# spirax /sarco®

## K Series 6" and 8" Cast Steel Control Valves

### Description

Two port cast steel single seat globe valves conforming to ANSI/ASTM standards in sizes 6" and 8" (DN150 and DN 200) available with flanged connections. When used in conjunction with a pneumatic or electric linear actuator they provide characterized modulating or on/off flow control. For close control with pneumatic actuators a valve positioner should be used.

Compatible actuators and positioners

Electric	EL5650 Series
Pneumatic	PN5700, 6700, 1000 Series
	PP5 (pneumatic)
Positioners	EP5 and ISP5 (electropneumatic)
	SP2 (smart electropneumatic)

Refer to the relevant Technical Information Sheet for further details.

### Sizes and pipe connections

K\_A43 6" and 8" (DN150 and 200) flanged ANSI 150 and ANSI 300.

**Options** 

Trim	Equal %, linear, reduced Cv, fast opening (on/off) soft seal, hard faced, low noise and anti-cavitaiton.
Stem seal	PTFE chevrons and graphite packing.
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Refer to TI-P305-04 for further details.

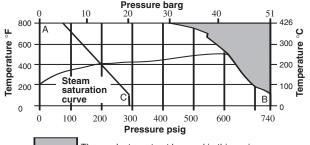
### **Technical data**

Plug design	6" and 8" (DN150 and DN200)		Vee port
Leakage -	Metal-to-metal seat	: ANSI/FCI 7	0/2 Class IV
Leakaye –	PTFE soft seal	ANSI/FCI 7	0/2 Class VI
	KEA valves	Equal percentage (modulating	
Flow characteristic	KLA valves	Linear (modulating)	
	KFA valves	Fast opening (on/off)	
Rangeability			50 to 1
Travel	6" and 8" (DN150 and DN200) 2" (50 mm)		

Limiting conditions

Body design conditions			ANSI 150 and ANSI 300
Maximum design	PTFE chevron s	seals	482°F (250°C)
temperature	Graphite packed	d seals	800°F (426°C)
Minimum design temperature			14°F (-10°C)
Design for a maxin	num	ANSI 1	50 450 psig (32.0 barg)
cold hydraulic test	pressure of:	ANSI 30	0 1125 psig (77.6 barg)
Maximum different	ial pressures		see actuator TI

Operating range



The product must not be used in this region

A - B Flanged ANSI 300 A - C Flanged ANSI 150

10 9 7 11 17
12
2 5
6 18
19
4 20 16
3 10

#### **Materials**

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No	Part	Material		
1	Body	Cast Steel	ASTM A216 WCB	
2	Bonnet	Cast Steel	ASTM A216 WCB	
3	Valve plug	Stainless steel	ASTM A276 Gr. 431	
4	Valve seat	Stainless steel	ASTM A276 Gr. 431	
5	Valve stem	Stainless steel	ASTM A276 Gr. 431	
6	Pin	Stainless steel	AISI 302	
7	Gland nut gasket	Semi-rigid graphite laminated		
8	Lock-nut	Stainless steel		
9	Gland nut	Stainless steel	ASTM A276 Gr .431	
10	Mounting nut	Mild steel zinc plated		
11	Gland seals	PTFE chevrons		
12	Gland spring	Stainless steel		
13	Bonnet gasket	Semi-rigid graphite laminated		
14	Bonnet studs	Steel	ASTM A193 B7	
15	Bonnet nuts	Steel	ASTM A194 2H	
		6" (DN150)	5/8" UNC	
		8" (DN200)	3/4" UNC	
16	Seat gasket	Semi-rigid graphite laminated		
17	Guide bush	Glass reinforced PTFE		
18	Bonnet guide	Stainless Steel	AISI 440B Hardened	
19	Valve post	Stainless steel	ASTM A276 Gr. 431	
20	Plug lock-nut	Stainless steel		

### K Series 6" and 8" Cast Steel Control Valves

### Cv values

Size	6" (DN150)	8" (DN200)	
Equal % and linear trim	351	550	
On/Off trim	383	630	

Three reductions in Cv are available for equal percentage and linear trims, for details see TI-P305-04.

For conversion  $Cv (UK) = Cv \times 0.833$   $Kvs = Cv (US) \times 0.855$ 

Dimensions/weights (approximate) in inches and lbs

Difficition of weights (approximate) in inches and ibs				
Valve size	Α	В	В	Weight
		(ANSI 150)	(ANSI 300)	
6" (DN150)	11.1	17.8	18.6	165
8" (DN200)	13.0	21.4	22.4	249

#### Installation

The valve should be installed in a horizontal pipeline with the direction of flow as indicated by the arrow on the valve body.

If necessary the actuator should be commissioned in accordance with the Installation and Maintenance Instructions supplied with the valve.

### How to order

Example: 1 of 6" KEA43 Cv 351 control valve flanged ANSI 150

### Spare parts

See TI-P305-05

