

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 152A

Process Steam Pressure Regulators

Size: ½" – 2"

Series 152A Process Steam Pressure Regulators are designed to offer highly sensitive response to reduced pressure changes and maintain fullest possible volume without appreciable reduced pressure drop. These regulators are ideal for use on applications such as oil lines, testing fixtures, autoclaves, steam tables, steam irons, single radiators, vulcanizers, sterilizers and process lines. The series 152A features a sensitivity adjuster to eliminate any vibrating condition that may arise from critical flow requirements.

Features

- Iron body construction
- Serviceable in line
- Standard sensitivity adjuster

Specifications

Valve shall be manufactured out of iron and have a maximum working pressure of up to 200psi. Valve shall feature a sensitivity adjuster to eliminate vibrating conditions. Valves shall be serviceable in line and have stainless steel trim and strainer. Valve shall be a Watts Series 152A.

Models

- 152A –** Iron body for pressures up to 200psi (14 bar)
152AT – Tight seating for dead end and liquid service. Utilizes Teflon® valve disc, maximum operating temperatures are 300°F (204°C) at 300psi (21 bar) and 400°F (204°C) at 200psi (14 bar)

For information on ½" – 1" stainless steel construction, see literature ES-152SS.

Materials

- Body: Iron
 Trim: Stainless Steel
 Strainer: Stainless Steel
 Diaphragm: Laminated Metal
 Seat: Replaceable Stainless Steel
 Disc: Replaceable Stainless Steel

Pressure – Temperature

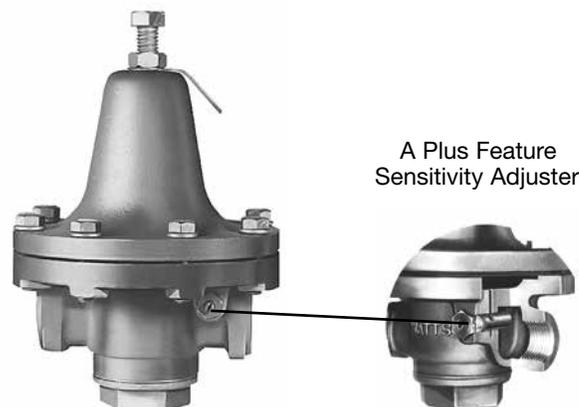
152A Maximum Working Pressure: 200psi (14 bar)

152AT Maximum Temperature: 300°F (149°C)

Maximum Working Pressure: 300psi (21 bar), and Maximum Temperature: 400°F (204°C)

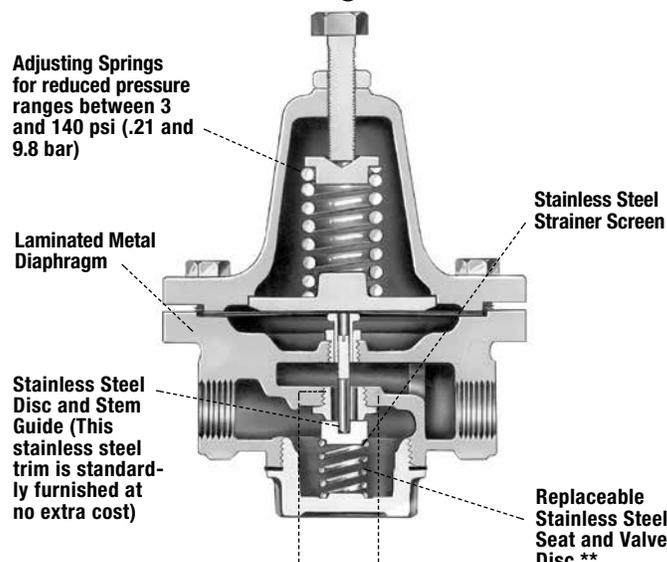
Maximum Working Pressure: 200psi (14 bar)

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



Series 152A

Basic Design Feature



** When utilizing a Teflon valve disc in the 152AT, the maximum operating temperatures are 300°F at 300psi (149°C at 21 bar) and 400°F at 200psi (204°C at 14 bar).

Teflon® is a registered trademark of E.I. duPont deNemours Co., Inc.

