

### Features and Benefits

The Dole Flow Regulator is the industry's control for delivering a constant volume of water flow over a wide pressure range. The Flow Regulator's control mechanism is a flexible orifice which varies its effective area inversely to the applied pressure.

#### Key features include:

- Threshold pressure acts as a fixed orifice. (See Flow Characteristics on next page.)
- Orifice maintains desired output even when threshold points cause the insert to distort. (See chart on next page.)
- Flow rates are maintained to within  $\pm 15\%$  up to a pressure change of 125 PSI. (Flow rate varies due to manufacturing tolerances and water temperatures.)
- Regulators can meet a maximum system pressure of 200 PSI.
- Multi-orifice flow inserts may be in regulators with rates between 1 GPM and 4 GPM break up the water discharge pattern and minimize the sound made when water passes through the restriction.

The Dole Flow Regulators comply with U.S. Senate Bill AB1953 Low-Lead Requirements for plumbing fittings.

### Flow Regulator Applications

- Tankless heaters
- Fan coils
- Drinking fountains
- Irrigation systems
- Fire sprinkler systems
- Dispensing machines
- Cooling towers
- Water softeners
- Water filters
- Ground water heat pumps
- Eye washers
- Filling equipment
- Pumps (Well and packing water)



**GY  
Brass**



**SR  
Nickel Plated Brass**



**SSGA / SSGB / SSGC / SSGX  
316 Stainless Steel**



**FMA  
Nickel Plated Brass**



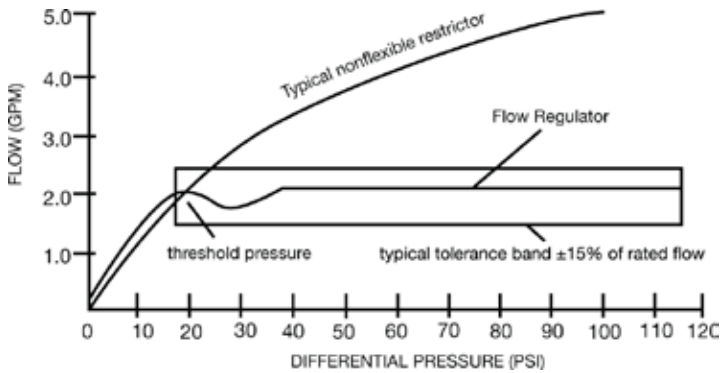
**Dimension and  
Specifications on  
next page**

**GP / GT / GF / GH / GK  
Zinc Plated**



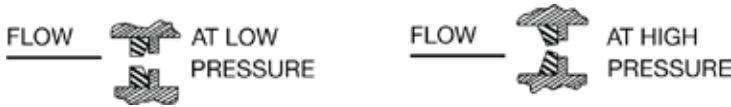
# FLOW REGULATORS

## FLOW CHARACTERISTICS



1. Calculated flow through 1/8" diameter orifice
2. Typical flow curve of Dole 2 GPM Flow Regulator
3. Threshold pressure will vary with flow rating  
(See chart on next page)

## OPERATING PRINCIPLE



## G-SERIES FLOW REGULATOR

Steel Housing/Zinc Plated

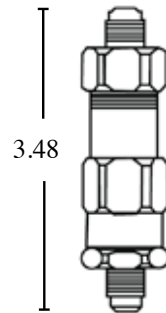
<b>GP</b>		<ul style="list-style-type: none"> <li>• 1 1/4" MNPT - Inlet Outlet</li> <li>• 1.0 to 30.0 GPM</li> <li>• 12 oz. Net Weight</li> </ul>
<b>GT</b>		<ul style="list-style-type: none"> <li>• 1 1/2" MNPT - Inlet Outlet</li> <li>• 1.0 to 30.0 GPM</li> <li>• 1 lb. Net Weight</li> </ul>
<b>GF</b>		<ul style="list-style-type: none"> <li>• 2" MNPT - Inlet Outlet</li> <li>• 10.0 to 30.0 GPM</li> <li>• 1 lb. 10 oz Net Weight</li> </ul>
<b>GH</b>		<ul style="list-style-type: none"> <li>• 2 1/2" MNPT - Inlet Outlet</li> <li>• 30.0 to 90.0 GPM</li> <li>• 3 lb. Net Weight</li> </ul>
<b>GK</b>		<ul style="list-style-type: none"> <li>• 3" MNPT - Inlet Outlet</li> <li>• 30.0 to 120.0 GPM</li> <li>• 3 lb. 7 Oz Net Weight</li> </ul>

