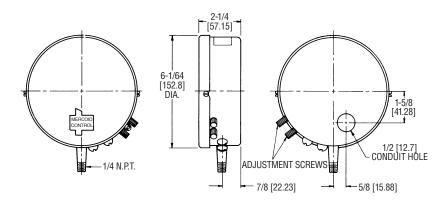


# Series DA/DS-7000 Bourdon Tube Pressure Switches

# Specifications - Installation and Operating Instructions





Series DA/DS-7000 Bourdon Tube Pressure Switches are SPDT snap-action switches that combine extremely high sensitivity and repeatability with easily adjustable set and reset points through non-interactive external adjustments. These switches have visible calibrated dials for set points and on-off indicators to indicate switch actuation. DA models are equipped with two external adjustments. One sets the high pressure operating point; the other sets the reset point. Deadband or the difference between set and reset points is adjustable over the full scale. DS models have a fixed deadband.

Note: The DS7300 has no status indicator.

## INSTALLATION

The switch may be mounted in any position. Select a location recommended by equipment manufacturer. Where excessive vibration occurs, mount the switch remotely, using an appropriate remote connection and mounting bracket. See accessories, below.

# **ACCESSORIES**



Mounting Bracket 33-25



Remote Connection 49-62: 6 ft copper - 300 psig max 49-62HP: 6 ft copper - 2500 psig max 49-210: 12 ft 316 SS - 3000 psig



Pigtail Siphon 42-52: 250 psig max 42-58: 2000 psig max

## **SPECIFICATIONS**

Wetted Materials: Brass, 403 SS, or 316 SS.

Temperature Limit: 180°F (82°C).

Pressure Limit: Maximum pressure of the operating range.

Enclosure Rating: General purpose, weatherproof or explosion-proof.

Repeatability: ±1% of full operating range.

Switch Type: See circuit chart.

**Electrical Rating:** See electrical ratings chart. **Electrical Connections:** Screw terminal.

**Conduit Connection:** 

General purpose: 1/2" hole for conduit hub;

Weatherproof: 1/2" conduit hub; Explosion-proof: 3/4" female NPT.

## **Process Connection:**

General purpose and weatherproof: 1/4" male NPT, 1/2" male NPT on ranges

15S and 16S;

Explosion-proof: 1/2" male NPT and 1/4" female NPT.

Mounting Orientation: Vertical.

Set Point Adjustment: Thumbscrew.

Weight:

General purpose: 4 lb (1.8 kg); Weatherproof: 6 lb (2.7kg); Explosion-proof: 8 lb (3.5 kg).

Deadband: See Ranges and Differentials Chart.

# **CAUTIONS:**

Fax: 219/872-9057

Control movement must not be oiled. Do not overload. Note electrical rating on name plate and be sure that total current passing through the switch is within specified rating.

When testing a boiler or system, never exceed maximum pressure rating on control or it may be seriously damaged. Remove control if higher pressures are required.

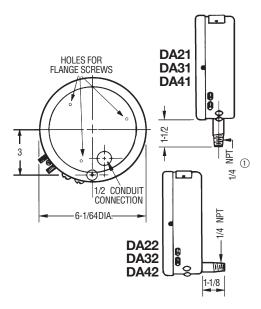
Do not fail to use a siphon on steam where range is 35 lbs (2413 mbar) or more.

Phone: 219/879-8000 www.dwyer-inst.com

e-mail: info@dwyer-inst.com

#### GENERAL PURPOSE CONTROLS, TYPES DA, DL, DR, DS

Mount control in any position. Do not twist the case when installing. Use a wrench on the square part of the control connection. On controls with operating Range No. 15S (500 to 5000 psi (34.47 to 344.75 bar)) or Range No. 16S (800 to 8000 psi (55.16 to 551.6 bar)), be sure the special sealing nut (with PTFE insert) is turned to the uppermost threaded section of the 1/2" pressure connection. Apply a flat open-end wrench to the flat side of the bottom pressure connection when piping the control. After properly connecting the control, tighten the sealing nut to assure a leak-proof connection.

