

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 127SS

Process Steam Pressure Regulators

Sizes: 1/2" – 4"

Series 127 Process Steam Pressure Regulators are single seated, direct acting, diaphragm type regulators ideal for institutional, industrial, and commercial applications. They are engineered and recommended for mainline and high capacity process service heating applications. Watts engineers gave particular attention to the convenience of maintenance and the need to quickly restore regulator service when maintenance is required. The springs and diaphragm chamber assemblies of Series 127 are easily changed and the valve is simple to adjust.

Features

- Bronze body, threaded connection (127SS)
- Iron body, Flanged connection (F127SS)
- Single seated, direct acting
- Standardly furnished with stainless steel valve disc

Models

127SS – Bronze body, threaded connections, and stainless steel disc 1/2" – 3"

F127SS – Iron body, flanged connections, and stainless steel disc 3" and 4"

Materials

Body 127SS:	Bronze
Body F127SS:	Iron
Diaphragm:	Buna-N on Nylon
Seat/Trim:	Stainless Steel and Nickel Alloy
Disc 127SS/F127SS:	Stainless steel

Pressures

Maximum Working Pressure: 127SS initial pressures up to 250psi (17.2 bar)

Maximum Working Pressure: F127S initial pressures up to 125psi (8.6 bar)



127SS



F127SS

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

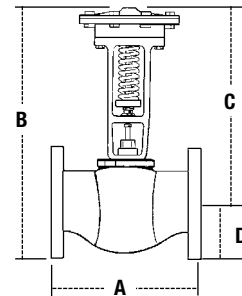
NOTICE

Inquire with governing authorities for local installation requirements

Dimensions

MODEL	SIZE	DIMENSIONS (APPROX.)							
		A		B		C		D	
	<i>in.</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>
127	1/2	4	102	16	406	15	381	1	25
127	3/4	4	102	16	406	15	381	1	25
127	1	4 1/4	108	16 1/8	410	15	381	1 1/8	29
127	1 1/4	4 1/2	114	16 3/8	416	15 1/8	384	1 1/4	32
127	1 1/2	5 1/4	133	16 3/4	425	15 1/4	387	1 1/2	38
127	2	6	152	17 1/8	435	15 3/8	391	1 3/4	44
127	2 1/2	7 1/4	184	17 7/8	454	15 3/4	400	2 1/8	54
127	3	8	203	18 1/2	470	16 1/8	410	2 3/8	60
F127*	3	8	203	20 1/2	521	16 3/4	425	3 3/4	95
F127*	4	12 1/8	308	21 1/4	540	16 3/4	425	4 1/2	114

*Iron body, flanged connections



Capacities

Quick Reference Capacity Chart

MAXIMUM CAPACITIES In Pounds or Kilograms (lbs. or kgs.) per Hour of Steam

MODEL	SIZE (DN)	INITIAL PRESSURE	FROM 50PSI (3.4 BAR)	FROM 100PSI (6.9 BAR)	FROM 150PSI (10.3 BAR)	FROM 200PSI (13.8 BAR)	FROM 250PSI (17.2 BAR)
		REDUCED PRESSURE	UP TO 20PSI (1.4 BAR)	UP TO 50PSI (3.4 BAR)	UP TO 70PSI (4.8 BAR)	UP TO 90PSI (6.2 BAR)	UP TO 125PSI (8.6 BAR)
	<i>in.</i>	<i>lbs./hr.</i>	<i>kgs./hr.</i>	<i>lbs./hr.</i>	<i>kgs./hr.</i>	<i>lbs./hr.</i>	<i>kgs./hr.</i>
127	1/2	218	99	387	175	555	252
127	3/4	492	223	875	397	1255	569
127	1	878	398	1560	708	2237	1015
127	1 1/4	1370	621	2436	1105	3493	1584
127	1 1/2	1973	895	3508	1591	5030	2282
127	2	3518	1596	6253	2836	8967	4067
127	2 1/2	5494	2492	9766	4430	14006	6353
127	3	7906	3586	14054	6375	20154	9142
F127	3	7906	3586	14054	6375	20154	9142
F127	4	8301	3765	14756	6693	21161	9598

Example: Initial Pressure is 100psi (6.9 bar), Reduced Pressure is 50psi (3.4 bar) and Capacity required is 1500 lbs. (680 kgs.) of steam per hour. By referring to the proper initial reduced pressure column "From 100psi/Up to 50psi (6.9 – 3.4 bar)", you will find the capacity of 1560 lbs./hr. (708 kgs./hr.) for the 1" Model 127 valve corresponds most closely to the required capacity of 1500 lbs./hr.

Notes: For reduced pressures greater than those shown for each Initial Pressure column above, refer to the Detailed Capacity Table in the Watts brochure F-127. Be sure to determine both Initial Pressure and Reduced Pressure setting, or the range required.

