

VED Series Pneumatic Actuator

Features

- Wide Range Available
- The actuator range consists of torques from 6Nm (4bar) to 110000Nm(7bar) (please see VEDLseries above 3000Nm)
- Spring Combination with high security
- No danger occurring during loading and unloading springs.
- Special materials ensuring to be durable for long-term continuous operation.
- Spring with special treatment avoiding internal corrosion.
- Operating Media

Filter dry or lubricated air for non-corrosive gas,water or light hydraulic oil. The maximum partical size must not exceed 30 microms.

- Stroke Adjustment
0°and90°with standard adjustment $\pm 5^\circ$.

- Lubrication

All moving parts are factory lubricated for entire life cycle of actuator.

- Contruction

Twin piston rack and pinion actuator design, suitable for indoor and outdoor installation.

- Connections

Bottom drilling complies with ISO5211/DIN 3337 to match valve.interface for solenoid valve ,shaft top end and top drilling for assembling accessories are in accordance with VDI/VDE-3845,NAMUR standard.

- Inspection

Every actuator is hydraulically tested, certified and guaranteed for a minimum of 800,000 cycles.

- Indicator

A position indicator with mamur mounting is standard on all VED pneumatic actuators for monting accessories.

- Pinion

The hardened alloy steel pinion is ground and Nickel plated (over 25um)in order to reduce friction, provide maximum wear resistance .Full conformance with the newest standards of ISO5211,DIN3337. The dimensions can be customized and as options, stainlees steel and aluminium are also avallable.

- Actuator Body

The aluminum extrusion is hard anodized (over 30um) to protet agaienet wear and corrosion while reducing pitions such as Nickel plating,PTFE and powder polyester painting are available.

- End Caps

Epoxy coated(over 200um)die cast aluminum end caps provide maxmum reistance against potentially corrosive elements. Oher treatments such as Nickel plating &PTFE painiting are available.

- Pistons

The precisely-balanced and hard anodized (over 30um) die cast aluminum pistons are fitted with high quality rings and guides. The twin rack and piston design creates a constant torque output on all actuators.

- Travel Adjustment

The standard adjustment is $\pm 5\% \text{ in}$ both the open and closed positions through easily accessible external adjustment bolts.

- High Performance springs

The high tensile steel springs are coated with zinc phosphate for corrosion resistance and longer service. The pre-loaded springs can be safely & rapidly disassembled.

- Bearings & Guides

The highly durable compound material provides high trust stability with minimum friction and long life.

- Rings

NBR O-Rings provide trouble-free operation at standard temperature ranges. Viton and Silicone O-Rings are available for high or low temperature applications.

Item	Description	Material	Protection	Qty	Optional
1	Actuator Body	Extruded Aluminum Alloy	Hard Anodized(over 30um)	1	Nickel or PTFE Plated
2	Pinion	Alloy Steel	Nickel Plated(over 25um)	1	S.S. or Alu.Alloy
3 *	O-Ring(Lower Pinion)	NBR		1	Viton/Silicone
4 *	O-Ring(Top Pinion)/	NBR		1	Viton/Silicone
5	Thrust Bearing(Pinion)	PTFE+15%Graphite		1	
6	Spring Clip	Stainless Steel		1	
7	Piston	Die Cast Aluminum Alloy	Hard Anodized(over 30um)	2	
8 *	Piston Seal	NBR		2	Viton/Silicone
9	Stroke Bolt	Stainless Steel		2	
10 *	Stroke Bolt O-Ring	NBR		2	Viton/Silicone
11	Stroke Bolt Washer	Stainless Steel		2	
12	Stroke Bolt Retaining Nut/	Stainless Steel		2	
13	End Cap	Die Cast Aluminum	Epoxy Coated(over 200um)	2	Nickel or PTFE Plated
14 *	End Cap Seals	NBR		2	Viton/Silicone
15	End Cap Bolts	Stainless Steel		8	

