



Bourdon Tube Pressure Switches
Pressure Ranges to 8000 psi (551.6 bar)

Models Select Chart

EXAMPLE	DA	31	153	4	Standard DA Bourdon Tube Control, dual setpoint, automatic reset, SPDT mercury switch, 1-35 psig	
RESET OPTIONS	R			U	Manual reset, single adjustment, operates on decrease automatically	GENERAL
	R			L	Manual reset, single adjustment, operates on increase automatically	
	S ⁽³⁾				Automatic reset, single adjustment, DS only	
	L ⁽¹⁾⁽³⁾				Manual lock reset, single adjustment, available as special order only	
HOUSING & APPROVAL OPTIONS	W				Weatherproof enclosure, NEMA 3S, 4 and 4X, flanged back standard	
	N3 W				Weather resistance, includes drain, flanged back standard, available as special order only	
	H				Explosion-proof enclosure, control integral, available only on DA, DR, DS	
	E				Explosion-proof enclosure, control removable, available on DA, DR, DS	
	F				Factory Mutual approval, DAW is FM approved as standard	
CIRCUIT SWITCHING OPTIONS				2	SPST opens on pressure increase, elect. code A, mercury switch	
				3	SPST closes on pressure increase, elect. code A, mercury switch	
				153	SPDT, elect. code B, mercury switch	
				156	2 each SPST, one opens as the other one closes, elect. code A, mercury	

			switch
		_804	2 each SPDT, elect. code B, mercury switch, 18" leads, elect. code G, snap switch, screw terminals
		-()	Other circuits available, consult factory
	_2	_2	SPST opens on increase, elect. code I, DS only, mercury switch
	_2	_3	SPST closes on increase, elect. code I, DS only, mercury switch
	4 ⁽²⁾⁽⁸⁾	4122	Two stage, includes 2 each SPST, mercury switch
	4 ⁽²⁾⁽⁸⁾	4129	Two stage, includes 2 each SPST, mercury switch
	4 ⁽²⁾⁽⁸⁾	4132	Two stage, includes 2 each SPST, mercury switch
	4 ⁽²⁾⁽⁸⁾	4123	Two stage, includes 2 each SPST, mercury switch
	_5	_2	SPST mercury switch, elect. code H, opens on increase
	_5	_3	SPST mercury switch, elect. code H, closes on increase
	70	153	Snap switch, SPDT, elect. code D, 15A @ 120 VAC
	70 ⁽¹²⁾	804	2 each SPDT, elect. code F, for ranges above 35 psi only, add 30% to minimum deadbands, 702, 703, 704 only
	72	153_	DS only, snap switch, SPDT, elect. code E
	72	804_	2 each SPDT, snap switches, elect. code G, DS only
	74	_____	Two stage, includes 2 each, SPDT snap switches, elect. code G
		B	Delrin Bushed Movement, for all controls

**RANGES &
BOURDON
TUBE
MATERIALS**

	2		25S	range 30" Hg vac - 60 psig, type 403SS Bourdon tube
	2		26S	range 30" Hg vac - 75 psig, type 403SS Bourdon tube
	2		5S	range 2-60 psig, type 403SS Bourdon tube
	2		6S	range 5-100 psig, type 403SS Bourdon tube
	2		8S	range 10-200 psig, type 403SS Bourdon tube
	2		9S	range 10-300 psig, type 403SS Bourdon tube
	2		9AS	range 40-350 psig, type 403SS Bourdon tube
	2		10S	range 25-600 psig, type 403SS Bourdon tube
	2		11S	range 50-1000 psig, type 403SS Bourdon tube
	2		12S	range 100-1500 psig, type 403SS Bourdon tube
	2		13S	range 300-2500 psig, type 403SS Bourdon tube
	2		15S	range 500-5000 psig, type 403SS Bourdon tube, not avail. with housing E or back conn.
	2		16S	range 800-8000 psig, type 403SS Bourdon tube, not avail. with housing E or back conn.
	3		2	range 0-30" Hg vac, brass Bourdon tube
	3		3	range 10" Hg vac - 12 psig, brass Bourdon tube
	3		1	range 1/8-15 psig, brass Bourdon tube
	3		3A	range 1/8-20 psig, brass Bourdon tube
	3		4	range 1-35 psig, brass Bourdon tube
	3		27	range 25" Hg vac - 50 psig, brass Bourdon tube
	3		5	range 2-60 psig, brass

