



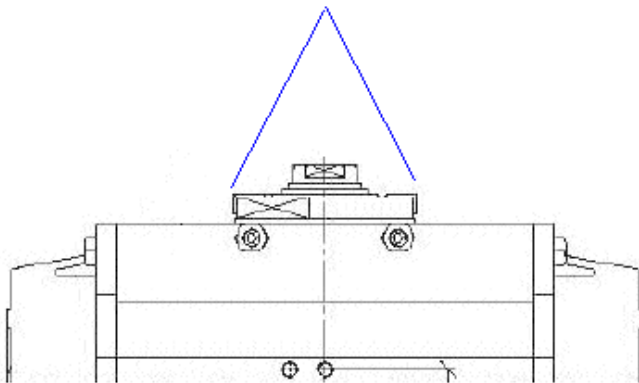
PBM, INC. • 1070 Sandy Hill Road • Irwin, PA 15642-9409 • 724.863.0550 • FAX: 724.864.9255
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November 14, 2013

Actuator change from PAVB series to PAVC series

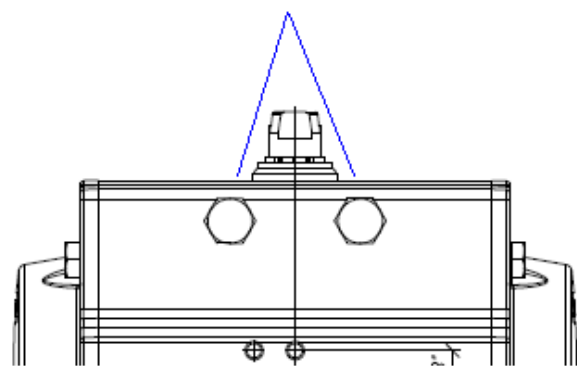
The PAVB series actuator has been obsoleted in favor of the new PAVC series. Recently the design was changed to make top works mounting simpler for add-ons which brought about the PAVC series. Below is a quick snapshot of the key difference between the two series - the difference relating to the top of the actuators. PAVC series actuators are interchangeable for PAVB series and have the same fit and function as the PAVB series except as noted below and in our actuator literature attached for reference. The PAVC series actuators do not offer the same form as the PAVB series due to the differences mentioned above and highlighted below.

RAISED "BOSS" AREA



PAVB SERIES

NO RAISED "BOSS" AREA



PAVC SERIES

REPLACING PAVB SERIES

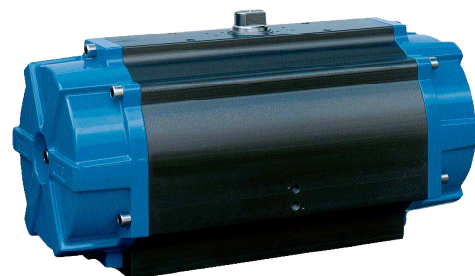
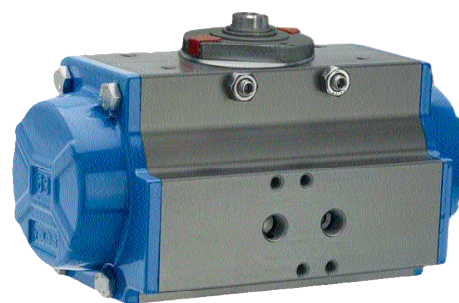
PAVB Series Actuator Brochure – LT-23 0707 – attachment below
PAVC Series Actuator Brochure – LT-23A 0312 - attachment below





pneumatic rack and pinion

actuators



actuator features

Nominal Values:

Pressure rating of 120 psig (8 barg). Standard temperature range is -4°F to 185°F (-20°C to 85°C). High temperature range is -4°F to 302°F (-20°C; 150°C). Low temperature range is -40°F to 185°F (-40°C to 85°C). Pre-lubricated for life of actuator on assembly. Fully tested on manufacture 100%.

Rotation adjustment 0-90°

From MOD. 52 up to 125

- standard + or - 5° in both clockwise and counterclockwise direction by means of adjusting screws outside the internal air supply chambers
- standard visual position indicators

From MOD. 160-200-270

- standard + or - 5° in counterclockwise direction by means of adjusting screws in the caps
- kit for + or - 5° in clockwise direction available on request

Die cast aluminum end caps

- Standard polyester powder coated
- Nickel plated upon request

Concentrating spring sets

- Standard treatment phosphated
- High resistance and reliability
- Spring sets to suit different air pressure/torque requirements
- Long securing screws to allow safe dismantling for maintenance
- Same body dimensions for DA/SR versions

Assembling screws

- Stainless steel as standard

External connection

- Namur pinion mounting
- Namur solenoid valve mounting
- Bottom of pinion according to ISO 5211-DIN 3337

Operating Pressure

Range - 40 psig to 120 psig (2.8 barg to 8 barg)

Operating Media

Clean, dry air or clean, dry, non-corrosive gas

Stroke

90 degrees standard, 120 and 180 degrees optional

Steel pinion

- Nickel-plated for resistance to corrosion
- Stainless steel (optional) for corrosive environments
- Anti-blowout design

Body manufactured from extruded aluminum UNI 6060

- Hard-coat anodized as standard finish 45-50 (micron)
- Good wear resistance
- Bore finished to high standard to ensure low friction and long life

