

Material List

Component	Material
Body	ASTM A-536 Nylon-11 Coated
Disc	ASTM A-536 EPDM Encapsulated
Upper & Lower Stems	AISI 420-SS
Worm Gear Shaft	AISI 410-SS
Housing	ASTM A-536
Hand Wheel	ASTM A-536
Flag Indicator	ASTM A-536
Shear Pin	ASTM A-510
Segment Gear	ASTM B-148 or B-584
Housing Gasket	EPDM Grade E
O-Rings (All)	EPDM Grade E

Working Pressure & Temperature

Max Working Pressure:	300PSI / 21.4 Bar
Max. Pressure Rating:	600 PSI / 42.8 Bar
Max. Working Temperature:	120°C

Design and materials are subject to change without notice.

Weights & Dimensions Inches / mm

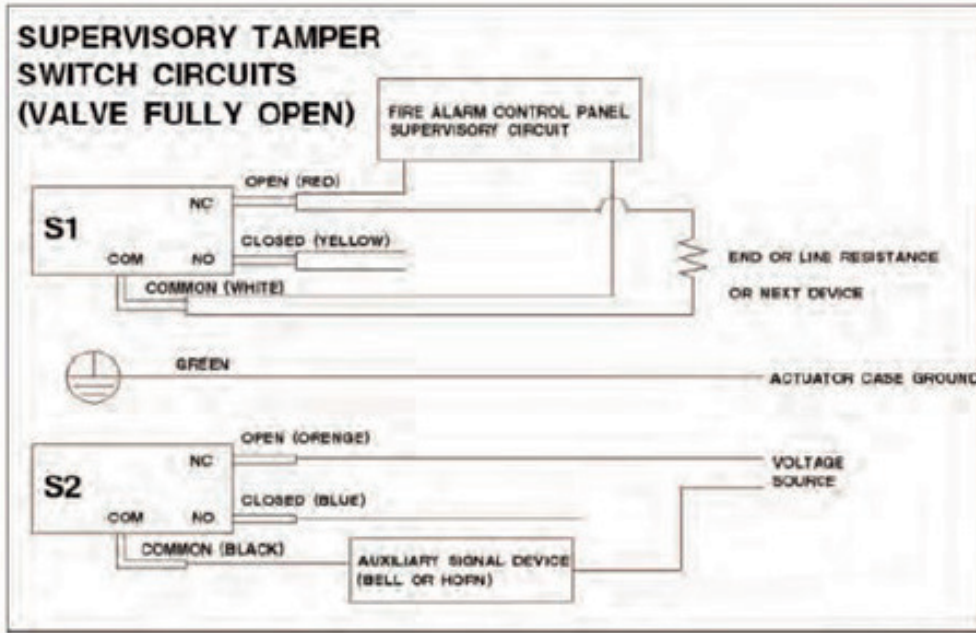
Size.	A	B	C	D	E	F	G	H	Weight
2.5"	5.35 (136)	3.43 (87)	1.81 (46)	5.88 (149.4)	6.54 (166)	5.31 (135)	5.04 (128)	0.32 (8.2)	9.8 Kg
3"	5.63 (143)	3.66 (93)	3.80 (96.4)	6.62 (168.2)	6.81 (173)	5.31 (135)	5.04 (128)	0.57 (14.5)	10.8 Kg
4"	6.14 (156)	4.29 (109)	2.05 (52)	7.88 (200.2)	7.32 (186)	5.31 (135)	5.04 (128)	0.89 (22.7)	12.4 Kg
6"	7.40 (188)	5.67 (144)	2.20 (56)	10.6 (269.8)	8.58 (218)	8.66 (220)	8.66 (220)	1.79 (45.4)	17.4 Kg
8"	8.74 (222)	6.54 (166)	2.28 (58)	13.0 (330.2)	9.92 (252)	8.66 (220)	8.66 (220)	2.72 (69.1)	22.8 Kg

Description	Size.	Part Number
Butterfly Valve FM/UL Wafer 300 PSI (Rasco)	65mm / 2.5"	7V00000031
Butterfly Valve FM/UL Wafer 300 PSI (Rasco)	80mm / 3"	7V00000032
Butterfly Valve FM/UL Wafer 300 PSI (Rasco)	100mm / 4"	7V00000033
Butterfly Valve FM/UL Wafer 300 PSI (Rasco)	150mm / 6"	7V00000034
Butterfly Valve FM/UL Wafer 300 PSI (Rasco)	200mm / 8"	7V00000035



R0037B

Wiring Diagram



Test Data

WAFER TYPE

Flow characteristics

DN	65	80	100	150	200
Size	2-1/2"	3"	4"	6"	8"
Kv	210	330	610	1500	2700
Cv	240	385	712	1760	3150

Kv = m³/hour across valve at same standard conditions (20°C, 1 bar)
 Kv = GPM at 1 PSI differential pressure across valve at standard conditions
 (68°F, 14.7 PSI)

Flow Coefficients

The flow coefficient KV is the follow in m³/h of water, at an average temperature of 20°C, crossing the valve with creating a headloss of 1 bar. The relation between Cv and KV is:

$$Cv = \frac{7}{6} Kv$$

Cv VS Disc Angle

