ROTARY VANE
Cylinders

Find out our
key products

- **Solution for most applications**
- **Easy and intuitive choice**
- **Excellent value for money**
- **Wide availability**
- **Fast delivery**

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Rotary Vane Cylinders

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.

RoHS

REACH compliant

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°

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Rotary Vane Cylinders

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°

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Rotary Vane Cylinders

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-magentic
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

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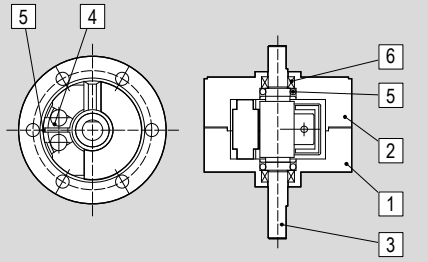
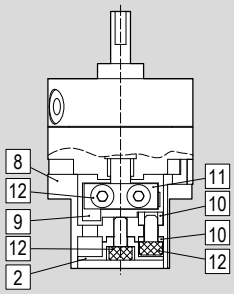
Materiali standard

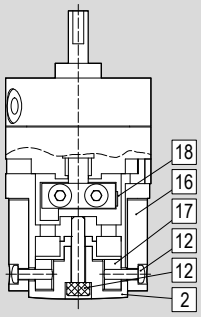
Type: **ARTM**
ARTMF
Ø 4 ÷ 10



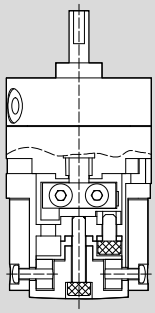
Type: **ARTML**
ARTMFL
Ø 4 ÷ 10



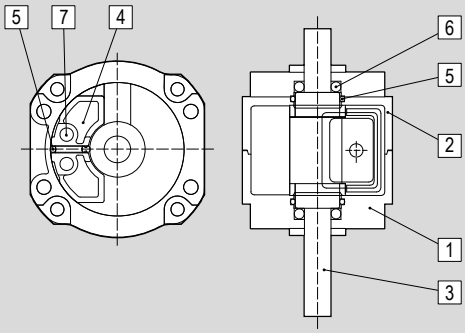
Type: **ARTMC**
ARTMFC
Ø 4 ÷ 10



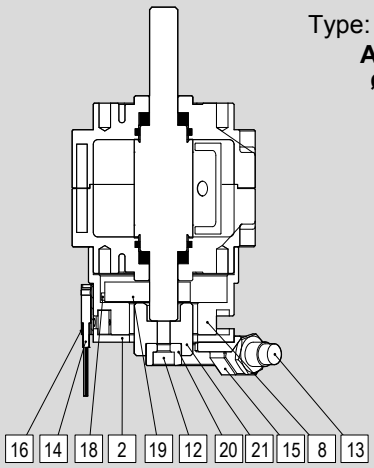
Type: **ARTMLC**
ARTMFLC
Ø 4 ÷ 10



Type: **ARTM**
ARTMC
Ø 12 ÷ 25



Type: **ARTML**
ARTMLC
Ø 12 ÷ 25



Posizione	Descrizione	Materiale	
		Ø 4 ÷ 10	Ø 20 ÷ 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

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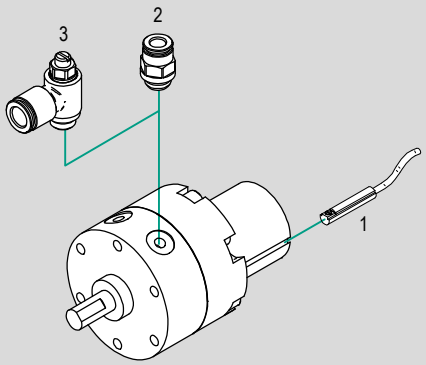
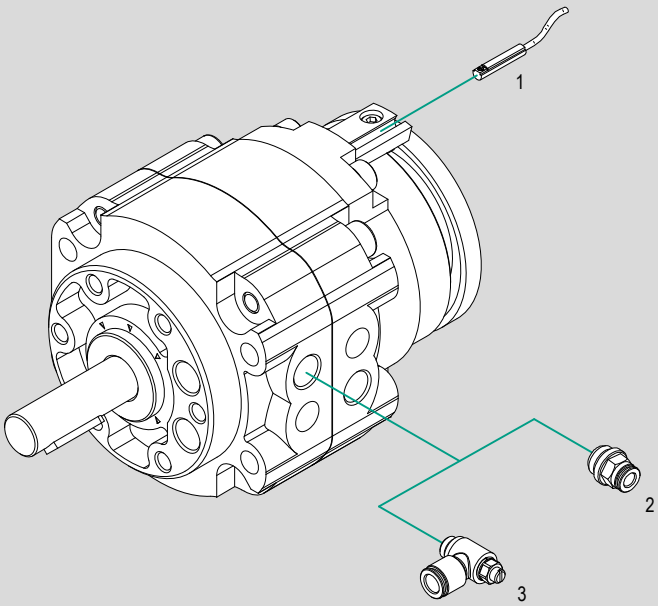
Accessories

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

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Rotary Vane Cylinders
Series ARTM, ARTMC, ARTML, ARTMLC

Main features

4 ÷ 10
Bores Ø


Double acting
Non magnetic

ARTM
Type

Main features

4 ÷ 10
Bores Ø


Double acting
Non magnetic
Adjustable angle

ARTML
Type

4 ÷ 10
Bores Ø


Double acting
Magnetic

ARTMC
Type

4 ÷ 10
Bores Ø


Double acting
Magnetic
Adjustable angle

ARTMLC
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 ARTMLC	78	116	240	390	604

