

ATKOMATIC

 **CIRCLE SEAL CONTROLS, INC.**
A division of CIRCOR International, Inc.

7000 Series

**Stainless Steel, Pilot-Piston, 0 - 6000 PSIG
High Pressure Valve Configurable for Variety
of Fluid Applications**

Features

- Pressure to 6000 psig
- Pilot operated—require a minimum pressure differential of 5 psig
- Barstock body configuration
- Fluid temperatures of -423° F through +500° F (Kel-F piston recommended for -400° F through +400° F)
- All 316 stainless steel construction on pressure containing parts; plunger material is 416 stainless that is treated for increased corrosion resistance
- Will handle fluids with viscosity up to 200 SUS
- Suitable for use with wide variety of fluid including: air, gasses, liquids, hydraulic fluids, steam, cryogenic fluids, and corrosive fluids
- Piston material (same as seat material) of Kel-F or 17-4 stainless steel
- Body seal materials of Teflon®, Viton®, Buna-N, or EPR
- Pipe ports of 1/4", 3/8", or 1/2" NPT (British BSPT ports available)
- Flow orifice of 5/16"
- C_v from 1.0 to 2.0
- Uses a class H fiberglass wrapped, double wound coil (requires use with a relay to drop put primary coil winding after valve actuation)
- Coils housings available in NEMA 1 (standard), NEMA 4 (waterproof), NEMA 7 (explosion-proof for hazardous locations), and combination NEMA 4 and 7

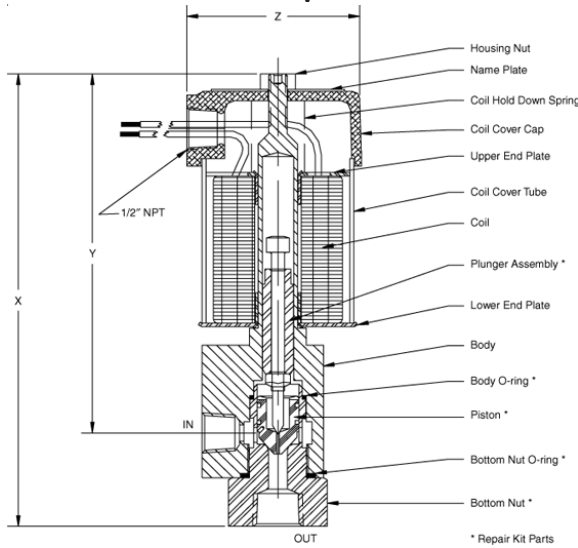
Operational Pressures (5 psi minimum pressure differential)

Gases		Liquids to 40 SUS		Liquids over 40 SUS		Steam	
A.C.	D.C.	A.C.	D.C.	A.C.	D.C.	A.C.	D.C.
6000	4000	6000	3500	6000	2500	300	300

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7000 Series

Dimensions, Shipping Weights, and C_v Flow Factors



7104 3/8" Valve, shown with a NEMA 1 coil housing

Catalog Num. Prefix	Pipe Size	Main Seat Orifice Dia	X	Y	Z	Shipping Weight (lbs.)	C _v
7004	1/4"	5/16"	7 9/16"	6"	2 3/4"	7	1.0
7104	3/8"	5/16"	7 9/16"	6"	2 3/4"	7	2.0
7204	1/2"	5/16"	7 9/16"	6"	2 3/4"	7	2.0

How to Order

7 x 0 4 - x x x x x x x x x

CONNECTION SIZES

- 0 1/4"
- 1 3/8"
- 2 1/2"

VOLTAGE AC/60 Hz

- 0 AC/60 Hz or DC Voltage
- 1 100 VAC 3 200 VAC 5 460 VAC
- 2 115 VAC 4 230 VAC 6 550 VAC

VOLTAGE AC/50 Hz

- 0 AC/60 Hz or DC Voltage
- 1 110 VAC 2 220 VAC

VOLTAGE DC

- 0 AC Voltage
- 1 24 & 32 VDC 3 125 VDC
- 2 48 VDC 4 250 VDC

CONNECTION TYPE

- P NPT
- J British Pipe Thread

COIL HOUSING

- E Explosion-proof
- S Standard
- W Waterproof
- C Combined Water- & Explosion-proof

FLUID MEDIA TYPE

- 1 Gas
- 2 Liquid up to 40 SUS
- 3 Liquid from 41 SUS to 150 SUS
- 4 Steam
- 5 Cryogenic

SEAL MATERIAL

- A Teflon® B Buna-N
- C Viton® D EPDM

SEAT/PISTON MATERIAL

- 1 Kel-F
- 2 Stainless
- 3 Stainless piston with Stellite stem

MAX. OPERATING PRESS (psig)

- A 300 E 1000 I 3500
- B 500 F 1500 J 4000
- C 700 G 2000 K 5000
- D 800 H 2500 L 6000

Viton® is a registered trademark of DuPont Dow Elastomers.
Teflon® is a registered trademark of DuPont.

For ordering wizard go to
www.circle-seal.com/atomatic/product_selection_wizard.htm
or request disk from 909-270-6315