Piston guides

- Large contact area
- Self-lubricating materials
- Long life

Seals

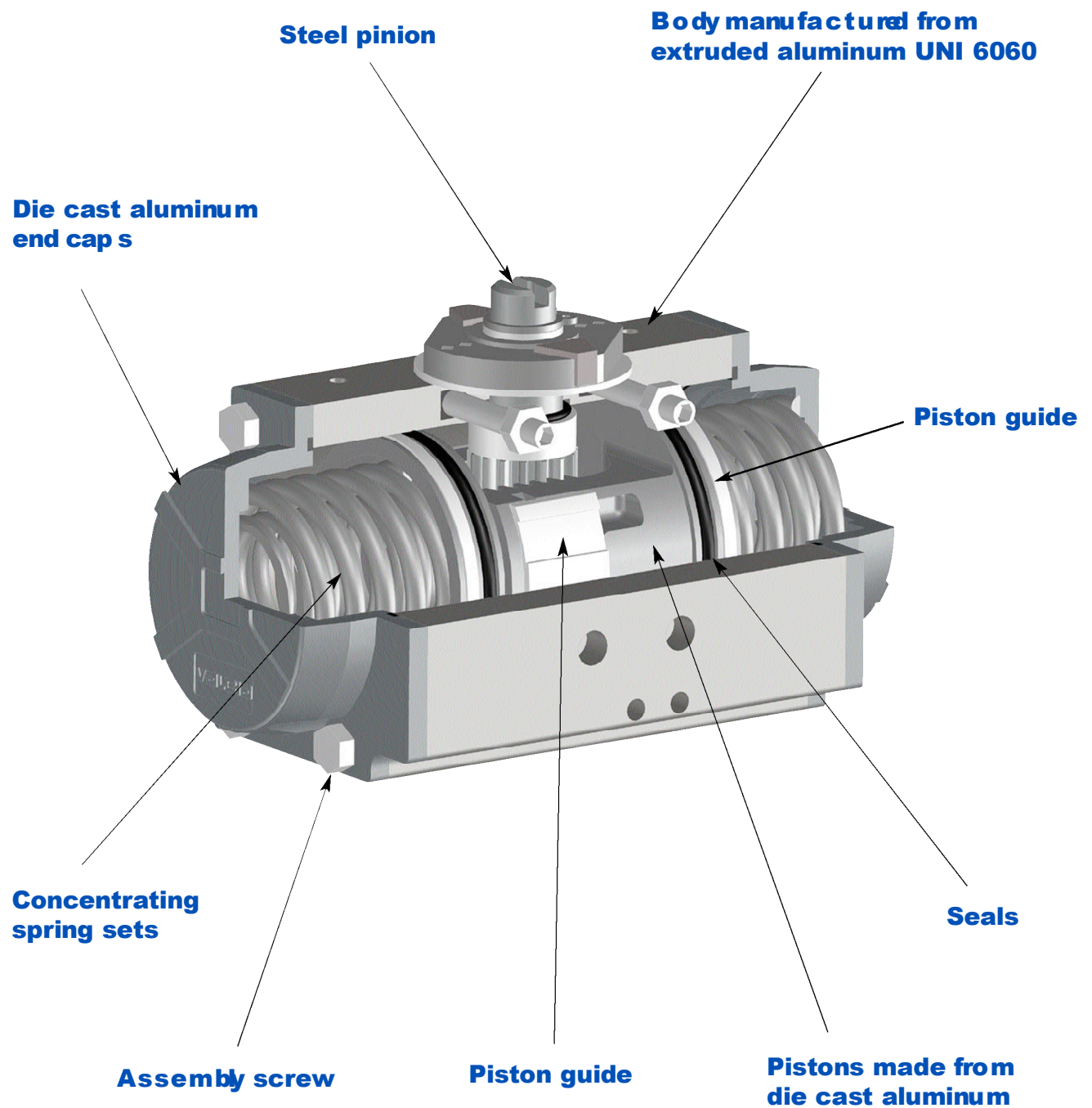
- NBR standard
- Viton high temperature (optional)
- HNBR low temperature (optional)

Pistons

- Die cast aluminum
- Nickel-plating upon request

Twin rack and pinion design

- Constant torque output (double acting)
- compact design
- Balanced internal forces
- Robust design to ensure long life



Torque Ratings

All published torque values are guaranteed minimum values

Double Acting Actuators

Actuator Model	Air Pressure at Actuator (psig)	
	60 psig	80 psig
	Constant Torque Output (in-lbs.)	
PAVBL453D- -0052	133	179
PAVBL453D- -0063	238	321
PAVBL453D- -0075	435	586
PAVBL453D- -0085	629	851
PAVBL453D- -0100	991	1,336
PAVBL453D- -0115	1,640	2,210
PAVBL453D- -0125	2,157	2,906
PAVBL453D- -0140	3,013	4,018
PAVBL453D- -0160	4,394	5,859
PAVBL453D- -0200	8,239	10,981
PAVBL453D- -0270	19,097	25,469

Spring Return Actuators

Model	Spring Set	Spring Torque Output (in-lbs.)		Air Pressure at Actuator (psig)			
				60		80	
				Torque Output from		Pressure (in-lbs.)	
		Start	End	Start	End	Start	End
PAVBL253S- -0052	03	66	38	80	47	N/A	N/A
PAVBL453S- -0052	05	88	60	N/A	N/A	101	55
PAVBL253S- -0063	03	128	71	149	79	N/A	N/A
PAVBL453S- -0063	05	196	111	N/A	N/A	193	95
PAVBL253S- -0075	03	234	125	275	137	N/A	N/A
PAVBL453S- -0075	05	358	193	N/A	N/A	354	157
PAVBL253S- -0085	03	307	183	387	211	N/A	N/A
PAVBL453S- -0085	05	456	273	N/A	N/A	503	257
PAVBL253S- -0100	03	495	279	628	329	N/A	N/A
PAVBL453S- -0100	05	733	417	N/A	N/A	802	378
PAVBL253S- -0115	03	786	442	1,044	541	N/A	N/A
PAVBL453S- -0115	05	1,176	657	N/A	N/A	1,352	637
PAVBL253S- -0125	03	969	530	1,351	640	N/A	N/A
PAVBL453S- -0125	05	1,412	779	N/A	N/A	1,762	789
PAVBL253S- -0140	03	1,617	853	1,910	856	N/A	N/A
PAVBL453S- -0140	05	2,251	1,200	N/A	N/A	2,481	1,017
PAVBL253S- -0160	04	2,443	1,522	2,447	1,350	N/A	N/A
PAVBL453S- -0160	05	2,860	1,917	N/A	N/A	3,452	2,240
PAVBL253S- -0200	04	4,040	2,686	4,788	3,080	N/A	N/A
PAVBL453S- -0200	06	5,900	4,009	N/A	N/A	5,893	3,539
PAVBL253S- -0270	05	10,788	6,915	11,495	6,884	N/A	N/A
PAVBL453S- -0270	08	14,387	9,230	N/A	N/A	15,360	9,220

