

November 2023

Spence Type D50A Pressure Regulator



Figure 1. Type D50A Pressure Regulator

Introduction

Type D50A Pressure Reducing and Regulating Regulator includes models suitable for air, water, steam, oil and other liquids.

Water and Air Service

Type D50A Regulators are available in 1/4 to 2 NPT sizes with iron bodies and feature a variety of optional internal trim (diaphragm, piston and cylinder) that enable them to be used in a wide range of applications.

Each regulator is equipped with a pressure spring selected to provide the desired outlet or reduced delivery pressure setting. Depending on the adjusting spring installed, delivery pressures may be adjusted from a minimum of 2 psi / 0.14 bar to a maximum of 150 psi / 10.3 bar. The range of adjustment or satisfactory working range of the individual springs that may be fitted to each regulator size is listed in the spring range table. See Table 1.

The regulator is designed for systems with a maximum operating temperature of 180°F / 82°C. In addition to the standard specifications, any combination of body material, bottom plug and diaphragm is available to special order.

The Type D50A Water and Air Regulators are suitable for a variety of applications including paint spray equipment, dishwashers, air tanks and equipment, food, chemical and industrial process gases and many other applications.

Steam Service

These regulators are designed for steam operating temperatures up to 400°F / 204°C and are available in 1/4 to 2 NPT sizes with iron bodies. Iron body regulators have a PTFE seat and are for systems with initial pressures up to 150 psi / 10.3 bar.

Regulators will normally be equipped as indicated in the table but other combinations of body material, bottom plug and diaphragm are available to special order.

The Type D50A Steam Pressure Reducing and Regulating Regulator is ideally suited for installation in pressing irons, steam cookers, degreasers, sterilizers, vulcanizers and hundreds of other applications. Type D50A Steam Regulators can also be furnished with a differential pressure control feature which may be desirable in steam/oil atomizing service.

Type D50A

Specifications

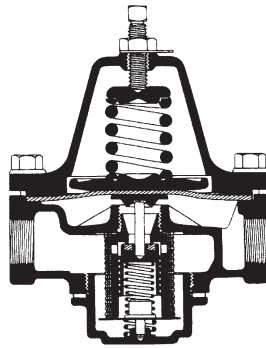
The specifications section on this page provides the ratings and other specifications for the Type D50A.

Sizes 1/4, 3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2 and 2 NPT	Outlet Pressure Range⁽¹⁾ See Table 1
End Connections NPTF	Materials of Construction Body: Iron Spring: Steel Bottom Plug: Brass Seat Disk <i>Water and Air:</i> Nitrile (NBR) <i>Steam:</i> Polytetrafluoroethylene (PTFE) Diaphragm <i>Water and Air:</i> Nitrile (NBR) <i>Steam:</i> Bronze
Maximum Inlet Pressure⁽¹⁾ Air or water: 200 psi / 13.8 bar Steam: 150 psi / 10.3 bar	
Maximum Outlet Pressure⁽¹⁾ Air or water: 150 psi / 10.3 bar Steam: 125 psi / 8.62 bar	
Maximum Operating Temperature⁽¹⁾ Air or water: 180°F / 82°C Steam: 400°F / 204°C	

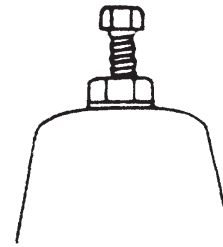
1. The pressure/temperature limits in this Bulletin and any applicable standard or code limitation should not be exceeded.

