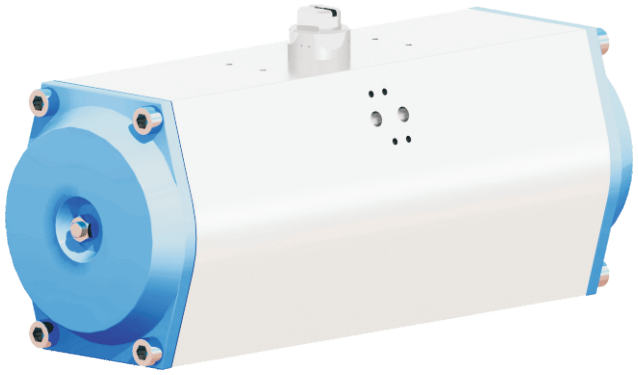
GEVEER

PDA/PSR Series Pneumatic Actuator

- Extruded aluminum ASTM6005 body with both internal and external corrosion protection having honed cylinder surface for longer life and low coefficient of friction.
- Dual piston rack and pinion design for compact construction, symmetric mounting position, high-cycle life and fast operation, reverse rotation can be accomplished in the field by simply inverting the pistons.
- Multiple bearings and guides on racks and pistons, low friction, high cycle life and prevent shaft blowout.
- Modular preloaded spring cartridge design, with coated spring for simple versatile range, greater safely and corrosion resistance, longer cycle life.
- Fully machined teeth on piston and pinion for accurate low backlash rack and pinion engagement, maximum efficiency. Stainless steel fasteners for long term corrosion resistance
-Full conformance to the latest specifications: ISO5211, DIN 3337 and Namur or product interchangeability and easy mounting of solenoids/limit switches and other accessories.

