

NOTES

1. ALL STANDARD SMOOT BUTTERFLY VALVES HAVE A CAST IRON WAFER STYLE ONE PIECE BODY, DUCTILE IRON DISC, EPDM NON WHITE (FOOD GRADE) SEATS, 416 STAINLESS STEEL SHAFT.
2. VALVE ALIGNMENT HOLES CONFORM TO 125-150# ASA PIPE FLANGE DIMENSIONS.
3. AIR CYLINDERS REQUIRE A MIN. OF 80 PSI. PLANT AIR.
4. ONLY THE DISC AND SEAT ARE IN PRODUCT CONTACT AREA. THE BODY AND SHAFT ARE NOT.
5. LEVER OPERATED VALVES WITH 10 POSITION 90° CONTROL PLATE OR INFINITE THROTTLING CONTROL PLATE ARE AVAILABLE IN MODELS B2 THRU B12 ONLY. BFV'S WITH LEVER OPERATORS CAN NOT BE SUPPLIED WITH LIMIT SWITCHES.
6. A POSITIONER ALLOWS THE BFV TO BE INFINITELY AND AUTOMATICALLY ADJUSTED BETWEEN FULLY OPEN AND FULLY CLOSED ACCORDING TO THE VALUE OF THE SIGNAL THAT IS SENT. THE C5 POSITIONER REQUIRES EITHER A 4-20 MILLI AMP OR A 3-15 PSIG SIGNAL TO BE SUPPLIED BY THE CUSTOMER. THE POSITIONER'S WHICH REQUIRE A 4-20 MA SIGNAL ARE AVAILABLE IN EITHER NEMA 4X OR 7&9 CONSTRUCTION. A RETURN 4-20 MA SIGNAL FROM THE BFV POSITIONING IS AVAILABLE AS WELL AS OTHER OPTIONS. CONSULT SMTCO REP OR FACTORY FOR TECHNICAL INFORMATION AND PRICES.
7. SOLENOID VALVES SHOULD NOT BE ORDERED WHEN EVER A MANUAL OPERATOR OR AN AIR CYLINDER OPERATOR WITH A POSITIONER IS USED.

SEE NOTE (1)

MODEL DASH NUMBER	BASIC VALVE SIZE	DIMENSION											WEIGHT w/ ACTUATOR
		A**	B	C	D	E	F	G	H	J	K	L	
B2	2	1 5/8	3 11/16	5 1/2	6	2 3/4	3 1/2	15 3/4	3 9/16	1.32	10 5/8	17 15/16	11.5
B3	3	1 3/4	4 7/8	6 1/4	6	2 3/4	3 1/2	16 1/2	3 9/16	2.55	10 5/8	19 5/16	13.5
B4	4	2	6 1/16	7	7 13/16	3 9/16	4 1/4	18	3 9/16	3.57	10 5/8	21 7/16	20.0
B5	5	2 1/8	6 15/16	7 1/2	7 13/16	3 9/16	4 1/4	18 1/2	3 9/16	4.63	10 5/8	22 9/16	22.5
B6	6	2 3/16	8 1/8	8	7 13/16	3 9/16	4 1/4	19	3 9/16	5.72	10 5/8	23 9/16	25.5
B8	8	2 7/16	10 1/2	9 1/2	11 7/16	4 3/4	5 9/16	21 13/16	5 15/16	7.6	11 3/4	27 9/16	52.5
B10	10	2 1/2	12 3/4	10 3/4	11 1/2	4 3/4	5 9/16	23 1/16	5 15/16	9.53	11 3/4	30 3/16	67.5
B12	12	3 3/16	14 15/16	12 3/8	12 5/16	5 3/8	6 5/16	25 7/16	5 15/16	11.47	11 3/4	33 9/16	89.0
B14	14	3	16 15/16	13 3/4	15 3/8	6 3/4	7 13/16	28 5/16	5 15/16	13.04	--	37 11/16	133.0
B16	16	4	19 1/16	14 7/8	15 3/8	6 3/4	7 13/16	29 7/16	5 15/16	14.97	--	40 3/16	173.0
B18	18	4 1/4	21 1/8	16 1/8	18 13/16	8 13/16	10	32 15/16	8 5/16	16.85	--	44 15/16	268.0
B20	20	5	19 7/16	17 1/4	18 13/16	8 13/16	10	34 1/16	8 5/16	18.73	--	48 3/16	328.0

