

For Institutional, Industrial, and Commercial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 127SS

Process Steam Pressure Regulators

Sizes: ½" – 4" (15 – 100mm)

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 ½" – 3" (15 – 80mm)

F127SS – Iron body, flanged connections, and stainless steel disc 3" and 4" (80 – 100mm)

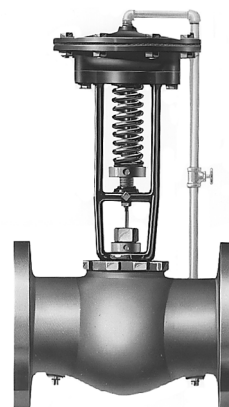
Pressures

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

Materials

Body 127SS: Bronze

Body F127SS: Iron

Diaphragm: Buna-N on Nylon

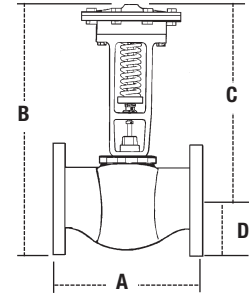
Seat/Trim: Stainless Steel and Nickel Alloy

Disc 127SS/F127SS: Stainless steel

Dimensions

MODEL	SIZE (DN)		DIMENSIONS (APPROX.)							
	in.	mm	A		B		C		D	
			in	mm	in	mm	in	mm	in	mm
127	½	15	4	102	16	406	15	381	1	25
127	¾	20	4	102	16	406	15	381	1	25
127	1	25	4¼	108	16⅞	410	15	381	1⅛	29
127	1¼	32	4½	114	16¾	416	15⅞	384	1¼	32
127	1½	40	5¼	133	16¾	425	15¼	387	1½	38
127	2	50	6	152	17⅞	435	15¾	391	1¾	44
127	2½	65	7¼	184	17⅞	454	15¾	400	2⅛	54
127	3	80	8	203	18½	470	16⅞	410	2⅝	60
F127*	3	80	8	203	20½	521	16¾	425	3¼	95
F127*	4	100	12⅛	308	21¼	540	16¾	425	4½	114

*Iron body, flanged connections



Capacities

Quick Reference Capacity Chart

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

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)

MODEL	SIZE (DN)		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)	
	in.	mm	lbs./hr.	kgs./hr.	lbs./hr.	kgs./hr.	lbs./hr.	kgs./hr.	lbs./hr.	kgs./hr.	lbs./hr.	kgs./hr.
127	½	15	218	99	387	175	555	252	731	332	900	408
127	¾	20	492	223	875	397	1255	569	1653	750	2037	924
127	1	25	878	398	1560	708	2237	1015	2943	1131	3631	1647
127	1¼	32	1370	621	2436	1105	3493	1584	4599	2086	5668	2570
127	1½	40	1973	895	3508	1591	5030	2282	6623	3004	8163	3703
127	2	50	3518	1596	6253	2836	8967	4067	11807	5356	14553	6601
127	2½	65	5494	2492	9766	4430	14006	6353	18442	8365	22730	10310
127	3	80	7906	3586	14054	6375	20154	9142	26538	12037	32709	14837
F127	3	80	7906	3586	14054	6375	20154	9142	-	-	-	-
F127	4	100	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" (25mm) Model 127 valve corresponds most closely to the required capacity of 1500 lbs./hr.

NOTE: 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.



A Watts Water Technologies Company



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