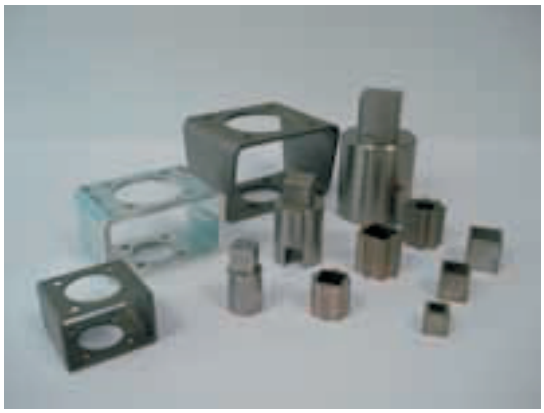
Model : PDA/PSR



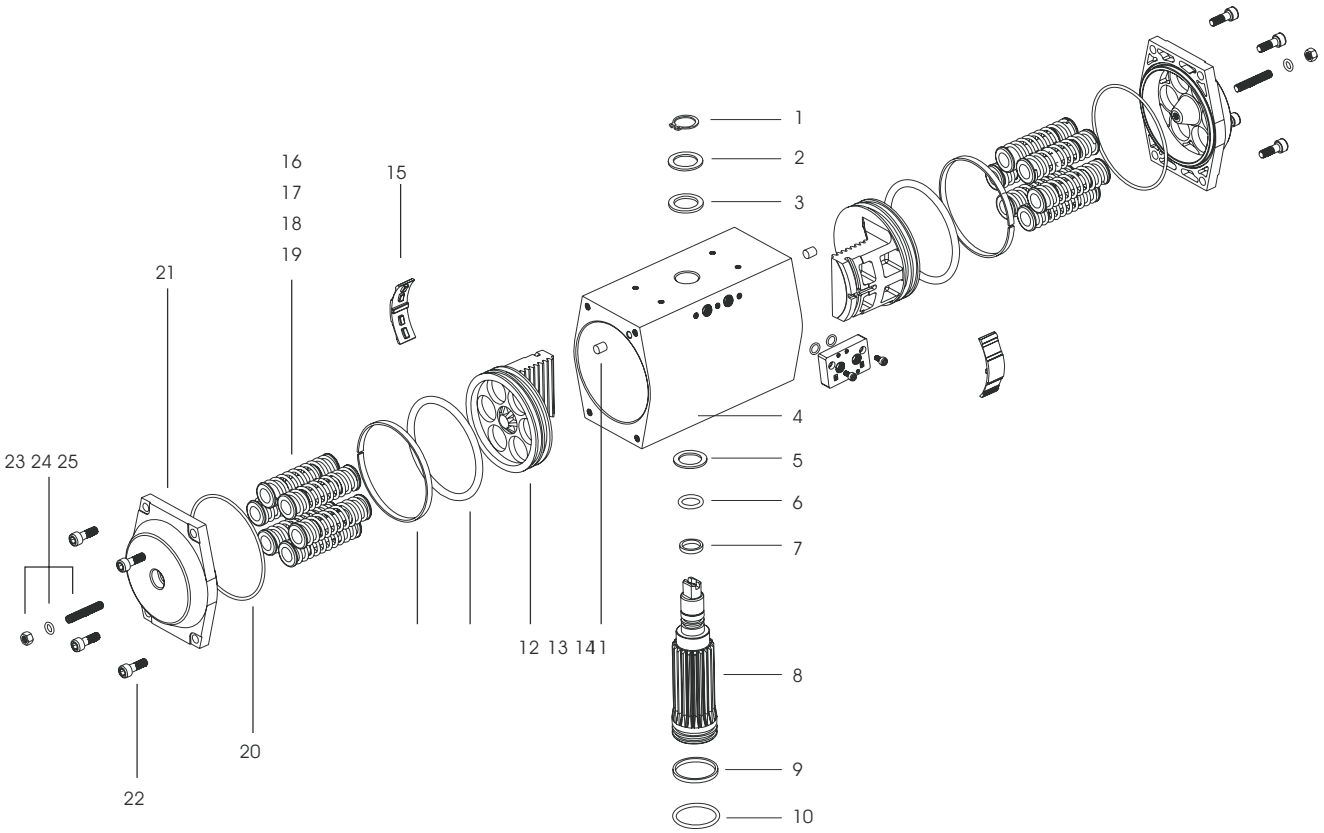
Feature

System design	:	Type PDA = double-acting Type PSR = single-acting (spring return)
Torque	:	Torques to 80,000 in.lbs.
Control pressure	:	2 to 10 bar
Operating temperature:		Standard: -20°C~+80°C Low temperature: -35°C~+80°C High temperature: -15°C~+150°C

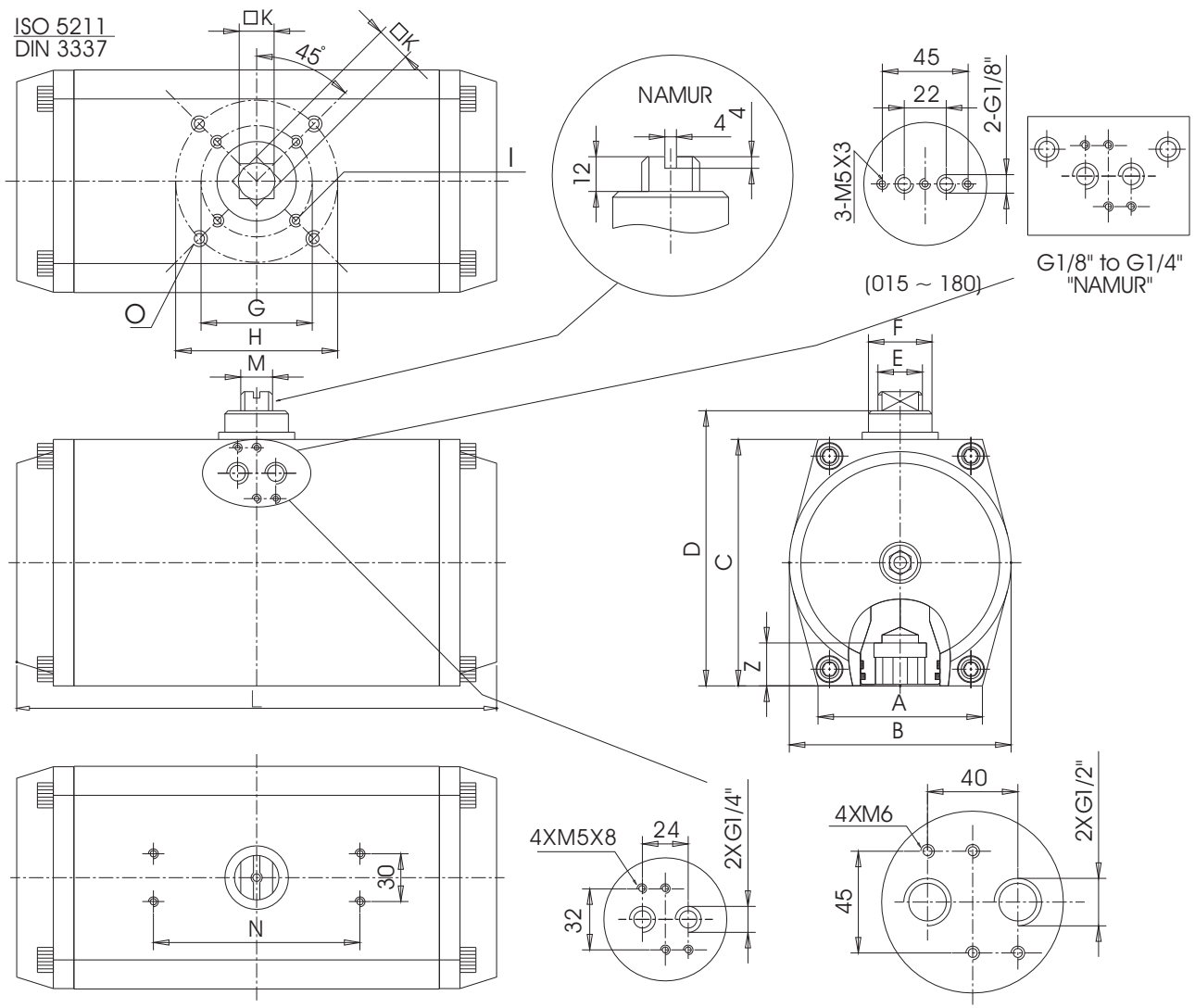
		Double-acting: 90°, 120°, 180° Single-acting: 90° Adjustable nominal pivoting angle from +5 to -5°
Standard	:	Interface actuator / signal unit acc. VDI/VDE 3845 (NAMUR) Interface actuator / control valve: acc. NAMUR i.e. VDI/VDE 3845 Interface actuator / valve: 4 i.e. 8 internal threads in actuator casing acc. EN ISO 5211