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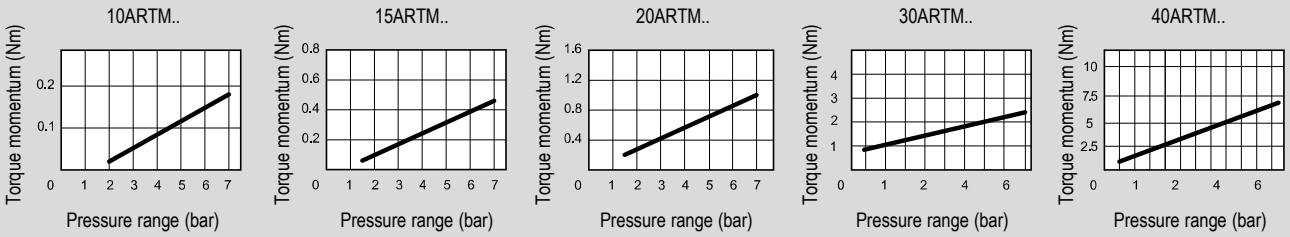
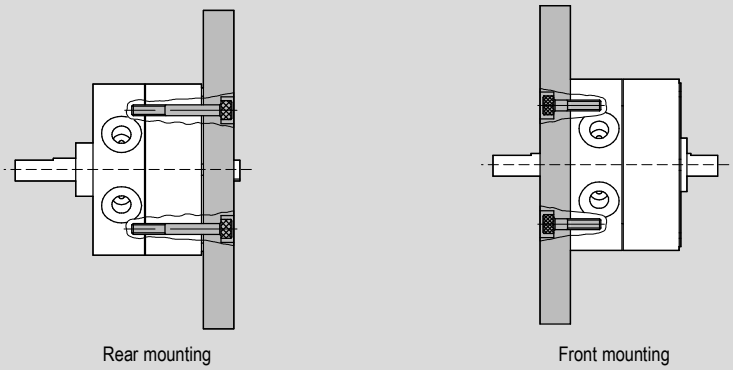
Rotary Vane Cylinders
Series ARTM, ARTMC, ARTML, ARTMLC

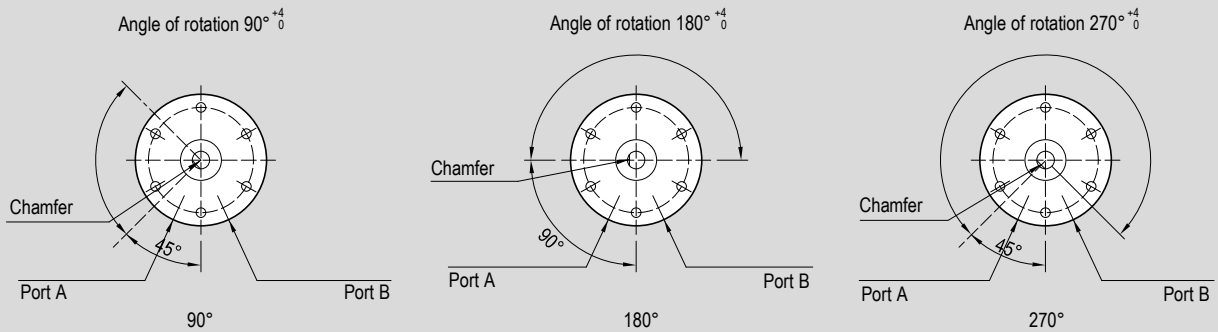
Output torque table



Assembly type



Angle of rotation



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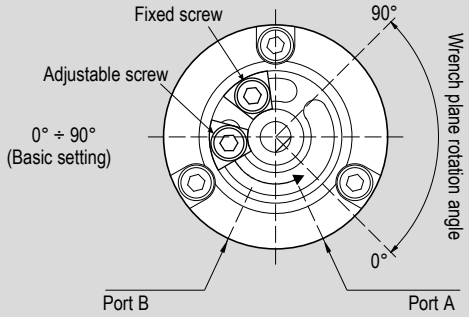
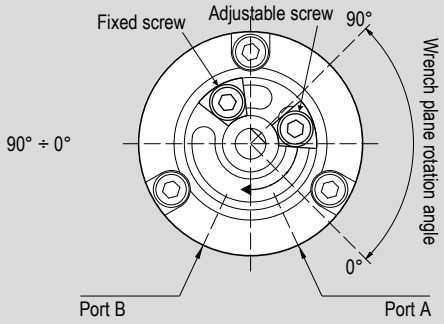
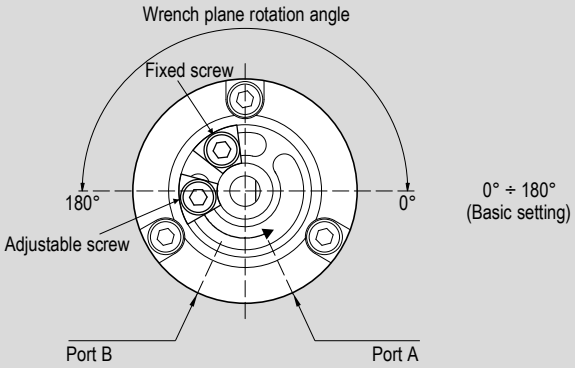
Rotation angle settings

