



Pressure/Temperature Controls — Nomenclature Guide

GENERAL

EXAMPLE	DA	31	153	4	Description
					Standard DA Bourdon Tube Control. Dual setpoint, automatic reset, SPDT mercury switch, 1-35 PSIG.
RESET OPTIONS	R R S L		U L		Manual reset, single adjustment – operates on decrease automatically. Manual reset, single adjustment – operates on increase automatically. Automatic reset, single adjustment. DS only. Manual lock reset, single adjustment. Available as special order only.
HOUSING & APPROVAL OPTIONS	W N3 W H E F				Weather proof enclosure Nema 3S, 4 and 4X. Flanged back standard. Weather resistance, includes drain. Flanged back standard. Available as special order only. Explosion-proof enclosure – control integral. Available only on DA, DR, DS. Explosion-proof enclosure – control removable. Available only on DA, DR, DS. Factory Mutual Approval. DAW is FM approved as standard.
CIRCUIT SWITCHING OPTIONS					SPST opens on pressure increase. Elect Code A, mercury switch. SPST closes on pressure increase. Elect Code A, mercury switch. SPDT Elect Code B, mercury switch 2 each SPST, one opens as the other one closes. Elect Code A, mercury switch. 2 each SPDT, Elect Code B, mercury switch, 18' leads; Elect Code G, snap switch, screw terminals Other circuits available, consult factory. SPST opens on increase, electrical code I, DS only, mercury switch. SPST closes on increase, electrical code I, DS only, mercury switch. Two stage, includes 2 each SPST, mercury switch. Two stage, includes 2 each SPST, mercury switch. Two stage, includes 2 each SPST, mercury switch. Two stage, includes 2 each SPST, mercury switch. SPST mercury switch, electrical code H, opens on increase. SPST mercury switch, electrical code H, closes on increase. Snap switch SPDT, elect code D, 15A @120 VAC. 2 each SPDT, elect code F, for ranges above 35 psi only, add 30% to minimum deadbands, 702,703,704 only. DS only, snap switch, SPDT, elect code E. 2 each SPDT, snap switches, elect code G, DS only. Two stage, includes 2 each, SPDT snap switches, elect code G. Delrin Bushed Movement. For all controls.
OVERPRESSURE OPTIONS					2500 psi overpressure, 316SS diaph. seal, SPST open on increase, elect code A. Specify range per Pg. 15. 2500 psi overpressure, 316SS diaph. seal, SPST close on increase, elect code A. Specify range per Pg. 15. 2500 psi overpressure, 316SS diaph. seal, SPDT elect code B. Specify range per Pg. 15. 2500 psi overpressure, 316SS diaph. seal, SPST open on increase, elect code I, DS only. 2500 psi overpressure, 316SS diaph. seal, SPST close on increase, elect code I, DS only. 2500 psi overpressure, 316SS diaph. seal, SPST close on increase, elect code H. 2500 psi overpressure, 316SS diaph. seal, SPST close on increase, elect code H.

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OVERPRESSURE OPTIONS					2500 psi overpressure, 316SS diaph. seal, SPST open on increase, elect code A. Specify range per Pg. 15. 2500 psi overpressure, 316SS diaph. seal, SPST close on increase, elect code A. Specify range per Pg. 15. 2500 psi overpressure, 316SS diaph. seal, SPDT elect code B. Specify range per Pg. 15. 2500 psi overpressure, 316SS diaph. seal, SPST open on increase, elect code I, DS only. 2500 psi overpressure, 316SS diaph. seal, SPST close on increase, elect code I, DS only. 2500 psi overpressure, 316SS diaph. seal, SPST close on increase, elect code H. 2500 psi overpressure, 316SS diaph. seal, SPST close on increase, elect code H.
RANGES & PRESSURE					30" Hg. Vac. – 60 psig range. 30" Hg. Vac. -75 psig range. 2-60 psig range. 5-100 psig range. 10-200 psig range. 10-300 psig range. 40-350 psig range. 25-600 psig range. 50-1000 psig range. 100-1500 psig range. 300-2500 psig range. 500-5000 psig range. 800-8000 psig range. 0-30" Hg. Vac.