Assemble, Parts and Material



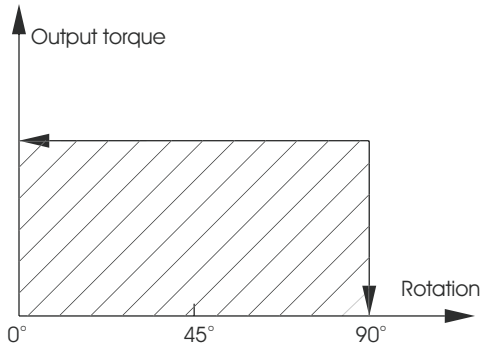
No.	Description	Qty.	Standards Material
1	Circlip	1	Stainless steel(304)
2	Thrust washer	1	Stainless steel(304)
3	Outside washer	1	Polyoxymethylene
4	Body	1	Extruded aluminum alloy(6005-T5)
5	Inside washer	1	Polyoxymethylene
6	O-ring(Pinion top)	1	NBR
7	Bearing(Pinion top)	1	Polyoxymethylene
8	Pinion	1	#45
9	Bearing(Pinion Bottom)	1	Polyoxymethylene
10	O-ring(Pinion Bottom)	1	NBR
11	Plug	2	NBR
12	Piston	2	Die-casting aluminum(101A)
13	O-ring(Piston)	2	NBR
14	Bearing(Piston)	2	Polyoxymethylene
15	Guide(Piston)	2	Nylon6
16	Spring	*	Spring steel
17	Spring Retainer(L)	*	Nylon66
18	Spring Retainer(R)	*	Nylon66
19	Retainer Connector	*	Brass
20	O-ring(End-cap)	2	NBR
21	End-cap	2	Die-casting aluminum(ADC12)
22	End-cap screw	8	Stainless steel(304)
23	Adjust screw	2	Stainless steel(304)
24	O-ring(Adjust screw)	2	NBR
25	Nut(Adjust screw)	2	

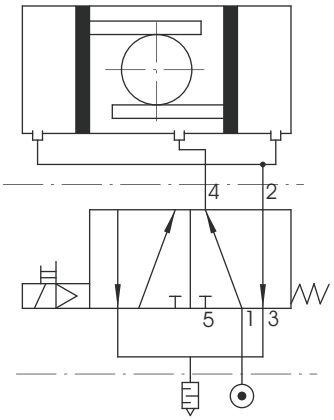


Model	A	B	C	D	E	F	ΦG	ΦH	I	K	L	M	N	O	Z	Air Connection
008	45	45	45	65	12	14	36	-	M5×8	9	118	10	80	-	9	G1/8"
015	48	58	65	95	12	14	36	50	M5×8	11	146	10	80	M6×10	14	G1/8"
020	50	59	74	104	12	14	36	50	M5×8	11	146	10	80	M6×10	14	G1/8"
040	60	72	88	118	12	18	50	70	M6×10	14	168	10	80	M8×13	18	G1/8"
050	65	83	100	130	12	18	50	70	M6×10	14	184	10	80	M8×13	18	G1/8"
080	67	90	109	139	14	18	50	70	M6×10	17	204	10	80	M8×13	21	G1/8"
125	76	104	120	150	18	25	50	70	M6×10	17	260	14	80	M8×13	21	G1/8"
180	90	115	133	163	20	25	70	102	M8×13	22	268	14	80	M10×16	26	NAMUR G1/4"
280	104	140	155	185	28	40	70	102	M8×13	22	298	20	130	M10×16	26	NAMUR G1/4"
480	107	152	171.5	201.5	28	40	102	125	M10×16	27	390	20	130	M12×20	31	NAMUR G1/4"
735	128	175.8	197	227	36	40	102	125	M10×16	27	458	28	130	M12×20	31	NAMUR G1/4"
1180	135	206	230	260	45	60	-	140	-	36	525	32	130	M16×25	40	NAMUR G1/4"
1440	135	226	255	285	45	60	-	140	-	36	532	32	130	M16×25	40	NAMUR G1/4"
2100	155	256	290	320	45	60	-	165	-	46	602	32	130	M20×25	50	NAMUR G1/2"
3200	190	294	320	350	45	60	-	165	-	46	722	32	130	M20×25	60	NAMUR G1/2"
4200	196	324	348	378	45	60	165	215	M20×25	46	742	32	130	M20×25	60	NAMUR G1/2"
6300	220	380	402	432	45	60	165	215	M20×25	46	860	32	130	M20×25	60	NAMUR G1/2"
9000	298	510	464	494	45	60	165	254	M20×25	55	924	32	130	8xM16x25	60	NAMUR G1/2"