Table 1. Outlet Pressure Range

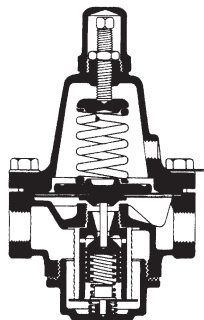
BODY SIZE		SPRING RANGE			
		Water and Air		Steam	
in	mm	psi	bar	psi	bar
1/4	7	2 to 25	0.14 to 1.72	2 to 25	0.14 to 1.72
		20 to 60	1.38 to 4.14	20 to 60	1.38 to 4.14
		30 to 100	2.07 to 6.90	30 to 100	2.07 to 6.90
		50 to 150	3.45 to 10.3	50 to 125	3.45 to 8.62
3/8	9.5	2 to 30	0.14 to 2.07	2 to 30	0.14 to 2.07
		20 to 70	1.38 to 4.83	20 to 70	1.38 to 4.83
		40 to 110	2.76 to 7.58	40 to 110	2.76 to 7.58
		90 to 150	6.21 to 10.3	90 to 125	6.21 to 8.62
1/2	13	2 to 30	0.14 to 2.07	2 to 30	0.14 to 2.07
		10 to 50	0.69 to 3.45	10 to 50	0.69 to 3.45
		30 to 125	2.07 to 8.62	30 to 125	2.07 to 8.62
		50 to 150	3.45 to 10.3	50 to 125	3.45 to 8.62
3/4	19	2 to 20	0.14 to 1.38	2 to 20	0.14 to 1.38
		10 to 35	0.69 to 2.41	10 to 35	0.69 to 2.41
		30 to 75	2.07 to 5.17	30 to 75	2.07 to 5.17
		50 to 110	3.45 to 7.58	50 to 110	3.45 to 7.58
1	25	105 to 150	7.24 to 10.3	105 to 125	7.24 to 8.62
		2 to 20	0.14 to 1.38	2 to 20	0.14 to 1.38
		10 to 45	0.69 to 3.10	10 to 45	0.69 to 3.10
		20 to 60	1.38 to 4.14	20 to 60	1.38 to 4.14
1-1/4 and 1-1/2	32 and 38	55 to 100	3.79 to 6.90	55 to 100	3.79 to 6.90
		90 to 150	6.21 to 10.3	90 to 125	6.21 to 8.62
		2 to 15	0.14 to 1.03	2 to 15	0.14 to 1.03
		10 to 30	0.69 to 2.07	10 to 30	0.69 to 2.07
2	51	20 to 50	1.38 to 3.45	20 to 50	1.38 to 3.45
		45 to 100	3.10 to 6.90	45 to 100	3.10 to 6.90
		90 to 150	6.21 to 10.3	90 to 125	6.21 to 8.62
		2 to 20	0.14 to 1.38	2 to 20	0.14 to 1.38
		10 to 60	1.69 to 4.14	10 to 60	1.69 to 4.14
		20 to 100	1.38 to 6.90	20 to 100	1.38 to 6.90
		90 to 150	6.21 to 10.3	90 to 125	6.21 to 8.62



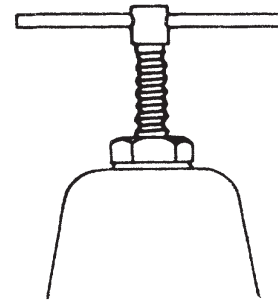
WATER AND AIR SERVICE



STANDARD ADJUSTING SCREW



STEAM SERVICE



T-HANDLE

Figure 2. Type D50A Schematic

Figure 3. Type D50A Adjusting Screw Options

Optional Differential Pressure Control

The Type D50A Steam Regulator can be factory modified to serve as a constant differential pressure control regulator by incorporating a 1/4 NPT side tap in the spring housing.

In a typical steam-oil atomizing installation, fluid loading pressure is introduced above the diaphragm of the regulator and steam is delivered through the regulator at a regulated pressure higher than the loading pressure, with the difference in pressure being determined by the diaphragm spring setting. The outlet steam pressure is maintained automatically to provide a constant, fixed pressure differential between the steam pressure and the oil pressure. Variations in the loading pressure are reflected in a pound-for-pound change in the discharge pressure.

Regulators equipped with the optional differential pressure control are fitted with a pressure-tight closing cap and gasket over the pressure adjusting screw and a gasket above the diaphragm to ensure a good seal between the spring housing and the regulator body.

