



# INTIMIDATOR TYPE J CONTROL VALVE

SIZES 1/2" - 2"  
ANSI CLASS 150, 300, 600

## APPLICATION DATA

- Process control systems for food, pulp and paper, chemical, petrochemical & other industries
- HVAC systems
- Feed water and fuel system controls in boiler rooms
- Packaged systems (OEM) such as heat exchangers, water purification systems & vaporizer, metal cleaning and plating

- **High Capacity Streamlined Body** reduces velocity and pressure loss.
- **Compact Design** for ease of installation.
- **Multiple Port Sizes** allows flexibility in sizing.
- **Stainless Steel Trim** for long life and corrosion resistance.
- **Super Polished, Extra Thick Stem** provides low friction and precise control.
- **Live Loaded V ring Packing** is self adjusting.
- **Slip-on Flanges** for flexibility in piping.
- **NEMUR 4 Mounting Pad** for accessories.

## MODELS

- J1 — Cast Iron
- J3 — Stainless Steel\*

## OPTIONS

- 36 or 60 sq. in. actuators
- Soft Seats- 450° F
- Moore, PMV, Eckardt Accessories
- Threaded or Flanged Connections
- Graphite or High Temperature Packing
- High Temperature 600°F

## APPLICABLE CODES

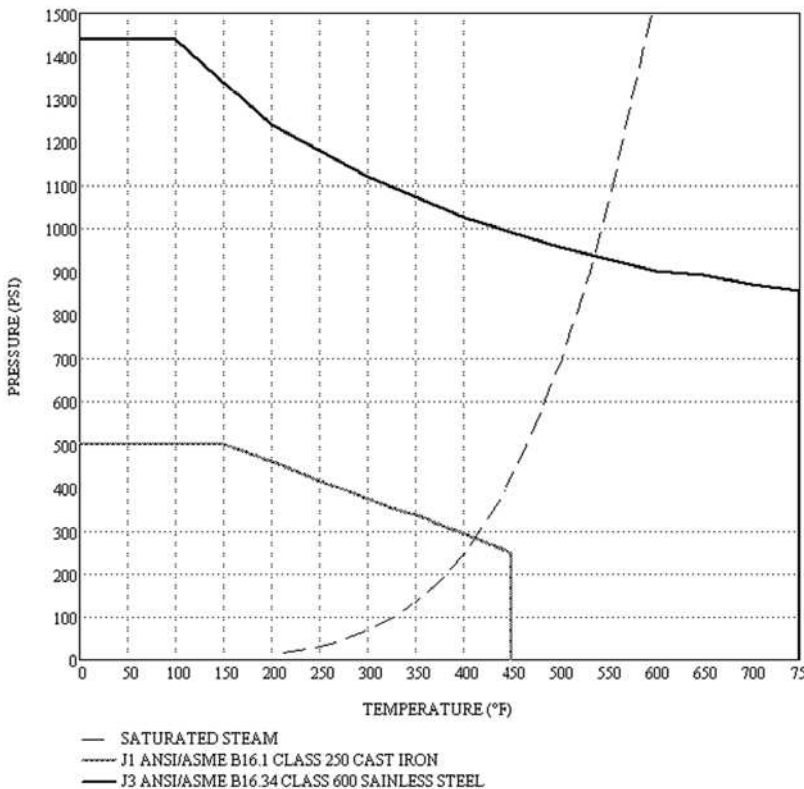
- ANSI/ISA 70-2 Class IV & VI seat leakage
- NEMUR 4 mounting of accessories

## PLUG CHARACTERISTICS

- 1/8" to 1/4" Port Sizes - Equal Percent, 50:1 flow rangeability
- 5/8" to 2-1/4" Port Sizes - Modified Equal Percent, 100:1 flow rangeability

Canadian Registration # OC 0591.9C

## PRESSURE/TEMPERATURE CHART



## MAXIMUM RATED FLOW COEFFICIENTS\* (Cv)

VALVE SIZE				
1/2	3/4	1	1 1/2	2
5.1	10.3	18.2	37	67

\* Body is ANSI Class 600. Pressure rating may be limited by choice of flanges.