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

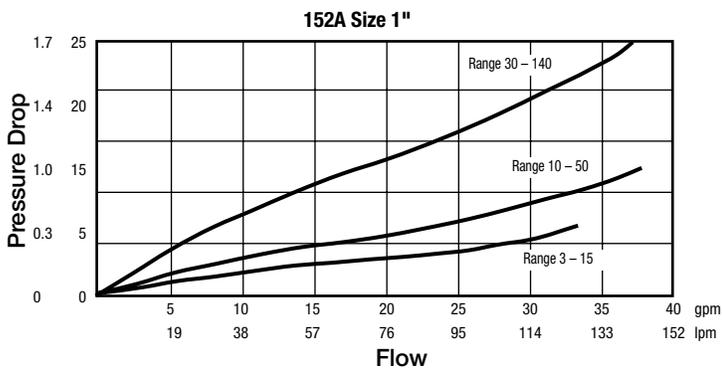
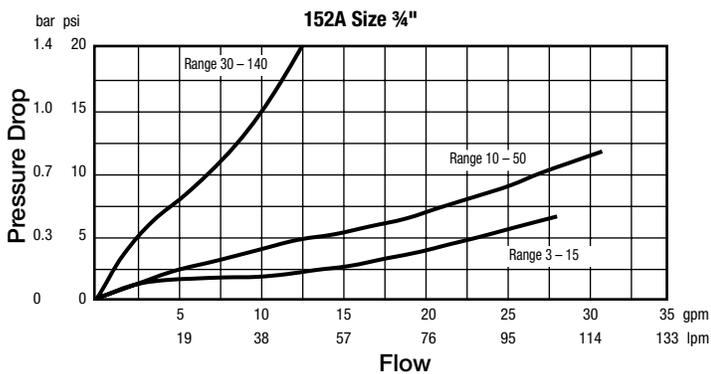
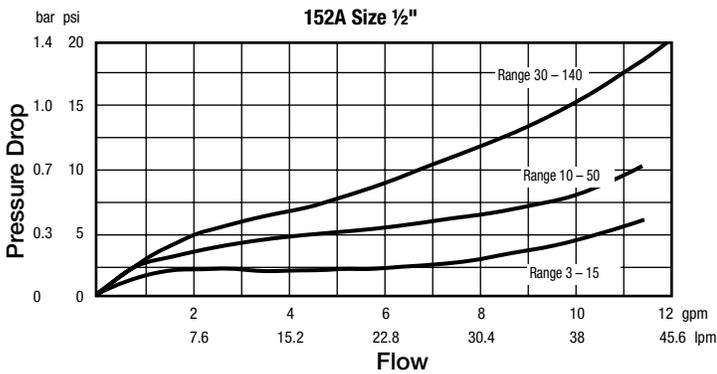
Inquire with governing authorities for local installation requirements

Quick Reference Capacity Chart For Average Conditions

		From <i>psi bar</i>		From <i>psi bar</i>		From <i>psi bar</i>		From <i>psi bar</i>		From <i>psi bar</i>		From <i>psi bar</i>		From <i>psi bar</i>					
Initial Pressure		50	3.52	75	5.27	100	7.03	125	8.79	150	10.55	175	12.3	200	14.06	225	15.82	250	17.58
Reduced Pressure		Up To		Up To		Up To		Up To		Up To		Up To		Up To		Up To		Up To	
		20	1.41	35	2.46	50	3.52	60	4.22	70	4.92	80	5.62	90	6.33	100	7.03	125	8.79
		*Maximum Capacities in Lbs. of Steam Per Hour																	
252A, 152A	in.	80	111	143	175	205	237	270	299	332									
252A, 152A	$\frac{3}{4}$	285	394	506	620	726	841	956	1060	1178									
252A, 152A	1	402	557	715	875	1025	1186	1349	1497	1663									
152A	1 - $\frac{1}{4}$	442	613	786	962	1127	1305	1484	1646	1830									
152A	1 - $\frac{1}{2}$	665	870	1120	1355	1600	1950	2230	2460	2725									
152A	2	765	1000	1285	1490	1840	2242	2564	2829	3134									

*1 Lb. Steam Equals 970 BTU Per Hour

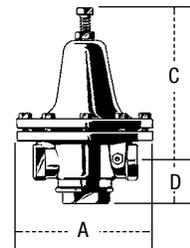
Capacity



Series 152A Adjusting Spring Range Chart

SIZE	*ADJUSTABLE RANGES		SPRING AND MODEL NO.
1/2	3 - 15	0.21 - 1.05	145
1/2	10 - 50	0.70 - 3.51	146
1/2	30 - 140	2.11 - 9.84	141
3/4	3 - 15	0.21 - 1.05	145
3/4	10 - 50	0.70 - 3.51	146
3/4	30 - 140	2.11 - 9.84	141
1	3 - 15	0.21 - 1.05	146
1	10 - 30	0.70 - 2.11	128
1	30 - 140	2.11 - 9.84	142
1 1/4	3 - 15	0.21 - 1.05	146
1 1/4	10 - 30	0.70 - 2.11	128
1 1/4	30 - 140	2.11 - 9.84	142
1 1/2	5 - 40	0.35 - 2.81	276
1 1/2	30 - 100	2.11 - 7.03	299
2	5 - 40	0.35 - 2.81	276
2	30 - 100	2.11 - 7.03	299

*The minimum reduced pressure ranges shown are recommended only when very sensitive regulation service is needed for specific requirements. However, all valves may be adjusted below the working range minimum shown for lower regulation or complete shut off.



Dimensions - Weights

SIZE	DIMENSIONS						WEIGHT	
	A		B		C		lbs.	kgs
1/2	in.	mm	in.	mm	in.	mm	11	4.99
3/4	6	152	7	178	1 15/16	49	11	4.99
1	7 1/2	191	7 1/2	191	2 3/16	56	20	9.07
1 1/4	7 1/2	191	7 1/2	191	2 3/16	56	20	9.07
1 1/2	9	229	11 1/4	286	2 3/4	70	40	18.14
1 1/2	9	229	11 1/4	286	2 3/4	70	40	18.14

