



# SKINNER 7000 Series Hot Water and Steam Two-Way, Direct Acting, Direct Lift and Pilot Operated Valves

## SPECIFICATIONS

### Mechanical Characteristics

#### Standard Materials of Construction

- Body– Brass or Stainless Steel (316 or 430F)
- Seals– PTFE, EPDM as listed
- Sleeve Tube– Stainless Steel (303 or 304)
- Plunger– Stainless Steel (430FR)
- Piston– Brass
- Piston Seal– PTFE Composite
- Piston Guide– PTFE Composite
- Stop– Stainless Steel (430FR)
- Springs– Stainless Steel (18-8 or 17-7PH)
- Shading Ring– Copper

#### Compatible Fluids

- Steam to 353°F, Hot Water to 210°F

### Electrical Characteristics

#### Voltages

- DC– 12, 24
- AC– 24/60, 110/50-120/60, 208/60, 220/50-240/60, 440/50-480/60 (other AC/DC voltages available upon request)

#### Power Consumption

- 10, 22 watts
- Fluxtron\* Electronic Coils and Magnelatch

#### Agency Approvals

- UL and CSA approvals are available on valves with applicable coil/enclosure combinations. For additional information see page 136.

### Miscellaneous

#### Maximum Ambient Temperature

- 10 watt AC/DC– 150°F(-E00 valves), 122°F (-ES0 valves), 77°F(-TS0 valves)
- 22 watt AC/DC– 77°F
- Fluxtron\*/Magnelatch– 122°F

Fluxtron coils not suitable for use on direct lift valves. Fluxtron and Magnelatch coils not suitable for use on valves rated for steam service (S0).

Valves with 'S0' in last two digits of pressure vessel number are rated for steam applications.

### DIRECT ACTING BRASS VALVES–NORMALLY CLOSED, EPDM SEALS

Pipe Size NPT	Orifice Size (inch)	Cv Factor	Operating Pressure Differential (PSI)				MAX. Fluid Temp. (F)	Pressure** Vessel Number	UL/CSA*** Approval	Const. Ref.	
			Min.*	Maximum		10 watt					22 watt
				AC Ratings	DC Ratings						
1/4	13/64	0.76	0	100	40	100	210	7121KBN2SE00	GP	2	
	13/64	0.76	0	40		40	285	7121KBN2SE00	GP	2	

### DIRECT LIFT BRASS VALVES–NORMALLY CLOSED, EPDM SEALS

Pipe Size NPT	Orifice Size (inch)	Cv Factor	Operating Pressure Differential (PSI)				MAX. Fluid Temp. (F)	Pressure** Vessel Number	UL/CSA*** Approval	Const. Ref.	
			Min.*	Maximum		10 watt					22 watt
				AC Ratings	DC Ratings						
3/8"	5/8	3.0	0	100		40	210	72218BN3TE00	GP	8	
	5/8	3.0	0	50			297	72218BN3TES0	GP	8	
	19/32	4.4	0	150		100	210	7221GBN3VE00	GP	9	
	19/32	4.4	0	45		45	293	7221GBN3VES0	GP	9	
1/2"	5/8	4.0	0	100		40	210	72218BN4UE00	GP	8	
	5/8	4.0	0	50			297	72218BN4UES0	GP	8	
	19/32	4.4	0	150		100	210	7221GBN4VE00	GP	9	
	19/32	4.4	0	45		45	293	7221GBN4VES0	GP	9	
3/4"	3/4	5.0	0	100		40	210	72218BN5VE00	GP	8	
	3/4	5.0	0	50			297	72218BN5VES0	GP	8	
	19/32	5.5	0	150		100	210	7221GBN51E00	GP	9	
	19/32	5.5	0	45		45	293	7221GBN51ES0	GP	9	
1"	19/32	5.5	0	150		100	210	7221GBN61E00	GP	9	
	19/32	5.5	0	45		45	293	7221GBN61ES0	GP	9	
	1	11.7	0	150		100	210	7221GBN64E00	GP	9	
	1	11.7	0	45		45	293	7221GBN64ES0	GP	9	