Principle of Operation

When the fluid supply is cut in, the regulator is in wide open position. Fluid flowing to the system creates a rising delivery pressure which feeds back through the control ports to the underside of diaphragm. As the pressure on diaphragm approaches a balance with the force exerted by adjusting spring, disk is throttled to a position where just enough water flows to maintain the set delivery pressure.

Installation

1. Install a strainer upstream of the Type D50A. The built-in strainer screen is secondary protection only.
2. Install Type D50A regulator in a horizontal position with the spring chamber upright. For other installation requirements, consult the factory.
3. Before installing the regulator, thoroughly flush out the piping and the regulator to remove any foreign material.
4. Install the regulator with the inlet pipe fitted to the inlet connection identified on the regulator body. Use a good pipe joint compound on the male pipe threads and do not over tighten the regulator connections.

Type D50A

Capacity Information

The capacity of any regulator is governed by two factors:

- Pressure differential or the difference between the inlet and outlet pressure.
- A characteristic known as fall-off or droop, by which the outlet pressure drops slightly as flow starts through the regulator and drops off even more as increased demand requires increased flow.

The rates of flow stated on the following charts are based on assumed conditions, which may be considered average for a given installation.

Table 2. Type D50A Water Capacity Information (based on 20% droop)

INLET PRESSURE		OUTLET PRESSURE		WATER INLET (Gal/min. / L/min.)															
psi	bar	psi	bar	1/4 NPT		3/8 NPT		1/2 NPT		3/4 NPT		1 NPT		1-1/4 NPT		1-1/2 NPT		2 NPT	
25	1.72	15	1.03	0.6	2.27	1.0	3.79	2.6	9.84	4.0	15.1	5.7	21.6	9.2	34.8	10.4	39.4	16.0	60.6
		10	0.69	0.6	2.27	1.2	4.54	2.9	11.0	4.5	17.0	6.4	24.2	10.4	39.4	11.7	44.3	18.0	68.1
50	3.45	40	2.76	0.8	3.03	1.4	5.30	3.5	13.2	5.5	20.8	7.9	29.9	12.7	48.1	14.3	54.1	22.0	83.3
		25	1.72	0.8	3.03	1.6	6.06	3.8	14.4	6.0	22.7	8.6	32.6	13.8	52.2	15.6	59.1	24.0	90.8
		10	0.69	0.8	3.03	1.6	6.06	3.8	14.4	6.0	22.7	8.6	32.6	13.8	52.2	15.6	59.1	24.0	90.8
75	5.17	65	4.48	1.0	3.79	2.0	7.57	4.8	18.2	7.5	28.4	10.7	40.5	17.3	65.5	19.5	73.8	30.0	114
		50	3.45	1.1	4.16	2.1	7.95	5.1	19.3	8.0	30.3	11.4	43.2	18.4	69.7	20.4	77.2	32.0	121
		25	1.72	1.3	4.92	2.3	8.71	5.8	22.0	9.0	34.1	12.9	48.8	20.7	78.4	23.4	88.6	36.0	136
