



VALUE

Value in Valving

OPERATORS



BUTTERFLY VALVES & CONTROLS
www.bvcusa.com

OPERATORS

LEVER OPERATOR



GEAR OPERATOR



Pneumatic Operators



GEAR OPERATOR



Electric Actuator

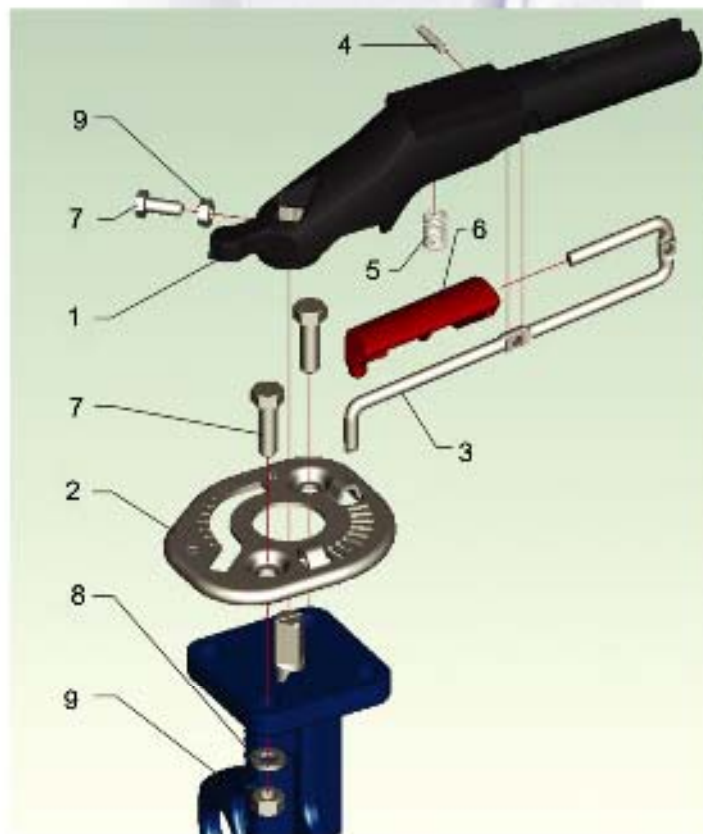
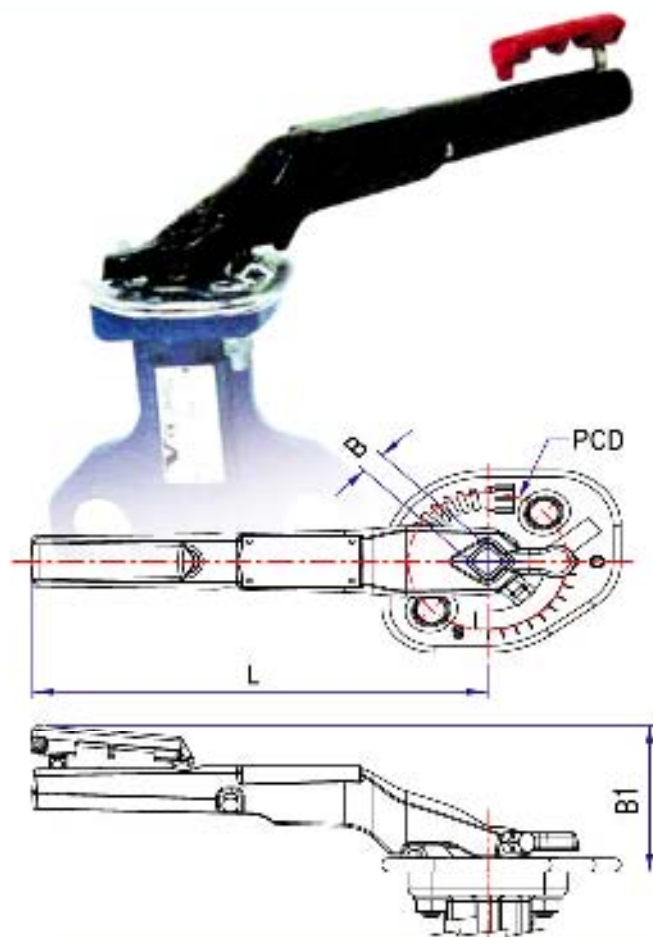




LEVER OPERATOR

SERIES NO.:

L 7A
L 7B
L 10



No.	Name	Materials
1	HANDLE	DUCTILE IRON STAINLESS STEEL
2	INDICATOR	STAINLESS STEEL STEEL
3	TRIGGER	STAINLESS STEEL
4	RIVET	STAINLESS STEEL
5	SPRING	STAINLESS STEEL