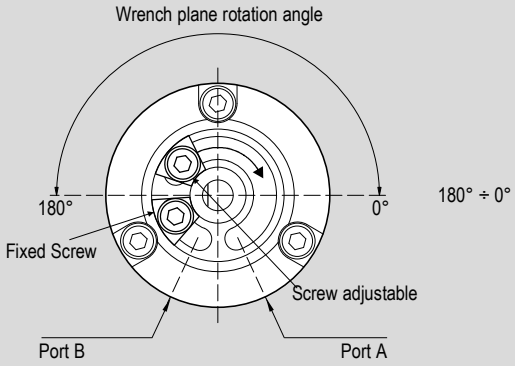
90° rotation setting



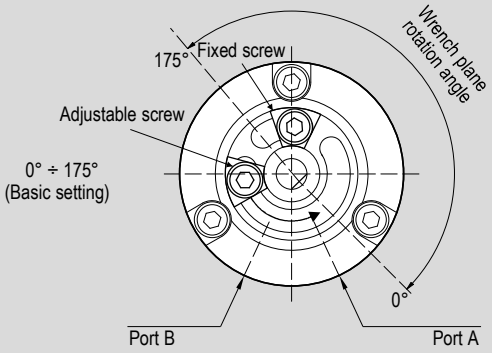


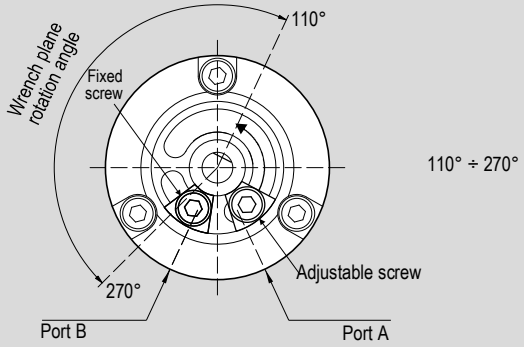
180° rotation setting

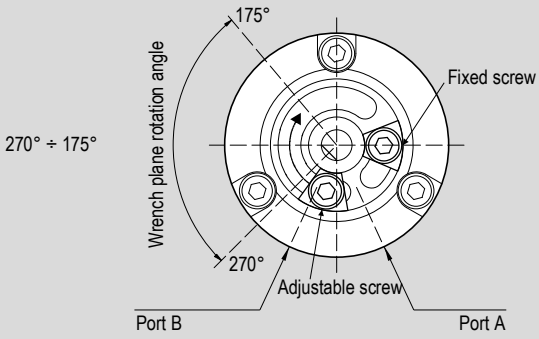


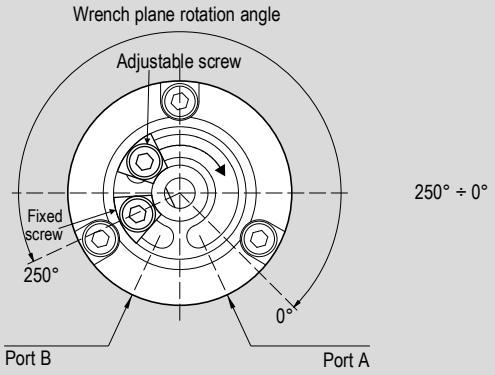


270° rotation setting









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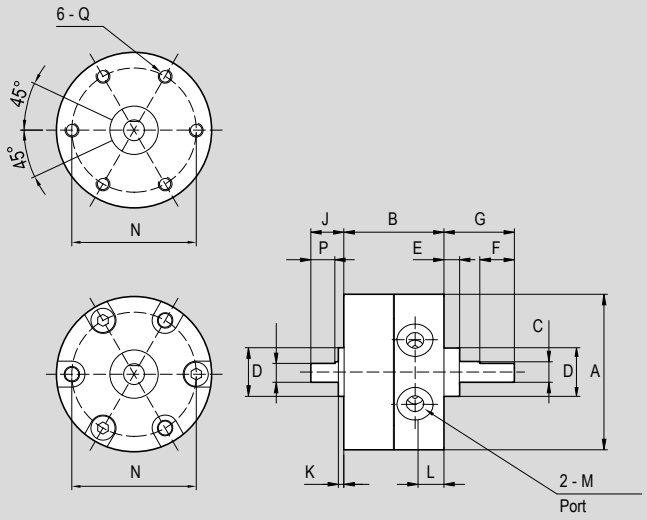
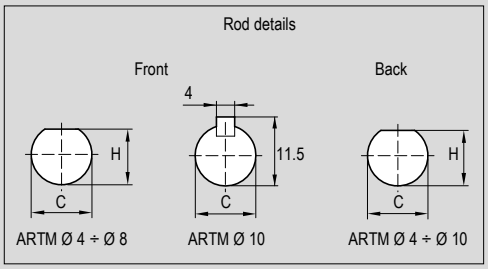
Dimensions

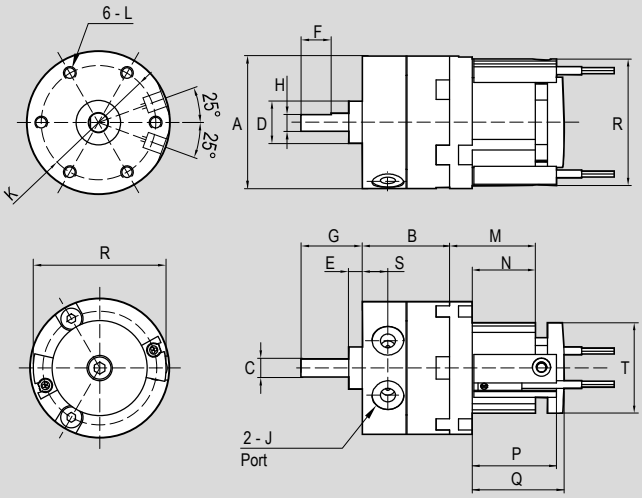
Type: **ARTM**
Ø 4 ÷ 10

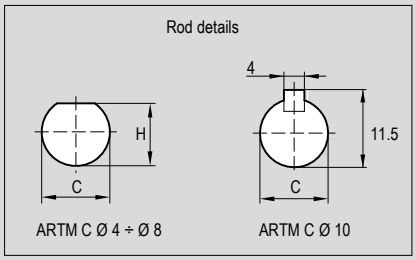




Ø (mm)	size	ØA	B	ØC	ØD	E	F	G	H	P	J	K	L	M	ØN	Q
4	10	30	17	4	9	3	9	14	3,5	5	8	1	4,2	M5x0,8	24	M3x0,5
5	15	3	20,1	5	12	4	10	18	4,5	6	9	1,5	5	M5x0,8	29	M3x0,5
6	20	44	29,1	6	14	4,5	10	20,3	5,5	7	9,6	1,6	8,5	M5x0,8	36	M4x0,7
8	30	51	40	8	16	5	12	22	7,5	8	13	2	11	M5x0,8	43	M5x0,8
10	40	64	45	10	25	6,5	22	30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