Output Torque

Output torque of double Acting Actuator



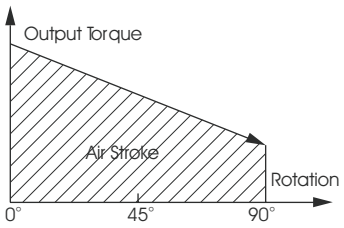


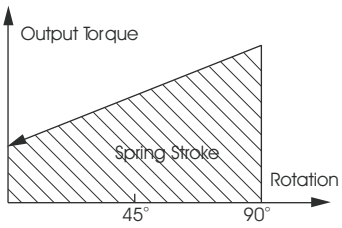
Output torque of double Acting Actuator

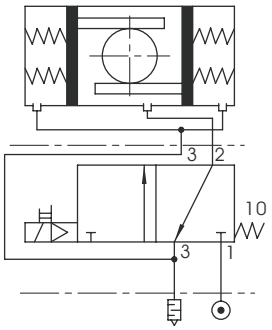
(Unit: NM)

Model	Air Pressure(Bar)									
	2	2.5	3	4	4.5	5	5.5	6	7	8
PDA008	3.1	3.8	4.6	4.6	6.1	7.6	8.4	9.2	10.7	12.2
PDA015	6.0	7.6	9.1	9.1	12.1	15.1	16.6	18.1	21.1	24.2
PDA020	8.1	10.1	12.1	12.1	16.1	20.2	22.2	24.2	28.2	32.3
PDA040	14.2	17.8	21.3	21.3	28.4	35.5	39.1	42.6	49.7	56.8
PDA050	20.1	25.2	30.2	30.2	40.3	50.3	55.4	60.4	70.5	80.5
PDA080	30.8	38.5	46.2	46.2	61.6	77.1	84.8	92.5	107.9	123.3
PDA125	45.4	56.8	68.2	68.2	90.9	113.6	125	136.3	159.1	181.8
PDA180	65.8	82.2	98.7	98.7	131.6	164.4	180.9	197.3	230.2	263.1
PDA280	103	128	154	154	205	256	282	308	359	410
PDA480	175	219	263	263	351	439	482	526	614	702
PDA735	267	334	401	401	535	668	735	802	935	1069
PDA1180	431	538	646	646	861	1077	1185	1292	1508	1723
PDA1440	526	658	789	789	1052	1316	1447	1579	1842	2105
PDA2100	773	966	1160	1160	1546	1933	2126	2320	2706	3093
PDA3200	1174	1468	1761	1761	2349	2936	3229	3523	4110	4697
PDA4200	1526	1908	2289	2289	3052	3815	4197	4578	5341	6104
PDA6300	2285	2856	3427	3427	4570	5712	6283	6854	7997	9139
PDA9000	3256	4069	4883	4883	6511	8139	8953	9767	11394	13022

Output torque







Output Torque of Pneumatic Actuator with Spring Return

Model	Air pressure(Bar)																			
	Spring Qty.	2		2.5		3		4		5		6		7		8		Springs'output	
		90° Start	0° End	90° Start	0° End	90° Start	0° End	90° Start	0° End	90° Start	0° End	90° Start	0° End	90° Start	0° End	90° Start	0° End	90° Start	0° End
PSR015	5	3.0	1.2	4.6	2.8													4.6	2.9
	6	2.3	0.2	3.9	1.8	5.4	3.3											5.5	3.5
	7			3.3	0.8	4.8	2.3	7.8	5.3									6.5	4.1
	8					4.2	1.3	7.2	4.3	10.2	7.3							7.4	4.6
	9							6.6	3.4	9.6	6.4	12.6	9.4					8.3	5.2
	10							6.0	2.4	9.0	5.4	12.0	8.4	15.0	11.4	18.1	14.5	9.2	5.8
	11									8.4	4.4	11.4	7.4	14.4	10.4	17.5	13.5	10.1	6.4
	12									7.8	3.5	10.8	6.5	13.8	9.5	16.9	12.6	11.1	7.0
PSR020	5	3.7	1.6	5.7	3.6													6.2	4.2
	6	2.8	0.3	4.8	2.3	6.8	4.3											7.4	5.1
	7			3.9	1.0	5.9	3.0	9.9	7.0									8.6	5.9
	8					5.0	1.7	9.0	5.7	13.1	9.8							9.9	6.8
	9							8.1	4.4	12.2	8.5	16.2	12.5					11.1	7.6
	10							7.2	3.1	11.3	7.2	15.3	11.2	19.3	15.2	23.4	19.3	12.4	8.5
	11									10.4	5.9	14.4	9.9	18.4	13.9	22.5	18.0	13.6	9.3
	12									9.5	4.6	13.5	8.6	17.5	12.6	21.6	16.7	14.8	10.1
PSR040	5	7.0	3.2	10.6	6.8													10.4	6.8
	6	5.6	1.0	9.2	4.6	12.7	8.1											12.5	8.2
	7			7.7	2.4	11.2	5.9	18.3	13.0									14.6	9.6
	8					9.8	3.7	16.9	10.8	24.0	17.9							16.7	10.9
	9							15.4	8.6	22.5	15.7	29.6	22.8					18.8	12.3
	10							14.0	6.4	21.1	13.5	28.2	20.6	35.3	27.7	42.4	34.8	20.9	13.7
	11									19.7	11.3	26.8	18.4	33.9	25.5	41.0	32.6	22.9	15.0
	12									18.2	9.1	25.3	16.2	32.4	23.3	39.5	30.4	25.0	16.4
PSR050	5	9.0	4.9	14.1	10.0													14.5	10.5
	6	6.8	1.8	11.9	6.9	16.9	11.9											17.4	12.7
	7			9.7	3.9	14.7	8.9	24.8	19.0									20.3	14.8
	8					12.4	5.8	22.5	15.9	32.5	25.9							23.2	16.9
	9							20.3	12.9	30.3	22.9	40.4	33.0					26.1	19.0
	10							18.1	9.8	28.1	19.8	38.2	29.9	48.3	40.0	58.3	50.0	29.0	21.1
	11									25.9	16.8	36.0	26.9	46.1	37.0	56.1	47.0	31.9	23.2
	12									23.7	13.7	33.8	23.8	43.9	33.9	53.9	43.9	34.7	25.3
PSR080	5	14.2	6.6	21.9	14.3													23.0	15.8
	6	10.8	1.7	18.5	9.4	26.2	17.1											27.6	19.0
	7			15.2	4.6	22.9	12.3	38.3	27.7									32.2	22.1
	8					19.6	7.4	35.0	22.8	50.5	38.3							36.8	25.3
	9							31.6	18.0	47.1	33.5	62.5	48.9					41.4	28.5
	10							28.3	13.2	43.8	28.7	59.2	44.1	74.6	59.5	90.0	74.9	46.0	31.6
	11									40.5	23.8	55.9	39.2	71.3	54.6	86.7	70.0	50.6	34.8
	12									37.1	19.0	52.5	34.4	67.9	49.8	83.3	65.2	55.2	38.0