No.	Name	Materials
6	SECURE HOLDER	PLASTIC
7	BOLT	STEEL STAINLESS STEEL
8	SPRING WASHER	STEEL STAINLESS STEEL
9	NUT	STEEL STAINLESS STEEL

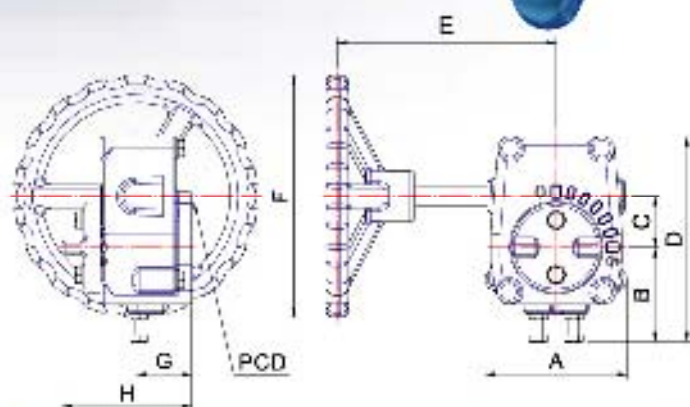
Series No.	Dimensions					Mounting flange (ISO 5211)		Weight lbs
	L	B1	Allowable Valve Stem Diameter			Type	B.C.	
L 7A	7.87	2.95	Min	Max	ØB	F07	2.76	1.54
L 7B	9.84	2.95	0.51	0.55	0.43	F07	2.76	1.76
L 10	13.98	3.31	0.55	0.75	0.55	F10	4.02	3.52
					0.67			
					0.75			
					0.87			



GEAR OPERATOR

SERIES NO.:

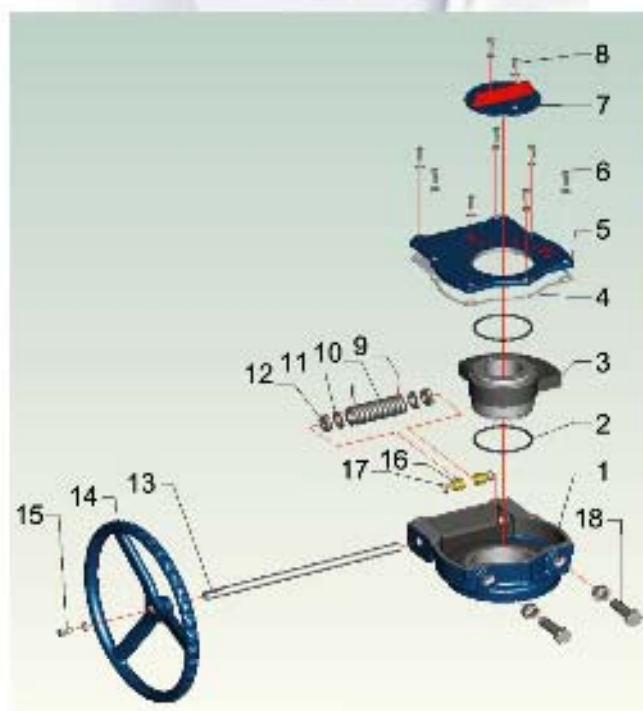
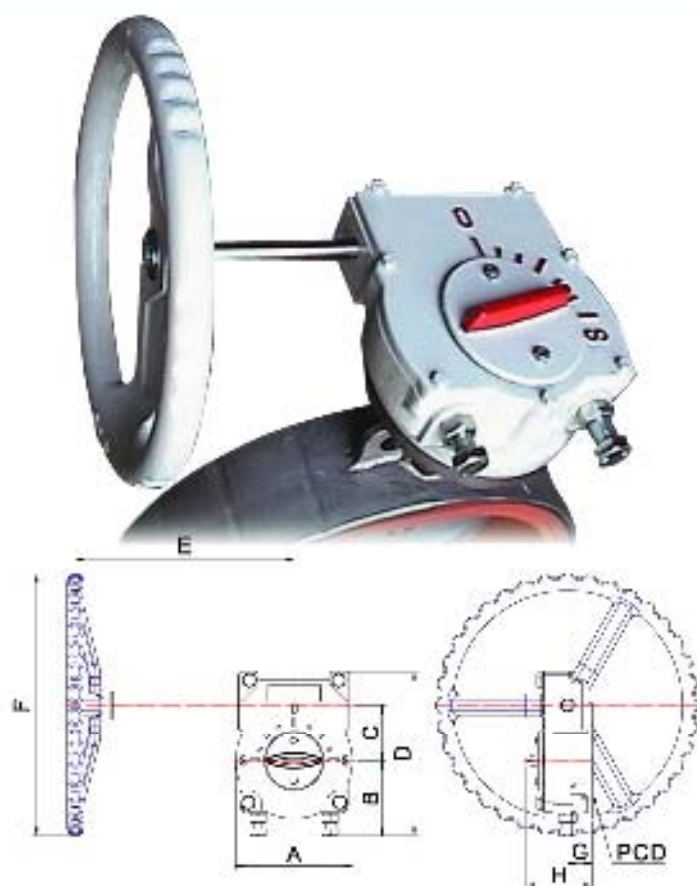
C 07 C 12
C 10 C 14