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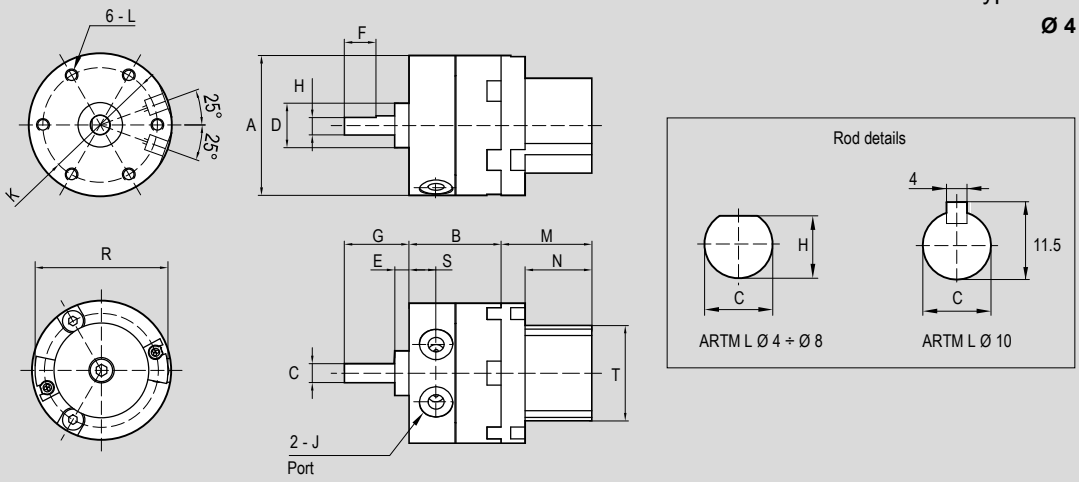
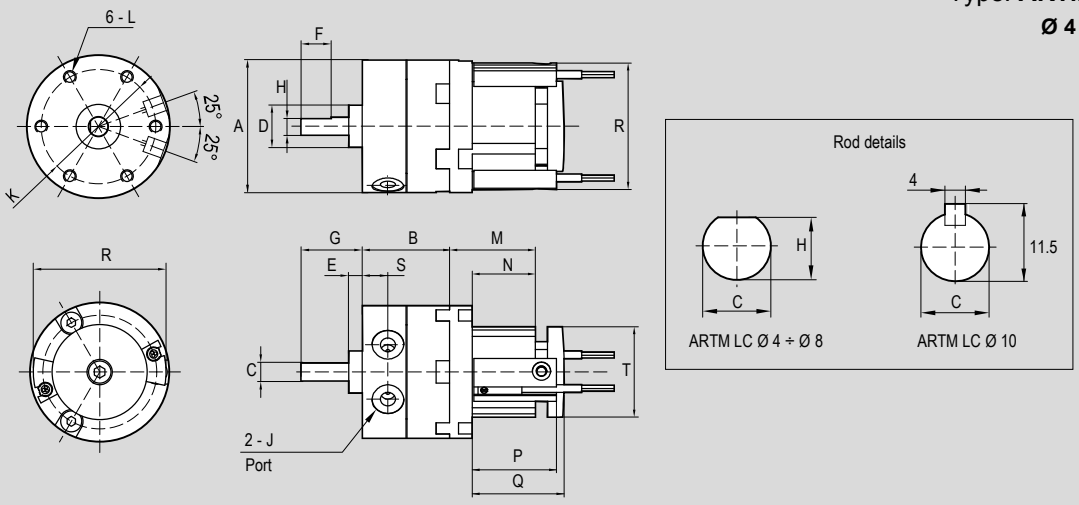
Dimensions

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

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Rotary Vane Cylinders

Series ARTMF, ARTMFC, ARTMFL, ARTMFLC

Main features

4 ÷ 10

Bores Ø

Double acting
Non magnetic

ARTMF

Type

4 ÷ 10

Bores Ø

Double acting
Magnetic

ARTMFC

Type

Main features

4 ÷ 10

Bores Ø

Double acting
Non magnetic
Adjustable angle

ARTMFL

Type

4 ÷ 10

Bores Ø

Double acting
Magnetic
Adjustable angle

ARTMFLC

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	438
	ARTMFC ARTMFL ARTMFLC	91	138	266	468	700

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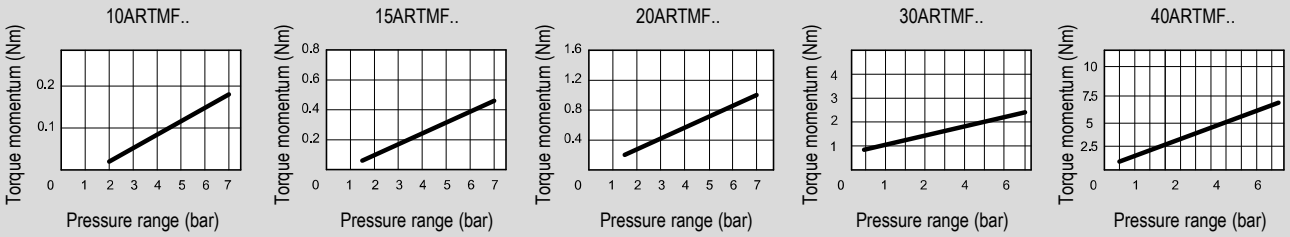
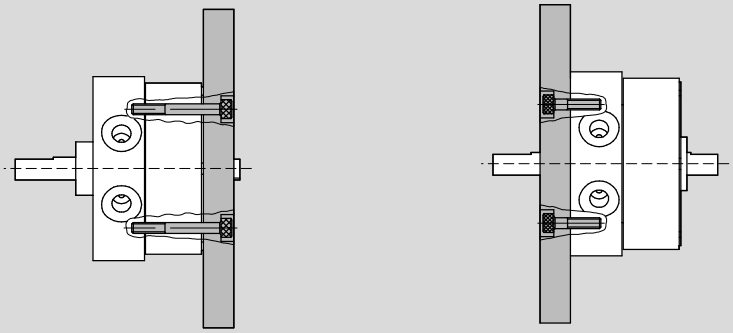
Rotary Vane Cylinders
Series ARTMF, ARTMFC, ARTMFL, ARTMFLC