Item	Description	Material	Protection	Qty	Optional
1	Indicator	Plastic		1	
2	Spring Clip	Stainless Steel		1	
3	Thrust Washer(Pinion)	Stainless Steel		1	
4	Thrust Bearing(Pinion)	PTFE+15%Graphite		1	
5	Actuator Body	Extruded Alluminum Alloy	Hard Anodized(over 30um)	1	Nickel or PTFE Plated
6	Piston	Die Cast Aluminum Alloy	Hard Anodized(over 30um)	2	
7	Spring(Cartridge)	High Performance Spring Steel	Zinc Phosphate Coated	0-12	
8 *	End Cap Seals	NBR		2	Viton/Silicone
9	End Cap Bolts	Stainless Steel		8	
10	End Cap	Die Cast Aluminum	Epoxy Coated(over 200um)	2	Nickel or PTFE Plated
11 *	Piston Bearing	Nylon 46		2	
12 *	Piston Seal	NBR		2	Viton/Silicone
13 *	Piston Guide	Nylon 46		2	
14	Stroke Bolt	Stainless Steel		2	
15	Stroke Bolt Retaining Nut	Stainless Steel		2	
16	Stroke Bolt Washer	Stainless Steel		2	
17 *	Stroke Bolt O-Ring	NBR		2	Viton/Silicone
18 *	O-Ring(Top Pinion)	NBR		1	Viton/Silicone
19 *	Bearing(Top Pinion)	Nylon 46		1	
20 *	Thrust Bearing(Pinion)/	PTFE+15%Graphite/		1	
21	Stroke Cam	Stainless Steel		1	
22	Pinion	Alloy Steel	Nickel Plated(over 25um)	1	S.S. or Alu.Alloy
23 *	Bearing(Lower Pinion)	Nylon 46		1	
24 *	O-Ring(Lower Pinion)	NBR		1	Viton/Silicone
25 *	Plug	NBR		2	Viton/Silicone

Torque Table of Double Acting Actuator

Unit: N.m

Model	Air Supply Pressure(bar / psig)						
	2/29	3/44	4/58	5/73	6/87	7/102	8/116
VED-01	2.78	4.20	6.00	7.50	9.00	10.00	11.50
	24.61	37.17	53.11	66.38	79.66	88.51	101.79
VED-02	8.32	12.48	16.64	20.80	24.96	29.12	33.28
	73.63	110.45	147.26	184.08	220.90	257.71	294.53
VED-04	14.64	21.96	29.28	36.60	43.92	51.24	58.56
	129.56	194.35	259.13	323.91	388.69	453.47	518.26
VED-06	20.76	31.14	41.52	51.90	62.28	76.66	83.04
	183.73	275.59	367.45	459.32	551.18	678.44	734.90
VED-09	30.32	45.48	60.64	75.80	90.96	106.12	121.28
	268.33	402.50	536.66	670.83	805.00	939.16	1073.33
VED-14	45.50	68.30	91.00	113.70	136.40	159.20	181.90
	402.67	604.46	805.35	1006.25	1207.14	1408.92	1609.82
VED-20	67.88	101.82	136.76	169.70	203.64	237.58	271.52
	300.74	901.11	1210.33	1501.85	1802.21	2102.58	2402.95
VED-30	116.60	174.90	233.20	291.50	349.80	408.10	466.40
	1031.91	1547.87	2063.82	2579.78	3095.73	3611.69	4127.64
VED-50	175.48	263.22	350.96	438.70	526.44	614.18	701.92
	1553.00	2329.50	3106.00	3882.50	4658.99	5435.49	6211.99
VED-70	267.40	401.10	534.80	668.5	802.20	935.90	1069.60
	2366.49	3549.74	4732.98	5916.23	7099.47	8282.72	9465.96
VED-12 0	430.96	646.44	861.90	1077.40	1292.90	1508.40	1723.80
	3814.00	5720.99	7627.82	9534.99	11442.1 7	13349.3 4	15255.6 3
VED-16 0	592.20	888.40	1184.50	1480.60	1776.70	2072.80	2369
	5240.97	7862.34	10482.8 3	13103.3 1	15723.8 0	18344.2 8	20965.6 5
VED-26 0	928.30	1392.50	1856.60	2320.80	2785.00	3249.10	3713.30
	8215.46	12323.6 3	16430.9 1	20539.0 8	24647.2 5	28754.5 4	32862.7 1
VED-37 0	1305.40	1958.20	2610.90	3263.60	3916.30	4569.00	5221.80
	11552.7 9	17330.0 7	23106.4 7	28882.8 6	34659.2 6	40435.6 5	46212.9 3