Weights & Operation Volumes

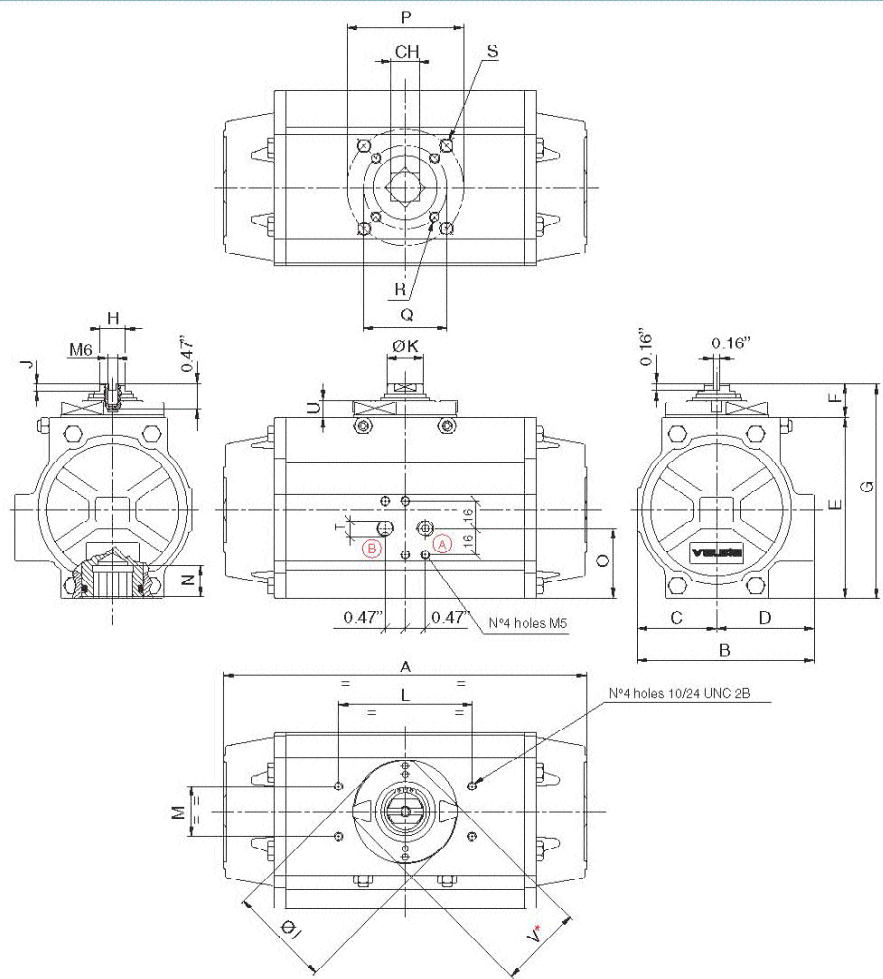
Double Acting Actuators

Actuator Model	Volume (cu. in.)		Approximate Weight (lbs.)
	Rotate CCW	Rotate CW	
PAVBL453D- -0052	6.1	7.9	2.3
PAVBL453D- -0063	12	14	3.3
PAVBL453D- -0075	22	27	5.5
PAVBL453D- -0085	31	39	7.4
PAVBL453D- -0100	48	61	11
PAVBL453D- -0115	79	104	18
PAVBL453D- -0125	99	135	22
PAVBL453D- -0140	138	193	34
PAVBL453D- -0160	220	290	43
PAVBL453D- -0200	350	600	71
PAVBL453D- -0270	915	1,086	154

Spring Return Actuators

Actuator Model	Volume (cu. in.)		Approximate Weight (lbs.)
	Rotate CCW	Rotate CW	
PAVBL453S- -0052	6.1	6.7	2.7
PAVBL453S- -0063	12	11.6	4.0
PAVBL453S- -0075	22	22	6.9
PAVBL453S- -0085	31	32	9.4
PAVBL453S- -0100	48	49	14.4
PAVBL453S- -0115	79	84	24
PAVBL453S- -0125	99	109	27
PAVBL453S- -0140	138	146	45
PAVBL453S- -0160	220	215	65
PAVBL453S- -0200	348	463	111
PAVBL453S- -0270	915	946	193