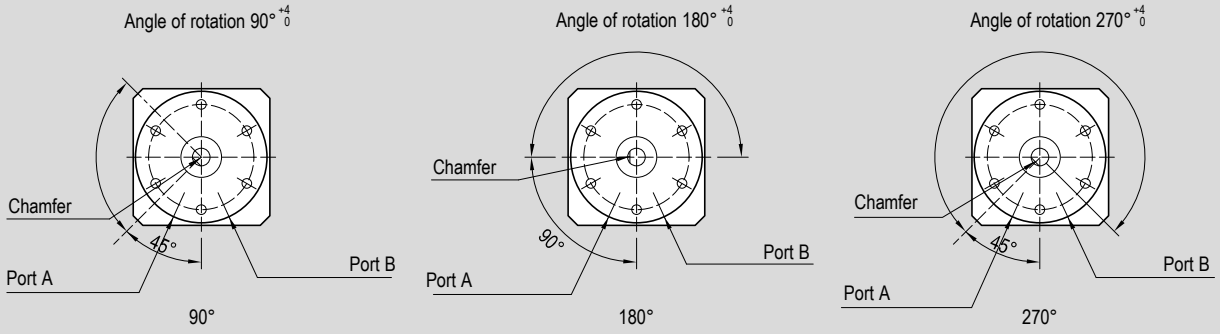
Output torque table



Assembly type



Angle of rotation



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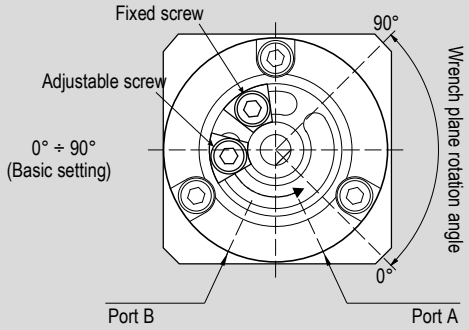
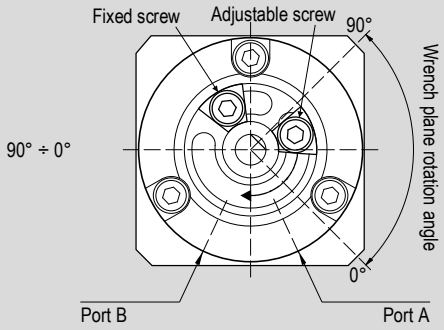
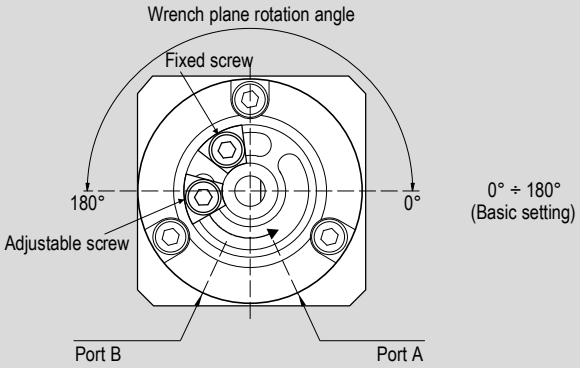
Rotation angle settings