Output torque

Model	Spring Qty.	Air pressure(Bar)																Springs'output	
		2		2.5		3		4		5		6		7		8			
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
PSR125	5	20.8	9.2	32.2	20.6													34.4	23.3
	6	15.9	2.0	27.3	13.4	38.7	24.8											41.2	28.0
	7			22.4	6.1	33.8	17.5	56.5	40.2									48.1	32.7
	8					28.9	10.3	51.6	33.0	74.3	55.7							55.0	37.3
	9							46.7	25.8	69.4	48.5	92.1	71.2					61.9	42.0
	10							41.8	18.5	64.5	41.2	87.2	63.9	110.0	86.7	132.7	109.4	68.7	46.7
	11									59.5	34.0	82.2	56.7	105.0	79.5	127.7	102.2	75.6	51.4
	12									54.6	26.8	77.3	49.5	100.1	72.3	122.8	95.0	82.5	56.0
PSR180	5	32.5	14.0	48.9	30.4													49.2	31.6
	6	25.8	3.6	42.2	20.0	58.7	36.5											59.1	38.0
	7			35.6	9.7	52.1	26.2	85.0	59.1									68.9	44.3
	8					45.4	15.8	78.3	48.7	111.1	81.5							78.7	50.6
	9							71.7	38.4	104.5	71.2	137.4	104.1					88.6	56.9
	10							65.0	28.0	97.8	60.8	130.7	93.7	163.6	126.6	196.5	159.5	98.4	63.3
	11									91.1	50.4	124.0	83.3	156.9	116.2	189.8	149.1	108.3	69.6
	12									84.5	40.1	117.4	73.0	150.3	105.9	183.2	138.8	118.1	75.9
PSR280	5	47.9	20.5	72.9	45.5													78.4	52.4
	6	36.9	4.0	61.9	29.0	87.9	55.0											94.1	62.8
	7			50.8	12.5	76.8	38.5	127.8	89.5									109.7	73.3
	8					65.8	22.0	116.8	73.0	167.8	124.0							125.4	83.8
	9							105.8	56.5	156.8	107.5	208.8	159.5					141.1	94.2
	10							94.8	40.0	145.8	91.0	197.8	143.0	248.8	194.0	299.8	245.0	156.8	104.7
	11									134.8	74.5	186.8	126.5	237.8	177.5	288.8	228.5	172.4	115.2
	12									123.7	58.0	175.7	110.0	226.7	161.0	277.7	212.0	188.1	125.7
PSR480	5	84.7	39.3	128.7	83.3													129.0	85.8
	6	66.6	12.1	110.6	56.1	154.6	100.1											154.8	102.9
	7			92.6	29.0	136.6	73.0	224.6	161.0									180.5	120.1
	8					118.5	45.8	206.5	133.8	294.5	221.8							206.3	137.3
	9							188.5	106.7	276.5	194.7	363.5	281.7					232.1	154.4
	10							170.4	79.5	258.4	167.5	345.4	254.5	433.4	342.5	521.4	430.5	257.9	171.6
	11									240.3	140.4	327.3	227.4	415.3	315.4	503.3	403.4	283.7	188.7
	12									222.3	113.2	309.3	200.2	397.3	288.2	485.3	376.2	309.5	205.9
PSR735	5	120.0	47.7	187.0	114.7													208.3	139.7
	6	90.6	3.9	157.6	70.9	224.6	137.9											250	168
	7			128.2	27.0	195.2	94.0	329.2	228.0									292	196
	8					165.8	50.2	299.8	184.2	432.8	317.2							333	223
	9							270.4	140.3	403.4	273.3	537.4	407.3					375	251
	10							241.0	96.4	374.0	229.5	508.0	363.5	641.0	496.5	775.0	630.5	417	279
	11									344.6	185.6	478.6	319.6	611.6	452.6	745.6	586.6	458	307
	12									315.2	141.7	449.2	275.7	582.2	408.7	716.2	542.7	500	335
PSR1180	5	220	105	327	212													293	190
	6	178	40	285	147	393	255											352	227
	7			243	82	351	190	566	405									410	265
	8					309	125	524	340	740	556							469	303
	9							482	275	698	491	913	706					527	341
	10							440	210	656	426	871	641	1087	857	1302	1072	586	379
	11									614	361	829	576	1045	792	1260	1007	645	417
	12									572	296	787	511	1003	727	1218	942	703	455
PSR1440	5	237	126	369	258													360	260
	6	179	46	311	178	442	309											432	313
	7			253	99	384	230	647	493									503	365
	8					326	150	589	413	853	677							575	417
	9							531	333	795	597	1058	860					647	469
	10							473	253	737	517	1000	780	1263	1043	1526	1306	719	521
	11									679	437	942	700	1205	963	1468	1226	791	573
	12									621	357	884	620	1147	883	1410	1146	863	625