Dimensional Data for models 52 to 140



* For mod. from 52 to 100

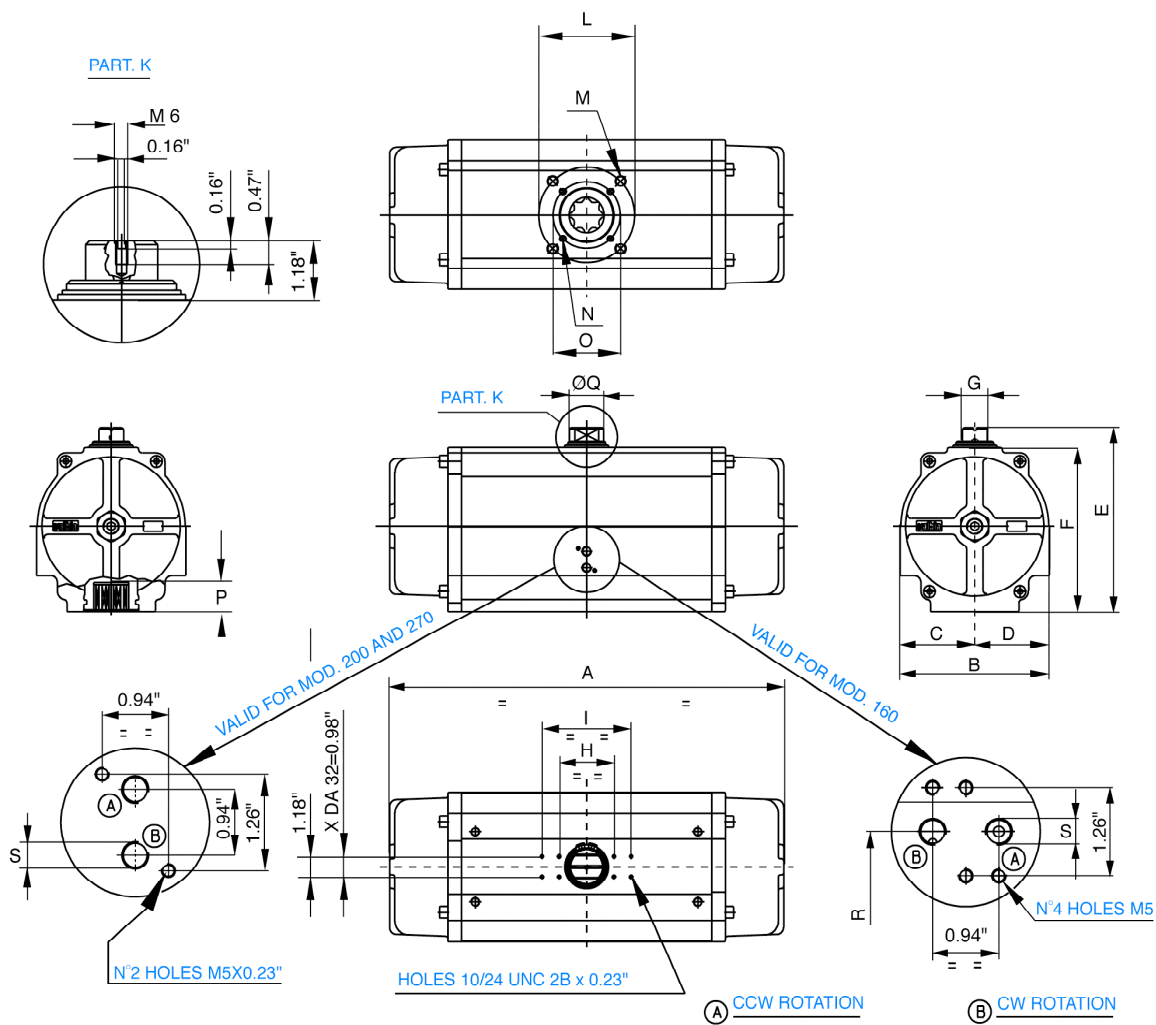
** Upon request F04

(A) CCW rotation

(B) CW rotation

Model	Drilling ISO 5211	CH	A	B	C	D	E	F	G	ØH	ØI	L	M	N	O	P	Q	R	S	T NPT	U	V	ØZ	Y	X
52	F03 - F05	0.43	5.49	2.80	1.18	1.61	2.74	0.79	3.52	0.47	1.73	3.15	1.18	0.47	1.04	1.97	1.42	10-24 UNC 2Bx0.29"	1/4-20 UNC 2Bx0.35"	1/8"	0.32	1.49	0.55	0.43	0.47
63	F05 - F07	0.55	6.38	3.17	1.40	1.77	3.17	0.79	3.96	0.58	1.97	3.15	1.18	0.63	1.08	2.76	1.97	1/4-20 UNC 2Bx0.31"	5/16-18 UNC 2Bx0.47"	1/8"	0.32	1.61	0.71	0.55	0.63
75	F05 - F07	0.67	8/15	3.72	1.65	2.07	3.82	0.79	4.61	0.71	2.48	3.15	1.18	0.75	1.38	2.76	1.97	1/4-20 UNC 2Bx0.31"	5/16-18 UNC 2Bx0.47"	1/8"	0.35	1.97	0.87	0.67	0.75
85	F05 - F07	0.67	9.35	4.17	1.87	2.30	4.27	0.79	5.06	0.79	2.48	3.15	1.18	0.75	1.65	2.76	1.97	1/4-20 UNC 2Bx0.31"	5/16-18 UNC 2Bx0.47"	1/8"	0.35	1.97	0.87	0.67	1.18
100	F07 - F10	0.67	10.69	4.84	2.17	2.68	4.78	0.79	5.57	0.79	2.48	3.15	1.18	0.81	1.97	4.02	2.76	5/16-18 UNC 2Bx0.31"	3/8-16 UNC 2Bx0.55"	1/4"	0.35	1.97	0.87	0.67	1.18
115	F07 - F10	0.87	12.91	5.39	2.52	2.87	5.57	1.18	6.75	1.26	3.39	5.12	1.18	0.94	1.97	4.02	2.76	5/16-18 UNC 2Bx0.47"	3/8-16 UNC 2Bx0.59"	1/4"	0.57	0.86	1.11	0.86	1.53
125	F07 - F10	0.87	14.41	5.83	2.68	3.15	6.04	1.18	7.22	1.26	3.39	5.12	1.18	0.94	2.40	4.02	2.76	5/16-18 UNC 2Bx0.47"	3/8-16 UNC 2Bx0.59"	1/4"	0.57	0.86	1.11	0.86	1.53
140	F07 - F10	1.06	16.85	6.46	3.01	3.44	6.93	1.18	8.11	1.38	3.46	5.12	1.18	1.14	2.80	4.92	4.02	3/8-18 UNC 2Bx0.59"	1/2-13 UNC 2Bx0.71"	1/4"	0.57	0.86	1.11	0.86	1.53

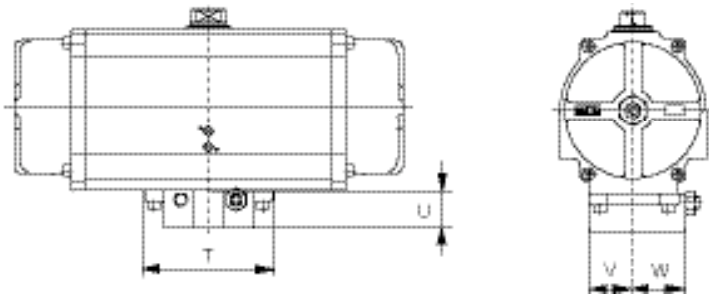
Dimensions for models 160 - 200 - 270



Model	Drilling ISO 5211	CH	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S NPT	T	U	V	W	X	Y	Z
160	F10 - F12	1.06	20.55	7.36	3.43	3.94	8.58	7.40	1.18	3.15	5.12	4.92	1/2-13 unc 2Bx0.71"	3/8-16 unc 2Bx0.59"	4.72	1.26	1.38	3.21	1/4"	6.29	1.77	2.20	2.50	1.42	1.06	1.89
200	F14	1.42	22.64	8.58	4.29	4.29	10.59	9.41	1.42	3.15	5.12	5.51	5/8-11 unc 2Bx0.98"	-	-	1.54	1.97	3.46	1/4"	7.48	2.03	2.52	3.11	1.90	1.41	1.52
270	F16	1.81**	26.46	11.42	5.71	5.71	14.21	13.03	1.42	3.15	5.12	6.50	3/4-10 unc 2Bx1.18"	-	-	2.05	1.97	4.76	1/4"	9.05	2.68	3.11	4.37	2.37	1.81	3.23

** only with square connection at 45°

Kit for closed position adjustment optional model 160 - 200 - 270



For order kit

Model 160	ACVBDS160
Model 200	ACVBDS200
Model 270	ACVBDS270



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LT-23 07/07



PBM VALVE SOLUTIONS

ACTUATORS

pneumatic rack and pinion



actuator features

Nominal Values:

Pressure rating of 120 psig (8 barg). Standard temperature range is -4°F to 185°F (-20°C to 85°C). High temperature range is -4°F to 302°F (-20°C; 150°C). Low temperature range is -40°F to 185°F (-40°C to 85°C). Pre-lubricated for life of actuator on assembly. Fully tested on manufacture 100%.

