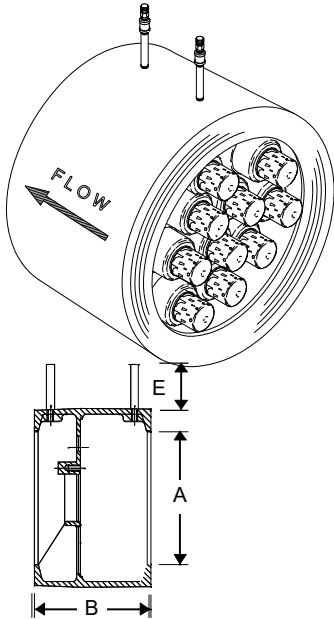
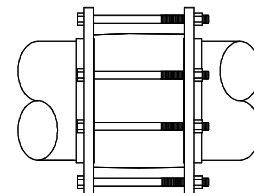
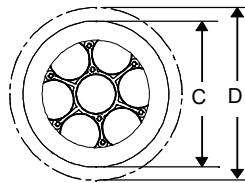


CLASS 150 WAFER

SPECIFICATIONS



PSI/Temperature Rating: 200 PSI / 250° F
Cartridge: AISI Type 304 stainless steel
 AISI Type 17-7 PH stainless steel spring
Body Material: **2-1/2"/3"-14":** Ductile Iron ASTM A536 GR60-40-18,
16"-24": Gray Iron ASTM A126-61T, Class 20
Body Tappings: 1/4" NPT with P/T test valves
Assembly: Valve comes fully assembled. Pressure and Temperature extensions are shipped loose.
Flanges: Sizes 2-1/2"/ 3" to 20" are compatible with ANSI B 16.5-1968 150 lb. steel flanges. Cast Iron flanges are compatible with ANSI B 16.1-1967 125 lb.



DIMENSIONS & WEIGHTS (NOMINAL)

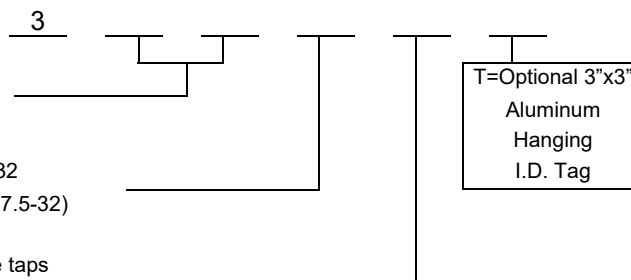
A LINE SIZE	MODEL NO.	B (+/- .030)	C (+/- .060)	D REF ONLY FLG. DIA.	E	STUDS ¹ (SUPPLIED BY GRISWOLD)		WEIGHT (LBS.)
						QTY	SIZE	
2-1/2 / 3 ²	329	6.75	4.62	7.50	5.50	4	5/8	17
4	332	7.75	6.88	9.00	5.50	8	5/8	33
6	334	7.25	8.62	11.00	5.50	8	3/4	42
8	337	7.25	10.88	13.50	5.50	8	3/4	57
10	368	8.00	13.44	16.00	5.50	12	7/8	93
12	369	8.00	16.00	19.00	5.50	12	7/8	137
14	339	8.00	17.63	21.00	5.50	12	1	177
16 ³	384	9.50	20.12	23.50	5.50	16	1	291
18	385	9.50	21.50	25.00	5.50	16	1-1/8	405
20	338	11.00	23.88	27.50	5.50	20	1-1/8	520
24	386	11.00	28.12	32.00	5.50	20	1-1/4	896

MODEL NUMBER SELECTION⁴

Select a size (2-1/2 or 3=29, 4=32, 6=34, 8=37, 10=68, 12=69, 14=39, 16=84, 18=85, 20=38, 24=86)

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, 7=7.5-32)