GEVEER

PDA/PSR Series Pneumatic Actuator

Output torque

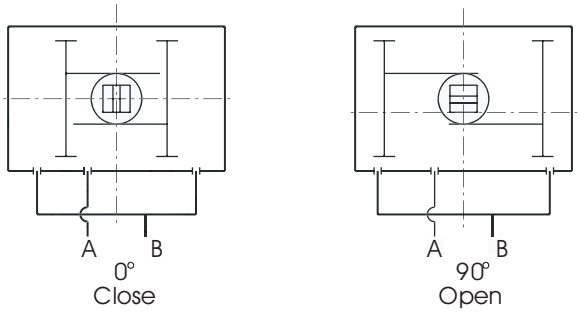
Unit:Nm

Model	Spring Qty.	Air pressure(Bar)																Springs'output	
		2		2.5		3		4		5		6		7		8			
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
PSR2100	5	341	190	534	383													525	389
	6	255	73	448	266	642	460											630	467
	7			361	150	555	344	941	730									735	544
	8					469	227	855	613	1242	1000							840	622
	9							768	496	1155	883	1542	1270					945	700
	10							682	380	1069	767	1456	1154	1842	1540	2229	1927	1050	778
	11									983	650	1370	1037	1756	1423	2143	1810	1155	855
	12									896	533	1283	920	1669	1306	2056	1693	1260	933
PSR3200	5	585	346	879	640													745	530
	6	467	181	761	475	1054	768											894	636
	7			644	309	937	602	1525	1190									1043	742
	8					819	437	1407	1025	1994	1612							1192	848
	9							1289	859	1876	1446	2463	2033					1341	954
	10							1171	694	1758	1281	2345	1868	2932	2455	3519	3042	1490	1060
	11									1640	1115	2227	1702	2814	2289	3401	2876	1639	1166
	12									1523	950	2110	1537	2697	2124	3284	2711	1788	1272
PSR4200	5	715	347	1097	729													1061	730
	6	553	112	935	494	1316	875											1273	876
	7			772	258	1153	639	1916	1402									1485	1022
	8					991	403	1754	1166	2517	1929							1697	1168
	9							1592	930	2355	1693	3118	2456					1909	1314
	10							1430	695	2193	1458	2956	2221	3719	2984	4482	3747	2122	1460
	11									2030	1222	2793	1985	3556	2748	4319	3511	2334	1606
	12									1868	986	2631	1749	3394	2512	4157	3275	2546	1752
PSR6300	5	982	393	1553	964													1702	1173
	6	721	15	1292	586	1863	1157											2043	1408
	7			1031	208	1602	779	2745	1922									2383	1642
	8					1341	401	2484	1544	3626	2686							2724	1877
	9							2224	1165	3366	2307	4508	3449					3064	2112
	10							1963	787	3105	1929	4247	3071	5390	4214	6532	5356	3405	2346
	11									2844	1551	3986	2693	5129	3836	6271	4978	3745	2581
	12									2584	1172	3726	2314	4869	3457	6011	4599	4086	2816
PSR9000	7	1215	56	2028	869													2880	1837
	8			1736	411	2550	1225											3292	2100
	9					2259	768	3887	2396									3703	2362
	10					1967	311	3595	1939	5223	3567							4115	2624
	11							3303	1482	4931	3110	6559	4738					4526	2887
	12							3012	1025	4640	2653	6268	4281	7895	5908	9523	7536	4938	3149
	13									4348	2195	5976	3823	7603	5450	9231	7078	5349	3412
	14									4057	1738	5685	3366	7312	4993	8940	6621	5761	3674
	15									3765	1281	5393	2909	7020	4536	8648	6164	6172	3937
	16											5101	2452	6728	4079	8356	5707	6584	4199
PSR23300	4			5116	1957													8741	5482
	5					5864	1791											10926	6853
	6							8733	3845									13111	8223
	7							7362	1659	11601	5898							15297	9594
	8									10230	3713	14469	7952	18708	12191	22947	16430	17482	10965
PSR44800	4			10497	3966													14743	8668
	5					12105	3940											18429	10835
	6							17782	7984									22115	13001
	7							15319	3888	23457	12026							25801	15168
	8									20995	7931	29134	16070	37273	24209	45412	32348	29487	17335
PSR84600	6					28205	12437											33744	17976
	7							40603	22207	55997	37601							39368	20972
	8									53001	31977	68394	47370	83788	62764	99182	78158	44992	23968

