



ATKOMATIC

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

1000 Series

**Stainless Steel, Direct Lift
Medium Pressure Valve Configurable for Variety of
Fluid Applications**

Features

- Direct acting valve
- Pressure to 5000 psig depending on fluid and orifice size
- Barstock body construction
- Compact size
- Stainless steel construction on all wetted parts—316 for pressure containing parts and plunger material is 416 stainless that is treated for increased corrosion resistance
- Will handle fluids with viscosity up to 200 SUS
- Fluid temperatures from -423° F to +500° F
- Suitable for use with wide variety of fluid including: air, gasses, liquids, hydraulic fluids, steam, cryogenic fluids, and corrosive fluids
- Optional seat materials of Teflon®, Kel-F, Buna-N, Viton®, EPR, or 316 stainless steel depending on fluid type and pressure
- Body seal materials of Teflon®, Viton®, Buna-N, or EPR.
- Flow orifice sizes of 1/16², 3/32², 1/8², and 3/16²
- Pipe sizes of 1/8² and 1/4² NPT
- British BSPT ports available
- C_v from .093 to .72
- Class H coil is standard
- Can use a class H double wound coil (requires use with a relay to drop put primary coil winding after valve actuation) depending on pressure
- Coils housing is NEMA 1

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1000 Series

Operational Pressures (No minimum pressure differential)

Single Wound Coils—Series 1000—1100 Metal Seats

Orifice	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.
1/16	2500	1500	1800	1000	1500	500	300	300
3/32	1000	500	800	350	500	170	300	300
1/8	500	200	400	125	250	50	300	125
3/16	175	55	125	35	125	15	125	35

Single Wound Coils—Series 1002—1102 Soft Seats (Buna-N, Viton®, EPR, Teflon®, and Kel-F)

Orifice	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.
1/16	2500	1275	1500	765	1500	500	300	300
3/32	1000	425	675	300	425	150	300	300
1/8	425	170	350	100	200	40	300	100
3/16	150	40	100	30	100	12	110	30

Double Wound Coils—Series 1004—1104 Metal Seats

Orifice	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.
1/16	5000	5000	5000	3500	5000	2500	300	300
3/32	3500	2000	3000	1500	3000	1000	300	300
1/18	2000	800	1500	600	1200	500	300	300

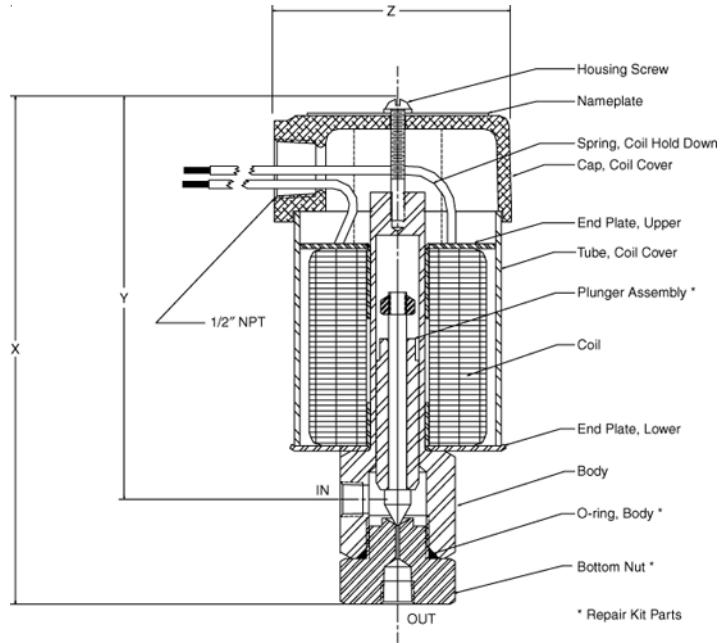
Double Wound Coils—Series 1009—1109 Soft Seats (Buna-N, Viton®, EPR, Teflon®, and Kel-F)

Orifice	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.
1/16	5000	4000	4500	3000	4250	2100	300	300
3/32	3000	1700	2600	1300	2250	850	300	300
1/18	1700	680	1275	500	1000	425	300	300

Note: Rubber seats are limited to 500 psi.