Rotation adjustment 0-90°

From MOD. 52 up to 200

- standard + or - 5° in both clockwise and counterclockwise direction by means of adjusting screws outside the internal air supply chambers
- standard visual position indicators

MOD. 270

- standard + or - 5° in counterclockwise direction by means of adjusting screws in the caps
- kit for + or - 5° in clockwise direction available on request

Die cast aluminum end caps

- Standard polyester powder coated
- Nickel plated upon request

Concentric spring sets

- Standard treatment phosphated
- High resistance and reliability
- Spring sets to suit different air pressure/torque requirements
- Long securing screws to allow safe dismantling for maintenance
- Same body dimensions for DA/SR versions

Assembling screws

- Stainless steel as standard

External connection

- Namur pinion mounting
- Namur solenoid valve mounting
- Bottom of pinion according to ISO 5211-DIN 3337
- Optional Beacon Indicator

Operating Pressure

Range - 40 psig to 120 psig (2.8 barg to 8 barg)

Operating Media

Clean, dry air or clean, dry, non-corrosive gas

Stroke

90 degrees standard

Steel pinion

- Nickel-plated for resistance to corrosion
- Stainless steel (optional) for corrosive environments
- Anti-blowout design

Body manufactured from extruded aluminum UNI 6060

- Hard-coat anodized as standard finish 45-50 (micron)
- Good wear resistance
- Bore finished to high standard to ensure low friction and long life

Piston guides

- Large contact area
- Self-lubricating materials
- Long life

Seals

- NBR standard
- Viton high temperature (optional)
- HNBR low temperature (optional)

Pistons

- Die cast aluminum
- Nickel-plating upon request

Twin rack and pinion design

- Constant torque output (double acting)
- compact design
- Balanced internal forces
- Robust design to ensure long life

Weights & Operation Volumes

Torque Ratings Double Acting Actuators

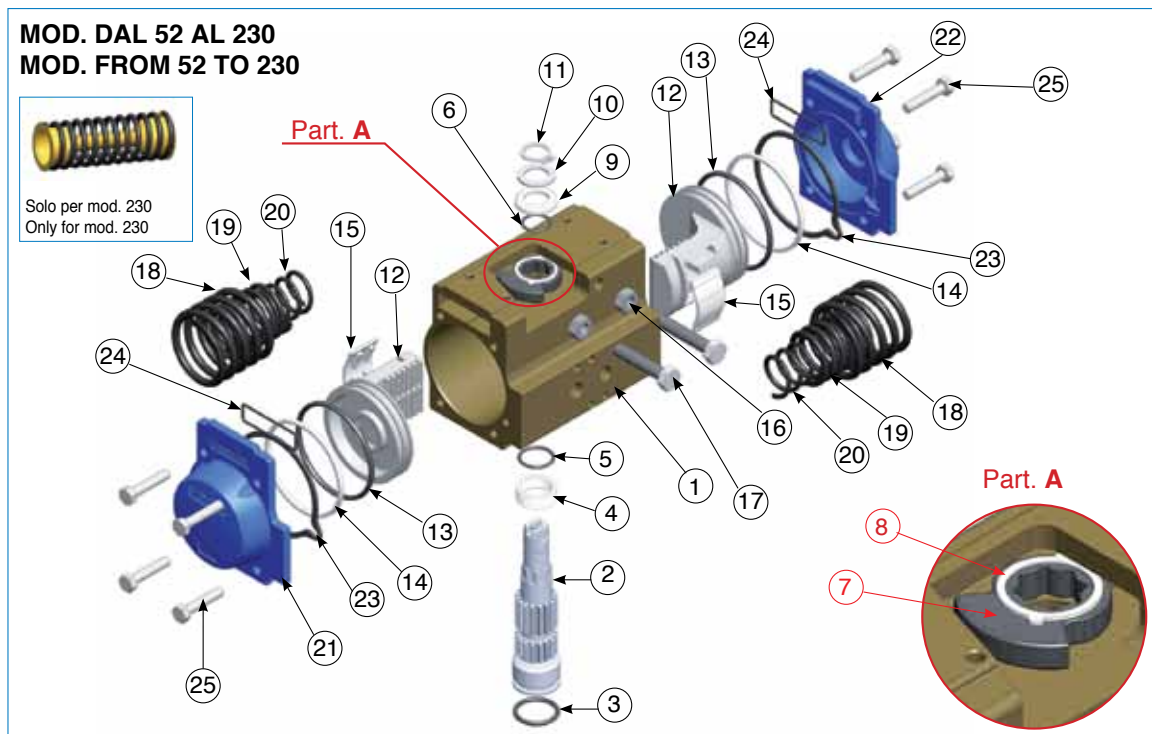
Actuator Model	Air pressure at actuator (psig)	
	60 psig	80 psig
	Constant Torque Output (in-lbs)	
PAVCL453D - - 0052	133	179
PAVCL453D - - 0063	238	321
PAVCL453D - - 0075	435	586
PAVCL453D - - 0085	629	851
PAVCL453D - - 0100	991	1,336
PAVCL453D - - 0115	1,640	2,210
PAVCL453D - - 0125	2,157	2,906
PAVCL453D - - 0140	3,013	4,018
PAVCL453D - - 0160	4,394	5,859
PAVCL453D - - 0200	8,239	10,981
PAVCL453D - - 0270	19,097	25,469

Actuator Model	Rotate CCW	Rotate CW	PAVC series
	Volume (cu.in.)	Volume (cu.in.)	Approx. wgt (lbs)
PAVCL453D - - 0052	6.1	7.9	3.0
PAVCL453S - - 0052	6.1	6.7	3.5
PAVCL453D - - 0063	12	14	4.4
PAVCL453S - - 0063	12	11.6	5.3
PAVCL453D - - 0075	22	27	7.7
PAVCL453S - - 0075	22	22	9.1
PAVCL453D - - 0085	31	39	10.4
PAVCL453S - - 0085	31	32	12.9
PAVCL453D - - 0100	48	61	14.7
PAVCL453S - - 0100	48	49	18.8
PAVCL453D - - 0115	79	104	23.7
PAVCL453S - - 0115	79	84	30.7
PAVCL453D - - 0125	99	135	28.9
PAVCL453S - - 0125	99	109	37.7
PAVCL453D - - 0140	138	193	43.7
PAVCL453S - - 0140	138	146	57.6
PAVCL453D - - 0160	220	290	58.3
PAVCL453S - - 0160	220	215	79.0
PAVCL453D - - 0200	350	600	99.1
PAVCL453S - - 0200	348	463	147
PAVCL453D - - 0270	915	1,086	222
PAVCL453S - - 0270	915	946	269