## G-SERIES FLOW REGULATORS

Brass Housing/Nickel Plated or 316 Stainless Housing

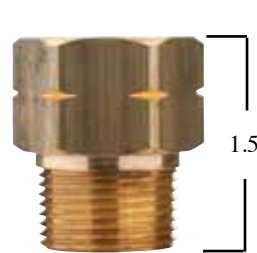
	<ul style="list-style-type: none"> <li>• 3/8" FNPT - Inlet Outlet</li> <li>• 0.06 to 1.0 GPM</li> <li>• 3 oz Net Weight</li> </ul>	
	<ul style="list-style-type: none"> <li>• 1/2" FNPT - Inlet Outlet</li> <li>• 1.0 to 6.0 GPM</li> <li>• 4 oz Net Weight</li> </ul>	
	<ul style="list-style-type: none"> <li>• 3/4" FNPT - Inlet Outlet</li> <li>• 1.0 to 11.5 GPM</li> <li>• 8 oz Net Weight</li> </ul>	
	<ul style="list-style-type: none"> <li>• 1" FNPT - Inlet Outlet</li> <li>• 1 to 30.0 GPM</li> <li>• 12 oz Net Weight</li> </ul>	

## FRS-SERIES FLOW REGULATOR



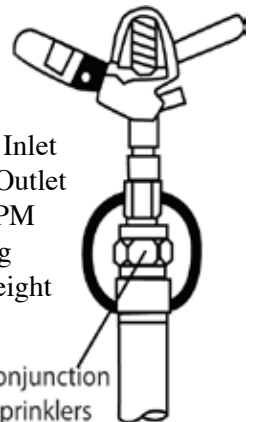
- 1/8" Flare - Inlet and Outlet
- 0.06 to 1.0 GPM
- Serviceable 100 x 90 Mesh Monel Screen
- Brass Housing
- 5.5 oz Net Weight

## GY-SERIES FLOW REGULATOR



- 3/4" MNPT - Inlet
- 3/4" FNPT - Outlet
- 1.0 to 11.5 GPM
- Brass Housing
- 4.5 oz Net Weight