				Bourdon tube	
	3		6	range 5-100 psig, brass Bourdon tube	
	3		7	range 5-150 psig, brass Bourdon tube	
	3		8	range 10-200 psig, brass Bourdon tube	
	3		9	range 10-300 psig, brass Bourdon tube	
	4		26E	range 30" Hg vac - 75 psig, 316SS Bourdon tube	
	4		23E	range 5-75 psig, 316SS Bourdon tube	
	4		6E	range 10-100 psig, 316SS Bourdon tube	
	4		24E	range 10-150 psig, 316SS Bourdon tube	
	4		9E	range 10-300 psig, 316SS Bourdon tube	
	4		21E	range 30-400 psig, 316SS Bourdon tube	
	4		22E	range 75-800 psig, 316SS Bourdon tube	
	4		11E	range 100-1000 psig, 316SS Bourdon tube	
	4		13E	range 200-2500 psig, 316SS Bourdon tube	
	8 ⁽⁶⁾		23K	range 5-75 psig, 316SS Bourdon tube, carbon steel bottom, F housing standard	
	8 ⁽⁶⁾		24K	range 10-150 psig, 316SS Bourdon tube, carbon steel bottom, F housing standard	
	8 ⁽⁶⁾		9K	range 10-300 psig, 316SS Bourdon tube, carbon steel bottom, F housing standard	
CONNECTION & MOUNTING OPTIONS	1			Standard housing	
	2			Back connection, not available on D-900 series, not available on ranges 15S, 16S	
	3			Flanged back - standard on "W" models	

		4			Back connection and flanged back, not available for ranges 15S, 16S, or on D-900, 9200, 9500 series	
RANGES		35 ⁽⁴⁾⁽⁵⁾		1N	-60 to 30°F, 150°F max., 304 SS bulb and copper capillary std.; SS special order	T E M P E R A T U R E
		35 ⁽⁴⁾⁽⁵⁾		3N	range 0 to 100°F, 240°F max., 304 SS bulb and copper capillary std.; SS special order	
		35 ⁽⁴⁾⁽⁵⁾		4N	range 50 to 150°F, 250°F max., 304 SS bulb and copper capillary std.; SS special order	
		35 ⁽⁴⁾⁽⁵⁾		5N	range 100 to 200°F, 300°F max., 304 SS bulb and copper capillary std.; SS special order	
		35 ⁽⁴⁾⁽⁵⁾		7N	range 140 to 300°F, 500°F max., 304 SS bulb and copper capillary std.; SS special order	
		35 ⁽⁴⁾⁽⁵⁾		8N	range 250 to 415°F, 550°F max., 304 SS bulb and capillary std.	
		35 ⁽⁴⁾⁽⁵⁾		9N	range 350 to 550°F, 600°F max., 304 SS bulb and capillary std.	
		35 ⁽⁴⁾⁽⁵⁾		10N	range 100 to 300°F, 500°F max., 304 SS bulb and copper capillary std.; SS special order	
		35 ⁽⁴⁾⁽⁵⁾		11N	range 100 to 500°F, 600°F max., 304 SS bulb and capillary std.	
		36 ⁽⁴⁾⁽⁵⁾⁽¹⁰⁾		5NS	range 100 to 200°F, 300°F max., 304 SS bulb std.	
		36 ⁽⁴⁾⁽⁵⁾⁽¹⁰⁾		6NS	range 140 to 250°F, 380°F max., 304 SS bulb std.	
CONNECTION & MOUNTING OPTIONS		37 ⁽⁴⁾⁽⁵⁾⁽¹¹⁾			Same as 36 except back connection, 304 SS bulb std.	
		38 ⁽⁴⁾⁽⁵⁾			Same as 36 except has flanged back	

NOTES:

- (1) -153 circuit available 1A 440V AC on special order.
- (2) Also rated 0.9A at 24V AC.
- (3) 1/4 HP at 120V AC, 1/2 HP at 240V AC.
- (4) DC rated controls (up to 10A.
- (5) 5A, 30V DC resistive.
- (6) 17A non-inductive at 120/240/440V AC.

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, ±1.5% on DS-7300 models.
Switch Type	:	SPST mercury switch, SPDT mercury switch, SPDT snap switch, or SPDT hermetically sealed snap switch. Other circuit types available.
Electrical Rating	:	See Model Charts.
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 range 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 (2.7 kg). Explosion-proof: 8 lb (3.5 kg).
Deadband	:	See Model Charts.
Agency Approvals	:	CE, CSA, FM, UL. (mercury switch units are not CE approved). (Consult factory for FM approval models.)