Spring Return Actuators

Actuator Model	Spring Set	Spring Torque Output (in-lbs)		Air Pressure at Actuator (psig)			
				60		80	
				Torque Output from Pressure (in-lbs)			
		Start	End	Start	End	Start	End
PAVCL253S - -0052	03	66	38	80	47	N/A	N/A
PAVCL453S - -0052	05	88	60	N/A	N/A	101	55
PAVCL253S - -0063	03	128	71	149	79	N/A	N/A
PAVCL453S - -0063	05	196	111	N/A	N/A	193	95
PAVCL253S - -0075	03	234	125	275	137	N/A	N/A
PAVCL453S - -0075	05	358	193	N/A	N/A	354	157
PAVCL253S - -0085	03	307	183	387	211	N/A	N/A
PAVCL453S - -0085	05	456	273	N/A	N/A	503	257
PAVCL253S - -0100	03	495	279	628	329	N/A	N/A
PAVCL453S - -0100	05	733	417	N/A	N/A	802	378
PAVCL253S - -0115	03	786	442	1,044	541	N/A	N/A
PAVCL453S - -0115	05	1,176	657	N/A	N/A	1,352	637
PAVCL253S - -0125	03	969	611	1,351	640	N/A	N/A
PAVCL453S - -0125	05	1,412	900	N/A	N/A	1,762	789
PAVCL253S - -0140	03	1,617	853	1,910	856	N/A	N/A
PAVCL453S - -0140	05	2,251	1,200	N/A	N/A	2,481	1,017
PAVCL253S - -0160	04	2,443	1,522	2,447	1,350	N/A	N/A
PAVCL453S - -0160	05	2,860	1,917	N/A	N/A	3,452	2,240
PAVCL253S - -0200	04	4,040	2,686	4,788	3,080	N/A	N/A
PAVCL453S - -0200	06	5,900	4,009	N/A	N/A	5,893	3,539
PAVCL253S - -0270	05	10,788	6,915	11,495	6,884	N/A	N/A
PAVCL453S - -0270	08	14,387	9,230	N/A	N/A	15,360	9,220

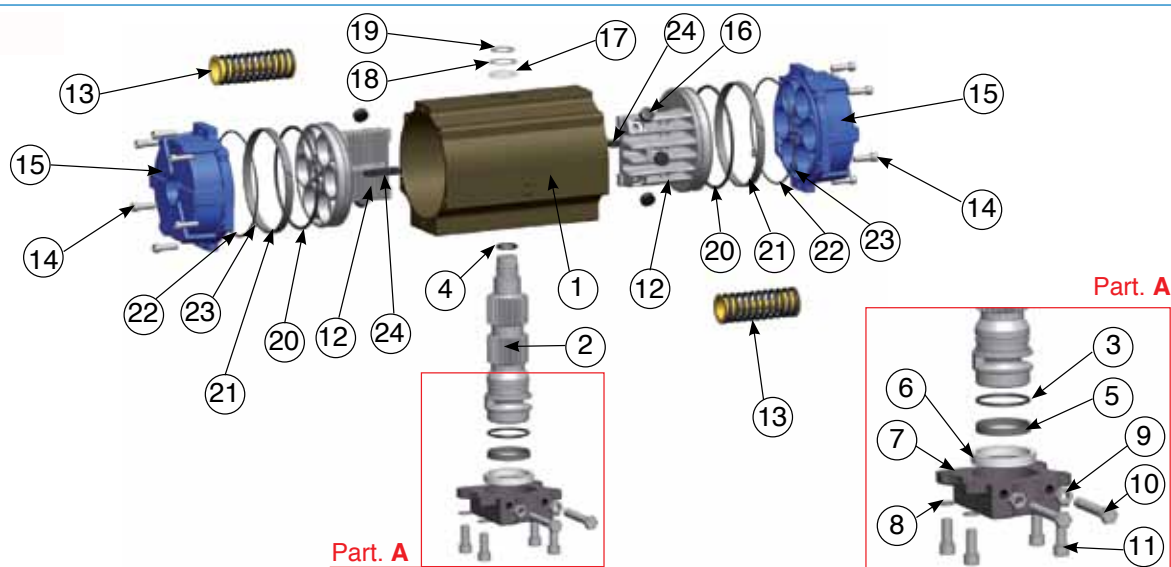
All published torque values are guaranteed minimum values.



ITEM	DESCRIPTION	MATERIAL	TREATMENT	QUANTITY DA	QUANTITY SR
1	BODY	EXTRUDED ALUMINUM	HARD ANODIZED	1	1
2	ANTI-BLOWOUT PINION	STEEL	NICKEL PLATED	1	1
3*	O-RING	NBR		1	1
4*	SPACER RING	POM		1	1
5*	O-RING	NBR		1	1
6*	O-RING	NBR		1	1
7	CAM	STAINLESS STEEL		1	1
8	SPACER	POM		1	1
9*	SPACER	POM		1	1
10	WASHER	STAINLESS STEEL		1	1
11**	SNAP RING	STEEL	NICKEL PLATED	1	1
12	PISTON	DIE CAST ALUMINUM		2	2
13*	O-RING	NBR		2	2
14*	ANTIFRICTION RING	POM		2	2
15*	THRUST BLOCK	POM		2 [4]	2 [4]
16	STOP BOLT RETAINING NUT	STAINLESS STEEL		2	2
17	STOP BOLT	STAINLESS STEEL		2	2
18	EXTERNAL SPRING	STEEL	ZINC-PHOSPHATE	0	SEE SPRING SETTING AT PAGE 15
19***	CENTRAL SPRING	STEEL	ZINC-PHOSPHATE	0	
20	INTERNAL SPRING	STEEL	ZINC-PHOSPHATE	0	
21	LEFT END CAP	DIE CAST ALUMINUM	PAINTED	1	1
22	RIGHT END CAP	DIE CAST ALUMINUM	PAINTED	1	1
23	END CAP SEATS	NBR		2	2
24	O-RING	NBR		2	2
25	END CAP FIXING SCREW	STAINLESS STEEL		8	8

*Parts subject to wear ** Reinforced series DIN 471 - UNI 7436
Valid for mod. 140-160-180-200 only
***Only for mod. 160-180-200