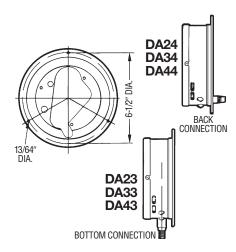


General Purpose Types DA, DS, DR, DL

#### FLANGED CASE CONTROLS

Mount by means of the three holes in the flange. Note: Series D7030 when used for steam with operating ranges of 35 psi (2.413 bar) or higher, must be siphoned to prevent live steam entering the Bourdon tube. With high-pressure steam exceeding 100 psi (6.895 bar), use a remote connection. (Note accessories on Page 1.)

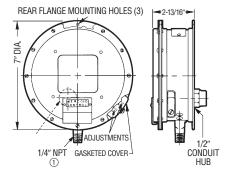
Series D-7020 incorporate an orifice as standard in the pressure connection to dampen surges or pulsations.



Flange for Surface Mounting

## WATERTIGHT AND WEATHERPROOF NEMA 2, 3, 4, 5, TYPES DAW, DRW, DSW

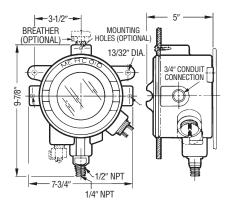
These switches are supplied with flanged case, bottom connection, for surface mounting only.



Weather-Proof Types DAW, DSW, DRW

## **EXPLOSION-PROOF TYPES DAH, DRH, DSH**

Mount with mounting lugs attached to control housing.



Explosion-Proof Types DAH, DRH, DSH

## WIRING

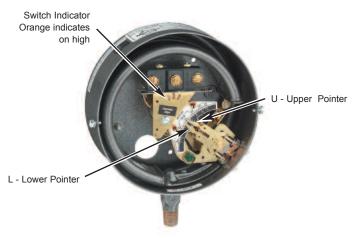
Wire in accordance with the National Electrical Code and local regulations. For general purpose controls, use a short piece of BX between the rigid conduit and the control so the control will not be subjected to conduit expansion and contraction. Where the control is directly connected into the load circuit, it should be connected into the hot side of the line. Do not exceed electrical rating as stamped on the control nameplate. DS-7300 controls are equipped with a terminal block. Field connection should be made to terminal block pole in common with required pole of the control's switch. The color code is:

Black - Common Blue - ON Hi Red - ON Lo

#### ADJUSTMENTS: HOW TO SET OPERATING POINT

## **Double Adjustment Types - Fully Automatic:**

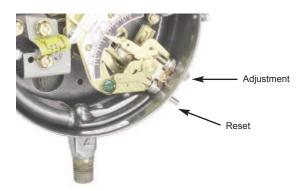
With double-adjustment switches (prefixed DA, DAH or DAW), adjust the upper pointer "U" to set HIGH PRESSURE POINT for switch operation and adjust the lower pointer "L" to set LOW PRESSURE OPERATING POINT. The difference between the "U" and "L" pointers is the operating differential between "on-off" switch operation.



**Double-Adjustment Types Fully Automatic** 

#### Semi-Automatic Control with Manual Reset:

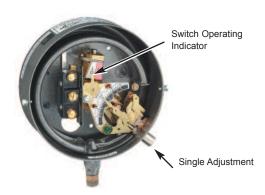
Models prefixed DR, DRH, DRW and with suffix L or U (example: DR-7021-153U) have a single adjustment that sets the operating point for automatic operation. A push-button reset must be operated manually to restore the circuit to the original position after automatic operation. Example: Type DR-7021-153L has a circuit that opens automatically on a pressure rise to the pressure indicated by the pointer on the scale; no matter how much the pressure drops, the circuit will not re-close until the reset button is operated. Suffix L denotes control will operate automatically on an increase. Suffix U denotes control will operate automatically on an decrease.



