



SPECIFICATIONS:

- PSI / Temperature Rating:** 230 PSIG / 300° F¹
- Cartridge:** AISI Type 304 stainless steel
AISI Type 17-7 PH stainless steel spring
- Body Material:** Steel pipe schedule 40 (with cast iron grooved end clamps on 2"-3")
- Body Tappings:** 1/4" NPT with P/T test valves
- Assembly:** Valve comes fully assembled.
- Flanges:** Flanges are compatible with ANSI B 16.5-1968 150 lb. Steel flanges OR ANSI B 16.5-1968 300 lb. Steel flanges. Specify class when ordering.

DIMENSIONS & WEIGHTS (NOMINAL)

SIZE	MODEL NO.		A LENGTH		B HEIGHT	C WIDTH	WEIGHT (LBS.)
	Class 150	Class 300	Class 150	Class 300			
2"	322_BF	322_BG	13.0	13.0	4.56	6.0	25
2-1/2"	323_BF	323_BG	11.8	11.8	4.56	7.0	20
3"	310_BF	310_BG	11.8	11.8	4.56	7.5	27
4"	311_BF	311_BG	18.4	19.5	8.62	9.0	63
5"	312_BF	312_BG	13.8	14.8	8.62	10.0	63
6"	313_BF	313_BG	13.8	14.8	8.62	11.0	72
8"	314_BF	314_BG	18.1	19.5	12.75	13.5	121
10"	315_BF	315_BG	18.3	19.6	12.75	16.0	165
12"	316_BF	316_BG	29.3	30.6	16.00	19.0	300
14"	317_BF	317_BG	41.2	42.6	20.00	21.0	479
16"	318_BF	318_BG	42.8	44.4	24.00	23.5	636
18"	319_BF	319_BG	43.0	44.6	24.00	25.0	690
20"	370_BF	370_BG	43.2	44.8	24.00	27.5	760

MODEL NUMBER SELECTION²

Select a size (2=22, 2-1/2=23, 3=10, 4=11, 5=12, 6=13, 8=14, 10=15, 12=16, 14=17, 16=18, 18=19, 20=70)

Select a PSID control range (STD: 1=1-20 or 4-20, 2=2-32 or 8-32, 4=4-57, 8=8-128; HI-FLOW: 3=3-18, 5=5-32)

Select a Class (F=Class 150, G=Class 300)

T=Optional 3"x3" Aluminum Hanging I.D. Tag

NOTES

¹ 2, 2-1/2" and 3" valves have a 230F temperature limitation. Contact factory for a higher temperature option if necessary.

² Model no. and flow rate are indicated on label affixed to body.

Replaces form F-4080

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FLOW RATE TABLES PER TYPE OF CARTRIDGE

TYPE OF CARTRIDGE:		STANDARD FLOW				
LINE SIZE	MODEL NO.	CONTROL RANGE (PSID)	1-20	2-32	4-57	8-128
		HEAD LOSS IN FEET ³	3.0	7.4	13.4	30.0
		MIN. AVAILABLE GPM	14	17.5	23.33	35
		GPM INCREMENTS	2.0	2.5	3.33	5.0
2 to 3	322_,323_,310_	Maximum GPM	60	75	100	150
4	311_	Maximum GPM	180	225	300	450
5	312_	Maximum GPM	180	225	300	450
6	313_	Maximum GPM	180	225	300	450
8	314_	Maximum GPM	360	450	600	900
10	315_	Maximum GPM	480	600	800	1,200
12	316_	Maximum GPM	840	1,050	1,400	2,100
14	317_	Maximum GPM	1,200	1,500	2,000	3,000
16	318_	Maximum GPM	1,560	1,950	2,600	3,900
18	319_	Maximum GPM	2,040	2,550	3,400	5,100
20	370_	Maximum GPM	2,040	2,550	3,400	5,100

TYPE OF CARTRIDGE:		STANDARD FLOW HIGH CAPACITY		
LINE SIZE	MODEL NO.	NOMINAL CONTROL RANGE (PSID)	4-20	8-32
		HEAD LOSS IN FEET ³	9.2	18.4
		GPM INCREMENTS	20.0	25.0
2 to 3	322_,323_,310_	Minimum GPM	90	110
		Maximum GPM	130	160

TYPE OF CARTRIDGE:		HI - FLOW				
LINE SIZE	MODEL NO.	NOMINAL CONTROL RANGE (PSID)	3-18 (LOW INCREMENTS)	3-18 (HIGH INCREMENTS)	5-32 (LOW INCREMENTS)	5-32 (HIGH INCREMENTS)
		MAX. PRES. DIFF. (PSI)	18	18	32	32
		HEAD LOSS IN FEET ³	5.8	5.8	11.5	11.5
		GPM INCREMENTS	2.0	N/A	2.5	N/A
2 to 3	322_,323_,310_	Minimum GPM	N/A	N/A	N/A	N/A
		Maximum GPM	N/A	N/A	N/A	N/A
4	311_	Minimum GPM	100	300	135	535, 560, 600
		Maximum GPM	260		475	
5	312_	Minimum GPM	100	300	135	535, 560, 600
		Maximum GPM	260		475	
6	313_	Minimum GPM	100	300	135	535, 560, 600
		Maximum GPM	260		475	
8	314_	Minimum GPM	100	600	135	1135, 1160, 1200
		Maximum GPM	560		1,075	
10	315_	Minimum GPM	100	800	135	1535, 1560, 1600
		Maximum GPM	760		1,475	
12	316_	Minimum GPM	100	1,400	135	2735, 2760, 2800
		Maximum GPM	1,360		2,675	
14	317_	Minimum GPM	100	2,000	135	3935, 3960, 4000
		Maximum GPM	1,960		3,875	
16	318_	Minimum GPM	100	2,600	135	5135, 5160, 5200
		Maximum GPM	2,560		5,075	
18	319_	Minimum GPM	100	3,400	135	6735, 6760, 6800
		Maximum GPM	3,360		6,675	
20	370_	Minimum GPM	100	3,400	135	6735, 6760, 6800
		Maximum GPM	3,360		6,675	

NOTES

³ Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)
Replaces form F-4080



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