Torque Table(Nm)

unit:Nm

Model	Spring Set	Spring Torque		Air Supply Pressure(unit :bar)									
				3		4		5		6		7	
		Air Torque Output((Nm)											
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
VEDS-02	5	4.0	6.2	8.5	6.3	12.6	10.4	----	----	----	----	----	----
	6	4.8	7.5	7.7	5.0	11.8	9.1	----	----	----	----	----	----
	7	5.5	8.7	7.0	3.8	11.1	7.9	----	----	----	----	----	----
	8	6.3	9.9	----	----	10.3	6.7	14.5	10.9	----	----	----	----
	9	7.1	11.2	----	----	9.5	5.4	13.7	9.6	----	----	----	----
	10	7.9	12.4	----	----	8.7	4024.0	12.9	8.4	17.1	12.6	----	----
	11	8.7	13.7	----	----	----	----	12.1	7.1	16.3	11.3	20.4	15.4
	12	9.5	14.9	----	----	----	----	11.3	5.9	15.5	10.1	19.6	14.2
VEDS-04	5	7.0	10.8	15.0	11.2	22.3	18.5	29.6	25.8	----	----	----	----
	6	8.5	13.0	13.5	9.0	20.8	16.3	28.1	23.7	----	----	----	----
	7	9.9	15.1	12.0	6.9	19.4	14.2	26.7	21.5	----	----	----	----
	8	11.3	17.3	----	----	18.0	12.0	25.3	19.3	32.6	26.6	----	----
	9	12.7	19.4	----	----	16.5	9.9	23.9	17.2	31.2	24.5	----	----
	10	14.0	21.6	----	----	15.3	7.7	22.6	15.0	29.9	22.3	37.2	29.6
	11	15.5	23.7	----	----	13.8	5.6	21.1	12.9	28.4	20.2	35.7	27.5
	12	16.9	25.9	----	----	----	----	19.7	10.7	27.0	18.0	34.3	25.3
VEDS-06	5	11.9	17.5	23.4	17.8	35.1	29.5	----	----	----	----	----	----
	6	14.2	21.0	21.1	14.3	32.8	26.0	----	----	----	----	----	----
	7	16.6	24.5	18.7	10.8	30.4	22.5	----	----	----	----	----	----
	8	19.0	28.0	----	----	28.0	19.0	39.8	30.8	----	----	----	----
	9	21.3	31.5	----	----	25.7	15.5	37.5	27.3	----	----	----	----
	10	23.7	35.0	----	----	23.3	12.0	35.1	23.8	46.8	35.5	58.6	47.3
	11	26.1	38.5	----	----	----	----	32.7	20.3	44.4	32.0	56.2	47.3
	12	28.4	42.0	----	----	----	----	30.4	16.8	42.1	28.5	53.9	40.3
VEDS-09	5	14.5	21.7	30.9	23.8	46.1	38.9	----	----	----	----	----	----
	6	17.4	26.0	28.1	19.5	43.3	34.6	----	----	----	----	----	----
	7	20.3	30.4	25.2	15.1	40.3	30.2	----	----	----	----	----	----
	8	23.2	34.7	----	----	37.4	25.9	52.6	41.1	----	----	----	----
	9	26.1	39.1	----	----	34.5	21.5	49.7	36.7	----	----	----	----
	10	29.0	43.4	----	----	31.6	17.2	46.8	32.4	62.0	47.6	77.1	62.7