		10	0.69	1.3	4.92	2.3	8.71	5.8	22.0	9.0	34.1	12.9	48.8	20.7	78.4	23.4	88.6	36.0	136
100	6.90	90	6.21	1.5	5.68	2.7	10.2	6.7	25.4	10.5	39.7	15.0	56.8	24.2	91.6	27.3	103	42.0	159
		75	5.17	1.6	6.06	3.0	11.4	7.4	28.0	11.5	43.5	16.4	62.1	26.5	100	29.9	113	46.0	174
		50	3.45	1.7	6.44	3.2	12.1	8.0	30.3	12.5	47.3	17.9	67.8	28.8	109	32.5	123	50.0	189
		25	1.72	1.8	6.81	3.4	12.9	8.3	31.4	13.0	49.2	18.6	70.4	29.9	113	33.8	128	52.0	197
125	8.62	100	6.90	1.5	5.68	2.9	11.0	7.0	26.5	11.0	41.6	15.7	59.4	25.3	95.8	28.6	108	44.0	167
		75	5.17	1.7	6.44	3.3	12.5	8.0	30.3	12.5	47.3	17.9	67.8	28.8	109	32.5	123	50.0	189
		50	3.45	2.0	7.57	3.6	13.6	9.0	34.1	14.0	53.0	20.0	75.7	32.2	122	36.4	138	56.0	212
		25	1.72	2.0	7.57	3.6	13.6	9.0	34.1	14.0	53.0	20.0	75.7	32.2	122	36.4	138	56.0	212
150	10.3	140	9.65	1.5	5.68	2.9	11.0	7.0	26.5	11.0	41.6	15.7	59.4	25.3	95.8	28.6	108	44.0	167
		100	6.90	1.9	7.19	3.5	13.2	8.6	32.6	13.5	51.1	19.3	73.1	27.0	102	35.1	133	54.0	204
		75	5.17	2.0	7.57	3.8	14.4	9.3	35.2	14.5	54.9	20.7	78.4	33.4	126	37.7	143	58.0	220
		50	3.45	2.2	8.33	4.0	15.1	9.9	37.5	15.5	58.7	22.2	84.0	35.7	135	40.3	153	62.0	235
		25	1.72	2.2	8.33	4.0	15.1	9.9	37.5	15.5	58.7	22.2	84.0	35.7	135	40.3	153	62.0	235
200	13.8	150	10.3	1.9	7.19	3.5	13.2	8.6	32.6	13.5	51.1	19.3	73.1	31.1	118	35.1	133	54.0	204
		100	6.90	2.2	8.33	4.0	15.1	9.9	37.5	15.5	58.7	22.2	84.0	35.7	135	40.3	153	62.0	235
		75	5.17	2.5	9.46	4.6	17.4	11.2	42.4	17.5	66.2	25.0	94.6	40.3	153	45.5	172	70.0	265
		50	3.45	2.7	10.2	4.9	18.5	12.2	46.2	19.0	71.9	27.2	103	43.7	165	49.4	187	76.0	288
		25	1.72	2.7	10.2	4.9	18.5	12.2	46.2	19.0	71.9	27.2	103	43.7	165	49.4	187	76.0	288
250	17.2	150	10.3	2.1	7.95	3.9	14.8	9.6	36.3	15.0	56.8	21.5	81.4	34.5	131	39.0	148	60.0	227
		100	6.90	2.5	9.46	4.6	17.4	11.2	42.4	17.5	66.2	25.0	95	40.3	153	45.5	172	70.0	265
		75	5.17	2.8	10.6	5.2	19.7	12.8	48.5	20.0	75.7	28.6	108	46.0	174	52.0	197	80.0	303
		50	3.4	2.9	11.0	5.5	20.8	13.4	50.7	21.0	79.5	30.0	114	48.3	183	54.6	207	84.0	318
		25	1.72	2.9	11.0	5.5	20.8	13.4	50.7	21.0	79.5	30.0	114	48.3	183	54.6	207	84.0	318
300 and 400	20.7 and 27.6	150	10.3	2.5	9.46	4.6	17.4	11.2	42.4	17.5	66.2	25.0	94.6	40.3	153	45.5	172	70.0	265
		100	6.90	3.5	13.2	6.5	24.6	16.0	60.6	25.0	94.6	35.8	136	57.5	218	65.0	246	100.0	379
		75	5.17	4.2	15.9	7.8	29.5	19.2	72.7	30.0	114	42.9	162	69.0	261	78.0	295	120.0	454
		50	3.45	4.2	15.9	7.8	29.5	19.2	72.7	30.0	114	42.9	162	69.0	261	78.0	295	120.0	454

Table 3. Type D50A Air Capacity Information (based on 20% droop)

