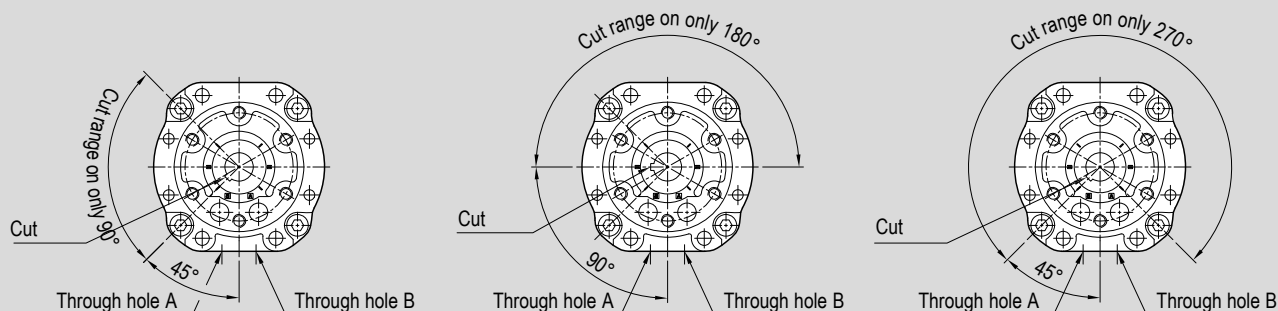
Technical data

Size		50	63	80	100
Bore		Ø 12	Ø 15	Ø 17	Ø 25
Fluid		Filtered compressed air with or without lubrication. Lubrication, if started, must be continued.			
Angle of rotation		90° - 180° - 270°			
Pressure range		1,5 ÷ 7 bar			
Temperature range		0°C ÷ +50°C			
Ports		1/8"		1/4"	
Torque momentum (Nm) at 6 bar		5	10	18	35
Admissible kinetic energy (J)		0,082	0,12	0,39	0,6
Weight (g)	ARTM ARTMC	760	1290	1920	3560
	ARTML ARTMLC	1100	1500	2300	3900