Semi-Automatic Types with Manual Reset

#### SINGLE ADJUSTMENT TYPES—FULLY AUTOMATIC:

Models prefixed DS, DSH, DSW, N3DSW are equipped with a single adjustment. Differential is fixed (not adjustable). The single pointer on the scale sets the pressure at which switch operation occurs. Differential is listed in chart indicates approximate fixed differential.



Single Adjustment Types Fully Automatic

## LOCKING DEVICE

When the control has been adjusted to desired range, the locking bar may be inserted between the adjustment screws with the slot passing over the projecting lugs. By placing a sealing wire between the locking bar and the hole in the lug protruding from the adjustment assembly, adjustments cannot be tampered with.

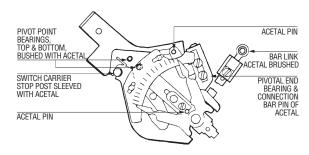
For DRF, DAW, DRW, adjusting knob cover may be sealed in place with sealing wire through cover bolt hole. For DAH, sealing wire may pass through locking bar and hole in hub above adjusting knobs.

#### ACETAL BUSHED MOVEMENT "B"

Acetal bushed movements prolong control life by alleviating wear of metal surfaces due to excessive vibration and/or pulsation. They also prolong switch life in environments where corrosion may be a factor. Models with Acetal movements are identified by the letter "B after the suffix number. Examples: -153B, -153UB, etc.

#### **CONTROL NUMBER**

Part of the control number (the fourth number in the sequence) identifies the type of control case. Digit 1 of 7021, 7031, 7041, denotes a plain case with bottom connection. Digit 2 of 7022, 7032, etc., denotes a plain case with back connection. Digit 3 of 7023, 7033, 7043, etc., denotes a flanged case with bottom connection. Digit 4 of 7024, 7034, etc., denotes a flanged case with back connection. (Digit 3 of 7321, 7331, 7341, etc., denotes hermetically sealed snap switch.)



Acetal Bushed Movement "B"

# **CIRCUITS (SWITCH OPERATION)**

Suffix number after control number denotes switch action:

Suffix -153 designates SPDT; one circuit closes as other circuit opens.

Suffix - 804 designates two SPDT switches; two close, two open.

