

# Butterfly Valve Accessories

## Manual Handles, Gear Operators and Other Accessories

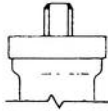
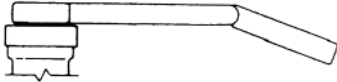
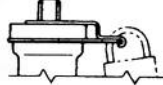
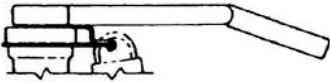
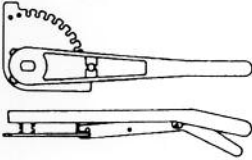


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# Manual Actuator Assemblies

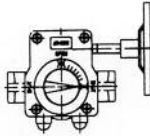
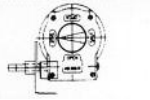
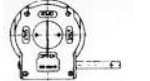

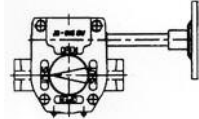

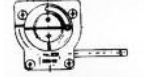
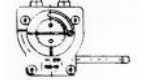

## Manual Handle Assemblies for 2" – 12" R&M 200, 285 Series

Model	Description	
1J	Standard on-off unitized detent topworks. Milled shaft flats are parallel to the disc. Disc position can be determined by the flattened portion of the shaft. A wrench may be used to operate the valve.	
1S	5 position detent topworks.	
1JS	5 position topworks. 17-4 stainless steel	
1A	Standard on-off handle with 1J detent topworks. Aluminum 2"-8" ductile iron 10"-12" Optional ductile iron handle for 2"-8"	
1AM	Standard aluminum on-off handle with 1JS topworks (marine trim).	
1P	On-off detent topworks with padlocking device for 2"-8" (Padlock not included)	
1Q	Standard on-off topworks and handle with padlocking device for 2"-8" (Padlock not included)	
1F	Squeeze trigger 10 position throttling handle.	
1FM	Squeeze trigger 10 position throttling handle (marine trim).	
1FL	Locking squeeze trigger 10 position throttling handle.	

## Accessories for 1J, 1P and 1E Topworks

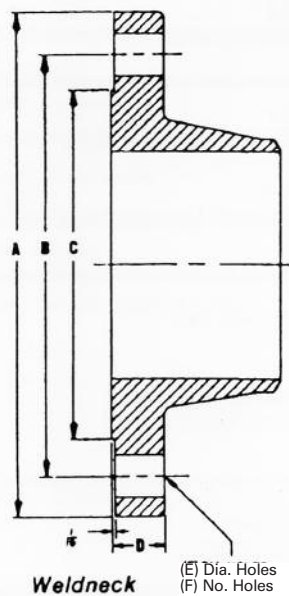
Model	Description	
1A	Handle only, aluminum	
1A	Handle only, ductile iron	
	AWWA Square Nut	
1K	Wrench Adapter	

## Gear Actuator Assemblies for 2" – 36" R&M Series

Model	Description	
2R	Standard weatherproof worm and gear actuator with cast aluminum case and cover. 2"–12"	
2RM	Weatherproof worm and gear actuator, stainless steel shaft, bronze sector gear, aluminum case epoxy coated for marine service. 2"–12"	
2RL	Weatherproof worm and actuator with locking device. (Padlock not included) 2"–12"	
2RT	Weatherproof worm and actuator with target indicator for service where pipeline is not visible. Not UL tagged. 2"–12"	
2E	Weatherproof worm and gear actuator Aluminum bronze case and cover. Marine trim. (Special) 2"–12"	
2ES	Submerged/buried service gear actuator Aluminum bronze case and cover. (Special) No indicator 2"–12"	
2T	Weatherproof worm and gear actuator with cast iron case and cover. 2"–36"	
2TM	Weatherproof worm and gear actuator. Stainless steel shaft Bronze sector gear, cast iron case epoxy coated for marine service. 2"–36"	
2TL	Weatherproof worm and actuator with locking device. (padlock not included) 2"–36"	
2TS	Submergible worm and gear actuator for fresh or salt water. No handwheel or indicator. 2"–36"	
2T-Bal	Weatherproof gear actuator. Cast iron case and cover with balance/memory stop. 2"–36"	
Note:	1. Additional accessories can be provided upon special request. 2. When chain wheel is desired in place of standard handwheel, "W" is added as a suffix to gear descriptions, i.e. 2RW, 2TW	

# Specifications

Size	ANSI 150 Lb. Flange						ANSI 300 Lb. Flange					
	A	B	C	D	E	F	A	B	C	D	E	F
2	6.00	4.75	3.63	.75	.75	4	6.50	5.00	3.63	.875	.75	8
2.5	7.00	5.50	4.13	.88	.75	4	7.50	5.88	4.13	1.00	.88	8
3	7.50	6.00	5.00	.94	.75	4	8.25	6.63	5.00	1.13	.88	8
3.5	8.50	7.00	5.50	.94	.75	8	9.00	7.25	5.50	1.13	.88	8
4	9.00	7.50	6.19	.94	.75	8	10.00	7.88	6.19	1.25	.88	8
5	10.00	8.50	7.31	.94	.88	8	11.00	9.25	7.31	1.38	.88	8
6	11.00	9.50	8.50	1.00	.88	8	12.50	10.63	8.50	1.44	.88	12
8	13.50	11.75	10.63	1.13	.88	8	15.00	13.00	10.63	1.63	1.00	12
10	16.00	14.25	12.75	1.19	1.00	12	17.50	15.25	12.75	1.88	1.13	16
12	19.00	17.00	15.00	1.25	1.00	12	20.50	17.75	15.00	2.00	1.25	16
14	21.00	18.75	16.25	1.38	1.13	12	23.00	20.25	16.25	2.13	1.25	20
18	25.00	22.75	21.00	1.56	1.25	16	28.00	24.75	21.00	2.38	1.38	24
20	27.50	25.00	23.00	1.69	1.25	20	30.50	27.00	23.00	2.50	1.38	24
22	29.50	27.25	25.25	1.81	1.38	20	33.00	29.25	25.25	2.63	1.63	24
24	32.00	29.50	27.25	1.88	1.38	20	36.00	32.00	27.25	2.75	1.63	24
26	32.25	31.75	29.25	2.00	1.38	24	28.25	34.50	29.50	3.13	1.75	28
28	36.50	34.00	31.25	2.06	1.38	28	40.75	37.00	31.50	3.38	1.75	28
30	38.75	36.00	33.75	2.13	1.38	28	43.00	39.25	33.75	3.63	1.88	28
32	41.75	38.50	35.75	2.25	1.63	28	45.25	41.50	36.00	2.88	2.00	28



- A. See price list for capscrews required to bolt Norriseal lugged valves to flanges.
- B. See R200 brochure for thru-bolts required to mount Norriseal wafer valves to flanges.

*Please contact your Norriseal representative for more details and assistance in specifying the optimal solution for your application.*

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