No.	Name	Materials
1	BODY	CAST IRON
2	WORM GEAR	DUCTILE IRON
3	O-RING	NBR
4	PACKING	PAPER
5	COVER	CAST IRON
6	BOLT	STEEL
7	INDICATOR	CAST IRON
8	BOLT	STEEL

No.	Name	Materials
9	STOP BOLT	STEEL
10	SPRING PIN	STEEL
11	WORM	STEEL
12	O-RING	NBR
13	WORM SHAFT	STEEL
14	HANDWHEEL	CAST IRON
15	SPRING PIN	STEEL
16	BEARING	STEEL

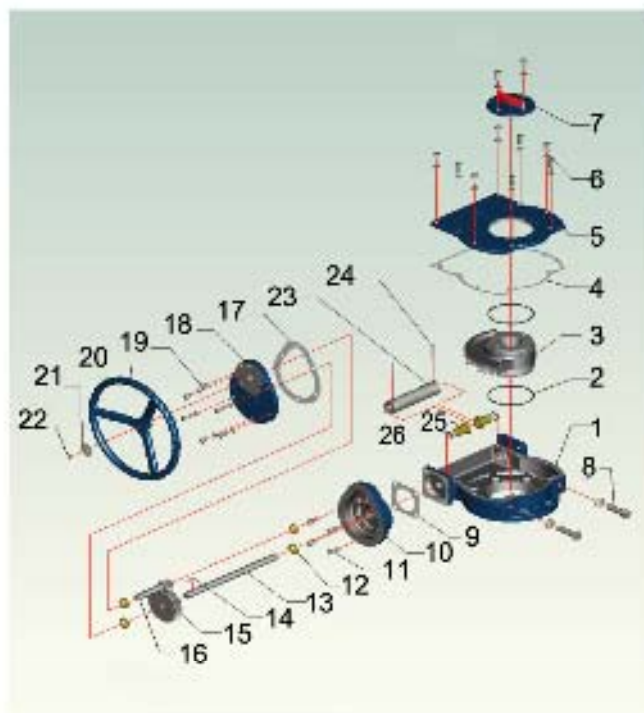
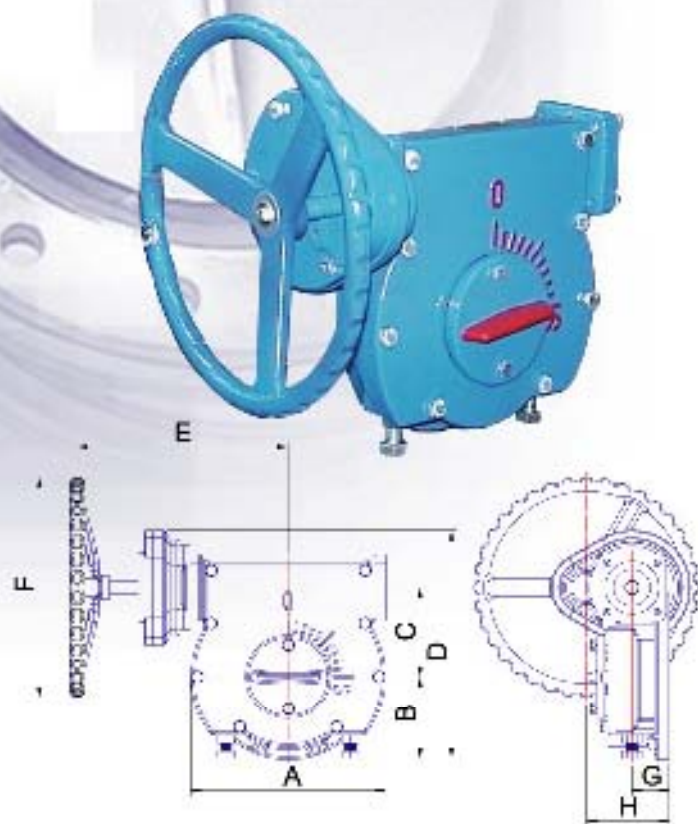
Series No.	Allowable Valve Stem Diameter			Dimensions								Mounting flange (ISO 5211)		Gear ratio	Weight lbs
	Depth	Min	Max	A	B	C	D	E	F	G	H	Type	PCD		
C 07	2.28	0.51	0.75	3.43	1.93	1.61	5.12	6.10	5.91	1.46	3.19	F07	2.76	1:40	7.26
C 10	2.56	0.75	1.10	4.61	3.19	2.48	6.93	7.68	7.87	1.63	3.58	F10	4.02	1:36	16.50
C 12	2.68	0.98	1.38	6.02	3.82	2.40	7.32	9.13	12.20	1.61	3.46	F12	4.92	1:36	19.80
C 14	3.74	1.26	1.97	7.13	4.02	3.19	8.78	11.02	15.75	2.05	4.61	F14	5.51	1:52	48.40