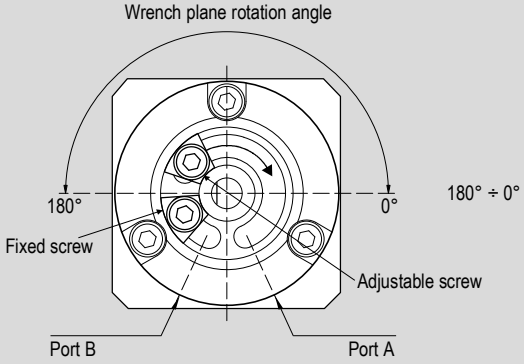
90° rotation setting



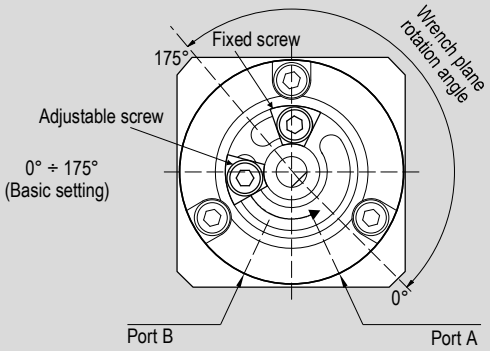


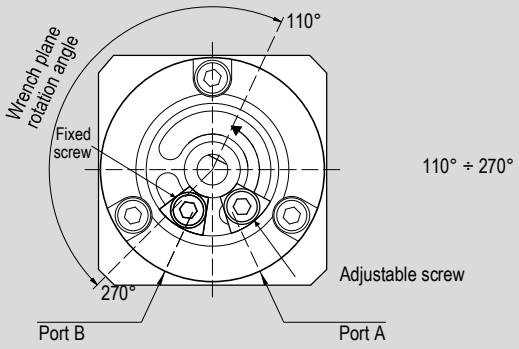
180° rotation setting

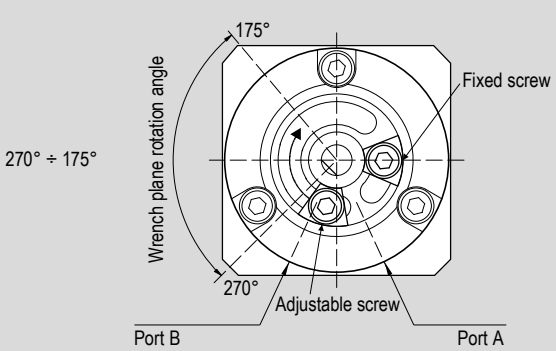


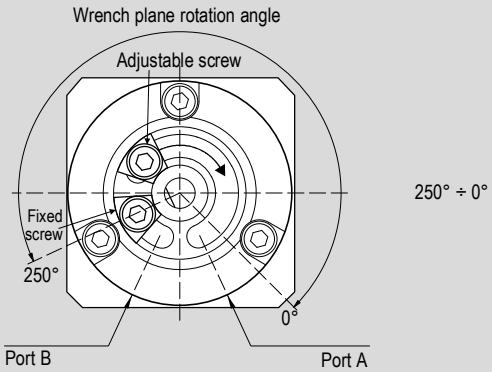


270° rotation setting









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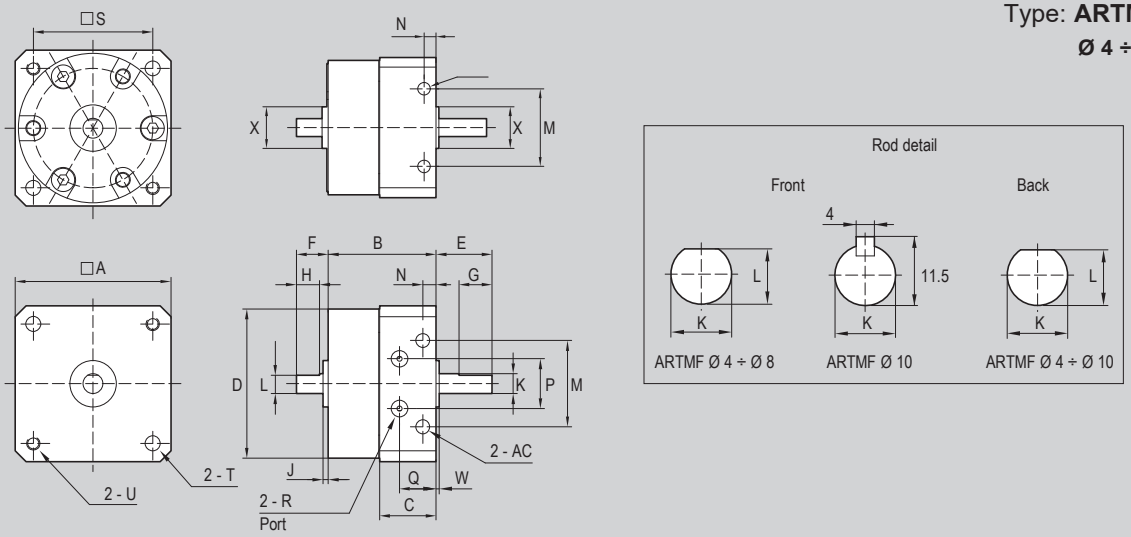
Rotary Vane Cylinders
Series ARTMF, ARTMFC