Commonly used in conjunction with impact sprinklers



# FLOW CHART

## Flow Rate in GPM

Pipe Size	FMA 3/8"	FMC 1/2"	FRS 1/8"	SR 1/2"	GA 3/8"	GB 1/2"	GC 3/4"	GX 1"	GP 1-1/4"	GT 1-1/2"	GF 2"	GH 2-1/2"	GK 3"	GY 3/4"	SSGA 3/8"	SSGB 1/2"	SSGC 3/4"	SSGX 1"
Inlet - Outlet-	MNPT FNPT	MPT FPT	MNPT MNPT	FNPT MNPT	FNPT FNPT	FNPT FNPT	FNPT FNPT	FNPT FNPT	MNPT MNPT	MNPT MNPT	MNPT MNPT	MNPT MNPT	MNPT MNPT	MNPT FNPT	FNPT FNPT	FNPT FNPT	FNPT FNPT	FNPT FNPT
Housing Material	Nickel Plated Brass	Nickel Plated Brass	Brass	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass	Zinc Plated Steel	Zinc Plated Steel	Zinc Plated Steel	Zinc Plated Steel	Zinc Plated Steel	Brass	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
Flow Rate	0.50 <sup>3</sup>	0.50 <sup>3</sup>	0.06 <sup>1</sup>	2.00 <sup>2</sup>	0.06 <sup>1,3</sup>	1.00 <sup>2</sup>	1.00 <sup>3</sup>	1.00 <sup>3</sup>	1.00 <sup>3</sup>	1.00 <sup>3</sup>	10.0	30.0	30.0	1.00 <sup>3</sup>	0.06 <sup>1,3</sup>	1.00 <sup>3</sup>	1.00 <sup>3</sup>	1.00 <sup>3</sup>
	0.75 <sup>3</sup>	0.75 <sup>3</sup>	0.19 <sup>3</sup>	2.50 <sup>2</sup>	0.13 <sup>3</sup>	1.50 <sup>2</sup>	1.50	1.50	1.50	1.50	11.5 <sup>3</sup>	35.0	35.0	1.50	0.13 <sup>1,3</sup>	1.50 <sup>2</sup>	1.50	1.50
	1.00 <sup>2</sup>	1.00 <sup>2</sup>	0.25 <sup>3</sup>	3.00 <sup>2</sup>	0.19 <sup>3</sup>	2.00 <sup>2</sup>	2.00 <sup>3</sup>	2.00 <sup>3</sup>	2.00 <sup>3</sup>	2.00 <sup>3</sup>	12.0	40.0	40.0	2.00 <sup>3</sup>	0.19 <sup>3</sup>	2.00 <sup>2</sup>	2.00 <sup>3</sup>	2.00 <sup>3</sup>
	1.50 <sup>2</sup>	1.50 <sup>2</sup>	0.35		0.25 <sup>3</sup>	2.50 <sup>2</sup>	2.50 <sup>3</sup>	2.50 <sup>3</sup>	2.50 <sup>3</sup>	2.50 <sup>3</sup>	13.5	45.0	45.0	2.50 <sup>3</sup>	0.25 <sup>3</sup>	2.50 <sup>2</sup>	2.50 <sup>3</sup>	2.50 <sup>3</sup>
		2.00 <sup>2</sup>	0.50 <sup>3</sup>		0.35	3.00	3.00	3.00	3.00	3.00	15.0	50.0	50.0	3.00	0.35	3.00 <sup>2</sup>	3.00	3.00
		2.50 <sup>2</sup>	0.75 <sup>3</sup>		0.50 <sup>3</sup>	3.50 <sup>3</sup>	3.50 <sup>3</sup>	3.50 <sup>3</sup>	3.50 <sup>3</sup>	3.50 <sup>3</sup>	20.0	55.0	55.0	3.50 <sup>3</sup>	0.50 <sup>3</sup>	3.50 <sup>3</sup>	3.50 <sup>3</sup>	3.50 <sup>3</sup>
		3.00 <sup>2</sup>	1.00 <sup>3</sup>		0.75 <sup>3</sup>	4.00 <sup>3</sup>	4.00 <sup>3</sup>	4.00 <sup>3</sup>	4.00 <sup>3</sup>	4.00 <sup>3</sup>	25.0	60.0	60.0	4.00 <sup>3</sup>	0.75 <sup>3</sup>	4.00 <sup>3</sup>	4.00 <sup>3</sup>	4.00 <sup>3</sup>
		4.00 <sup>3</sup>			1.00 <sup>3</sup>	5.00 <sup>3</sup>	5.00 <sup>3</sup>	5.00 <sup>3</sup>	5.00 <sup>3</sup>	5.00 <sup>3</sup>	30.0	65.0	65.0	5.00 <sup>3</sup>	1.00 <sup>3</sup>	5.00	5.00 <sup>3</sup>	5.00 <sup>3</sup>
						6.00 <sup>3</sup>	6.00	6.00	6.00	6.00		70.0	70.0	6.00		6.00	6.00	6.00
							7.00 <sup>3</sup>	7.00 <sup>3</sup>	7.00 <sup>3</sup>	7.00 <sup>3</sup>		80.0	80.0	7.00 <sup>3</sup>			7.00 <sup>3</sup>	7.00 <sup>3</sup>
							8.00 <sup>3</sup>	8.00 <sup>3</sup>	8.00 <sup>3</sup>	8.00 <sup>3</sup>		85.0	85.0	8.00 <sup>3</sup>			8.00 <sup>3</sup>	8.00 <sup>3</sup>
							9.00	9.00	9.00	9.00		90.0	90.0	9.00			9.00	9.00
							10.0	10.0	10.0	10.0		95.0	10.0				10.0	10.0
							11.5 <sup>3</sup>	12.0	12.0	12.0		100.0					11.5 <sup>3</sup>	12.0
								13.5	13.5	13.5		105.0						13.5
								15.0	15.0	15.0		110.0						15.0
								20.0	20.0	20.0		115.0						20.0
								25.0	25.0	25.0		120.0						25.0
								30.0	30.0	30.0								30.0
Threshold Pressure	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	25-30	15-25	15-25	15-25	15-25

Note: (1) Use of a strainer is recommended.  
 (2) Indicates multi-orifice flow washer is used  
 (3) Indicates the internal flow washer is a Ethylene Propylene compound. All others are Buna-N

Note: All Flow Regulators are recommended for potable water below 180°F, have flow tolerance of ± 15% and are designed for a maximum system pressure of 200 PSI.