1000 Series

1002 1/8" Valve—shown with NEMA 1 coil housing and metal seat



Dimensions and Shipping Weights

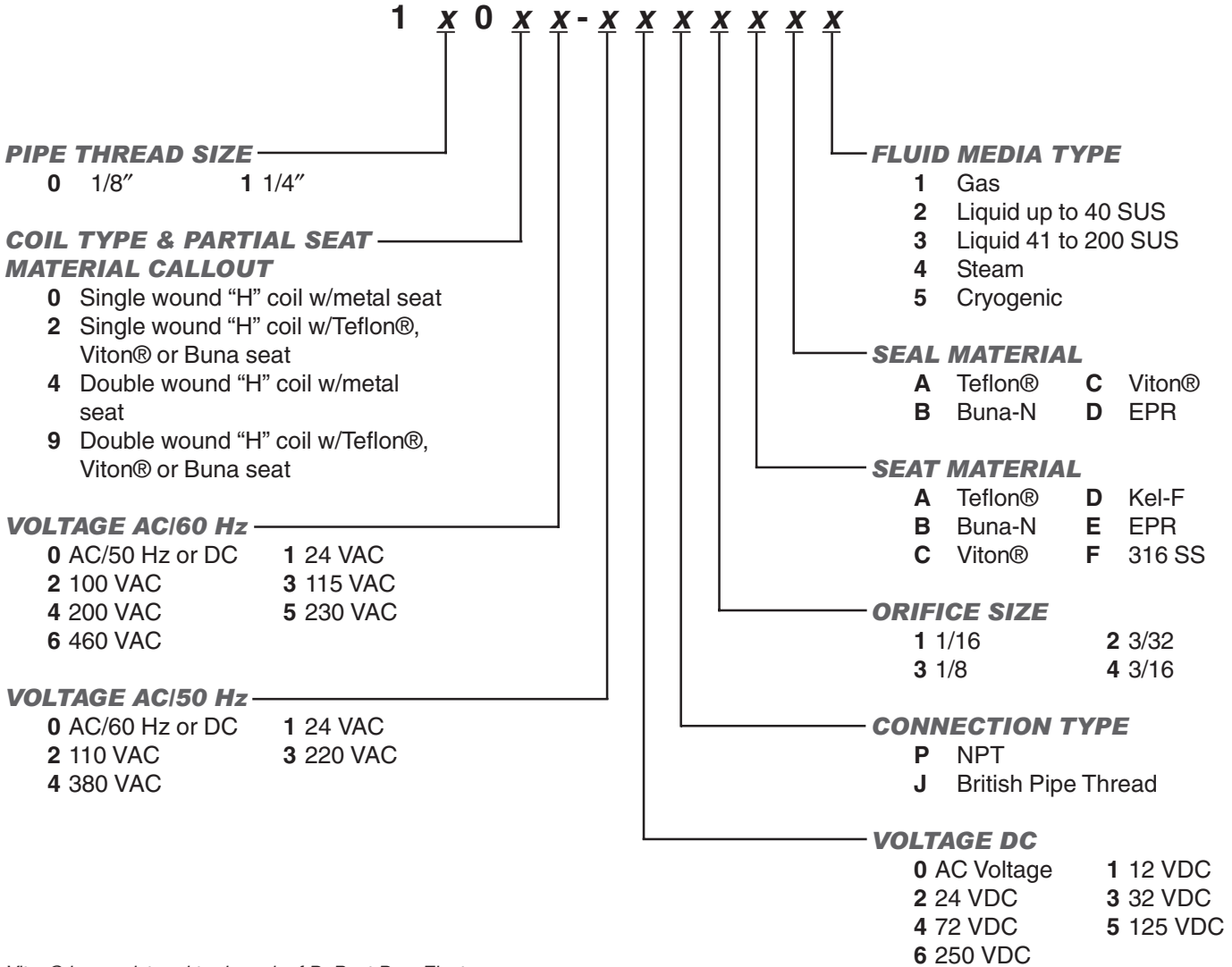
Catalog Number Prefix				Pipe Size	X	Y	Z	Shipping Weight (lbs.)
Single Wound Coil Metal Seat	Single Wound Coil Soft Seat	Double Wound Coil Metal Seat	Double Wound Coil Soft Seat					
1000	1002	1004	1009	1/8"	5 3/4"	4 5/8"	2 3/4"	5
1100	1102	1104	1109	1/4"	5 3/4"	4 5/8"	2 3/4"	5

C_v Flow Factors

Orifice Size	C _v
1/16"	.093
3/32"	.22
1/8"	.44
3/16"	.72

1000 Series

How to Order



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/atkomatic/product_selection_wizard.htm
or request a disk from 909-270-6315