Insert "A" for pressure taps, "B" for pressure/temperature taps



NOTES

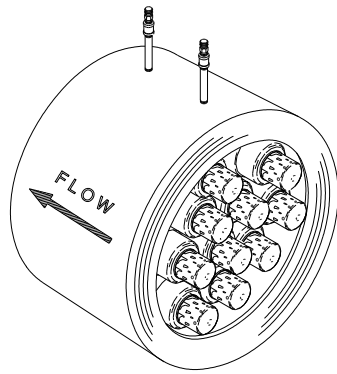
¹ Plated Steel Studs and Nuts are supplied by Griswold.
² Valve compatible with 2-1/2" and 3" ANSI flanges.
³ 16" and larger are supplied with an eyebolt for lifting.
⁴ Model no. and flow rate are indicated on label affixed to body.
 Replaces form F-3023

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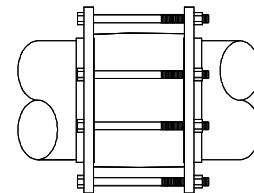
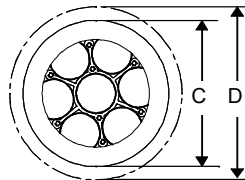
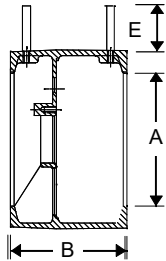


CLASS 300 WAFER



SPECIFICATIONS

PSI/Temperature Rating: 500 PSI / 350° F
Cartridge: AISI Type 304 stainless steel
 AISI Type 17-7 PH stainless steel spring
Body Material: Ductile Iron, ASTM A536-65T, Class 60-45-18
Body Tappings: 1/4" NPT with P/T test valves
Assembly: Valve comes fully assembled. Pressure and Temperature extensions are shipped loose.
Flanges: Sizes 3" - 20" are compatible with ANSI B 16.5-1968 300 lb. steel flanges. Steel flanges and are also compatible with ANSI B 16.1-1967 250 lb.



DIMENSIONS & WEIGHTS (NOMINAL)

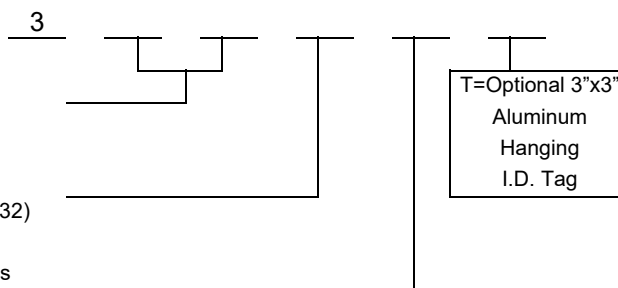
A LINE SIZE	MODEL NO.	B (+/-0.030)	C (+/-0.060)	D REF ONLY FLG. DIA.	E	STUDS ⁵ (SUPPLIED BY GRISWOLD)		WEIGHT (LBS.)
						QTY	SIZE	
3	345	6.75	5.88	8.25	5.50	8	3/4	26
4	346	7.75	7.13	10.00	5.50	8	3/4	49
6	347	7.25	9.88	12.50	5.50	12	3/4	62
8	348	7.25	12.13	15.00	5.50	12	7/8	103
10	343	8.00	14.12	17.50	5.50	16	1	161
12	344	8.00	16.50	20.50	5.50	16	1-1/8	241
14	349	8.00	19.13	23.00	5.50	20	1-1/8	364
20 ⁶	350	11.00	25.75	30.50	5.50	24	1-1/4	850

MODEL NUMBER SELECTION⁷

Select a size (3=45, 4=46, 6=47, 8=48, 10=43, 12=44, 14=49, 20=50)

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, 7=7.5-32)

Insert "A" for pressure taps, "B" for pressure/temperature taps



NOTES

⁵ Plated Steel Studs and Nuts are supplied by Griswold.
⁶ 20" and larger are supplied with an eyebolt for lifting
⁷ Model no. and flow rate are indicated on label affixed to body
 Replaces form F-3023

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FLOW RATE TABLES PER TYPE OF CARTRIDGE (+/-5%)