No.	Name	Materials
1	BODY	CAST IRON
2	O-RING	NBR
3	WORM GEAR	DUCTILE IRON
4	PACKING	PAPER
5	COVER	CAST IRON
6	BOLT	STEEL
7	INDICATOR	CAST IRON
8	BOLT	STEEL
9	SPRING PIN	STEEL

No.	Name	Materials
10	WORM	STEEL
11	THRUST RING	STEEL
12	BEARING	STEEL
13	WORM SHAFT	STEEL
14	HANDWHEEL	CAST IRON
15	BOLT	STEEL
16	BUSHING	COPPER
17	O-RING	NBR
18	STOP BOLT	STEEL

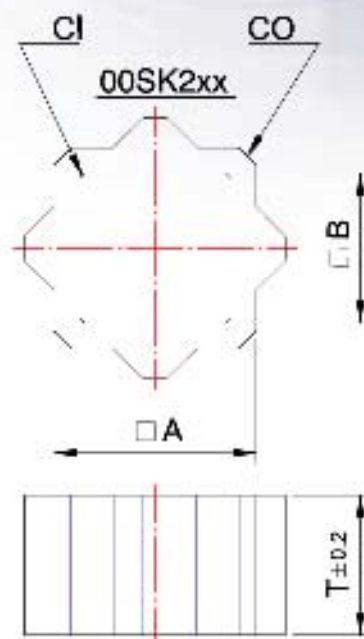
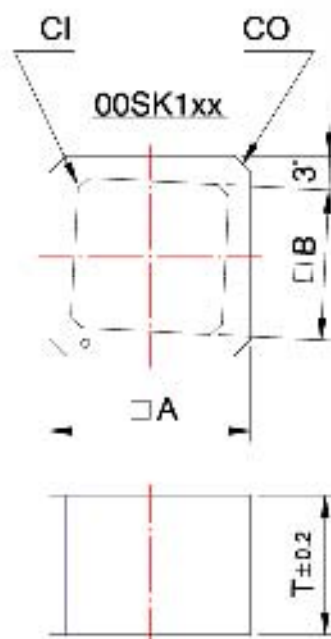
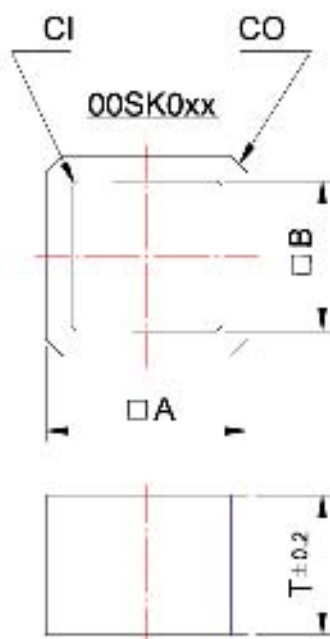
Series No.	Allowable Valve Stem Diameter			Dimensions								Mounting flange (ISO 5211)		Gear ratio
	Depth	Min	Max	A	B	C	D	E	F	G	H	Type	PCD	
AB	2.56	0.51	0.75	5.51	2.72	2.01	6.50	7.44	5.91	1.42	3.19	F07	2.76	01:40
AA	2.56	0.75	1.10	5.51	2.72	2.01	6.50	7.95	7.87	1.42	3.19	F10	4.02	01:36
A0	2.76	0.98	1.38	5.91	3.27	2.36	7.20	10.83	12.20	1.50	3.35	F12	4.92	01:36
A1	2.87	1.28	1.97	6.89	4.45	3.31	9.88	12.91	15.75	1.46	3.90	F14	5.51	01:52
A2	3.82	1.77	3.15	9.88	4.45	4.84	11.54	12.09	15.75	2.20	5.00	F16	6.50	1:70



No.	Name	Materials
1	BODY	CAST IRON
2	O-RING	NBR
3	WORM GEAR	DUCTILE IRON
4	PACKING	PAPER
5	COVER	CAST IRON
6	BOLT	STEEL
7	INDICATOR	CAST IRON
8	STOP BOLT	STEEL
9	PACKING	PAPER
10	SPUR GEAR BODY	CAST IRON
11	SOCKET BOLT	STEEL
12	BEARING	COPPER
13	WORM SHAFT	STEEL

