



INTIMIDATOR TYPE J CONTROL VALVE

SIZES 1/2" - 2"
ANSI CLASS 150, 250/300, 600

- **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.

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

MODELS

- J1 — Cast Iron
- J3 — Stainless Steel*

OPTIONS

- 36 or 60 sq. in. actuators
- Soft Seats
- Moore, PMV, Eckardt Accessories
- Threaded or Flanged Connections
- Graphite or High Temperature Packing
- High Temperature 600°F and 750°F Construction

APPLICABLE CODES

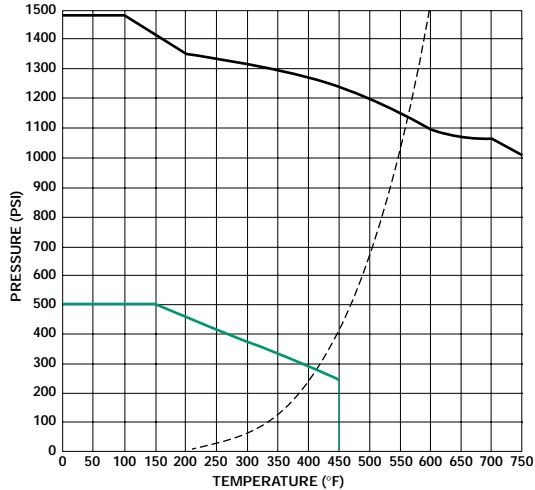
- ANSI/ISA 70-2 Class IV & VI seat leakage
- NEMUR 4 mounting of accessories

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



--- SATURATED STEAM
 — J1 ANSI/ASME B16.1 CLASS 250 CAST IRON
 — J3 ANSI/ASME B16.34 CLASS 600 STAINLESS STEEL

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.

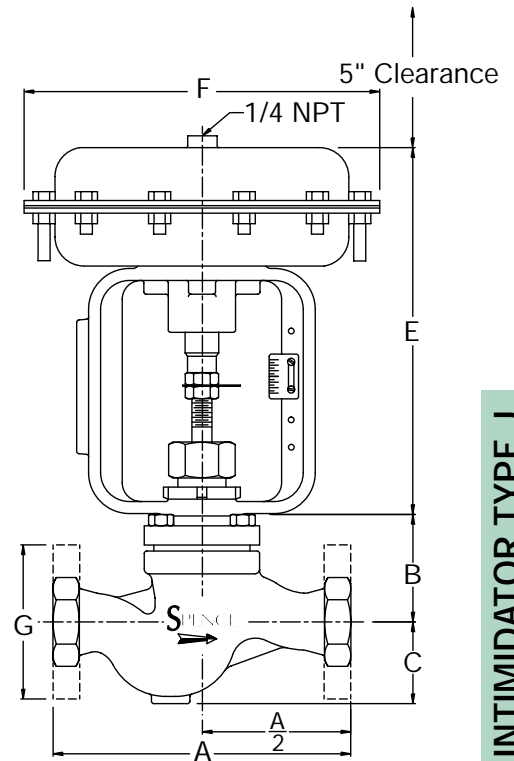
INTIMIDATOR TYPE J CONTROL VALVE

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
Stem	303 SS ASTM A582
Diaphragm	Nitrile/Polyester
Piston.....	316 SS ASTM A743 Grd CF8
Spring	Music Wire ASTM A228
Actuator Housing	Steel SAE 1006-1008/Epoxy



INTIMIDATOR TYPE J
CONTROL VALVE

DIMENSIONS inches AND WEIGHTS pounds

Size	A		B	C	E		F		G (Flange Diameter)		Weights*			
	Scrd.	Flg.			36 in. ²	60 in. ²	36 in. ²	60 in. ²	150	300/600	Screwed		Flanged	
											36 in. ²	60 in. ²	36 in. ²	60 in. ²
1/2	7 ⁵ / ₈	8	2 ¹ / ₆	1 ⁷ / ₈	9 ⁵ / ₈	11 ⁵ / ₈	9 ¹ / 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 / ₆	1 ⁷ / ₈	9 ⁵ / ₈	11 ⁵ / ₈	9 ¹ / 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 ⁵ / ₈	11 ⁵ / ₈	9 ¹ / 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 ⁵ / ₈	3 ³ / ₈	2 ¹ / ₆	9 ⁵ / ₈	11 ⁵ / ₈	9 ¹ / 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 / ₂	3 ⁵ / ₈	9 ⁵ / ₈	11 ⁵ / ₈	9 ¹ / 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	5/8	3/8	1/4	5/8	3/8	1 1/4	3/8	1 1/4	1 1/4	1 1/4	1 1/4	2 1/4
.851	.79	.864	.82	.775	.869	.839	.805	.768	.843	.82	.782	.841	.811	.772