INLET PRESSURE		OUTLET PRESSURE		AIR CAPACITY INLET (SCFM / Nm ³ /hr)															
psi	bar	psi	bar	1/4 NPT		3/8 NPT		1/2 NPT		3/4 NPT		1 NPT		1-1/4 NPT		1-1/2 NPT		2 NPT	
25	1.72	15	1.03	4.7	7.57	7.0	11.3	16.5	26.6	23.5	37.8	37.6	60.5	56.4	90.8	65.8	106	106	170
		10	0.69	5.0	8.05	7.5	12.1	17.5	28.2	25.0	40.3	40.0	64.4	60.0	96.6	70.0	113	113	181
50	3.45	40	2.76	7.0	11.3	10.5	16.9	24.5	39.4	35.0	56.4	56.0	90.2	84.0	135	98.0	158	158	254
		25	1.72	8.2	13.2	12.3	19.8	28.7	46.2	41.0	66.0	65.6	106	98.4	158	115	185	185	297
		10	0.69	8.2	13.2	12.3	19.8	28.7	46.2	41.0	66.0	65.6	106	98.4	158	115	185	185	297
75	5.17	65	4.48	7.5	12.1	11.3	18.2	26.3	42.3	37.5	60.4	60.0	96.6	90.0	145	105	169	169	272
		50	3.45	8.5	13.7	12.8	20.6	29.8	48.0	42.5	68.4	68.0	109	102	164	115	185	191	308
		25	1.72	11.0	17.7	16.5	26.6	38.5	62.0	55.0	88.6	88.0	142	132	213	154	248	248	398
		10	0.69	11.0	17.7	16.5	26.6	38.5	62.0	55.0	88.6	88.0	142	132	213	154	248	248	398
100	6.90	90	6.21	9.0	14.5	13.5	21.7	31.5	50.7	45.0	72.5	72.0	116	108	174	126	203	203	327
		75	5.17	12.0	19.3	18.0	29.0	42.0	67.6	60.0	96.6	96.0	155	144	232	168	270	270	435
		50	3.45	15.0	24.2	22.5	36.2	52.5	84.5	75.0	121	120	193	180	290	210	338	338	543
		25	1.72	15.0	24.2	22.5	36.2	52.5	84.5	75.0	121	120	193	180	290	210	338	338	543
125	8.62	100	6.90	13.0	20.9	19.5	31.4	45.5	73.3	65.0	105	104	167	156	251	182	293	293	472
		75	5.17	15.0	24.2	22.5	36.2	52.5	84.5	75.0	121	120	193	180	290	236	380	338	544
		50	3.45	18.0	29.0	27.0	43.5	63.0	101.4	90.0	145	144	232	216	348	252	406	405	652
		25	1.72	18.0	29.0	27.0	43.5	63.0	101.4	90.0	145	144	232	216	348	252	406	405	652
150	10.3	140	9.65	15.0	24.2	22.5	36.2	52.5	84.5	75.0	121	120	193	180	290	210	338	338	544
		100	6.90	18.0	29.0	27.0	43.5	63.0	101	90.0	145	144	232	216	348	252	406	405	652
		75	5.17	23.0	37.0	34.5	55.5	80.5	130	115	185	184	296	276	444	322	518	518	834
		50	3.45	25.0	40.3	37.5	60.4	87.5	141	125	201	200	322	300	483	350	564	563	906
		25	1.72	25.0	40.3	37.5	60.4	87.5	141	125	201	200	322	300	483	350	564	563	906
200	13.8	150	10.3	19.0	30.6	28.5	45.9	66.5	107	95.0	153	152	245	228	367	266	428	428	689
		100	6.90	23.0	37.0	34.5	55.5	80.5	130	115	185	184	296	276	444	322	518	518	834
		75	5.17	27.0	43.5	40.5	65.2	94.5	152	135	217	216	348	324	522	378	609	608	979
		50	3.45	29.0	46.7	43.5	70.0	102	163	145	233	232	374	348	560	406	654	653	1051
		25	1.72	29.0	46.7	43.5	70.0	102	163	145	233	232	374	348	560	406	654	653	1051
250	17.2	150	10.3	25.0	40.3	37.5	60.4	87.5	141	125	201	200	322	300	483	350	564	563	906
		100	6.90	33.0	53.1	49.5	79.7	116	186	165	266	264	425	396	638	462	744	743	1196
		75	5.17	37.0	59.6	55.5	89.4	130	208	185	298	296	477	444	715	518	834	833	1341
		50	3.4	37.0	59.6	55.5	89.4	130	208	185	298	296	477	444	715	518	834	833	1341
		25	1.72	37.0	59.6	55.5	89.4	130	208	185	298	296	477	444	715	518	834	833	1341
300 and 400	20.7 and 27.6	150	10.3	34.0	54.7	51.0	82.1	115	185	170	274	272	438	408	657	476	766	765	1232
		100	6.90	37.0	59.6	55.5	89.4	130	208	185	298	296	477	444	715	518	834	833	1341
		75	5.17	43.0	69.2	64.5	104	151	242	215	346	344	554	516	831	602	969	968	1558
		50	3.45	43.0	69.2	64.5	104	151	242	215	346	344	554	516	831	602	969	968	1558