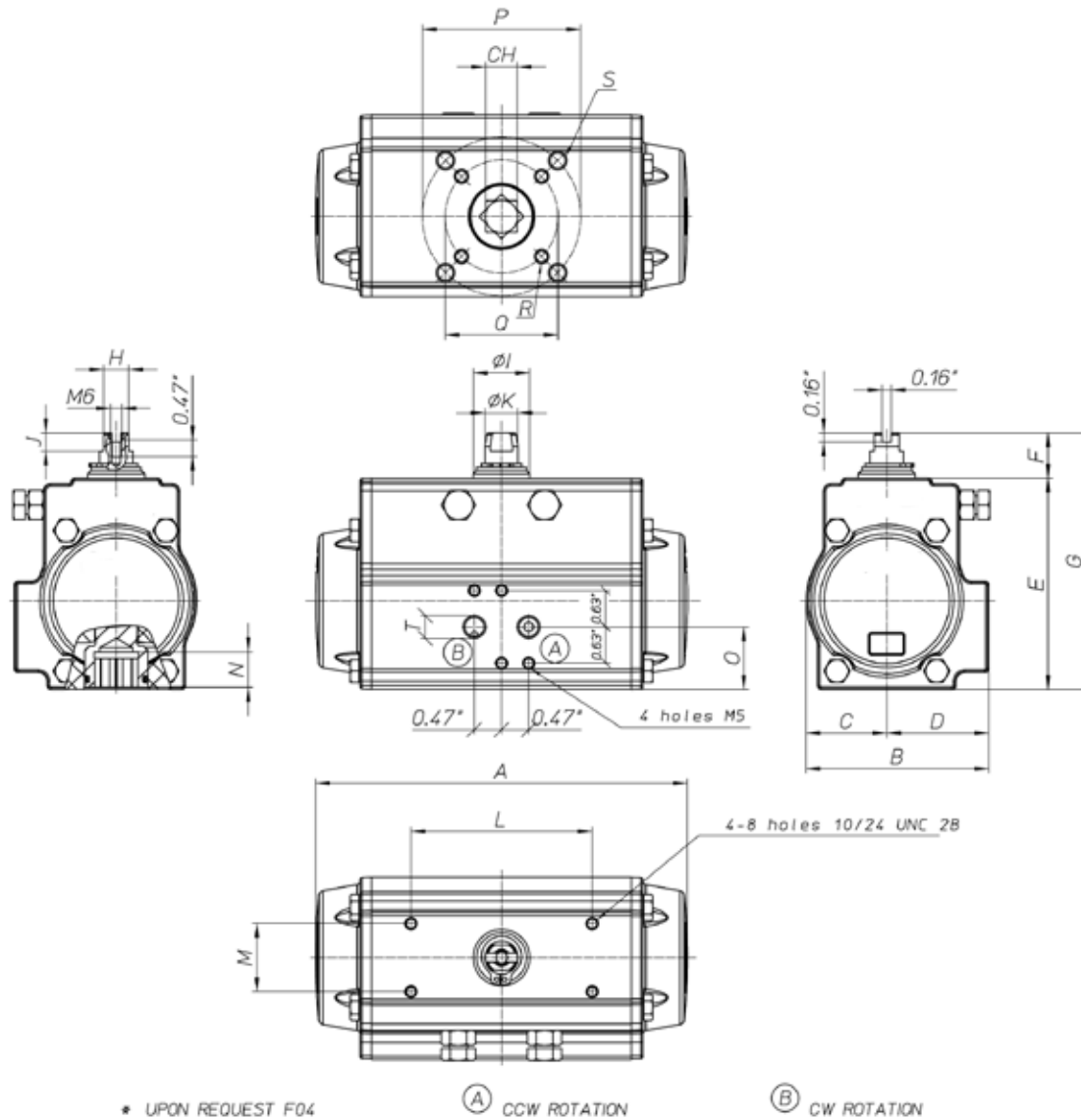
MOD. 270



ITEM	DESCRIPTION	MATERIAL	TREATMENT	QUANTITY DA	QUANTITY SR
1	BODY	EXTRUDED ALUMINUM	HARD ANODIZED	1	1
2	ANTI-BLOWOUT PINION	STEEL	NICKEL PLATED	1	1
3*	O-RING	NBR		1	1
4*	O-RING	NBR		1	1
5*	ANTIFRICTION RING	PTFE 15% GRAPHITE		1	1
6*	ANTIFRICTION RING	PTFE		1	1
7	PLATE	GGG40	PAINTED	1	1
8	WASHER	STAINLESS STEEL		4	8
9	STOP BOLT RETAINING NUT	STAINLESS STEEL		2	2
10	STOP SCREW	STEEL	ZINC PLATED	2	2
11	FIXING SCREWS	STAINLESS STEEL		4	4
12	PISTON	DIE CAST ALUMINUM	ZINC-PHOSPHATE	2	2
13	PRECOMPRESSED SPRING	STEEL		0	See spring set- ting at page 15
14	END CAP FIXING SCREW	STAINLESS STEEL		12	12
15	END CAP	DIE CAST ALUMINUM	PAINTED	2	2
16*	THRUST BLOCK	POM		6	6
17*	SPACER RING	POM		1	1
18	PINION WASHER	STAINLESS STEEL		1	1
19	SNAP RING	STEEL	NICKEL PLATED	1	1
20*	O-RING	NBR		2	2
21*	ANTIFRICTION RING	PTFE 15% GRAPHITE		2	2
22	O-RING	NBR		2	2
23	O-RING	NBR		4	4
24	ANTI BLOWOUT KEY	POM		2	2