No.	Name	Materials
14	KEY	STEEL
15	SPUR GEAR	STEEL
16	SPUR GEAR SHAFT	STEEL
17	PACKING	PAPER
18	SPUR GEAR COVER	CAST IRON
19	BOLT	STEEL
20	HANDWHEEL	CAST IRON
21	INDICATED WASHER	STEEL
22	BOLT	STEEL
23	WORM	STEEL
24	SPRING PIN	STEEL
25	BUSHING	COPPER
26	O-RING	NBR

Series No.	Allowable Valve Stem Diameter			Dimensions									Mounting flange (ISO 5211)		Gear ratio
	Depth	Min	Max	A	B	C	D	E	F	G	H	Type	PCD		
A3+S3	4.45	2.76	3.74	13.43	5.83	6.30	16.18	14.57	15.75	2.56	5.71	FO7	10.00	1:270	
A4+S4	7.09	3.33	4.53	16.22	9.80	7.76	22.80	18.54	23.62	3.39	7.72	F10	11.73	1:360	



SOCKET DIMENSIONAL TABLE

Series No.	A (mm/in)	B (mm/in)	T	CI	CO
00SK001	14 / .55	11 / .43	15	0	1
00SK002	17 / .67	11 / .43	20	1	2
00SK003	17 / .67	14 / .55	20	1	2
00SK004	22 / .86	11 / .43	25	1	3
00SK005	22 / .86	14 / .55	25	1	3
00SK006	22 / .86	17 / .67	25	1	3
00SK007	22 / .86	19 / .75	25	1	2.1
00SK008	27 / 1.06	22 / .86	25	1.5	2
00SK009	36 / 1.42	27 / 1.06	25	1	3
00SK010	36 / 1.42	32 / 1.26	25	1	3
00SK101	14 / .55	11 / .43	15	0	1
00SK102	17 / .67	11 / .43	20	1	2
00SK103	17 / .67	14 / .55	20	1	2

Series No.	A (mm/in)	B (mm/in)	T	CI	CO
00SK104	22 / .86	11 / .43	25	1	3
00SK105	22 / .86	14 / .55	25	1	3
00SK106	22 / .86	17 / .67	25	1	3
00SK107	22 / .86	19 / .75	25	1	2.1
00SK108	27 / 1.06	22 / .86	25	1.5	2
00SK109	36 / 1.42	27 / 1.06	25	1	3
00SK110	36 / 1.42	32 / 1.26	25	1	3
00SK201	17 / .67	14 / .55	20	1	1.5
00SK202	22 / .86	17 / .67	25	1	1.5
00SK203	27 / 1.06	22 / .86	25	1	1.5
00SK204	36 / 1.42	27 / 1.06	25	1	2
00SK205	48 / 1.91	36 / 1.42	25	1.5	3.5

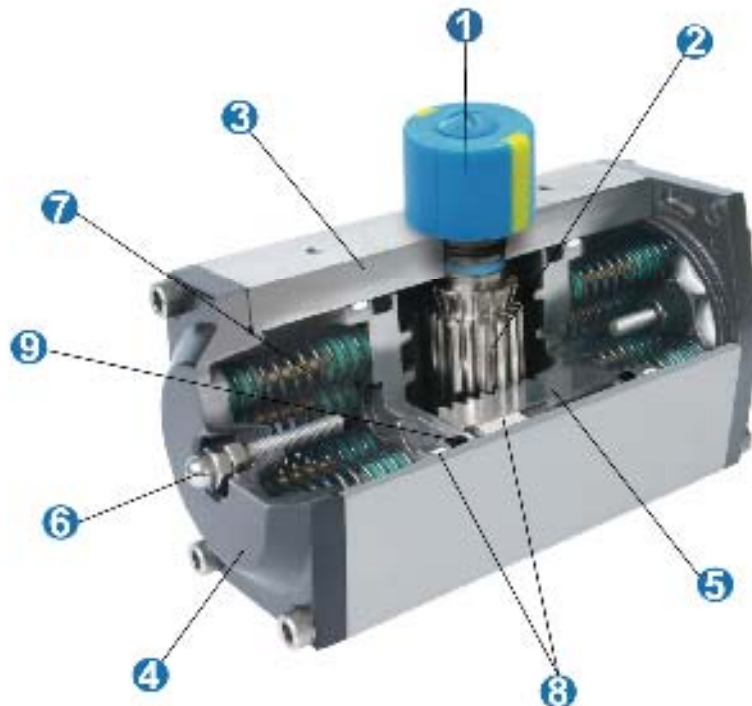
pneumatic OPERATORS





RPB Series Features and Benefits

RPB Series Pneumatic Actuators offer excellent quality and workmanship in a compact, efficient unit. Through state-of-the-art design, the RPB series features high reliability, high cycle life, durability, and ease of maintenance as well as CW (closed) adjustment on double acting actuators. Excellent coatings make this a very good choice in most corrosive applications



7. Springs are small, individually encapsulated and coated allowing the actuator spring stroke to be tailored to the specific application with ease.