Type D50A

Table 4. Type D50A Steam Capacity Information (based on 20% droop)

INLET PRESSURE		OUTLET PRESSURE		STEAM (lbs/hr / kg/hr)															
psi	bar	psi	bar	1/4 NPT		3/8 NPT		1/2 NPT		3/4 NPT		1 NPT		1-1/4 NPT		1-1/2 NPT		2 NPT	
25	1.72	15	1.03	25.0	11.3	38.0	17.2	88.0	39.9	126	57.2	202	91.6	302	137	353	160	567	257
		10	0.69	25.0	11.3	38.0	17.2	88.0	39.9	126	57.2	202	91.6	302	137	353	160	567	257
50	3.45	40	2.76	36.0	16.3	55.0	24.9	129	58.5	183	83.0	294	133	440	200	514	233	826	375
		25	1.72	42.0	19.1	63.0	28.6	137	62.1	210	95.3	336	152	504	229	588	267	945	429
		10	0.69	42.0	19.1	63.0	28.6	137	62.1	210	95.3	336	152	504	229	588	267	945	429
75	5.17	65	4.48	39.0	17.7	59.0	26.8	139	63.0	197	89.4	316	143	473	215	553	251	889	403
		50	3.45	53.0	24.0	78.0	35.4	185	83.9	263	119	421	191	631	286	736	334	1184	537
		25	1.72	68.0	30.8	102	46.3	239	108	342	155	546	248	820	372	956	434	1537	697
		10	0.69	69.0	31.3	102	46.3	239	108	342	155	546	248	820	372	956	434	1537	697
100	6.90	90	6.21	49.0	22.2	91.0	41.3	154	69.9	231	105	371	168	560	254	654	297	1050	476
		75	5.17	84.0	38.1	126	57.2	294	133	420	191	672	305	1008	457	1176	533	1890	857
		50	3.45	85.0	38.6	129	58.5	300	136	427	194	683	310	1025	465	1196	542	1922	872
		25	1.72	85.0	38.6	129	58.5	300	136	427	194	683	310	1025	465	1196	542	1922	872
125	8.62	100	6.90	88.0	39.9	133	60.3	266	121	441	200	706	320	1008	457	1165	528	1985	900
		75	5.17	111	50.3	165	74.8	385	175	550	249	881	400	1320	599	1540	699	2477	1124
		50	3.45	115	52.2	172	78.0	400	181	573	260	916	415	1375	624	1603	727	2577	1169
		25	1.72	115	52.2	172	78.0	400	181	573	260	916	415	1375	624	1603	727	2577	1169
150	10.3	140	9.65	63	28.6	95.0	43.1	126	57.2	210	95.3	350	159	525	238	616	279	994	451
		100	6.90	112	50.8	168	76.2	392	178	560	254	896	406	1344	610	1568	711	2520	1143
		75	5.17	116	52.6	174	78.9	405	184	578	262	924	419	1387	629	1618	734	2603	1181
		50	3.45	137	62.1	204	92.5	479	217	683	310	1093	496	1639	743	1912	867	3074	1394
		25	1.72	137	62.1	204	92.5	479	217	683	310	1093	496	1639	743	1912	867	3074	1394
200	13.8	150	10.3	130	59.0	195	88.5	454	206	648	294	1037	470	1555	705	1814	823	2916	1323
		100	6.90	153	69.4	230	104	535	243	763	346	1221	554	1831	831	2136	969	3434	1558
		75	5.17	179	81.2	267	121	626	284	893	405	1429	648	2143	972	2500	1134	4019	1823
		50	3.45	179	81.2	267	121	626	284	893	405	1429	648	2143	972	2500	1134	4019	1823
225	15.5	150	10.3	190	86.2	287	130	671	304	956	434	1532	695	2297	1042	2681	1216	4308	1954
		100	6.90	214	97.1	322	146	750	340	1072	486	1715	778	2572	1167	3002	1362	4823	2188
		75	5.17	230	104	344	156	804	365	1147	520	1835	832	2752	1248	3212	1457	5162	2341
		50	3.4	230	104	344	156	804	365	1147	520	1835	832	2752	1248	3212	1457	5162	2341
250	17.2	100	6.90	196	89	294	133	686	311	980	445	1568	711	2352	1067	2744	1245	4410	2000
		75	5.17	253	115	379	172	888	403	1267	575	2027	919	3039	1378	3546	1608	5699	2585
		50	3.45	253	115	379	172	888	403	1267	575	2027	919	3039	1378	3546	1608	5699	2585