	11	31.9	47.7	----	----	----	----	43.9	28.1	59.1	43.3	74.2	58.4
	12	34.8	52.1	----	----	----	----	41.0	23.7	56.2	38.8	71.3	54.0
VEDS-14	5	22.9	34.4	45.3	33.8	68.1	56.6	----	----	----	----	----	----
	6	27.5	41.3	40.7	26.9	63.5	49.7	----	----	----	----	----	----
	7	32.1	48.2	----	----	58.9	42.8	81.6	65.5	----	----	----	----
	8	36.7	55.1	----	----	54.3	35.9	77	58.6	----	----	----	----
	9	41.3	62	----	----	49.7	29	72.4	51.7	----	----	----	----
	10	45.8	68.8	----	----	45.2	22.2	67.9	44.9	90.6	67.6	113.4	90.4
	11	50.4	75.7	----	----	----	----	63.3	38	86	60.7	113.4	90.4
	12	55	82.6	----	----	----	----	58.7	31.1	81.4	53.8	104.2	76.6
VEDS-20	5	33.2	49.8	68.6	52	103.6	87	----	----	----	----	----	----
	6	39.9	59.8	61.9	42	96.9	77	----	----	----	----	----	----
	7	46.5	69.7	55.3	32.1	90.3	67.1	----	----	----	----	----	----
	8	53.1	79.7	----	----	83.7	57.1	116.6	90	----	----	----	----
	9	59.8	89.4	----	----	77	47.4	109.9	80.3	----	----	----	----
	10	66.4	99.6	----	----	70.4	37.2	103.3	70.1	137.3	104	171.2	138
	11	73	109.6	----	----	----	----	96.7	60.1	130.6	94	164.6	128
	12	79.7	119.5	----	----	----	----	90	50.2	123.9	84.1	157.9	118.1
VEDS-30	5	59.4	86.9	115.5	88	173.8	146.3	----	----	----	----	----	----
	6	71.3	104.3	103.6	70.6	161.9	128.9	----	----	----	----	----	----
	7	83.1	121.6	91.8	53.5	150.1	111.6	----	----	----	----	----	----
	8	95	139	----	----	138.2	94.2	196.5	152.5	----	----	----	----
	9	106.9	156.4	----	----	126.3	76.8	184.6	135.1	----	----	----	----
	10	118.8	173.8	----	----	114.4	59.4	172.7	117.7	231	176	----	----
		11	130.	191.	----	----	----	----	160.	100.	219.	158.	277.

		6	1					9	4	2	7	5	
	12	142. 5	208. 5	----	----	----	----	149	83	207. 3	141. 3	265. 6	199. 6

Torque Table(Nm)

unit: Nm

Model	Spring Set	Spring Torque		Air Supply Pressure(unit :bar)									
				3		4		5		6		7	
				Air Torque Output((Nm)									
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
VEDS-50	5	89	132	175	131	263	219	----	----	----	----	----	----
	6	106	158	157	105	245	193	----	----	----	----	----	----
	7	124	185	134	78	227	166	----	----	----	----	----	----
	8	142	211	----	----	209	140	297	228	----	----	----	----
	9	159	238	----	----	192	113	279	228	----	----	----	----
	10	177	264	----	----	174	87	262	175	349	262	438	350
	11	195	290	----	----	----	----	244	148	332	236	420	324
	12	212	317	----	----	----	----	226	122	314	210	402	297
VEDS-70	5	137	204	265	197	398	331	----	----	----	----	----	----
	6	164	245	237	156	371	290	----	----	----	----	----	----
	7	191	286	210	115	344	249	----	----	----	----	----	----
	8	218	327	183	75	316	208	450	342	----	----	----	----
	9	246	367	----	----	289	168	423	301	----	----	----	----
	10	273	408	----	----	262	127	396	260	529	394	----	----
	11	300	449	----	----	----	----	368	220	502	353	636	487
	12	328	490	----	----	----	----	341	179	475	313	608	446
VEDS-120	5	217	326	429	320	645	536	----	----	----	----	----	----
	6	261	391	386	255	601	471	----	----	----	----	----	----
	7	304	456	342	190	558	406	----	----	----	----	----	----
	8	348	522	----	----	514	340	730	556	----	----	----	----
	9	391	587	----	----	471	275	686	491	----	----	----	----
	10	435	652	----	----	427	210	643	425	858	641	1074	856
	11	478	717	----	----	----	----	599	360	815	576	1030	791