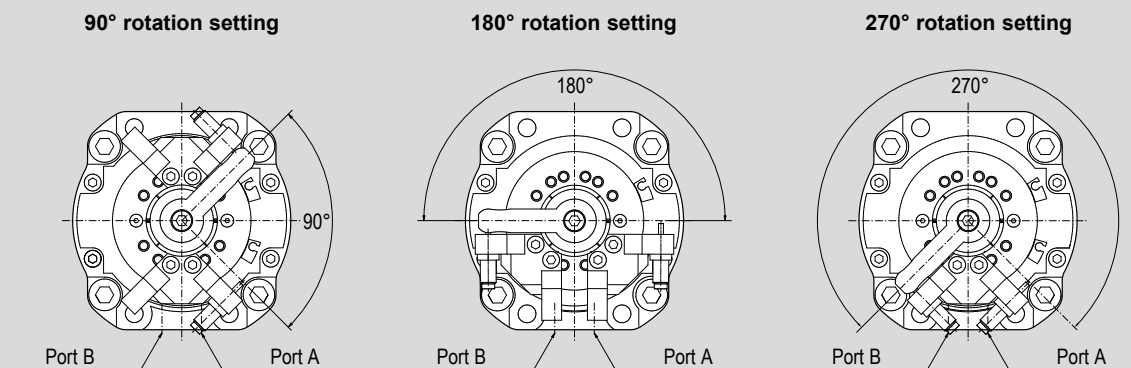
Output torque table



Angle of rotation

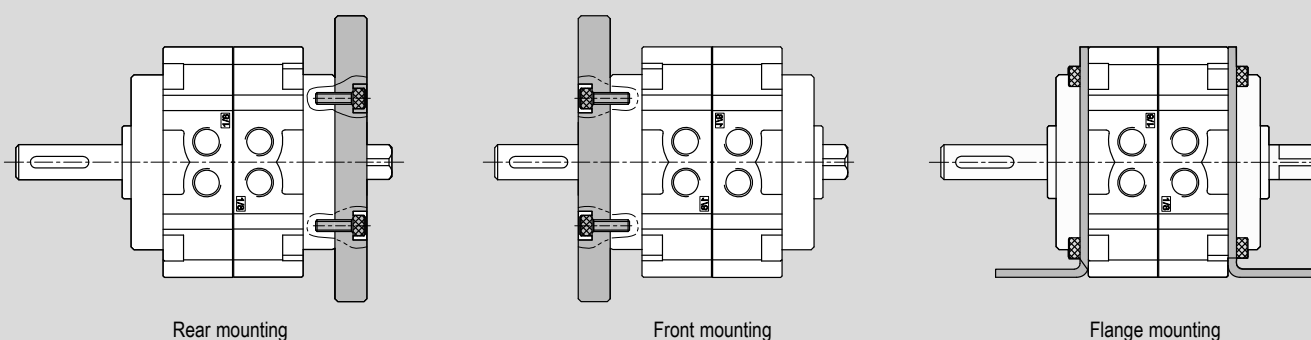


Angle of rotation*

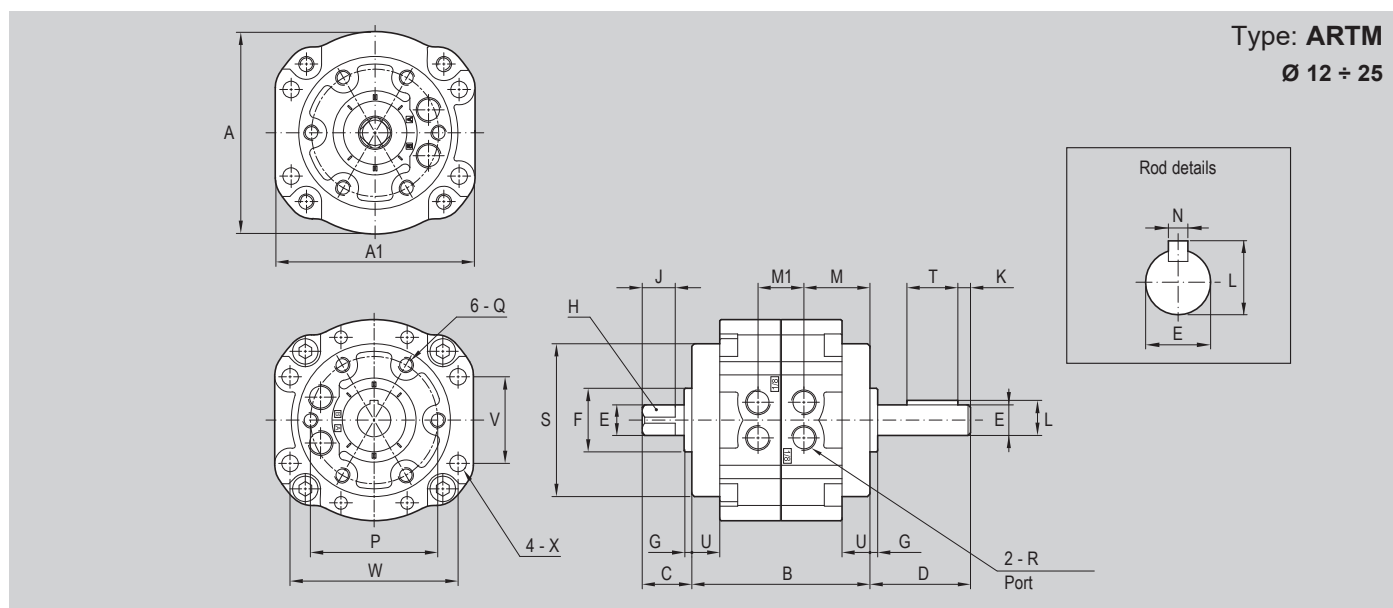


*With shock absorbers for 10° rotation adjustment

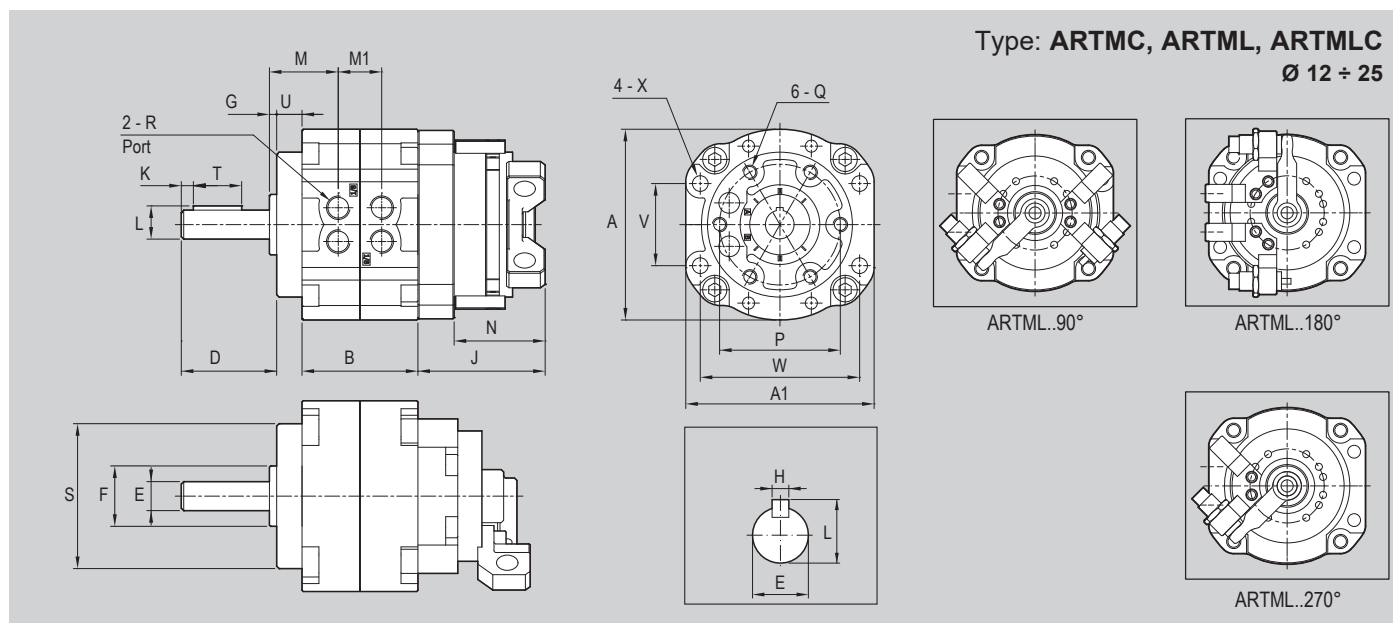
Assembly type



Dimensions



Ø (mm)	size	ØA	A1	B	C	D	ØE	ØF	G	H	N	J	K	L	M	M1	ØP	Q	R	ØS	T	U	V	W	ØX
12	50	79	78	70	19,5	39,5	12	25	3	10	4	13	5	13,5	26	18,2	50	M6x1,0	RC1/8"	60	20	11	34	66	6,5
15	63	98	98	80	21	45	15	28	3	12	5	14	5	17	28,9	22,2	60	M8x1,25	RC1/8"	75	25	14	39	83	9
17	80	110	110	90	23,5	53,5	17	30	3	13	5	16	5	19	30	30,2	70	M8x1,25	RC1/4"	88	41	15	48	94	9