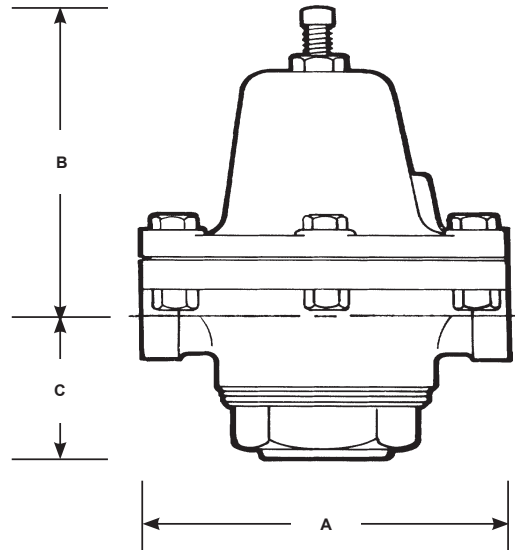


Figure 5. Type D50A Dimension

Table 5. Type D50A Dimension

REGULATOR SIZE, NPT	DIMENSION						SHIPPING WEIGHT	
	A		B		C		Iron	
	In.	mm	In.	mm	In.	mm	Lbs	kg
1/4	3.06	77.7	2.43	61.7	1.87	47.5	2-3/4	1
3/8	3.88	98.6	2.55	64.9	1.74	44.2	5	2
1/2	4.47	114	2.95	75.0	2.08	52.8	7-1/2	3
3/4	5.09	129	2.95	75.0	1.95	49.6	9	4
1	5.86	149	3.35	85.0	2.22	56.4	12	5
1-1/4	6.31	160	4.22	107	2.60	65.9	18	8
1-1/2	6.31	160	4.22	107	2.60	65.9	18	8
2	9.19	233	5.59	142	3.46	87.9	32	15

Ordering Information

When ordering, complete the ordering guide on this page. Refer to the Specifications section. Review the description to the right of each specification and the information in each referenced table or figure. Specify your choice whenever a selection is offered.