Operating Principle

Double Acting Actuators

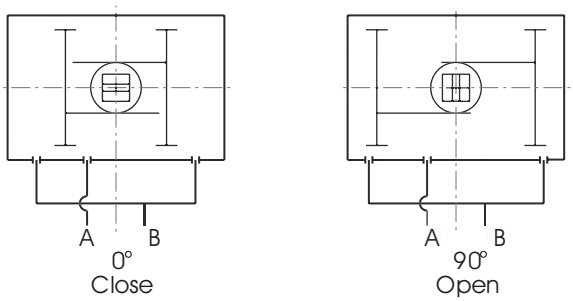
CCW



Air to Port A forces the pistons outwards,causing the pinion to turn counterclockwise while the air is being exhausted from Port B.

Air to Port B forces the pistons inwards,causing the pinion to turn clockwise while the air is being exhausted from Port A.

CW

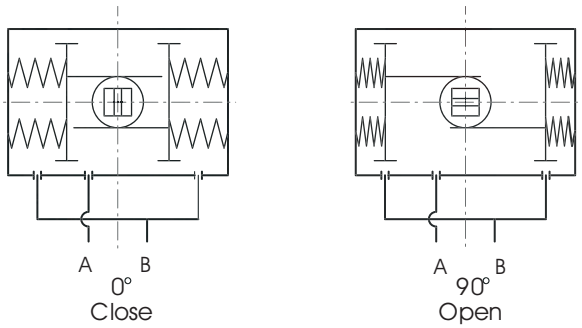


Air to Port A forces the pistons outwards,causing the pinion to turn clockwise while the air is being exhausted from Port B.

Air to Port B forces the pistons inwards,causing the pinion to turn counterclockwise while the air is being exhausted from Port A.

Spring Return Actuators

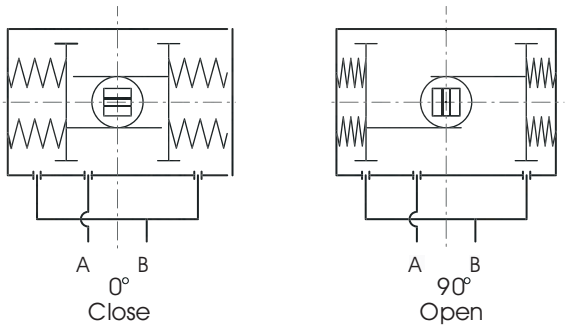
CCW



Air to Port A forces the pistons outwards,causing the spring to compress,The pinion turns counterclockwise while the air is being exhausted from Port B.

Loss of air pressure on Port A,the stored energy in the springs forces the pistons inwards,the pinion turns clockwise while the air is being exhausted from Port A.

CW



Air to Port A forces the pistons outwards,causing the spring to compress,The pinion turns clockwise while the air is being exhausted from Port B.

Loss of air pressure on Port A,the stored energy in the springs forces the pistons inwards,the pinion turns counterclockwise while the air is being exhausted from Port A.

Weight Table

PS Series

Unit: Kg

Model	PS-015	PS-040	PS-080	PS-180	PS-280	PS-480	PS-735
Weight(SR)	2.65	4.10	7.00	12.60	19.20	27.30	37.60
Weight(DA)	2.51	3.85	6.35	11.90	18.00	24.80	35.80

P Series

Unit: Kg

Model	P-008	P-015	P-020	P-040	P-050	P-080	P-125	P-180	P-280	P-480
Weight(SR)	-	1.12	1.23	1.95	2.43	3.15	5.05	6.95	9.25	15.30
Weight(DA)	0.75	1.05	1.10	1.80	2.16	2.85	4.30	6.15	8.80	12.15

Model	P-735	P-1180	P-1440	P-2100	P-3200	P-4200	P-6300	P-9000	P-23300	P-44800
Weight(SR)	23.80	44.80	53.6	76.80	115.00	130.00	234.40	360.40	1110.00	2130.00
Weight(DA)	20.10	38.10	45.10	63.00	93.80	110.00	186.50	289.00	980.40	1975.00