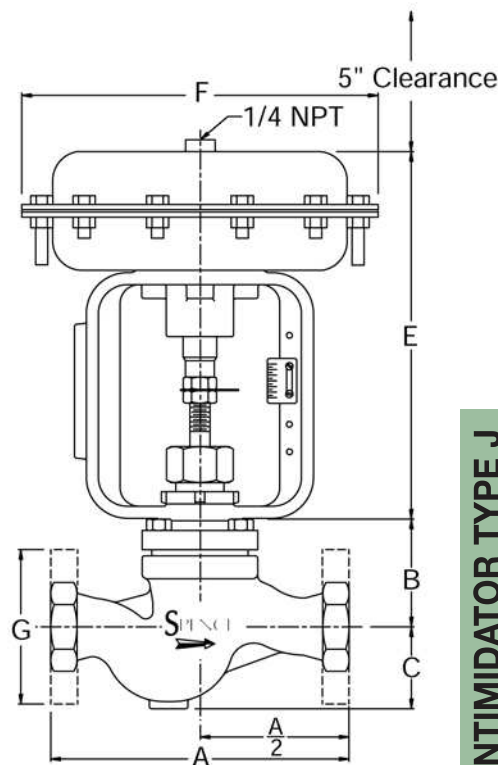
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## SPECIFICATION

The valve shall be single seated, top guided compact pneumatic globe control valve with a streamlined body. The actuator shall have all SS hardware with a maximum deadband of .3 PSIG. the valve trim shall be all 316SS with replaceable threaded seats for easy maintenance. Standard packing shall be spring loaded teflon V-Rings. Optional graphite or high temperature packings available. The valve seat leakage shall conform to ANSI/ISA 70-2 Class IV for metal seats and Class VI for teflon soft seats. The valve shall conform to NEMUR 4 for mounting of accessories.

## MATERIALS OF CONSTRUCTION

Body .....	316 SS ASTM A351 CF8M
.....	Cast Iron ASTM A126 CL B
Seat Ring .....	316 SS ASTM A276 Cond A
Packing.....	PTFE V ring
.....	PTFE/Graphite
.....	Graphite
Plug & Stem Ass'y .....	316 SS ASTM A276 Cond A
Yoke.....	DI ASTM A536/Epoxy
Diaphragm .....	Nitrile/Polyester
Piston.....	316 SS ASTM A743 Grd CF8
Spring .....	Music Wire ASTM A228
Actuator Housing .....	Steel SAE 1006-1008/Epoxy



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CONTROL VALVE

## DIMENSIONS inches AND WEIGHTS pounds

Size	A		B	C	E		F		G (Flange Diameter)		Weights*			
	Scrd.	Flg.			36 in. <sup>2</sup>	60 in. <sup>2</sup>	36 in. <sup>2</sup>	60 in. <sup>2</sup>	150	300/600	Screwed		Flanged	
											36 in. <sup>2</sup>	60 in. <sup>2</sup>	36 in. <sup>2</sup>	60 in. <sup>2</sup>
1/2	7/8	8	2 1/16	1 7/8	9/8	11/8	9/4	11 1/4	3 1/2	3 3/4	20 1/2	36 1/2	23 1/2	39 1/2
3/4	7 5/8	8 1/8	2 1/16	1 7/8	9/8	11/8	9/4	11 1/4	3 7/8	4 5/8	20 1/2	36 1/2	25 3/4	41 3/4
1	7 3/4	8 1/4	2 3/4	2 1/8	9/8	11/8	9/4	11 1/4	4 1/4	4 7/8	22 1/2	38 3/4	29	45 1/4
1 1/2	9 1/4	9 7/8	3 3/8	2 11/16	9/8	11/8	9/4	11 1/4	5	6 1/8	29 1/4	45 1/2	40 1/4	57 1/2
2	10 1/2	11 1/4	3 3/32	3 5/16	9/8	11/8	9/4	11 1/4	6	6 1/2	38 1/4	54 1/4	50 1/4	68 1/4

\*Weights are approximate.

## PRESSURE RECOVERY FACTORS

For Gas:  $X_T=0.7$ , For  $F_L$ : See Chart

1/2		3/4			1				1 1/2			2		
1/4	5/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3
.851	.79	.864	.82	.775	.869	.839	.805	.768	.843	.82	.782	.841	.811	.772