

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
Steel Disc:	Replaceable Stainless Steel

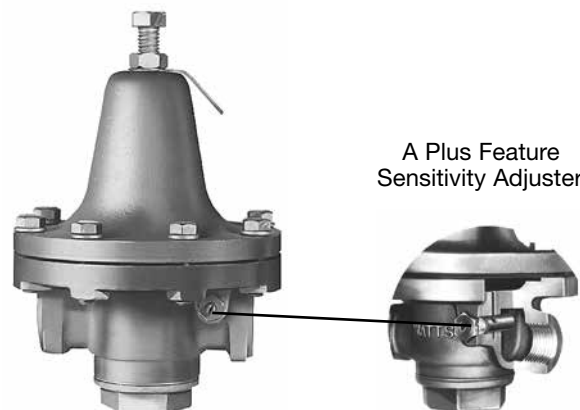
Pressure – Temperature

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

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

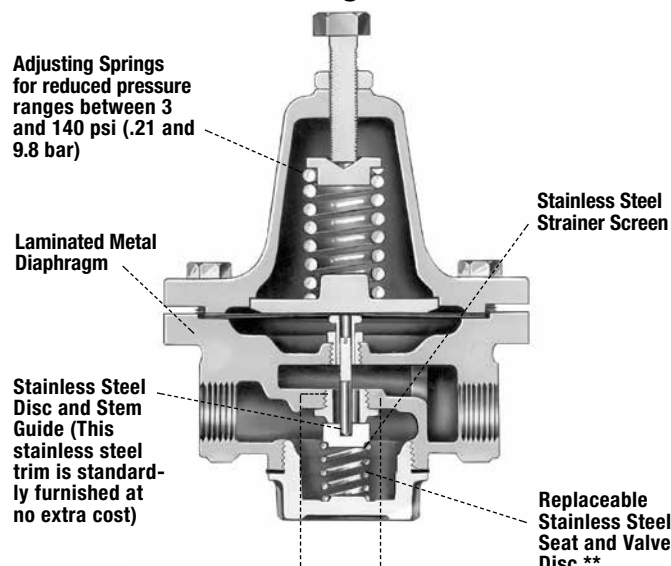
Maximum Working Pressure: 300psi (21 bar), and Maximum Temperature: 400°F (204°C)

Maximum Working Pressure: 200psi (14 bar)



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

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.

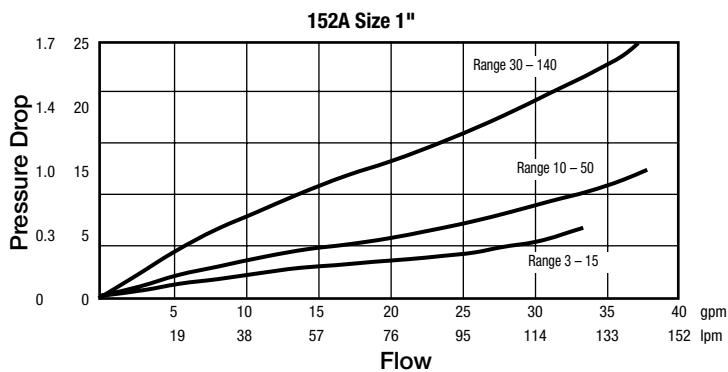
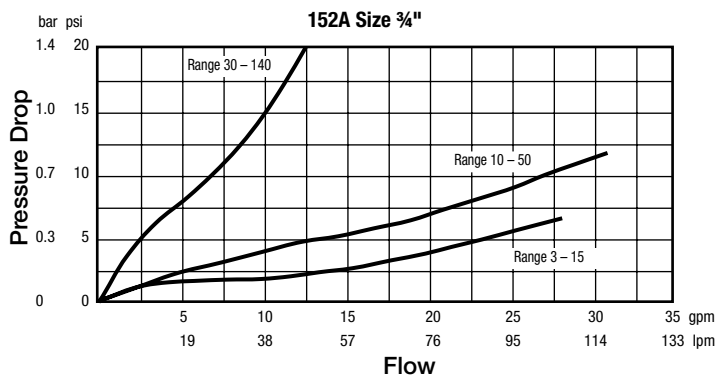
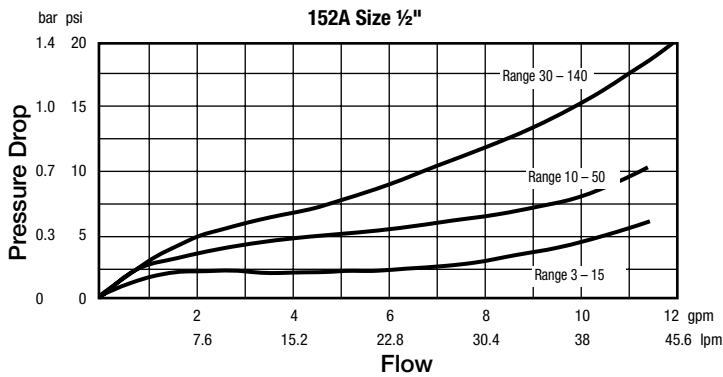


Quick Reference Capacity Chart For Average Conditions

		From		From		From		From		From		From		From		From	
		psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar
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
		Up To		Up To		Up To		Up To		Up To		Up To		Up To		Up To	
Reduced Pressure		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														
		2															
*Maximum Capacities in Lbs. of Steam Per Hour																	
252A, 152A	in.	80		111		143		175		205		237		270		299	
252A, 152A	¾	285		394		506		620		726		841		956		1060	
252A, 152A	1	402		557		715		875		1025		1186		1349		1497	
152A	1 - ¼	442		613		786		962		1127		1305		1484		1646	
152A	1 - ½	665		870		1120		1355		1600		1950		2230		2460	
152A	2	765		1000		1285		1490		1840		2242		2564		2829	
		3134															

*1 Lb. Steam Equals 970 BTU Per Hour

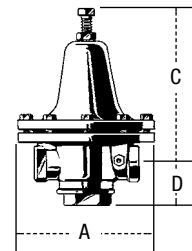
Capacity



Series 152A Adjusting Spring Range Chart

SIZE	*ADJUSTABLE RANGES		SPRING AND MODEL NO.
½	3 - 15	0.21 - 1.05	145
½	10 - 50	0.70 - 3.51	146
½	30 - 140	2.11 - 9.84	141
¾	3 - 15	0.21 - 1.05	145
¾	10 - 50	0.70 - 3.51	146
¾	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
1¼	3 - 15	0.21 - 1.05	146
1¼	10 - 30	0.70 - 2.11	128
1¼	30 - 140	2.11 - 9.84	142
1½	5 - 40	0.35 - 2.81	276
1½	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	
	in.	mm	in.	mm	in.	mm
½	6	152	7	178	1½/16	49
¾	6	152	7	178	1½/16	49
1	7½	191	7½	191	2¾/16	56
1¼	7½	191	7½	191	2¾/16	56
1½	9	229	11¼	286	2¾	70
1½	9	229	11¼	286	2¾	70

