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Dole FLOW REGULATORS

GA / GB / GC / GX
Nickel Plated Brass

GY
Brass

SR
Nickel Plated Brass

SSGA / SSGB / SSGC / SSGX
316 Stainless Steal

GX
Nickel Plated Brass

FMA
Nickel Plated Brass

Dimension and Specifications on next page

GP / GT / GF / GH / GK
Zinc Plated

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 ±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.

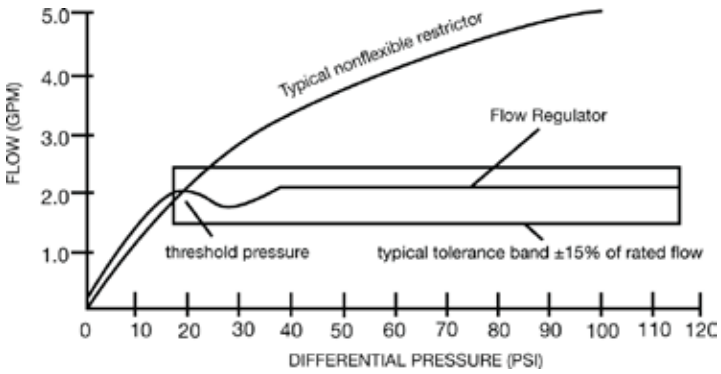
Flow Regulator Applications

- 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)

W. R. Wallin & Associates; Representing Leading Manufacturers Supplying the Mechanical Trades for over 60 years.

FLOW REGULATORS

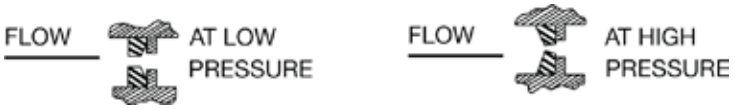
FLOW CHARACTERISTICS



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

GP

- 1 1/4" MNPT - Inlet Outlet
- 1.0 to 30.0 GPM
- 12 oz. Net Weight

GT

- 1 1/2" MNPT - Inlet Outlet
- 1.0 to 30.0 GPM
- 1 lb. Net Weight

GF

- 2" MNPT - Inlet Outlet
- 10.0 to 30.0 GPM
- 1 lb. 10 oz Net Weight

GH

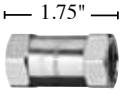
- 2 1/2" MNPT - Inlet Outlet
- 30.0 to 90.0 GPM
- 3 lb. Net Weight