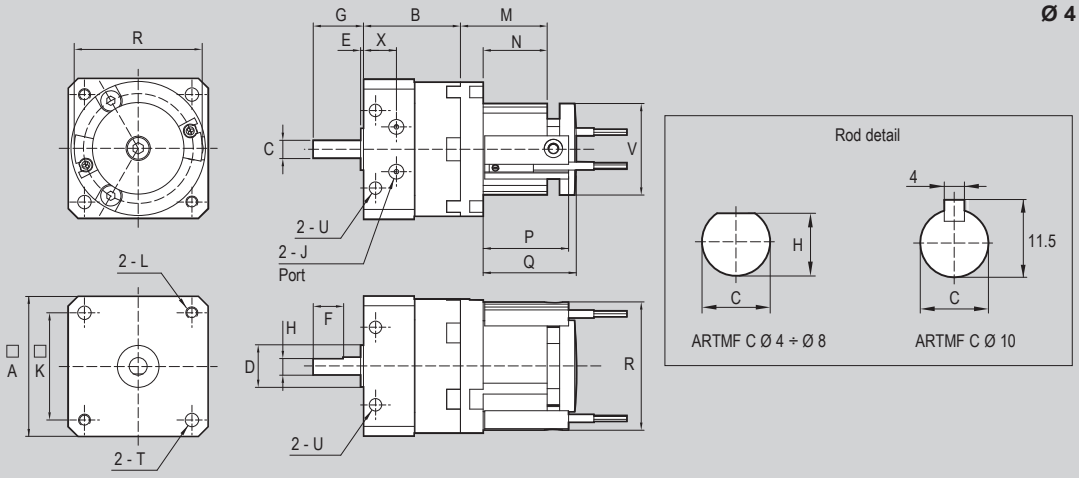
Dimensions

Type: **ARTMF**
Ø 4 ÷ 10



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

Type: **ARTMFC**
Ø 4 ÷ 10



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

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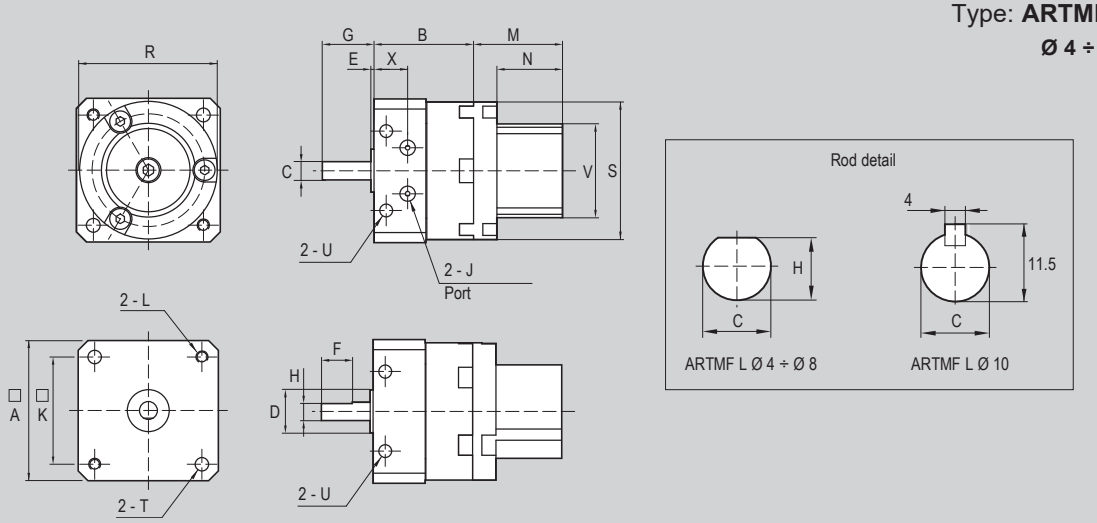
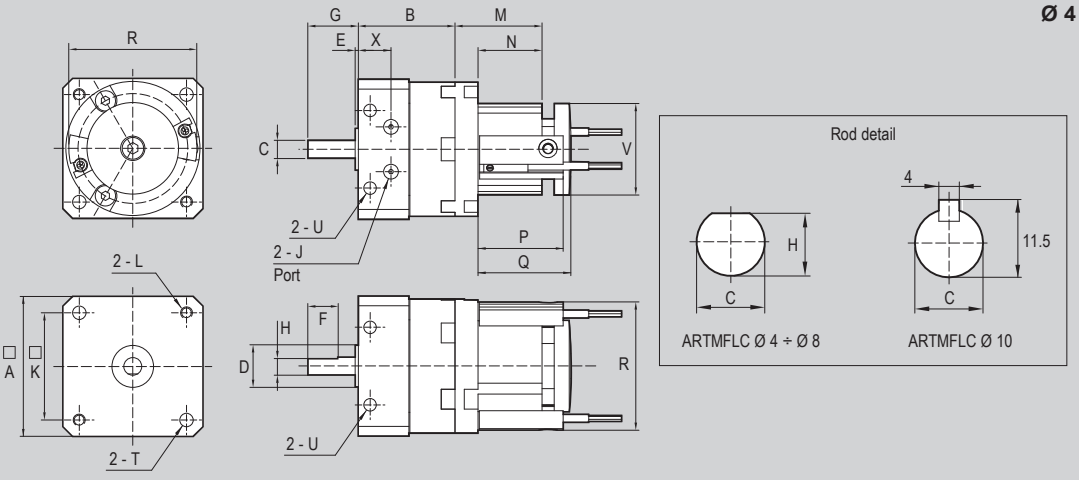
Dimensions

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

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Rotary Vane Cylinders
Series ARTM, ARTMC, ARTML, ARTMLC

Main features

12 ÷ 25
Bores Ø


Double acting
Non magnetic

ARTM
Type

12 ÷ 25
Bores Ø


Double acting
Magnetic

ARTMC
Type

Main features

12 ÷ 25
Bores Ø


Double acting
Non magnetic
Adjustable angle

ARTML
Type

12 ÷ 25
Bores Ø


Double acting
Magnetic
Adjustable angle

ARTMLC
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

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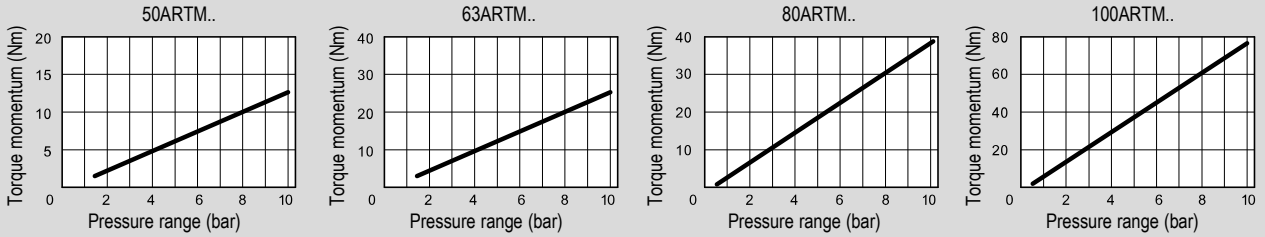
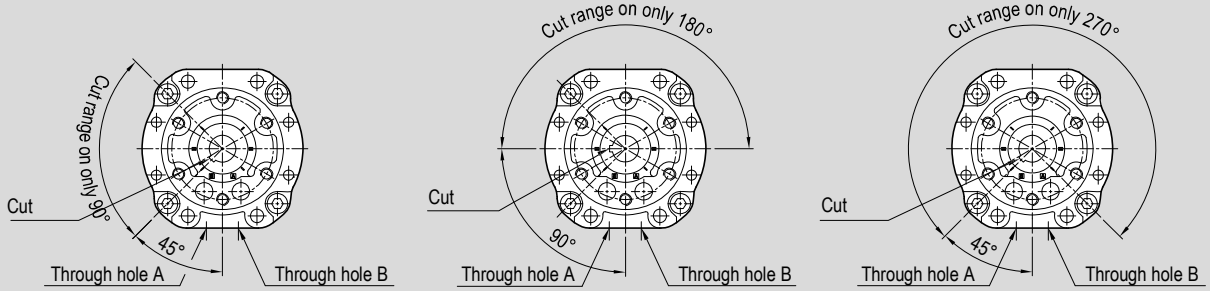
Rotary Vane Cylinders

