Engineering Specification

Job Name ————	Contractor ————————————————————————————————————
oob Name	Contractor
Job Location ————	Approval ————————————————————————————————————
Engineer —————	Contractor's P.O. No.
Approval —————	Representative ————————————————————————————————————

Series 152A

Process Steam Pressure Regulators

1/2" - 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

Specification

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 $\frac{1}{2}$ " – 1" stainless steel construction, see literature ES-152SS.

Materials

Body: Iron

Trim: Stainless Steel Strainer: Stainless Steel

Diaphragm: Laminated Metal Seat:Replaceable Stainless Steel

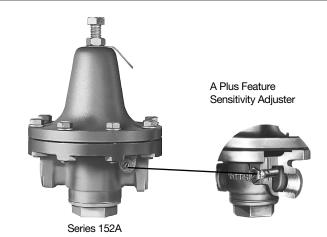
Disc: Replaceable Stainless Steel

Pressure - Temperature

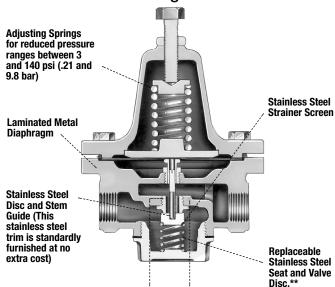
152A Maximum Working Pressure: 200psi (14 bar) 152AT Maximum Temperature: 300°F (149°C) Maximum Working Pressure: 300psi (21 bar), and Maximum

Temperature: 400°F (204°C)

Maximum Working Pressure: 200psi (14 bar)



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 tradename 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.

Inquire with governing authorities for local installation requirements

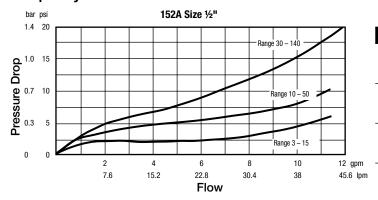


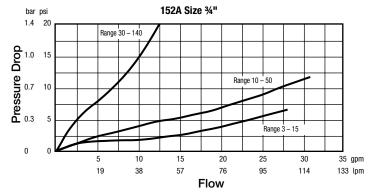
Quick Reference Capacity Chart For Average Conditions

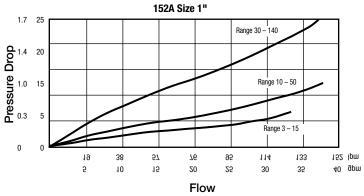
		FROM		FROM FROM		FROM		FROM		FROM		FROM		FROM		FROM			
		psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar
Initial Pressure		50	3.52	75	5.27	100	7.03	125	8.79	150	10.55	175	12.3	200	14.06	225	15.82	250	17.58
	Up	То	Up	То	Up	То	o Up To		Up To		Up To		Up To		Up To		Up To		
Reduced Pre	ssure	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
	in.	*MAXIMUM CAPACITIES IN LBS. OF STEAM PER HOUR																	
252A, 152A	1/2	8	0	111		143		17	75	20	05	237		270		299		332	
252A, 152A	3/4	285 394		94	506		620		726 841		956		1060		1178				
252A, 152A	1	402		55	57	715		875		1025		1186		1349		1497		1663	
152A	1 – 1/4	442		61	13	786		962		1127		1305		1484		1646		1830	
152A	1 – ½	66	665 870 112		20	1355		1600 1950		50	2230		2460		2725				
152A	2	76	55	10	00	1285		14	90	1840		2242		2564		2829		3134	

^{*1} Lb. Steam Equals 970 BTU Per Hour

Capacity







Series 152A Adjusting Spring Range Chart

SIZE	*ADJUSTA	BLE 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
11/4	3 – 15	0.21 - 1.05	146
11/4	10 – 30	0.70 - 2.11	128
11/4	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

I	SIZE		WEIGHT						
Ī			A		3	C	;		
		in.	mm	in.	mm	in.	mm	lbs.	kgs
	1/2	6	152	7	178	115/16	49	11	4.99
	3/4	6	152	7	178	115/16	49	11	4.99
	1	7½	191	7½	191	23/16	56	20	9.07
	11/4	7½	191	7½	191	23/16	56	20	9.07
	1½	9	229	111/4	286	2¾	70	40	18.14
	1½	9	229	111/4	286	2¾	70	40	18.14



USA: T: (978) 689-6066 • Watts.com

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