25	100	140	140	103	30	65	25	45	4	19	7	22	5	28	35,4	32,2	80	M10x1,5	RC1/4"	108	40	11,5	60	120	11



Ø (mm)	size	ØA	A1	B	D	ØE	ØF	G	H	J	K	L	M	M1	N	ØP	Q	R	ØS	T	U	V	W	ØX
12	50	79	78	48	50,5	12	25	3	4	52,7	5	13,5	29	18	37,7	50	M6x1,0	RC1/8"	60	20	11	34	66	6,5
15	63	98	98	52	59	15	28	3	5	56,4	5	17	31,9	22,2	37,7	60	M8x1,25	RC1/8"	75	25	14	39	83	9
17	80	110	110	60	68,5	17	30	3	5	58,9	5	19	33	30	39,2	70	M8x1,25	RC1/4"	88	36	15	48	94	9
25	100	140	140	80	76,5	25	45	4	7	62,9	5	28	39,4	32,2	39,2	90	M10x1,5	RC1/4"	108	40	11,5	60	120	11

Magnetic reed switch C groove ASC..

	For cylinder Ø mm	Code	Item	Cylinder matching
	4 ÷ 25	070248 	ASC1C525	ARTMC
		070249	ASC7N2M8	ARTMLC
		070382	ASC7M2M8	ARTMFC ARTMFLC