Operation Time

Unit: s

Double Acting			Spring Return													
Size	0°-90°	90°-0°	Size	Springs												
				3+3		3+4		4+4		4+5		5+5		5+6		6+6	
				0°-90°	90°-0°	0°-90°	90°-0°	0°-90°	90°-0°	0°-90°	90°-0°	0°-90°	90°-0°	0°-90°	90°-0°	0°-90°	90°-0°
008	0.5	0.4	SR15	2.35	0.37	2.37	0.36	2.39	0.35	2.41	0.33	2.43	0.31	2.45	0.29	2.47	0.27
015	0.55	0.47	SR20	2.46	0.48	2.48	0.46	2.5	0.44	2.52	0.42	2.54	0.4	2.56	0.38	2.58	0.36
020	0.6	0.53	SR40	2.54	0.56	2.56	0.54	2.58	0.52	2.6	0.5	2.62	0.48	2.64	0.46	2.66	0.44
040	0.66	0.58	SR50	2.62	0.64	2.64	0.62	2.66	0.6	2.68	0.58	2.7	0.56	2.72	0.54	2.74	0.52
050	0.72	0.64	SR80	2.71	0.73	2.73	0.71	2.75	0.69	2.77	0.67	2.79	0.65	2.81	0.63	2.83	0.61
080	0.83	0.73	SR125	2.89	0.86	2.91	0.84	2.93	0.82	2.95	0.8	2.97	0.78	2.99	0.76	3.01	0.74
125	1	0.86	SR180	3.14	0.91	3.16	0.89	3.18	0.87	3.2	0.85	3.22	0.83	3.24	0.81	3.26	0.79
180	1.35	1.3	SR280	4.24	1.2	4.26	1.18	4.28	1.16	4.3	1.14	4.32	1.12	4.34	1.1	4.36	1.08
280	2.4	1.79	SR480	4.4	1.35	4.4	1.33	4.62	1.31	4.64	1.29	4.66	1.27	4.68	1.25	4.68	1.22
480	2.5	2.1	SR735	4.74	1.77	4.76	1.75	4.78	1.73	4.8	1.71	4.82	1.69	4.82	1.67	4.84	1.65
735	3.93	2.6	SR1180	5.75	3.7	5.77	3.5	5.75	3.48	5.77	3.46	5.79	3.44	5.8	3.42	5.83	3.4
1180	4.55	3.45	SR1440	8.25	4.8	8.4	4.6	8.42	4.58	8.44	4.56	8.46	4.54	8.48	4.52	8.5	4.5
1440	5.5	4.35	SR2100	16.2	5.14	16.4	5.12	16.42	5.1	16.44	4.9	16.6	4.98	16.8	4.86	17	4.84
2100	8.4	8.33	SR3200	17.6	6.28	17.8	6.26	17.6	6.24	17.8	6.2	18	6.18	18.2	6.16	18.4	6.14
3200	10.9	8.53	SR4200	24	13.2	24.5	13	24.4	12.8	24.3	12.6	24.5	12.58	24.7	12.56	24.9	12.54
4200	15	14.9	SR6300	31	17.3	31.5	17	31.3	16.8	31	16.6	31.2	16.58	31.4	16.56	31.6	16.54
6300	23.7	18.6	SR9000	45	27	51	27	51.3	26.8	51.5	26.8	51.7	26.6	51.9	26.4	52.1	26.2
9000	31	29															

Air Pressure: 5 bar

Operating Conditions

1. Operating media
   Dry or lubricated air, the non-corrosive gases or oil.
2. Air supply pressure
   Double acting: 2~ 8 Bar; Spring return: 2~8 Bar
3. Operating temperature
   Standard: -20°C ~ +80°C
   Low temperature: -35°C ~ +80°C
   High temperature: -15°C ~ +150°C
4. Travel adjustment
   Have adjustment range of ±4°for the rotation at 90°
5. Lubrication
   Under normal operating condition, need not accrete lubricant
6. Application
   Either indoor or outdoor
7. Highest pressure
   The maximum input pressure is 10 Bar

Air Consumption

Air volume opening & closing

Model	Volume Opening	Volume Closing
PDA008	0.04	0.04
PS/PDA015	0.08	0.11
PDA020	0.11	0.14
PS/PDA040	0.20	0.23
PDA050	0.29	0.38
PS/PDA080	0.41	0.55
PDA125	0.62	0.91
PS/PDA180	0.94	1.18
PS/PDA280	1.47	1.85
PS/PDA480	2.43	3.20
PS/PDA735	3.65	5.03

Model	Volume Opening	Volume Closing
PDA1180	5.9	7.9
PDA1440	7.4	9.7
PDA2100	10.7	14.3
PDA3200	16.9	22.5
PDA4200	23.8	29.7
PDA6300	35.1	46.3
PDA9000	52.6	36
PDA23300	132.6	110
PDA44800	252.5	210
PDA84600	557	572
PDA121500	717	727

Air consumption rest with Air Supply. Air volume and Action cycle times, expressions:
L/Min=Air volume(Air volume Opening +Air volume closing) X [(Air Supply(Kpa)+101.3) /101.3] X Action cycle times (/min)