ELECTRICAL RATING CODES

For Mercury Switch Contacts

CIRCUIT CODE	SUFFIX NO.	AC CAPACITY		DC RESISTIVE		HORSEPOWER
		120V	240V	120V	240V	
A	-2, -3	10A	5A	10A	5A	1/3
B	-153, -804	4A	2A	4A	2A	1/4
C	-2, -3	10A	5A	10A	5A	3/8
H	-2, -3	5A	2A	2 1/2A	1A	1/4
(2)	-2, -3	0.3A	0.15A	NA	0.07A	NA

BOURDON TUBE MATERIALS

For Snap-Action Contacts

CODE	CIRCUIT SUFFIX NO.	AC CAPACITY			DC RESISTIVE			HORSEPOWER
		120V	240V	440V	120V	240V	440V	
D	-153	15A	15A	15@	1/2A	1/4A	1/8	NA
E	-153	15A	15A	NA	④	④	③	NA
F	-804	12A	10A	5A	1/2A	1/4A	③	NA
G	-804	5A	5A	NA	⑤	⑤	NA	NA

SWITCHES

- 3 10" Hg. Vac. - psig range.
- 1 1/8 - 15 psig range.
- 3 1/8 - 20 psig range.
- 3 1-35 psig range.
- 2 25" Hg. Vac. - 50 psig range.
- 5 2-60 psig range.
- 6 5-100 psig range.
- 7 5-150 psig range.
- 8 10-200 psig range.
- 9 10-300 psig range.
- 2 6 E 30" Hg. Vac. - 75 psig range.
- 2 3 E 5-75 psig range.
- 6 E 10-100 psig range.
- 2 4 E 10-150 psig range.
- 9 E 10-300 psig range.
- 2 1 E 30-400 psig range.
- 2 2 E 75-800 psig range.
- 1 1 E 100-1000 psig range.
- 1 3 E 200-2500 psig range.
- 2 3 K 5-75 psig range.
- 2 4 K 10-150 psig range.
- 9 K 10-300 psig range.

- 3 Brass Bourdon tube.
- 1 Brass Bourdon tube.
- 3 Brass Bourdon tube.
- 4 Brass Bourdon tube.
- 2 Brass Bourdon tube.
- 5 Brass Bourdon tube.
- 6 Brass Bourdon tube.
- 7 Brass Bourdon tube.
- 8 Brass Bourdon tube.
- 9 Brass Bourdon tube.
- 2 6 E Type 316SS Bourdon tube.
- 2 3 E Type 316SS Bourdon tube.
- 6 E Type 316SS Bourdon tube.
- 2 4 E Type 316SS Bourdon tube.
- 9 E Type 316SS Bourdon tube.
- 2 1 E Type 316SS Bourdon tube.
- 2 2 E Type 316SS Bourdon tube.
- 1 1 E Type 316SS Bourdon tube.
- 1 3 E Type 316SS Bourdon tube.
- 2 3 K Type 316SS Bourdon tube, Carbon Steel Bottom, F housing standard.
- 2 4 K Type 316SS Bourdon tube, Carbon Steel Bottom, F housing standard.
- 9 K Type 316SS Bourdon tube, Carbon Steel Bottom, F housing standard.

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

CONNECTION & MOUNTING OPTIONS

- 1 Standard Housing.
- 2 Back Connection. Not available on D-900 series. Not available for range 15S, 16S.
- 3 Flanged back - (standard on "W" models).
- 4 Back Connection and flanged back. Not available for range 15S or 16S or on D-900, 9200, 9500 series.

RANGES

- 3 5 -60°F to +30°F range
- 3 5 0-100°F range
- 3 5 50-150°F range
- 3 5 100-200°F range
- 3 5 140-300°F range
- 3 5 250-415°F range
- 3 5 350-550°F range
- 3 5 100-300°F range
- 3 5 100-500°F range
- 3 6 100-200°F range
- 3 6 140-250°F range

CONNECTION & MOUNTING OPTIONS

- ⑪ 3 7 Same as 36 except back connection. 304 S.S. bulb std.
- 3 8 Same as 35 except has flanged back
- ⑨ 3 9 Same as 35 except has flanged back and back connection.

NOTES:

1. Not available on D_ _ _ 5, 74 or 95
2. Available on DA only
3. Not available on D_ _ _ - 70_ _
4. & 5. Not available with 9, 92, 95 Diaph. Seals
6. Available also as _ _ 28, 58, 708 and 728. Not available with E or H housing or 70-804 circuit.
7. F available only as DAF, DSF, DRF, DAHF, DRHF, DSHF; not all ranges or circuits.

8. Switch rating for D-400: AC, 120V @ .3A, 240V @ .15A, 24V @ .8A, DC, 120V @ .15A, 240A @ .07A. Not available for 440V service.
9. Available only as _ _ 39, 539, 239, 7039, 7239, 439 and 7439.
10. Available only as _ _ 36, 7036, and 7236
11. Available only as _ _ 37, 7037, 7237
12. Available only on 702, 703 and 704

HOW TO ORDER BY MODEL NUMBER

DSH-7231-153-4

- ① ② ③ ④ ⑤

1. Select auto or manual reset, fixed or adjustable deadband
2. Select housing
3. Select bourdon tube, mercury or snap switch including electrical rating, mounting/connections
4. Select switch action
5. Select range

Pressure