	12	522	782	----	----	----	----	556	295	771	511	987	726
VEDS-16 0	5	299	448	590	44 1	886	737	----	----	----	----	----	----
	6	359	537	530	35 1	826	647	----	----	----	----	----	----
	7	418	627	470	26 2	76 6	558	----	----	----	----	----	----
	8	478	716	----	----	706	468	100 3	764	----	----	----	----
	9	538	809	----	----	647	376	943	672	----	----	----	----
	10	598	896	----	----	587	289	883	585	117 9	881	147 5	1177
	11	657	985	----	----	----	----	823	496	111 9	792	141 5	1088
	12	717	107 5	----	----	----	----	764	406	106 0	702	135 6	998
VEDS-26 0	5	469	702	924	69 1	148 8	115 5	----	----	----	----	----	----
	6	563	842	830	55 0	129 4	101 4	----	----	----	----	----	----
	7	656	983	737	41 0	120 1	874	----	----	----	----	----	----
	8	750	112 3	----	----	110 7	733	157 1	119 8	----	----	----	----
	9	843	126 4	----	----	101 3	593	147 8	105 7	----	----	----	----
	10	937	140 4	----	----	920	453	138 4	917	184 8	138 1	231 2	1845
	11	103 1	154 4	----	----	----	----	129 0	776	175 4	124 1	221 9	1705
	12	112 4	168 5	----	----	----	----	119 7	636	166 1	110 0	212 5	1564
VEDS-37 0	5	659	987	130 0	97 1	195 2	162 4	----	----	----	----	----	----
	6	790	118 4	116 8	77 4	182 1	142 7	----	----	----	----	----	----
	7	922	138 2	103 6	57 6	168 9	122 9	----	----	----	----	----	----
	8	105 4	157 9	----	----	155 7	103 2	221 0	168 4	----	----	----	----
	9	118 5	177 7	----	----	142 6	834	207 8	148 7	----	----	----	----
	10	131	197	----	----	129	637	194	129	259	194	325	259

		7	4			4		7	0	9	2	2	5
	11	144 9	217 1	----	----	----	----	181 5	109 2	246 8	174 5	312 0	2398
	12	158 0	236 9	----	----	----	----	168 3	895	233 6	154 8	298 9	2200