8. Delrin Wear Pads eliminate any metal to metal contact, and allow actuator to operate with minimum friction. Replacement is easy and inexpensive

9. O - Rings Seals on the Rack and on the Pinion provide bubble tight seal to 120 psig. Removal is easy and inexpensive. Buna is standard, high and low temperature O-rings are available



1. Top Stem is Namur mount for ease of mounting Namur accessories such as limit switches, and positioners. Actuator comes standard with plastic position indicator.

2. Pinion is precision machined of alloy steel and nickel plated for maximum strength. Top and bottom dimensions are ISO 5211 and Namur. Stainless Steel Pinion is available.

3. Actuator Body is precision extruded aluminum alloy ASTM 6005, hard anodized and powder polyester coated for maximum corrosion resistance. Nickel Plating is also available.

4. End Caps are die-cast aluminum powder coated. Nickel plating is also available.

5. Dual Racks are die-cast aluminum then hard anodized. Balanced racks provide long life in high cycle applications

6. Travel Stops allow + 5 degree adjustment of closed position on double acting actuators



RPC Series Features and Benefits

The RPC Series Pneumatic Actuator is an Aluminum Rack and Pinion Actuator available in Double Acting and Spring Return. This actuator offers a multifunction top indicator and travel adjustments in both the Open and Closed positions as standard. The Top Works and Solenoid are per Namur Standards, the Bottom Works are per ISO-5211 International Standards.



Features :

1.Indicator

Position indicator features Namur Mounting for accessories such as Limit Switches and Positioners.

2.Pinion

Precision machined of Nickel Alloy Steel and meets ISO-5211 International Standards.

3.Body

Extruded Aluminum of Alloy ASTM 6005 is Hard Anodized and Powder Polyester Coated. Optional Nickel Coating is available.

4.End Caps

Die Cast Aluminum, Polyester Powder Coated. The addition of Springs requires no modification of actuator or end caps.

5.Pistons

Balanced Twin Pistons are Die Cast of Aluminum and Hard Anodized. Galvanized Cast Steel is available. Rotation may be reversed very easily.

6.Travel Adjustments

Two Independent Travel Stops, mounted on the Pinion, allow adjustments + 5 Degrees in the Open and Closed positions.

7 High Performance Springs

Preloaded, Coated Springs are made of high quality steel to resist corrosion and offer long cycle life. The actuator may be loaded with a variable number of springs to match the operating characteristics of the valve.

8 Bearings and Guides

Made of Wear Resistant Delrin, these pads isolate the metal parts in the actuator and offer exceptional high cycle life and stability.

9 O-Rings

NBR (Buna N) is standard, providing trouble free operation in most operating temperatures, however Viton and Silicone are available for more demanding high and low temperature applications



SPECIAL STROKE ACTUATORS



Extended Stroke Actuators

Series B Special Stroke Pneumatic Actuator
Available in 60, 120, 145, 180 and 360 Degree Strokes

Available in 3 - Position Dribble Controls
Utilizing Limit Switch Box and Solenoids

Available with Long Stops
ISO-5211 Valve Mounting
Nimur Accessory Mounting

Stainless Steel Actuators

Series A Pneumatic Actuator

Available in 316L, 316, 304, 303

Stainless Steel makes this an excellent choice for most aggressive applications.

Stainless Steel Hardware is standard 304

Pistons and Pinion are standard 304SS.

Valve Mounting is ISO-5211

Accessory Mounting is Nimur



Manual DeClutchable Override

ISO-5211 Mounting

Sandwiches between Valve and Actuator

Wrench Operated Clutch Mechanism

Standard with Grease Serts

Oversize Handwheel for Easy Operation



RPB & C Series Pneumatic Actuators

Torques - Double Acting

Model	40	60	80	100	120
RPB/C30	192	256	347	447	511
RPB/C50	267	357	481	624	712
RPB/C75	414	552	753	988	1104
RPB/C110	604	804	1109	1408	1609
RPB/C160	873	1165	1608	2037	2328
RPB/C250	1361	1815	2606	3176	3630
RPB/C428	2328	3105	4288	5433	6208
RPB/C653	3548	4731	6535	8279	9462
RPB/C1053	5718	7624	10530	13342	15249
RPB/C1266	6965	9314	12664	16299	18627
RPB/C1690	10264	13686	18902	23850	27371
RPB/C2670	15588	20785	28702	36374	41570