Ordering Guide

Application (Select One)

- ☐ Water
- ☐ Air
- ☐ Steam

Body Size (Select One)

- ☐ 1/4 NPT
- ☐ 3/8 NPT
- ☐ 1/2 NPT
- ☐ 3/4 NPT
- ☐ 1 NPT
- ☐ 1-1/4 NPT
- ☐ 1-1/2 NPT
- ☐ 2 NPT

- continued -

Type D50A

Ordering Guide (continued)

Spring Ranges (Select One)

1/4 NPT Body Size

- ☐ 2 to 25 psi / 0.14 to 1.72 bar
- ☐ 20 to 60 psi / 1.38 to 4.14 bar
- ☐ 30 to 100 psi / 2.07 to 6.90 bar
- ☐ 50 to 150 psi / 3.45 to 10.3 bar (Air and Water service only)
- ☐ 50 to 125 psi / 3.45 to 8.62 bar (Steam service only)

3/8 NPT Body Size

- ☐ 2 to 30 psi / 0.14 to 2.07 bar
- ☐ 20 to 70 psi / 1.38 to 4.83 bar
- ☐ 40 to 110 psi / 2.76 to 7.58 bar
- ☐ 90 to 150 psi / 6.21 to 10.3 bar (Air and Water service only)
- ☐ 90 to 125 psi / 6.21 to 8.62 bar (Steam service only)

1/2 NPT Body Size

- ☐ 2 to 30 psi / 0.14 to 2.07 bar
- ☐ 10 to 50 psi / 0.69 to 3.45 bar
- ☐ 30 to 125 psi / 2.07 to 8.62 bar
- ☐ 50 to 150 psi / 3.45 to 10.3 bar (Air and Water service only)
- ☐ 50 to 125 psi / 3.45 to 8.62 bar (Steam service only)

3/4 NPT Body Size

- ☐ 2 to 20 psi / 0.14 to 1.38 bar
- ☐ 10 to 35 psi / 0.69 to 2.41 bar
- ☐ 30 to 75 psi / 2.07 to 5.17 bar
- ☐ 50 to 110 psi / 3.45 to 7.58 bar
- ☐ 105 to 150 psi / 7.24 to 10.3 bar (Air and Water service only)
- ☐ 105 to 125 psi / 7.24 to 8.62 bar (Steam service only)

1 NPT Body Size

- ☐ 2 to 20 psi / 0.14 to 1.38 bar
- ☐ 10 to 45 psi / 0.69 to 3.10 bar
- ☐ 20 to 60 psi / 1.38 to 4.14 bar
- ☐ 55 to 100 psi / 3.79 to 6.90 bar
- ☐ 90 to 150 psi / 6.21 to 10.3 bar (Air and Water service only)
- ☐ 90 to 125 psi / 6.21 to 8.62 bar (Steam service only)

1-1/4 and 1-1/2 NPT Body Sizes

- ☐ 2 to 15 psi / 0.14 to 1.03 bar
- ☐ 10 to 30 psi / 0.69 to 2.07 bar
- ☐ 20 to 50 psi / 1.38 to 3.45 bar
- ☐ 45 to 100 psi / 3.10 to 6.90 bar
- ☐ 90 to 150 psi / 6.21 to 10.3 bar (Air and Water service only)
- ☐ 90 to 125 psi / 6.21 to 8.62 bar (Steam service only)

2 NPT Body Size

- ☐ 2 to 20 psi / 0.14 to 1.38 bar
- ☐ 10 to 60 psi / 0.69 to 4.14 bar
- ☐ 20 to 100 psi / 1.38 to 6.90 bar
- ☐ 90 to 150 psi / 6.21 to 10.3 bar (Air and Water service only)
- ☐ 90 to 125 psi / 6.21 to 8.62 bar (Steam service only)

Pressure Screw (Select One)

- ☐ Standard
- ☐ T-Handle



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