

DIMENSIONS inches (mm)

**TABLE 1: APPROXIMATE ACTUATION/DE-ACTUATION FLOW RATES
UPPER FIGURES IN GPM. LOWER FIGURES IN M3/HR**

VANE LAYERS	3" Pipe	4" Pipe	6" Pipe	8" Pipe	10" Pipe	12" Pipe	14" Pipe	16" Pipe	18" Pipe	20" Pipe
1	45-22 10-5	95-40 22-9	210-120 48-27	375-175 85-40	600-300 138-68	900-450 204-102	1200-600 273-136	1400-800 318-182	2000-1000 454-227	2400-1200 545-273
1 & 2	23-14 5.2-3.2	50-35 11.4-7.9	130-90 30-20	230-150 52-34	450-250 102-57	650-350 148-79	900-500 204-114	1200-650 2735-148	1450-800 329-182	1800-1000 409-227
1, 2, & 3	11-7 2.5-1.67	27-19 6.1-4.3	80-60 18-14	160-115 36-26	300-180 68-41	450-275 102-62	600-350 136-79	750-450 165-125	1000-600 227-136	1200-700 273-159
1, 2, 3, & 4		17-124 3.9-2.7	60-45 14-10	120-90 27-20	230-150 52-34	310-200 70-45	430-280 98-64	550-360 125-821	700-450 159-102	850-550 193-125
1, 2, 3, 4, & 5			40-30 9.1-6.8	80-65 18-15	135-100 31-23	200-140 45-32	290-200 66-45	360-250 82-578	460-325 104-74	575-400 131-91

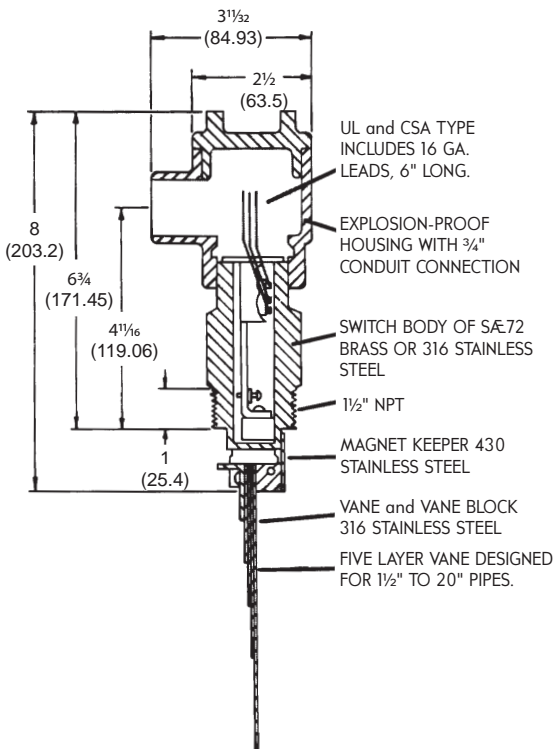
Actuation rates are based on cold water at a specific gravity of 1.0. For fluids of different gravity, actuation rates may be approximated by dividing the rate shown by the square root of the specific gravity.

Values shown in both charts are nominal. If normal flows exceed actuation rates by less than 10%, custom vanes are recommended. Figures are based on standard vertical installation in a 1½" throdolet in a horizontal run of pipe.

**TABLE 2: APPROXIMATE ACTUATION/DE-ACTUATION FLOW RATES FOR AIR
UPPER FIGURES IN SCFM. LOWER FIGURES IN NM³/S**

VANE LAYERS	3" Pipe	4" Pipe	6" Pipe	8" Pipe	10" Pipe	12" Pipe	14" Pipe	16" Pipe	18" Pipe	20" Pipe
1	210-105 .10-.05	400-200 .19-.09	950-475 .45-.22	1550-850 .73-.40	2400-1300 1.1-0.6	3450-1900 1.6-0.9	4700-2600 2.2-1.2	6400-3500 3.0-1.78	8000-4400 3.8-2.1	10000-5500 4.7-2.6
1 & 2	120-70 .06-.03	195-140 .09-.07	550-375 .26-.18	1100-700 .52-.33	1850-1200 .87-.57	2700-1750 1.3-0.8	3400-2200 1.6-1.0	4800-3100 2.3-1.5	6000-3900 2.8-1.8	7400-4800 3.5-2.3
1, 2, & 3	60-48 .03-.02	135-100 .06-.05	375-265 .18-.13	725-500 .34-.24	1200-850 .57-.40	1850-1300 .87-.61	2600-1800 1.2-0.8	3350-23500 1.6-1.1	4300-3000 2.0-1.4	5300-3700 2.5-1.7
1, 2, 3, & 4		65-50 .03-.02	260-200 .12-.09	500-400 .24-.19	875-700 .41-.33	1250-1000 .59-.47	1900-1500 .90-.71	2500-2000 1.2-0.9	3100-2500 1.5-1.2	3900-3100 1.8-1.5
1, 2, 3, 4, & 5			130-100 .06-.05	310-250 .15-.12	650-525 .31-.25	1000-800 .47-.38	1600-1250 .76-.59	2200-1750 1.04-0.83	2800-2550 1.3-1.1	3550-2850 1.7-1.3

Actuation rates are based on air at standard conditions.



ORDERING INFORMATION:

For Horizontal Pipe

8590A-H Vane Operated Flow Switch with cordset and receptacle, field adjustable, 3" to 20" Pipe

Horizontal Vane Flow Switch only R830-6731
20' Electrical Cordset EMR-889-F4AFC-20F
Electrical Receptacle EMR-889-M4AFI-1F

For Vertical Pipe (flow going up only)

8590A-V Vane Operated Flow Switch with cordset and receptacle, field adjustable, 3" to 20" Pipe

Vertical Vane Flow Switch only R830-6725
20' Electrical Cordset EMR-889N-F4AFC-20F
Electrical Receptacle EMR-889N-M4AFI-1F