Dimension Table

Model	A	B	C	D	E	F	G	H	I	N	A120*	A180*	J	K	L	M	Air Conne- tion
VED(S)-01	110	45	45	65	22.5	22.5	12	50	25	9	-----	-----	F03	----	M5x7.5	-----	1/8"
	4.33	1.7 7	1.7 7	2.56	0.8 9	0.89	0.4 7	1.9 7	0.98	0.3 5	-	-			#10-24UNF		
VED(S)-02	137	74	60	94	30	41	14	80	30	11	158	200	F05	F03	M6x10	M5x8	1/8"or
	5.39	2.9 1	2.3 6	3.70	1.1 8	1.61	0.5 5	3.1 5	1.18	0.4 3	6.22	7.87			1/4" -20UNC	#10-32U NF	1/4"(std)
VED(S)-04	158	88	69	108	36	45	18	80	30	14	184	233	F07	F05	M8x13	M6x10	1/8"or
	6.22	3.4 6	2.7 2	4.25	1.4 2	1.77	0.7 1	3.1 5	1.18	0.5 5	7.24	9.17			5/16" -18UNC	1/4" -20UNC	1/4"(std)
VED(S)-06	168	100	78	120	42	50	20	80	30	14	193	243	F07	F05	M8x13	M6x10	1/8"or
	6.61	3.9 4	3.0 7	4.72	1.6 5	1.97	0.7 9	3.1 5	1.18	0.5 5	7.60	9.57			5/16" -18UNC	1/4" -20UNC	1/4"(std)
VED(S)-09	192	109	88	129	46	52.5	21	80	30	17	221	280	F07	F05	M8x13	M6x10	1/8"or
	7.56	4.2 9	3.4 6	5.08	1.8 1	2.07	0.8 3	3.1 5	1.18	0.6 7	8.70	11.02			5/16" -18UNC	1/4" -20UNC	1/4"(std)
VED(S)-14	248. 5	120	95	140	50. 5	56	22	80	30	17	290	374	F07	F05	M8x13	M6x10	1/8"or
	9.78	4.7 2	3.7 4	5.51	1.9 9	2.20	0.8 7	3.1 5	1.18	0.6 7	11.42	14.72			5/16" -18UNC	1/4" -20UNC	1/4"(std)
VED(S)-20	262	133	105. 5	153	57. 5	64	26	80	30	22	304	388	F10	F07	M10x16	M8x13	1/4"
	10.3 1	5.2 4	4.1 5	6.02	2.2 6	2.52	1.0 2	3.1 5	1.18	0.8 7	11.97	15.28			3/8" -16UNC	5/16" -18UNC	
VED(S)-30	313	155	120 .5	175	67. 5	70	27. 5	80	30	22	365	470	F10	F07	M10x16	M8x13	1/4"
	12.3 2	6.1 0	4.7 4	6.89	2.6 6	2.76	1.0 8	3.1 5	1.18	0.8 7	14.37	18.50			3/8" -16UNC	5/16" -18UNC	

VED(S)-50	379.5	171.5	132	191.5	75	76	32	80	30	27	442	568	F12	F10	M12x20	M10x16	1/4"
	14.94	6.75	5.20	7.54	2.95	2.99	1.26	3.15	1.18	1.06	17.40	22.36			1/2" -13UNC	3/8" -16UNC	
VED(S)-70	434	197	159.5	217	86.5	87.5	34	80	30	27	507	654	F12	F10	M12x20	M10x16	1/4"
	17.09	7.76	6.28	8.54	3.41	3.44	1.34	3.15	1.18	1.06	19.96	25.75			1/2" -13UNC	3/8" -16UNC	
VED(S)-120	491	230	184	260	102	102	40	130	30	36	575	742	F14	----	M16x24	-----	1/4"
	19.33	9.06	7.24	10.24	4.02	4.02	1.57	5.12	1.18	1.42	22.64	29.21			5/8" -11UNC		
VED(S)-160	548	225	205	285	113	113	40	130	30	36	642	831	F14	----	M16x24	-----	1/4"
	21.57	10.04	8.07	11.22	4.45	4.45	1.57	5.12	1.18	1.42	25.28	32.72			5/8" -11UNC		
VED(S)-260	626	290	240	320	130	130	50	130	30	46	739	965	F16	----	M20x26	-----	1/4"(std.)or 3/8"
	24.65	11.42	9.45	12.60	5.12	5.12	1.97	5.12	1.18	1.81	29.09	37.99			3/4" -10UNC		
VED(S)-370	698	325	269	355	147	147	50	130	30	46	823	1075	F16	----	M20x26	-----	1/4"(std.)or 1/2"
	27.48	12.80	10.59	13.98	5.79	5.79	1.97	5.12	1.18	1.81	32.40	42.32			3/4" -10UNC		