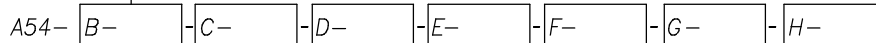
EXAMPLE:
 A SMOOT BUTTERFLY VALVE WITH A MODEL NUMBER OF A54-B6-C3-D1-E1-F1-G1-H1 WOULD BE A 6" BUTTERFLY VALVE, AIR CYLINDER OPERATED WITH WATERPROOF SINGLE COIL SOLENOID, NO LIMIT SWITCHES, DUCTILE IRON DISC, EPDM SEAT, AND CAST IRON BODY.

MODEL DASH NUMBER	OPERATOR TYPE
C1	10 POSITION LEVER OPERATOR (SEE NOTE 6)
C2	INFINITE THROTTLING LVR OPTR (SEE NOTE 6)
C3	AIRCYL OPTR, UNDERCUT DISK (SEE NOTE 3, 4)
C4	AIRCYL OPTR, NON-UNDERCUT DISK (NOTE 3, 4)
C5	AIRCYL OPTR W POSITIONER (SEE NOTE 7)
C6	GEAR WITH HAND WHEEL OPERATOR (DIM'S NOT SHOWN)

MODEL DASH NUMBER	SOLENOID VALVE WITH 120 VAC. COIL (SEE NOTE 7)
D1	SINGLE COIL, 4 WAY, NEMA 1,3,4X ENCLOSURE
D2	DOUBLE COIL, 4 WAY, NEMA 1,3,4X ENCLOSURE
D3	SINGLE COIL, 4 WAY, NEMA 7,9 ENCLOSURE
D4	DOUBLE COIL, 4 WAY, NEMA 7,9 ENCLOSURE
D5	NO SOLENOID VALVE. (SEE NOTE 7)

MODEL DASH NUMBER	LIMIT SWITCHES
E1	WITHOUT LIMIT SWITCHES
E2	(2) SPDT LIMIT SWITCHES-NEMA 4X ENCLOSURE
E3	(2) DPDT LIMIT SWITCHES-NEMA 4X ENCLOSURE
E4	(2) SPDT LIMIT SWITCHES-NEMA 7 & 9 ENCLOSURE
E5	(2) DPDT LIMIT SWITCHES-NEMA 7 & 9 ENCLOSURE

BUTTERFLY VALVE MODEL NOMENCLATURE



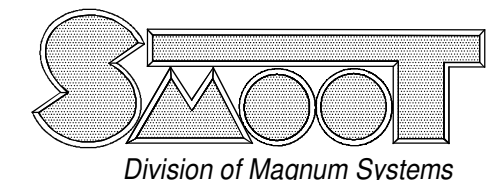
MODEL DASH NUMBER	DISC CONSTRUCTION (SEE NOTE 4)
F1	DUCTILE IRON DISK W 416 SS SHAFT (STANDARD).
F2	ALUMINUM BRONZE DISC W 416 SS SHAFT
F3	316 STAINLESS STEEL DISC & SHAFT

MODEL DASH NUMBER	BODY CONSTRUCTION
H1	CAST IRON (STANDARD) (SEE NOTE 5)
H2	ALUMINUM

MODEL DASH NUMBER	SEAT CONSTRUCTION	MAX. TEMP	MIN. TEMP
G1	EPDM (STANDARD) FOOD GRADE	+250°F	-40°F
G2	WHITE BUNA N FOOD GRADE	+212°F	0°F
G3	FKM (FLUOROELASTOMER)	+400°F	0°F

CUSTOMER _____
 CUST. P.O. NO. _____
 SMOOT JOB NO. _____
 ITEM NO. _____
 QTY. _____
 DRAWING ISSUE _____

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Kansas City, Kansas

BUTTERFLY VALVE CUSTOMER DRAWING

DATE _____ DWG. NO. 54-1
 DWN. BY SLW APPROVED _____
 SCALE 1 1/2"=1'-0"