RPB Torques - Spring Return

Model	Spring Start	Spring End	60		80		100		120	
			Start	End	Start	End	Start	End	Start	End
RPB/C30										
5	156	102	332	278						
6	188	123	311	248						
7	219	144	290	215	434	359				
8	251	164	270	183	414	327	594	507		
9	282	185	249	152	393	296	573	476	681	584
10	314	206			372	264	552	444	660	552
11	344	226			353	234	533	414	641	522
12	375	248					512	383	620	491
RPB/C50										
5	218	158	447	387						
6	261	191	414	344						
7	305	222	383	300	583	501				
8	348	254	351	257	552	457	804	710		
9	392	285	320	213	520	414	773	666	923	816
10	435	317			489	370	741	623	891	773
11	479	348			457	327	710	579	860	729
12	521	380					678	537	828	687
RPB/C75										
5	345	237	688	581						
6	414	285	651	522						
7	483	332	605	453	917	785				
8	552	380	557	384	889	698	1259	1086		
9	621	428	509	315	821	627	1211	1017	1445	1251
10	690	474			774	558	1164	948	1398	1182
11	759	522			726	489	1116	879	1350	1113
12	828	570					1068	810	1302	1044
RPB/C110										
5	516	350	1014	848						
6	618	420	944	745						
7	722	491	873	642	1327	1096				
8	825	560	804	554	1258	893	1627	1362		
9	929	630	734	435	1188	889	1757	1458	2097	1897
10	1031	701			1117	787	1686	1356	2027	1583
11	1134	771			1047	684	1616	1253	1958	1490
12	1238	840					1547	1149	1887	0



RPB & C Series Pneumatic Actuators

Model	Spring Start	Spring End	60		80		100		120	
			Start	End	Start	End	Start	End	Start	End
RPB/C160										
5	738	474	1500	1236						
6	887	570	1404	1088						
7	1034	665	1310	941	1866	1587				
8	1181	759	1215	794	1872	1450	2894	2273		
9	1329	854	1121	645	1777	1302	2800	2124	3093	2818
10	1476	950			1881	1155	2504	1977	2997	2471
11	1625	1044			1587	1008	2409	1829	2903	2322
12	1772	1125					2315	1682	2808	2175
RPB/C250										
5	1176	786	2291	1901						
6	1412	942	2135	1665						
7	1646	1100	1977	1431	3003	2457				
8	1881	1267	1820	1186	2845	2221	4127	3503		
9	2117	1413	1664	960	2688	1886	3871	3257	4740	4037
10	2352	1571			2532	1750	3613	3032	4583	3801
11	2586	1728			2374	1518	3858	2798	4425	3587
12	2822	1888					3498	2582	4288	3332
RPB/C428										
5	1935	1287	3975	3327						
6	2322	1544	3719	2940						
7	2708	1802	3461	2555	5215	4309				
8	3095	2060	3203	2168	4957	3922	7149	6114		
9	3482	2316	2946	1781	4700	3635	6893	5727	8208	7043
10	3869	2574			4433	3148	6635	5340	7950	6656
11	4256	2831			4186	2761	6378	4853	7694	6268
12	4643	3089					6120	4588	7436	5882
RPB/C853										
5	3125	2098	5924	4895						
6	3750	2520	5499	4289						
7	4380	2940	5079	3639	7751	6198				
8	4995	3345	4674	3024	7346	5086	10688	9038		
9	5625	3765	4254	2394	6926	4436	10268	8408	12272	10412
10	6255	4185			6506	3821	9849	7778	11852	9782
11	6870	4605			6086	3821	9428	7163	11432	9167
12	7500	5025					9008	6533	11012	8537
RPB/C1053										
5	4385	2850	10073	8528						
6	5280	3405	9518	7843						
7	6150	3975	8948	6773	13255	11080				
8	7035	4545	8378	5888	12885	10195	18069	15579		
9	7905	5115	7808	5018	12115	9325	17499	14709	20730	17940
10	8790	5685			11545	8440	16929	13824	20160	17055
11	9675	6255			10975	7555	16359	12939	19590	16170
12	10545	6825					15789	12069	19020	15300
RPB/C1286										
5	5400	3900	11886	10386						
6	6480	4695	11091	9306						
7	7545	5475	10311	8241	15573	13503				
8	8625	6255	9531	7161	14793	12423	21371	19001		
9	9205	7035	8751	6081	14003	11343	20591	17921	24537	21867
10	10785	7815			13233	10263	19811	16841	23757	20787
11	11885	8595			12453	9183	19031	15761	22977	19707
12	12945	9375					18251	14681	22197	18827
RPB/C1890										
5	7875	5835	17361	15321						
6	9450	7005	16191	13746						
7	11025	8160	15036	12171	22768	19903				
8	12600	9330	13866	10596	21598	18328	31263	27993		
9	14175	10500	12696	9021	20428	16753	30093	26418	35892	32217
10	15750	11670			19258	15178	28923	24843	34722	30642
11	17325	12825			18103	13603	27768	23268	33567	29067
12	18900	13995					26598	21693	32397	28892
RPB/C2870										
5	11175	7950	27279	24054						
6	13410	9540	25889	21819						
7	15845	11130	24099	19584	35842	31327				
8	17880	12720	22509	17349	34252	29092	48930	43770		
9	20115	14310	20919	15114	32662	26857	47340	41535	56148	50343
10	22350	15900			31072	24622	45750	39300	54558	48108