				TYPE DA Double Adjustment Minimum			TYPE DS Single Adjustment			
RANGES:				Differential (psig)		Fixed Differential (psig)				
					SPDT		SPDT		(2) SPDT	SPDT
Bourdon Tube		Range		ustable erating Range	DA-7031 DAW-703			231-153 -7233-153	DS-7231-804 DSW-7233-804	DS-7331-153 DSW-7333-153
Material		Number			DAH-703			7231-153	DSH-7231-804	DSH-7331-153
		2		" Hg Vac	13.5" Hg		3" Hg		2.5" Hg	5" Hg
		3		Hg Vac-12	6		1.5		1.25″	3″
		1	1/8-		6		1.5		1.25	3
		3A			6		1.5		1.25	3
Brass		4 27	1-35		7 12		1.5 2.5		1.5	3 3.75
Bourdon 1	Гubе	5	2-60	Hg Vac-50	9		2.5		1.5	3.75
		6	5-10		13.5		2.5		2	3.75
		7	5-15		24		3.5		3.5	5.25
		8	10-2		24		4.75		4	6.75
		9	10-3	300	37.5		6		6	9
			Adjustable_		SPDT		SPD1		(2) SPDT	SPDT
		_			DA-7021-153				DS-7221-804	DS-7321-153
		Range	Operating Range		DAW-7023-153		DSW-7223-153		DSW-7223-804	DSW-7323-153
		Number 25S	11		<b>DAH-702</b> 18	21-153	_	7221-153	<b>DSH-7221-804</b>	DSH-7321-153 5.25
		26S		Hg Vac-60	22.5		3.5 3.5		3	5.25
		5S			13.5		3		2.5	4.5
403SS		6S	5-100		19.5		3.5		3	5.25
Bourdon 1	Tubo	8S	10-200		22.5		4.75		4	7.125
Bourdon	ube	9S	10-300		28.5		7		6	10.5
		9AS	40-350		30		7		6	10.5
		10S	25-600		67.5		12		10	18
		11S	50-1000		142.5		22		20	33
		12S	100-1500		195		1		30 50	52.5 90
		13S 15S	300-2500 500-5000		390 1350				110	300
		16S		-8000 -8000	2250		500		180	750
			000 0000		SPDT				(2) SPDT	SPDT
			Adj	ustable	DA-7041-153		DS-7241-153		DS-7241-804	DS-7341-153
			Operating Range		DAW-7043-153		DSW-7243-153		DSW-7243-804	DSW-7343-153
		Range					_			
		Number	(psi	g)	DAH-704		DSH-	7241-153	DSH-7241-804	DSH-7341-153
		Number 26E	(psi	<b>g)</b> Hg Vac- 75	<b>DAH-70</b> 4		<b>DSH</b> -		DSH-7241-804 4	<b>DSH-7341-153</b> 5.25
21699		Number 26E 23E	(psi 30" 5-75	<b>g)</b> Hg Vac- 75	<b>DAH-70</b> 4 15 12		3.5 4		<b>DSH-7241-804</b> 4 2.5	<b>DSH-7341-153</b> 5.25 6
316SS Bourdon 1	Tube	Number 26E 23E 6E	( <b>psi</b> 30″ 5-75 10-	g) Hg Vac- 75 5	DAH-704 15 12 15		3.5 4 3.5		<b>DSH-7241-804</b> 4 2.5 4	DSH-7341-153 5.25 6 5.25
316SS Bourdon T	Гube	Number 26E 23E	(psi 30" 5-75 10-1	g) Hg Vac- 75 5 100 150	DAH-704 15 12 15 15 16.5		3.5 4 3.5 4.5		<b>DSH-7241-804</b> 4 2.5 4 3	DSH-7341-153 5.25 6 5.25 6.75
	Гube	Number 26E 23E 6E 24E	( <b>psi</b> 30″ 5-75 10-	g) Hg Vac- 75 5 100 150 300	DAH-704 15 12 15		3.5 4 3.5		<b>DSH-7241-804</b> 4 2.5 4	DSH-7341-153 5.25 6 5.25
	Гube	26E 23E 6E 24E 9E	(psi 30" 5-75 10-1 10-2	g) Hg Vac- 75 5 100 150 800	15 12 15 15 16.5 42		3.5 4 3.5 4.5 8		DSH-7241-804 4 2.5 4 3 6 10 17	DSH-7341-153 5.25 6 5.25 6.75 12
	ſube	26E 23E 6E 24E 9E 21E 22E 11E	(psi 30" 5-75 10-1 10-3 30-4 75-6 100	g) Hg Vac- 75 5 100 150 300 400 500 -100	DAH-704 15 12 15 16.5 42 78 180 285		3.5 4 3.5 4.5 8 12 25 35		DSH-7241-804 4 2.5 4 3 6 10 17 30	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5
	Гube	Number 26E 23E 6E 24E 9E 21E 22E	(psi 30" 5-75 10-1 10-3 30-4 75-6 100	g) Hg Vac- 75 5 100 150 300 400 800	DAH-704 15 12 15 16.5 42 78 180 285 600		3.5 4 3.5 4.5 8 12 25 35 75	7241-153	DSH-7241-804 4 2.5 4 3 6 10 17 30 95	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5