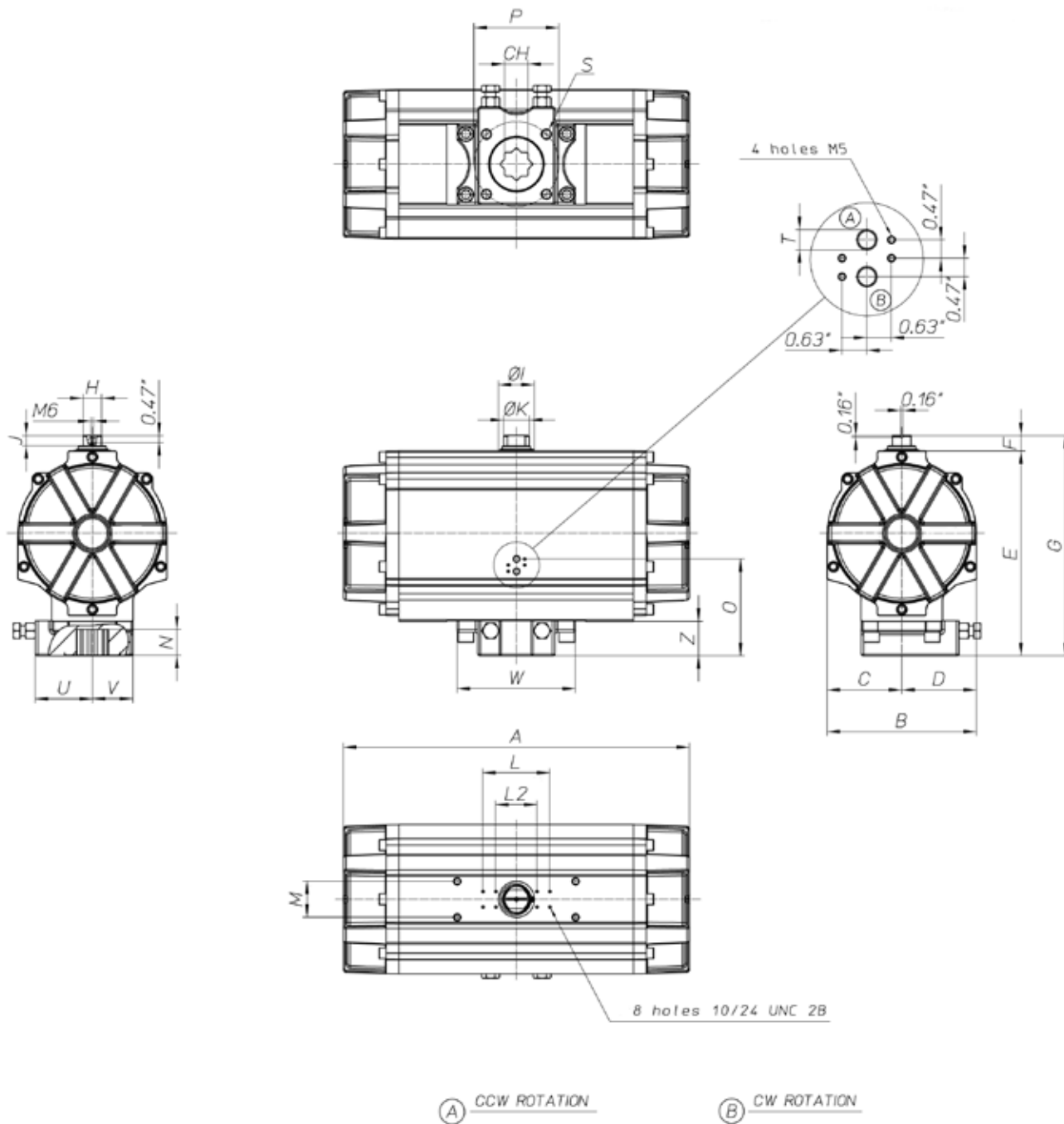
*Parts subject to wear

Dimensional Data for models 52 to 200



MOD.	DRILLING ISO 5211	CH	A	B	C	D	E	F	G	H	Ø I	J	Ø K	L	M	N	O	P	Q	R	S	T NPT
52	F03-F05	0.43	5.55	2.80	1.18	1.61	3.21	0.79	4.00	0.35	0.83	0.31	0.47	3.15	1.18	0.47	1.04	1.97	1.42	10-24 UNC 2BX0.29"	1/4-20 UNC 2BX0.35"	1/8"
63	F05-F07	0.55	6.46	3.17	1.4	1.77	3.66	0.79	4.45	0.43	0.98	0.31	0.59	3.15	1.18	0.63	1.08	2.76	1.97	1/4-20 UNC 2BX0.31"	5/16-18 UNC 2BX0.47"	1/8"
75	F05-F07	0.67	8.27	3.72	1.65	2.07	4.37	0.79	5.16	0.51	1.14	0.31	0.75	3.15	1.18	0.75	1.38	2.76	1.97	1/4-20 UNC 2BX0.31"	5/16-18 UNC 2BX0.47"	1/8"
85	F05-F07	0.67	9.47	4.17	1.87	2.3	4.92	0.79	5.71	0.59	1.38	0.31	0.87	3.15	1.18	0.75	1.65	2.76	1.97	1/4-20 UNC 2BX0.31"	5/16-18 UNC 2BX0.47"	1/8"
100	F07-F10	0.67	10.83	4.84	2.17	2.68	5.43	0.79	6.21	0.59	1.38	0.31	0.87	3.15	1.18	0.81	1.97	4.02	2.76	5/16-18 UNC 2BX0.31"	3/8-16 UNC 2BX0.55"	1/4"
115	F07-F10	0.87	13.11	5.39	2.52	2.87	6.39	1.18	7.57	0.87	1.93	0.55	1.26	5.12	1.18	0.95	1.97	4.02	2.76	5/16-18 UNC 2BX0.47"	3/8-16 UNC 2BX0.59"	1/4"
125	F07-F10	0.87	14.65	5.83	2.68	3.15	6.87	1.18	8.05	0.87	1.93	0.55	1.26	5.12	1.18	0.95	2.40	4.02	2.76	5/16-18 UNC 2BX0.47"	3/8-16 UNC 2BX0.59"	1/4"
140	F10-F12	1.06	17.13	6.46	3.01	3.44	7.76	1.18	8.94	0.94	1.93	0.63	1.38	5.12	1.18	1.14	2.80	4.92	4.02	3/8-16 UNC 2BX0.59"	1/2-13 UNC 2BX0.71"	1/4"
160	F10-F12	1.06	19.69	7.32	3.43	3.90	8.70	1.18	9.88	1.18	2.24	0.63	1.57	3.15/ 5.12	1.18	1.26	3.15	4.92	4.02	3/8-16 UNC 2BX0.55"	1/2-13 UNC 2BX0.67"	1/4"
200	F14	1.42	22.78	8.54	4.25	4.29	10.94	1.18	12.13	1.42	2.64	0.63	1.97	3.15/ 5.12	1.18	1.46	3.07	5.51	/	/	5/8-11 UNC 2BX0.94"	1/4"

Dimensions for model 270



MOD.	DRILLING ISO 5211	CH	A	B	C	D	E	F	G	H	ØI	J	ØK	L	L2	M	N	O	P	S	T NPT	U	V	W	Z
270	F16	1.81	26.46	11.42	5.71	5.71	15.71	1.18	16.89	1.42	2.76	0.79	1.97	5.12	3.15	1.18	1.97	7.40	6.50	3/4-10 UNC 2B X 1.18"	1/4"	4.37	3.11	9.06	2.68



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