7/8"

### Flow Disc



Dia 7/8" x 3/32"  
 Crown Height 7/21"

### Model# Flow Rate

FD 0.25	0.25 GPM
FD 0.50	0.50 GPM
FD 1.00	1.00 GPM
FD 2.00	2.00 GPM

# FLOW REGULATORS

## FOR LAVATORY FIXTURES AND SHOWER HEADS

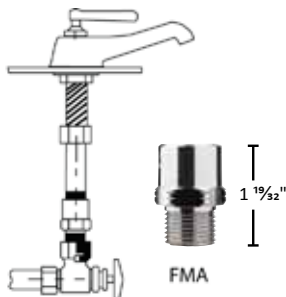
### FMA

Flow Rates: 0.5 to 1.5 GPM

Connections:

Inlet: 3/8" MNPT

Outlet: 3/8" FNPT



Installed at the stop

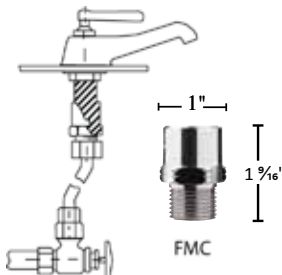
### FMC

Flow Rates: 0.5 to 4.0 GPM

Connections:

Inlet: 1/2" MPT

Outlet: 1/2" FPT  
(Straight Pipe Threads)



Installed at the faucet shank

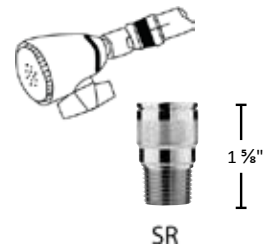
### SR

Flow Rates: 1.5 to 3.0 GPM

Connections:

Inlet: 1/2" FNPT

Outlet: 1/2" MNPT



Installed behind showerhead

## Available Flow Rates in Gallons Per Minute ( )

Fixture Type	Models	0.5	0.75	1.0	1.5	2.0	2.5	3.0	4.0	Gty Generally Req'd
Lavatories	FMA	•	•	•	•					2
Large 1.0-1.5 GPM2	FMC	•	•	•	•	•	•	•	•	2
*Sinks, Commercial Kitchen	FMC or SR3	•	•	•	•	•	•	•	•	2
*Sinks, Domestic Kitchen	FMC or SR3	•	•	•	•	•	•	•	•	2
*Sinks, Small	FMC or SR3	•	•	•	•	•	•	•	•	2
*Sinks Slop	FMC or SR3	•	•	•	•	•	•	•	•	2
*Sinks, Service	FMC or SR3	•	•	•	•	•	•	•	•	2
Showers	SR4				•	•	•	•		1
Ice Water Taps	FMA. FMB	•	•	•	•					1
Drinking Fountains	FMA. FMB	•	•	•	•					1

## NOTES

\* Check Application Chart on the previous page for specific flow rates.

1. All standard available flow rates for each model are shown. Commonly recommended flow rates are shades or noted.
2. Regulators with 0.5 and 0.75 GPM are available with a single orifice flow washer only.
3. The SR series shower regulator may be used on deck type faucets having 1/2" FNPT tapping, flow rates from 1.5 to 3.0 GPM only.
4. Desirable flow rates depend on the make and capacity of the shower head.

All plumbing fixture flow regulators are nickel plated except for the SR series shower regulators, which are chrome plated. The approximate net shipping weight for fittings is 3oz. Each

Flow Regulators for lavatories, fixtures and showers are found in:

- Schools
- Hotels
- Homes
- Apartments etc.
- Office Buildings
- Motels
- Businesses

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