Bourdon 1	<b>Fube</b>	26E 23E 6E 24E 9E 21E 22E 11E	(psi 30" 5-75 10-1 10-2 30-2 75-8 100 200	g) Hg Vac- 75 5 5 6 6 6 7 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8	DAH-704 15 12 15 16.5 42 78 180 285 600 SPDT	11-153	3.5 4 3.5 4.5 8 12 25 35 75 SPD1	7241-153	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT
Bourdon 1		Number 26E 23E 6E 24E 9E 21E 22E 11E 13E	(psi 30" 5-75 10-3 10-3 30-4 75-8 100 200	g) Hg Vac- 75 5 6 6 7 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8	DAH-704  15  12  15  16.5  42  78  180  285  600  SPDT  DA-7041	-153	3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7;	7241-153 F 241-153	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153
Bourdon 1	Гube	26E 23E 6E 24E 9E 21E 22E 11E	(psi 30" 5-75 10-1 10-3 30-4 75-8 100 200 Adj	g) Hg Vac- 75 5 100 150 300 400 300 -100 -2500  ustable erating Range	DAH-704 15 12 15 16.5 42 78 180 285 600 SPDT	-153 43-153	3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7; DSW	7241-153	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT
Bourdon 1 316SS Bourdon 1	Гube	Number 26E 23E 6E 24E 9E 21E 22E 11E 13E	(psi 30" 5-75 10-3 10-3 30-4 75-8 100 200	g) Hg Vac- 75 100 150 300 400 300 -100 -2500  ustable erating Range g)	DAH-704 15 12 15 16.5 42 78 180 285 600 SPDT DA-7041 DAW-7041	-153 43-153	3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7; DSW	7241-153 [241-153 -7243-153	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSW-7243-804	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153
Bourdon 1 316SS Bourdon 1 Carbon St	Tube eel	Number 26E 23E 6E 24E 9E 21E 22E 11E 13E Range Number 23K 24K	(psi 30" 5-75 10-1 10-3 30-2 75-8 100 200 Adj Ope (psi 5-75 10-1	g) Hg Vac- 75 100 150 800 400 800 -2500  ustable prating Range g)	DAH-704  15  12  15  16.5  42  78  180  285  600  SPDT  DA-7041  DAW-704  12  16.5	-153 43-153	3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7 DSW DSH- 4	7241-153 [241-153 -7243-153	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSW-7243-804 DSH-7241-804 2.5 3	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7341-153 DSH-7341-153 6 6
316SS Bourdon T Carbon St Bottom	Tube eel	Number 26E 23E 6E 24E 9E 21E 21E 11E 13E  Range Number 23K	(psi 30" 5-75 10-1 10-3 30-2 75-8 100 200 Adj Ope (psi	g) Hg Vac- 75 100 150 800 400 800 -2500  ustable prating Range g)	DAH-704  15  12  15  16.5  42  78  180  285  600  SPDT  DA-7041  DAW-704  12	-153 43-153	3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7: DSW DSH-4	7241-153 [241-153 -7243-153	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSW-7243-804 2.5	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153
316SS Bourdon T Carbon St Bottom	Tube eel	Number 26E 23E 6E 24E 9E 21E 21E 13E  Range Number 23K 24K 9K	(psi) 30" 5-75 10-10-3 30-4 75-8 100 200 Adj Ope (psi) 10-2 10-2 10-2 10-2 10-2 10-2 10-2 10-2	g) Hg Vac- 75 100 150 300 400 300 -2500  ustable erating Range g) 150 300	DAH-704 15 12 15 16.5 42 78 180 285 600 SPDT DA-7041 DAW-704 12 16.5 42 See Cod	-153 43-153 11-153 e F*	3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7 DSW DSH- 4 4 8	7241-153 F 241-153 -7243-153 7241-153	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSH-7241-804 2.5 3 6	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12