TYPE OF CARTRIDGE:				STANDARD FLOW			
LINE SIZE	MODEL NO. CLASS 150	MODEL NO. CLASS 300	CONTROL RANGE (PSID)	1-20	2-32	4-57	8-128
			MAX. PRES. DIFF. (PSI)	20	32	57	128
			HEAD LOSS IN FEET ⁸	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
2-1/2 or 3	329	345	Maximum GPM	60	75	100	150
4	332	346	Maximum GPM	120	150	200	300
6	334	347	Maximum GPM	240	300	400	600
8	337	348	Maximum GPM	420	525	700	1,050
10	368	343	Maximum GPM	660	825	1,100	1,650
12	369	344	Maximum GPM	900	1,125	1,500	2,250
14	339	349	Maximum GPM	1,140	1,425	1,900	2,850
16	384	N/A	Maximum GPM	1,440	1,800	2,400	3,600
18	385	N/A	Maximum GPM	1,860	2,325	3,100	4,650
20	338	350	Maximum GPM	2,220	2,775	3,700	5,550
24	386	N/A	Maximum GPM	3,300	4,125	5,500	8,250

TYPE OF CARTRIDGE:				STANDARD FLOW HIGH CAPACITY	
LINE SIZE	MODEL NO. CLASS 150	MODEL NO. CLASS 300	NOMINAL CONTROL RANGE (PSID)	4-20	8-32
			MAX. PRES. DIFF. (PSI)	20	32
			HEAD LOSS IN FEET ⁸	9.2	18.4
			GPM INCREMENTS	20.0	25.0
2-1/2 or 3	329	345	Minimum GPM	90	110
			Maximum GPM	130	160

NOTES

⁸ Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)
 Replaces form F-3023



TYPE OF CARTRIDGE:			HI - FLOW					
LINE SIZE	MODEL NO. CLASS 150	MODEL NO. CLASS 300	CONTROL RANGE (PSID)	3-18 (LOW INCREMENTS)	3-18 (NO INCREMENTS)	5-32 (LOW INCREMENTS)	5-32 (NO INCREMENTS)	7.5-32 (NO INCREMENTS)
			MAX. PRES. DIFF. (PSI)	18	18	32	32	32
			HEAD LOSS IN FEET ⁹	5.8	5.8	11.5	11.5	17.5
			GPM INCREMENTS	2.0	SEE ACTUAL FLOWS	2.5	SEE ACTUAL FLOWS	SEE ACTUAL FLOWS
2-1/2 or 3	329_	345_	Minimum GPM	N/A	N/A	N/A	N/A	N/A
			Maximum GPM	N/A	N/A	N/A	N/A	N/A
4	332_	346_	Minimum GPM	114	200	152.5	335, 360,	500, 600
			Maximum GPM	160		275	400	
6	334_	347_	Minimum GPM	114	400	152.5	735, 760,	1000, 1200
			Maximum GPM	360		675	800	
8	337_	348_	Minimum GPM	114	700	152.5	1335, 1360,	1800, 2100
			Maximum GPM	660		1,275	1400	
10	368_	343_	Minimum GPM	114	1100	152.5	2135, 2160,	2400, 3000,
			Maximum GPM	1,060		2,075	2200	3300
12	369_	344_	Minimum GPM	114	1500	152.5	2935, 2960,	3500, 3900
			Maximum GPM	1,460		2,875	3000	4500
14	339_	349_	Minimum GPM	114	1900	152.5	3735, 3760,	4500, 5100
			Maximum GPM	1,860		3,675	3800	5700
16	384_	N/A	Minimum GPM	114	2400	152.5	4735, 4760,	5400, 6000
			Maximum GPM	2,360		4,675	4800	6600, 7200
18	385_	N/A	Minimum GPM	114	3100	152.5	6135, 6160,	6900, 7500, 8100
			Maximum GPM	3,060		6,075	6200	8700, 9300
20	338_	350_	Minimum GPM	114	3700	152.5	7335, 7360,	8700, 9300, 9900,
			Maximum GPM	3,660		7,275	7400	10500, 11100
24	386_	N/A	Minimum GPM	114	5500	152.5	10935, 10960,	13200, 14100
			Maximum GPM	5,460		10,875	11000	15300, 16500

NOTES

⁹ Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)
Replaces form F-3023

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