For Steam, Liquid or Air Applications

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

Series 152A Process Steam Pressure Regulators

Sizes 1/2" - 2" (15 - 50mm)

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

Models

152A - Iron body for pressures up to 200psi (14 bars)

152AT – Tight seating for dead end and liquid service. Utilizes Teflon® valve disc, maximum operating temperatures are 300°F (204°C) at 300psi (21 bars) and 400°F (204°C) at 200psi (14 bars)

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

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 Regulator Company Series 152A.

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 bars)
- 152AT Maximum Temperature: 300°F (149°C) Maximum Working Pressure: 300psi (21 bars), and Maximum Temperature: 400°F (204°C) Maximum Working Pressure: 200psi (14 bars)



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

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



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Quick Reference Capacity Chart For Average Conditions

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	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	
			U	p To	Ир То Ир То Ир То				Up	Ир То Ир То			Up To		Up To		Up To			
Redu	iced Pressure)	20	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.	mm		*Maximum Capacities in Lbs. of Steam Per Hour																
152A	1⁄2"	15		80	111		143		175		205		237		270		299		332	
152A	3⁄4"	20		285	394 506)6	620		726		841		956		1060		1	178	
152A	1"	25	4	402	557		715		875		1025		1186		1349		1497		1663	
152A	1¼"	32	4	442	613 786		962		1127		1305		1484		1646		1	830		
152A	11/2"	40	(665	8	70 1120		1355		1600		1950		2230		2460		2	725	
152A	2"	50		765	10	1000 1285		85	1490		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.
in.	тт	psi	bars	
1/2	15	3 – 15	.21 – 1.05	145
1/2	15	10 – 50	.70 – 3.51	146
1/2	15	30 – 140	2.11 – 9.84	141
3⁄4	20	3 – 15	.21 – 1.05	145
3⁄4	20	10 – 50	.70 – 3.51	146
3⁄4	20	30 – 140	2.11 – 9.84	141
1	25	3 – 15	.21 – 1.05	146
1	25	10 – 30	.70 – 2.11	128
1	25	30 – 140	2.11 – 9.84	142
11⁄4	32	3 – 15	.21 – 1.05	146
11⁄4	32	10 – 30	.70 – 2.11	128
11/4	32	30 – 140	2.11 – 9.84	142
1½	40	5 – 40	.35 – 2.81	276
1½	40	30 – 100	2.11 – 7.03	299
2	50	5 – 40	.35 – 2.81	276
2	50	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 minimums shown for lower regulation or complete shut off.

Dimensions — Weights



SIZE	(DN)			WEIGHT					
			A	C	;	D			
in.	тт	in.	тт	in.	тт	in.	тт	lbs.	kg.
1/2	15	6	152	7	178	1 ¹⁵ ⁄16	49	11	4.99
3⁄4	20	6	152	7	178	1 ¹⁵ ⁄16	49	11	4.99
1	25	71⁄2	191	71⁄2	191	2 ³ ⁄16	56	20	9.07
11/4	32	71⁄2	191	71⁄2	191	2 ³ ⁄16	56	20	9.07
1 ½	40	9	229	111/4	286	2 ³ ⁄4	70	40	18.14
2	50	9	229	111⁄4	286	23⁄4	70	40	18.14

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