316SS Bourdon T Carbon St Bottom	Tube eel	Number 26E 23E 6E 24E 9E 21E 21E 13E  Range Number 23K 24K 9K	(psi) 30" 5-75 10-10-3 30-4 75-8 100 200 Adj Ope (psi) 10-2 10-2 10-2 10-2 10-2 10-2 10-2 10-2	g) Hg Vac- 75 100 150 800 400 800 -2500  ustable prating Range g)	DAH-704  15 12 15 16.5 42 78 180 285 600 SPDT DA-7041 DAW-704 DAW-704 12 16.5 42 See Cod See Cod	-153 43-153 81-153 e F* e D	3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7: DSW- 4 4 8	7241-153 F 241-153 -7243-153 7241-153	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSW-7243-804 DSH-7241-804 2.5 3	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7341-153 DSH-7341-153 6 6
316SS Bourdon T Carbon St Bottom	Tube eel	Number 26E 23E 6E 24E 9E 21E 21E 13E  Range Number 23K 24K 9K	(psi) 30" 5-75 10-10-3 30-4 75-8 100 200 Adj Ope (psi) 10-2 10-2 10-2 10-2 10-2 10-2 10-2 10-2	g) Hg Vac- 75 100 150 300 400 -2500  ustable erating Range g) 5 150 300 al Ratings	DAH-704  15 12 15 16.5 42 78 180 285 600 SPDT DA-7041 DAW-704 DAW-704 12 16.5 42 See Cod See Cod	-153 43-153 41-153 e F* e D	3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7: DSW-4 4 4 8	7241-153 241-153 -7243-153 7241-153 Code E	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSW-7243-804 DSH-7241-804 2.5 3 6 See Code D	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K
316SS Bourdon T Carbon St Bottom	Tube eel	Number 26E 23E 6E 24E 9E 21E 21E 13E  Range Number 23K 24K 9K	(psi) 30" 5-75 10-7 10-7 10-7 10-7 10-9 100 200  Adj Ope (psi) 5-75 10-7 10-7 10-7 10-7 10-7	g) Hg Vac- 75 100 150 800 400 900 -2500  ustable erating Range g) 150 800 al Ratings  AC Capacity	DAH-704  15  12  15  16.5  42  78  180  285  600  SPDT  DA-7041  DAW-704  12  16.5  42  See Cod  E	-153 43-153 41-153 e F* e D	DSH- 3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7: DSW- DSH- 4 4 8	7241-153 7241-153 -7243-153 7241-153 Code E s	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSW-7243-804 DSH-7241-804 2.5 3 6 See Code D	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K rsepower
316SS Bourdon T Carbon St Bottom Connectio	Tube eel	Number   26E   23E   6E   24E   9E   21E   22E   11E   13E     Range   Number   23K   24K   9K   Ele   Ele	(psi) 30" 5-75 10-7 10-7 10-7 10-7 10-0 200  Adj Ope (psi) 5-75 10-7 10-3  ctrica	g) Hg Vac- 75 100 150 300 400 -2500  ustable erating Range g) 5 150 300 al Ratings	DAH-704  15 12 15 16.5 42 78 180 285 600 SPDT DA-7041 DAW-704 DAW-704 12 16.5 42 See Cod See Cod	-153 43-153 11-153 e F* e D lectrical F	DSH- 3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7: DSW- DSH- 4 4 8	7241-153 241-153 -7243-153 7241-153 Code E	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSH-7241-804 2.5 3 6 See Code D  AC Ho	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K