GK

- 3" MNPT - Inlet Outlet
- 30.0 to 120.0 GPM
- 3 lb. 7 Oz Net Weight

G-SERIES FLOW REGULATORS
Brass Housing/Nickel Plated or 316 Stainless Housing

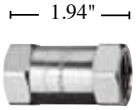
GA



- 3/8 " FNPT - Inlet Outlet
- 0.06 to 1.0 GPM
- 3 oz Net Weight

SSGA

GB



- 1/2" FNPT - Inlet Outlet
- 1.0 to 6.0 GPM
- 4 oz Net Weight

SSGB

GC

- 3/4" FNPT - Inlet Outlet
- 1.0 to 11.5 GPM
- 8 oz Net Weight

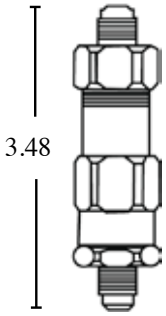
SSGC

GX

- 1" FNPT - Inlet Outlet
- 1 to 30.0 GPM
- 12 oz Net Weight

SSGX

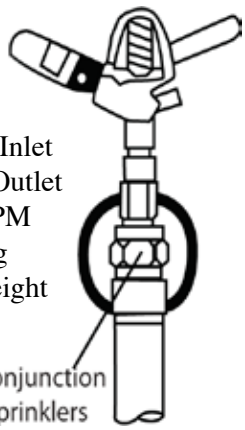
FRS-SERIES FLOW REGULATOR



- 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

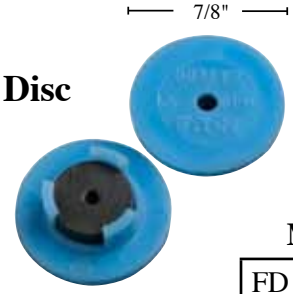
Flow Rate in GPM

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 Stain-less Steel	316 Stain-less Steel	316 Stain-less Steel	316 Stain-less Steel
Flow Rate	0.50 [3]	0.50 [3]	0.06 [1]	2.00 [2]	0.06 [1,3]	1.00 [2]	1.00 [3]	1.00 [3]	1.00 [3]	1.00 [3]	10.0	30.0	30.0	1.00 [3]	0.06 [1,3]	1.00 [3]	1.00 [3]	1.00 [3]
	0.75 [3]	0.75 [3]	0.19 [3]	2.50 [2]	0.13 [3]	1.50 [2]	1.50	1.50	1.50	1.50	11.5 [3]	35.0	35.0	1.50	0.13 [1,3]	1.50 [2]	1.50	1.50
	1.00 [2]	1.00 [2]	0.25 [3]	3.00 [2]	0.19 [3]	2.00 [2]	2.00 [3]	2.00 [3]	2.00 [3]	2.00 [3]	12.0	40.0	40.0	2.00 [3]	0.19 [3]	2.00 [2]	2.00 [3]	2.00 [3]
	1.50 [2]	1.50 [2]	0.35		0.25 [3]	2.50 [2]	2.50 [3]	2.50 [3]	2.50 [3]	2.50 [3]	13.5	45.0	45.0	2.50 [3]	0.25 [3]	2.50 [2]	2.50 [3]	2.50 [3]
		2.00 [2]	0.50 [3]		0.35	3.00	3.00	3.00	3.00	3.00	15.0	50.0	50.0	3.00	0.35	3.00 [2]	3.00	3.00
		2.50 [2]	0.75 [3]		0.50 [3]	3.50 [3]	3.50 [3]	3.50 [3]	3.50 [3]	3.50 [3]	20.0	55.0	55.0	3.50 [3]	0.50 [3]	3.50 [3]	3.50 [3]	3.50 [3]
		3.00 [2]	1.00 [3]		0.75 [3]	4.00 [3]	4.00 [3]	4.00 [3]	4.00 [3]	4.00 [3]	25.0	60.0	60.0	4.00 [3]	0.75 [3]	4.00 [3]	4.00 [3]	4.00 [3]
		4.00 [3]			1.00 [3]	5.00 [3]	5.00 [3]	5.00 [3]	5.00 [3]	5.00 [3]	30.0	65.0	65.0	5.00 [3]	1.00 [3]	5.00	5.00 [3]	5.00 [3]
						6.00 [3]	6.00	6.00	6.00	6.00		70.0	70.0	6.00		6.00	6.00	6.00
							7.00 [3]	7.00 [3]	7.00 [3]	7.00 [3]		80.0	80.0	7.00 [3]			7.00 [3]	7.00 [3]
							8.00 [3]	8.00 [3]	8.00 [3]	8.00 [3]		85.0	85.0	8.00 [3]			8.00 [3]	8.00 [3]
							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 [3]	12.0	12.0	12.0			100.0				11.5 [3]	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 IA 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.

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

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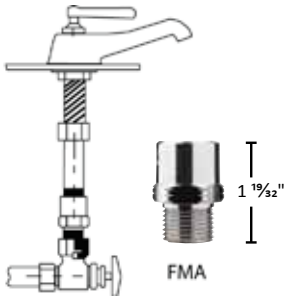
FLOW REGULATORS

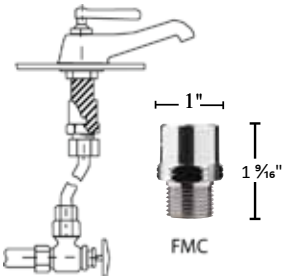
FOR LAVATORY FIXTURES AND SHOWER HEADS

FMA
Flow Rates: 0.5 to 1.5 GPM
Connections:
Inlet: 3/8" MNPT
Outlet: 3/8" FNPT



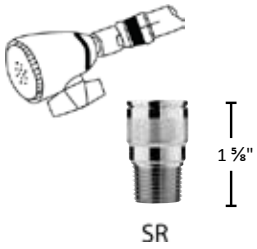
Installed at the stop

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 ( )1

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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