

940 Series Heavy Duty Control Valve

CONTROL VALVES

Actuator
(shown with
optional
positioner)

Valve
Body



▶ Diaphragm Actuated

▶ 14" & 17"
Actuator Sizes

▶ Heavy Duty Die Cast
Housing and Yoke

▶ 1/2" – 8" Valve Sizes

The Trerice **940 Series** Pneumatic Control Valve offers extreme quality and maximum valve performance. The Series 940 is available in a variety of 2-way and 3-way valve styles for industrial, demanding HVAC and commercial process applications. The 940 Actuator can be furnished with a 14" or 17" diaphragm and includes a rugged, die cast aluminum diaphragm chamber.

For optimal performance, the service conditions (medium, flow, temperature, inlet and outlet pressures) of the application must be considered when selecting a valve. Please refer to the Valve Selection Section of this catalog. Consult the Valve Selection tables for the capabilities of a particular valve/actuator assembly. A positioner may be required to maximize the close-off capability of the valve. Improper application may cause failure of the valve, resulting in possible personal injury or property damage.

For replacement or service parts please see Accessories and Replacement Parts in the Regulators and Control Valves section of the list price sheet.

940B shown

HOW TO ORDER

Sample Order Number: **940B-K84-760P**

Actuator Models	Valve Body Number	Positioner Model
940B 940C	Refer to pages 250-257	760P Pneumatic 760E Electropneumatic Omit if None

1. **Determine** the valve size, style and material required by the application.
2. **Consult** the Valve Selection table to determine the required Valve Model.
3. **Refer** to the maximum close-off pressure columns to determine the Actuator (with or without positioner) needed to provide the close-off pressure required by your application.
4. **Specify** the Actuator Model.
5. **Specify** the Valve Body Number.
6. **Specify** the Positioner Model (if required).

Valve Body Selection

(for 940 Series Heavy Duty Control Valve)

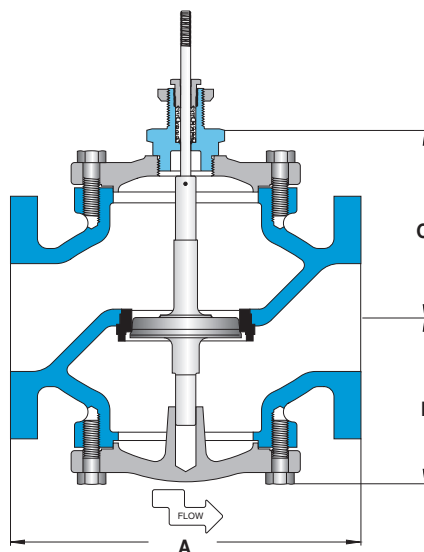
Single Seat • 2½" – 6"

CAST IRON

All dimensions are nominal. Dimensions in [] are in millimeters.



Stem In-to-Open (fail-closed)



Size	Class 125			Class 250		
	A	B	C	A	B	C
2½"	9.0 [229]	4.6 [117]	5.5 [140]	9.6 [244]	4.6 [117]	5.5 [140]
3"	10.0 [254]	5.3 [135]	6.1 [155]	10.8 [274]	5.3 [135]	6.1 [155]
4"	13.0 [330]	6.2 [157]	7.1 [180]	13.6 [345]	6.2 [157]	7.1 [180]
5"	15.8 [401]	7.4 [188]	5.9 [150]	16.6 [422]	7.4 [188]	5.9 [150]
6"	17.8 [452]	8.0 [203]	6.7 [170]	18.6 [472]	8.0 [203]	6.7 [170]

Specifications

Body Material	Trim Material	Trim Style	Close-off	Connection	Pressure & Temperature Rating
Cast-iron	Stainless steel	Equal percentage	Class IV	Class 125 flanged Class 250 flanged	140 PSI @ 300°F (149°C) 310 PSI @ 300°F (149°C)

Valve Body Selection

In-To-Open (fail-closed)				Maximum Close-Off Pressure (psid)				
Valve Body Number Class 125	Size Connection (Flanged)	Nominal Port	C _v	Actuator				Approximate Shipping Wt.
				940B*	940B w/Positioner	940C*	940 w/Positioner	
K72	2½	2½"	65	101	118	140	140	55 lbs [24.9 kg]
K77	3	3"	90	65	77	96	113	72 lbs [32.7 kg]
K82	4	4"	170	32	39	49	58	119 lbs [54.0 kg]
K87	5	5"	280	17	21	28	34	134 lbs [60.8 kg]
K92	6	6"	360	10	13	17	21	175 lbs [79.4 kg]

In-To-Open (fail-closed)				Maximum Close-Off Pressure (psid)				
Valve Body Number Class 250	Size Connection (Flanged)	Nominal Port	C _v	Actuator				Approximate Shipping Wt.
				940B*	940B w/Positioner	940C*	940C w/Positioner	
L72	2½	2½"	65	101	118	145	169	64 lbs [29.0 kg]
L77	3	3"	90	65	77	96	113	77 lbs [34.9 kg]
L82	4	4"	170	32	39	49	58	131 lbs [59.4 kg]
L87	5	5"	280	17	21	28	34	166 lbs [75.3 kg]
L92	6	6"	360	10	13	17	21	233 lbs [105.7kg]

*Requires a 9-15 psi input signal.