ELECTRIC ACTUATOR

SERIES NO.:
EOM



Series No.	Power	Torque	Speed	Weight	Manual	Mounting flange (ISO 5211) Type
	Watts				Override	
EOM-A	10 W	443	20	6.6	N/A	F07
EOM-1	10 W	310	12	4.4	Lever	F03/F05/F07
EOM-2	40 W	797	15	19.8	Hand-wheel	F07
EOM-3	40 W	1329	22	19.8	Hand-wheel	F07
EOM-4	120 W	3543	22	38.6	Hand-wheel	F10
EOM-5	120 W	4429	28	38.6	Hand-wheel	F10
EOM-6	120 W	5757	35	38.6	Hand-wheel	F10
EOM-7	180 W	8857	46	79.4	Hand-wheel	F14
EOM-8	220 W	13286	46	79.4	Hand-wheel	F14
EOM-9	180 W	17714	58	123.5	Hand-wheel	F16
EOM-10	220 W	22143	58	123.5	Hand-wheel	F16
EOM-11	250 W	26571	58	123.5	Hand-wheel	F16
EOM-12	300 W	31000	58	123.5	Hand-wheel	F16

OTHER PRODUCTS



**Resilient Seated
Butterfly Valves**



**High
Performance
Butterfly
Valves**



**Teflon
Seated
Butterfly
Valves**



**Triple
Eccentric
Butterfly
Valves**



**AWWA
C -504
Butterfly
Valves**



**Rack &
Pinion
Actuators**



**Electric
Rotary
Actuators**



**Manual
Operators**



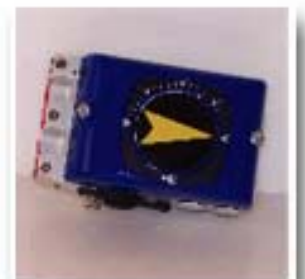
**Namur
Mount Limit
Switches**



**Namur
Mount
Solenoid**



**Manual
De-Clutchable
Overrides**



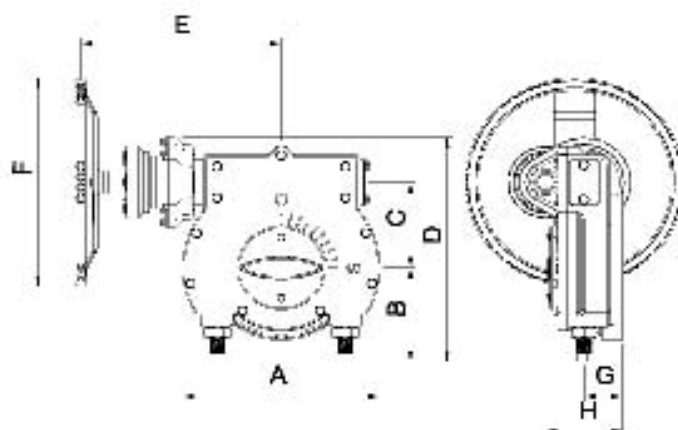
Positioners



Butterfly Valves & Controls Inc.

671 Industrial Blvd
Grapevine, Texas 76051
Phone: 817-421-5343
Facs: 817-416-6270
E-mail: sales@bvcusa.com
<http://www.bvcusa.com>





No.	Name	Materials
27	SPUR GEAR BODY	CAST IRON
28	BOLT	STEEL
29	SPUR GEAR	STEEL

No.	Name	Materials
30	SPUR GEAR SHAFT	STEEL
31	PACKING	PAPER
32	SPUR GEAR COVER	CAST IRON

Series No.	Allowable Valve Stem Diameter			Dimensions								Mounting flange (ISO 5211)		Gear ratio
	Depth	Min	Max	A	B	C	D	E	F	G	H	Type	PCD	
A5+S5+S3	7.09	3.15	5.51	21.26	10.63	9.72	25.43	22.20	23.62	4.13	5.12	FO7	14.02	1:840
A6+S6+S4	9.25	5.51	7.09	27.80	11.42	12.99	30.98	28.98	23.62	4.92	6.34	F10	15.98	1:1764
A7+S7.8+S4	11.02	6.89	7.87	32.76	13.23	13.23	38.86	33.82	23.62	5.94	12.36	F48	19.02	1:2808