Series ARTM, ARTMC, ARTML, ARTMLC

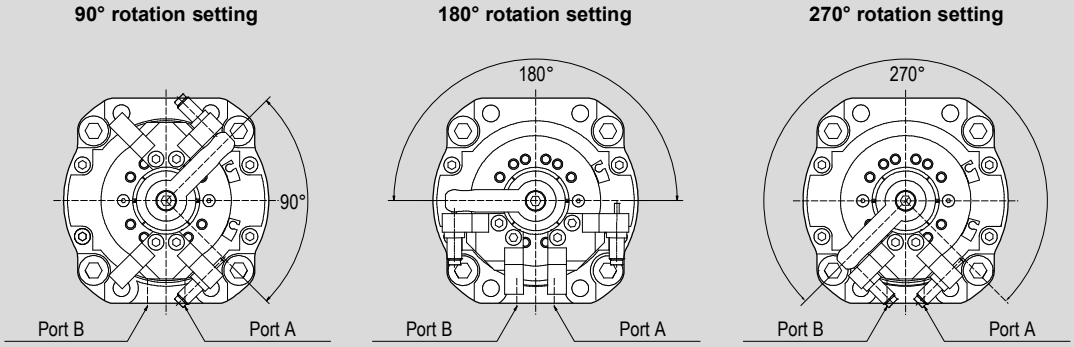
Output torque table



Angle of rotation

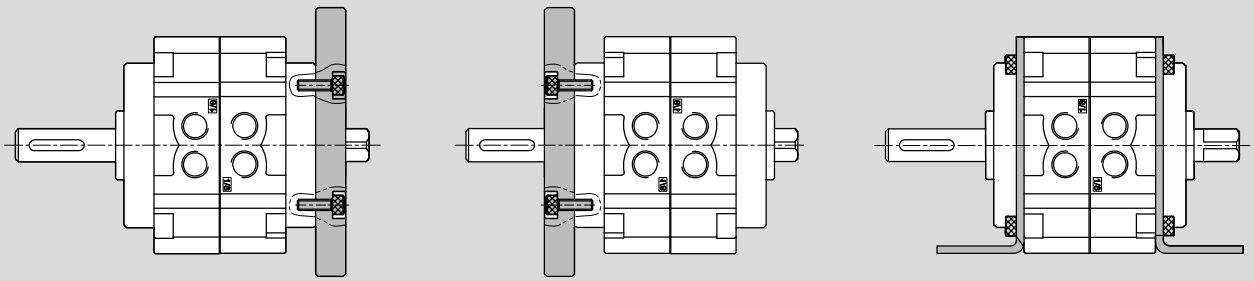


Angle of rotation*



*With shock absorbers for 10° rotation adjustment

Assembly type



Rear mounting | Front mounting | Flange mounting

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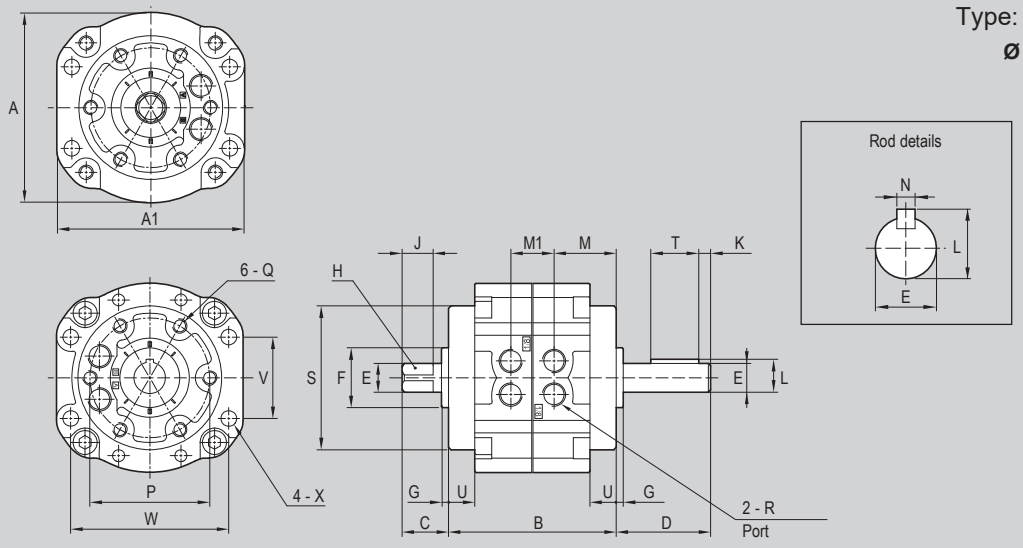
Rotary Vane Cylinders
Series ARTM, ARTMC, ARTML, ARTMLC

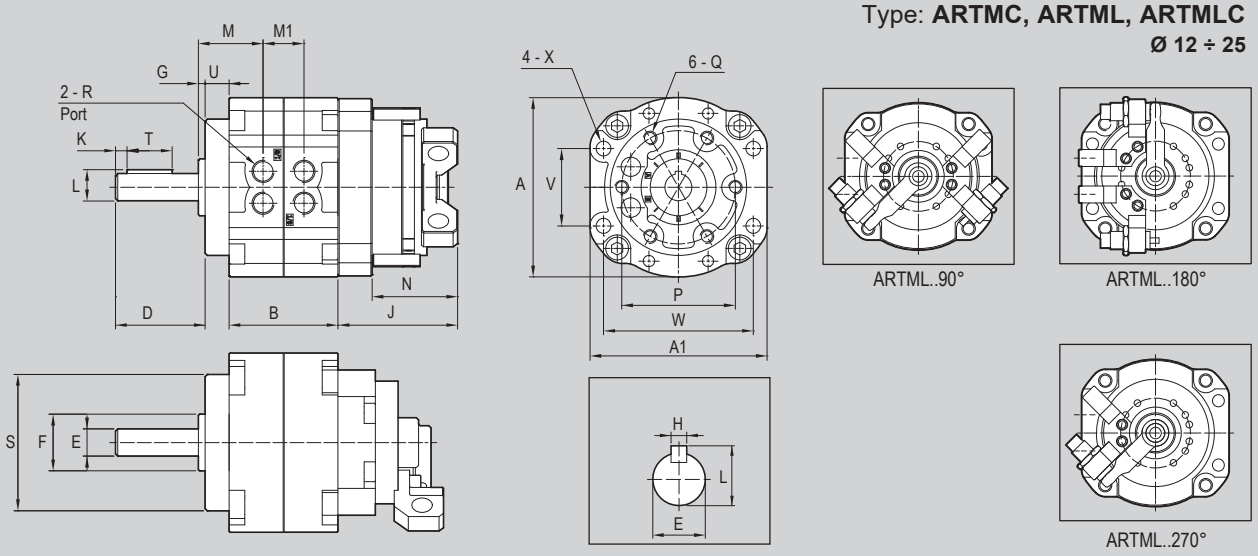
Dimensions

Type: **ARTM**
Ø 12 ÷ 25



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

Type: **ARTMC, ARTML, ARTMLC**
Ø 12 ÷ 25



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

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Accessories for rotary vane cylinders

Magnetic reed switch C groove ASC..

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

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