316SS Bourdon T Carbon St Bottom Connectio	Tube eel	Number   26E   23E   6E   24E   9E   21E   11E   13E     Range   Number   23K   24K   9K   Ele     120\	(psi 30" 5-7! 10 10 10 75-8 200 Adj Ope (psi 10 10 10 10 10 10 10 10-	g) Hg Vac- 75 100 150 150 160 150 160 160 160 170 170 170 170 181 181 181 181 181 181 181 181 181 18	DAH-704 15 12 15 16.5 42 78 180 285 600 SPDT DA-7041 DAW-704 12 16.5 42 See Cod See Cod	-153 43-153 43-153 e F* e D Electrical F DO 120V .5A NA	DSH- 3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7: DSW- DSH- 4 4 8	7241-153  7241-153  7241-153  7241-153  Code E s acity 240V .25A NA	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSH-7243-804 DSH-7243-804 2.5 3 6 See Code D  AC Ho 120V 1/8 1/8	DSH-7341-153  5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K  rsepower  240V  1/4 1/2
316SS Bourdon T Carbon St Bottom Connectio	Tube eel	Number   26E   23E   6E   24E   9E   21E   13E     13E	(psi 30" 5-7! 10 10 10 75-8 200 Adj Ope (psi 10 10 10 10 10 10 10 10-	g) Hg Vac- 75 100 150 800 400 800 -100 -2500  ustable erating Range g) 5 150 800 al Ratings  AC Capacity 240V 10A 15A 10A	DAH-704  15  12  15  16.5  42  78  180  285  600  SPDT  DA-7041  DAW-704  12  16.5  42  See Cod  See Cod  480V  NA  15A  5A	-153 -153 43-153 41-153 e F* e D Electrical F DO 120V .5A NA .5A	DSH- 3.5 4 3.5 4.5 8 12 25 35 75 SPD1 DS-7 DSH- 4 4 8 See C	7241-153 7241-153 -7243-153 7241-153 Code E s acity 240V .25A .25A	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSW-7243-804 DSH-7241-804 2.5 3 6 See Code D  AC Ho 120V 1/8 1/4 1/4	DSH-7341-153 5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K  rsepower 240V 1/4
316SS Bourdon 1 Carbon St Bottom Connectio	Tube eel	Number   26E   23E   6E   24E   9E   21E   11E   13E     Range   Number   23K   24K   9K   Ele     120\	(psi 30" 5-7! 10 10 10 75-8 200 Adj Ope (psi 10 10 10 10 10 10 10 10-	g) Hg Vac- 75 100 150 300 400 300 -2500  ustable erating Range g) 5 150 300 al Ratings  AC Capacity 240V 10A 15A 10A 5A @	DAH-704 15 12 15 16.5 42 78 180 285 600 SPDT DA-7041 DAW-704 DAH-704 12 16.5 42 See Cod See Cod E 480V NA 15A 250 AC. Resi	-153 43-153 43-153 11-153 e F* e D Electrical F DO 120V .5A NA .5A istive & Inc	DSH- 3.5 4 3.5 4.5 8 12 25 35 75 SPDT DS-7- DSW DSH- 4 4 8 See C Capi	7241-153 7241-153 7243-153 7241-153 Code E s acity 240V .25A NA .25A .30V DC F	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSH-7241-804 2.5 3 6 See Code D  AC Ho 120V 1/8 1/4 Resistive	DSH-7341-153  5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K  rsepower  240V  1/4 1/2
316SS Bourdon T Carbon St Bottom Connectio	Tube eel	Number   26E   23E   6E   24E   9E   21E   11E   13E     Range   Number   23K   24K   9K   Ele     120\	(psi 30" 5-7! 10 10 10 75-8 200 Adj Ope (psi 10 10 10 10 10 10 10 10-	g) Hg Vac- 75 100 150 300 400 300 -2500  ustable erating Range g) 5 150 300 al Ratings  AC Capacity 240V 10A 15A 10A 5A @	DAH-704  15  12  15  16.5  42  78  180  285  600  SPDT  DA-7041  DAW-704  12  16.5  42  See Cod  See Cod  480V  NA  15A  5A	-153 43-153 43-153 11-153 e F* e D Electrical F DO 120V .5A NA .5A istive & Inc	DSH- 3.5 4 3.5 4.5 8 12 25 35 75 SPDT DS-7- DSW DSH- 4 4 8 See C Capi	7241-153 7241-153 7243-153 7241-153 Code E s acity 240V .25A NA .25A .30V DC F	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSH-7241-804 2.5 3 6 See Code D  AC Ho 120V 1/8 1/4 Resistive	DSH-7341-153  5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K  rsepower  240V  1/4 1/2
