

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)

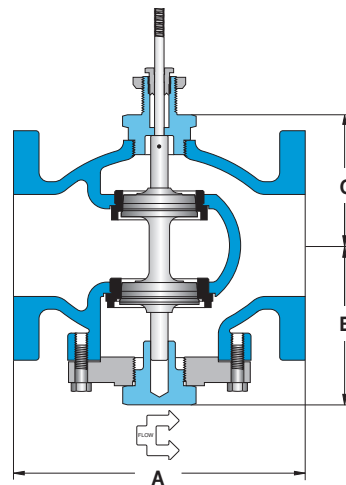
Double Seat • 1½" – 8"

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
1½"	x	x	x	7.4 [188]	3.8 [97]	3.9 [99]
2"	x	x	x	7.4 [188]	3.8 [97]	3.9 [99]
2½"	7.8 [198]	4.7 [119]	4.1 [104]	8.4 [213]	4.7 [119]	4.1 [104]
3"	9.0 [229]	4.9 [124]	4.4 [112]	9.8 [249]	4.9 [124]	4.4 [112]
4"	11.4 [290]	6.3 [160]	5.2 [132]	12.0 [305]	6.3 [160]	5.2 [132]
5"	12.0 [305]	6.7 [170]	7.6 [193]	12.9 [328]	6.7 [170]	7.6 [193]
6"	14.1 [358]	7.4 [188]	8.5 [216]	14.5 [368]	7.4 [188]	8.5 [216]
8"	16.3 [414]	8.7 [221]	9.6 [244]	16.3 [414]	8.7 [221]	9.6 [244]

Note: Drawing depicts flanged connections; 1½" & 2" valves have threaded connections.

Specifications

Body Material	Trim Material	Trim Style	Close-Off	Connection	Pressure & Temperature Rating
Cast-iron	Stainless steel	Equal percentage	Class II	1½"-2": Threaded 2½"-8": Class 125 flanged 2½"-8": Class 250 flanged	280 PSI @ 350°F (177°C) 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)		Approximate Shipping Wt.
Valve Body Number Class 125	Size Connection (Flanged)	Nominal Port	C _v	940B Actuator	940B w/Positioner	
K74	2½"	2½"	70	140	140	32 lbs [14.5 kg]
K79	3"	3"	100	140	140	42 lbs [19.1 kg]
K84	4"	4"	200	93	140	77 lbs [34.9 kg]
K89	5"	5"	260	49	140	124 lbs [56.2 kg]
K94	6"	6"	350	18	140	169 lbs [76.7 kg]
K99	8"	8"	680	x	140	290 lbs [131.5 kg]

In-To-Open (fail-closed)				Maximum Close-Off Pressure (psid)		Approximate Shipping Wt.
Valve Body Number Class 250	Size Connection (Flanged)	Nominal Port	C _v	940B Actuator	940B w/Positioner	
L55	1½" NPT	1½"	30	280	280	19 lbs [8.6 kg]
L66	2 NPT	2"	42	280	280	19 lbs [8.6 kg]
L74	2½"	2½"	70	250	310	42 lbs [19.1 kg]
L79	3"	3"	100	180	310	54 lbs [24.5 kg]
L84	4"	4"	200	93	310	96 lbs [43.5 kg]
L89	5"	5"	260	49	310	162 lbs [73.5 kg]
L94	6"	6"	350	18	310	220 lbs [99.8 kg]
L99	8"	8"	680	x	310	380 lbs [172.4 kg]