***A120&A180 are separately represented 120"and 180"operation.**

***Dimensions for reference only,subject to change.**

Air Consumption -Air Volume Opening & Closing

Motel	Air Volume@opening (liter)	Air Volume@closing (liter)	Motel	Air Volume@opening (liter)	Air Volume@closing (liter)
VED(S)-01	0.03	0.04	VED(S)-30	1.20	1.60
	1.17	2.32		73.22	97.62
VED(S)-02	0.09	0.12	VED(S)-50	1.70	2.40
	5.49	7.32		103.72	146.43
VED(S)-04	0.14	0.20	VED(S)-70	2.60	3.70
	8.54	12.20		158.63	225.75
VED(S)-06	0.21	0.30	VED(S)-120	4.20	5.90
	12.81	18.30		256.25	359.98
VED(S)-09	0.29	0.41	VED(S)-160	5.70	8.20
	17.69	25.02		347.77	500.31
VED(S)-14	0.49	0.71	VED(S)-260	9.00	12.80
	29.90	43.32		549.12	780.97
VED(S)-20	0.70	0.99	VED(S)-370	12.60	17.90
	42.71	60.40		768.76	1092.13

The Table of Actuators Weight & Opening Closing Time

Motel 型号	VED(S)-01		VED(S)-02		VED(S)-04		VED(S)-06		VED(S)-09		VED(S)-14		VED(S)-20	
	D	S	D	S	D	S	D	S	D	S	D	S	D	S
Screw stroke sdj.for 1\$dj.need	-----		1/5tum		1/5tum		1/5tum		1/5tum		1/4tum		1/4tum	
Opening Time (Sec.)	0.03	-----	0.2	0.25	0.25	0.3	0.3	0.35	0.4	0.5	0.5	0.6	0.7	0.8
Closing Time (Sec.)	0.03	-----	0.25	0.3	0.3	0.35	0.4	0.5	0.5	0.6	0.7	0.	0.9	1.1
Approximate Weight (Kg/Lbs)	0.5/1.1	-----	1.0/2.2	1.0/2.2	1.6/3.5	1.8/4.0	2.6/5.7	3.1/6.8	3.1/6.8	3.6/6.8	4.9/10.8	5.7/12.5	6.5/14.3	7.7/16.9

Motel	VED(S)-30		VED(S)-50		VED(S)-70		VED(S)-120		VED(S)-160		VED(S)-260		VVED(S)-370	
	D	S	D	S	D	S	D	S	D	S	D	S	D	S
Screw stroke sdj.for 1\$dj.need	1/4tum		1/4tum		1/4tum		1/3tum		1/3tum		1/3tum		1/3tum 1/3 转	
Opening Time (Sec.)	0.9	1.1	1.3	1.5	1.6	1.8	2.2	2.4	2.9	3.4	3.8	4.3	4.5	5.0
Closing Time (Sec.)	1.2	1.4	1.6	1.9	1.9	2.2	2.6	3.0	3.8	4.1	4.4	5.0	5.0	5.5
Approximate Weight (Kg/Lbs)	9.9/21.8	11/24.2	13.8/30.4	16.3/35.9	19/41.8	24/52.8	28/61.6	34/74.8	37/81.4	45/99	52/114.4	64/140.8	85/187	104/228.8

Order Information

Type	Motel	Spring Set	Seals	Options
VED	01	Blank	Blank	120
Double Acting Actuator	02	(Double Acting Actuator)	(stangard NBR seals)	120°operation
	04	05		180
VEDS	06	06	HT=on seals	180°operation
Spring Return Actuator	09	07	(for high temperature)	SS
	14	08		Stainless Steel Housing
VEDN	20	09	LT=Silicone seals	
Double Acting Actuator	30	10	(for low temperature)	
(Nickel Plated Housing)	50	11		
	70	12		
VEDSN	120			
Spring Return Actuator	160			
(Nickel Plated Housing)	260			
	370			