316SS Bourdon T Carbon St Bottom Connectio	Tube eel	Number   26E   23E   6E   24E   9E   21E   11E   13E     Range   Number   23K   24K   9K   Ele     120\	(psi 30" 5-7! 10 10 10 75-8 200 Adj Ope (psi 10 10 10 10 10 10 10 10-	g) Hg Vac- 75 100 150 300 400 300 -2500  ustable erating Range g) 5 150 300 al Ratings  AC Capacity 240V 10A 15A 10A 5A @	DAH-704 15 12 15 16.5 42 78 180 285 600 SPDT DA-7041 DAW-70- DAH-704 12 16.5 42 See Cod See Cod E 480V NA 15A 5A 250 AC. Resi	-153 43-153 43-153 41-153 e F* e D lectrical F D0 120V .5A NA .5A istive & Ind	DSH- 3.5 4 3.5 4.5 8 12 25 35 75 SPDI DS-7: DSW DSH- 4 4 8 See C Rating C Cap.	7241-153 7241-153 7243-153 7241-153 Code E s acity 240V .25A NA .25A .30V DC F	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSH-7241-804 2.5 3 6 See Code D  AC Ho 120V 1/8 1/4 Resistive	DSH-7341-153  5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K  rsepower  240V  1/4 1/2
316SS Bourdon T Carbon St Bottom Connectio	Γube eel nn	Number   26E   23E   6E   24E   9E   21E   11E   13E     Range   Number   23K   24K   9K   Ele     120\	(psi 30" 5-75: 10-1 10-2 200 Adj 10-2 10-2 10-2 10-2 10-2 10-2 10-2 10-2	g) Hg Vac- 75 100 150 300 400 300 -2500  ustable erating Range g) 5 150 300 al Ratings  AC Capacity 240V 10A 15A 10A 5A @	DAH-704  15  12  15  16.5  42  78  180  285  600  SPDT  DA-7041  DAW-704  12  16.5  42  See Cod See Cod See Cod  480V  NA  15A  250 AC. Res  A @ 125/250 A	-153 43-153 e F* e D electrical F D 120V .5A NA .5A stive & Inc AC, Resist	DSH- 3.5 4 3.5 4.5 8 12 25 35 75 SPDI DS-7: DSH- 4 4 8 See C Cap	7241-153 7241-153 7243-153 7241-153 Code E s acity 240V .25A NA .25A .30V DC F	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSH-7241-804 2.5 3 6 See Code D  AC Ho 120V 1/8 1/4 Resistive	DSH-7341-153  5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K  rsepower  240V  1/4 1/2
316SS Bourdon T Carbon St Bottom Connectio	Fube eel nn	Number   26E   23E   6E   24E   9E   21E   21E   11E   13E     23K   24K   9K   Ele     10A   15A   12A     12A	(psi 30" 5-75 10-10-10-10-10-10-10-10-10-10-10-10-10-1	g) Hg Vac- 75 100 150 150 160 150 160 160 160 160 160 160 160 160 160 16	DAH-704  15  12  15  16.5  42  78  180  285  600  SPDT  DA-7041  DAW-704  12  16.5  42  See Cod  See Cod  See Cod  See Cod  E  480V  NA  15A  5A  250 AC. Resi  A @ 125/250 /	-153 43-153 43-153 41-153 e F* e D lectrical F D0 120V .5A NA .5A istive & Ind	DSH- 3.5 4 4.5 8 12 25 35 75 SPDI DS-7: DSW- 4 4 8 See C Rating C Cap.	7241-153 7241-153 7243-153 7241-153 Code E s acity 240V .25A NA .25A .30V DC F	DSH-7241-804 4 2.5 4 3 6 10 17 30 95 (2) SPDT DS-7241-804 DSH-7241-804 2.5 3 6 See Code D  AC Ho 120V 1/8 1/4 Resistive	DSH-7341-153  5.25 6 5.25 6.75 12 18 37.5 52.5 112.5 SPDT DS-7341-153 DSW-7343-153 DSH-7341-153 6 6 12 See Code K  rsepower  240V  1/4 1/2

Circuit Suffix No.	Switch Action on Pressure Increase	Electrica D-7000	I Rating D-7200	
	SPDT: one OPENS as one CLOSES (2) SPDT: two OPEN as two CLOSE	D F*	E G	K

\*Note: Minimum differentials increase when using multiple circuits. Controls using #804 circuits in ranges over 35 psig have 30% higher minimum differentials; ranges under 35 psig are not available in Code F.

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