

# spirax sarco®

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

### Description

Two port stainless 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

<b>Electric</b>	EL5600 Series
<b>Pneumatic</b>	PN5700, 6700, 1000 Series
<b>Positioners</b>	PP5 (pneumatic) EP5 and ISP5 (electropneumatic) SP2 (smart electropneumatic)

Refer to the relevant Technical Information Sheet for further details.

### Sizes and pipe connections

K\_A63 6" and 8" (DN150 and 200) flanged ANSI 150 and ANSI 300.

### Options

<b>Trim</b>	Equal %, linear, reduced Cv, fast opening (on/off soft seal, hard faced, low noise and anti-cavitation).
<b>Stem seal</b>	PTFE chevrons and graphite packing.

Refer to TI-P305-04 for further details.

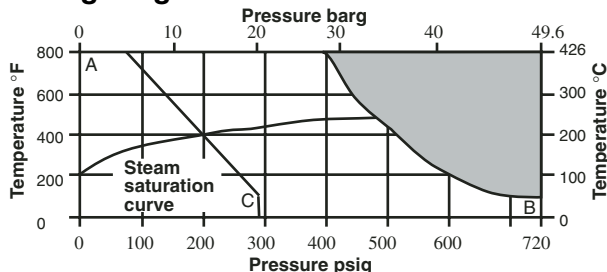
### Technical data

Plug design	6" and 8" (DN150 and DN200)	Vee port
Leakage	Metal-to-metal seat	ANSI/FCI 70/2 Class IV
	PTFE soft seal	ANSI/FCI 70/2 Class VI
Flow characteristic	KEA valves	Equal percentage (modulating)
	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 temperature	PTFE chevron seals	482°F (250°C)
	Graphite packed seals	800°F (426°C)
Minimum design temperature	-148°F (-100°C)	
Design for a maximum cold hydraulic test pressure of:	ANSI 150	450 psig (29.3 barg)
	ANSI 300	1100 psig (75.8 barg)
Maximum differential pressures	see actuator TI	

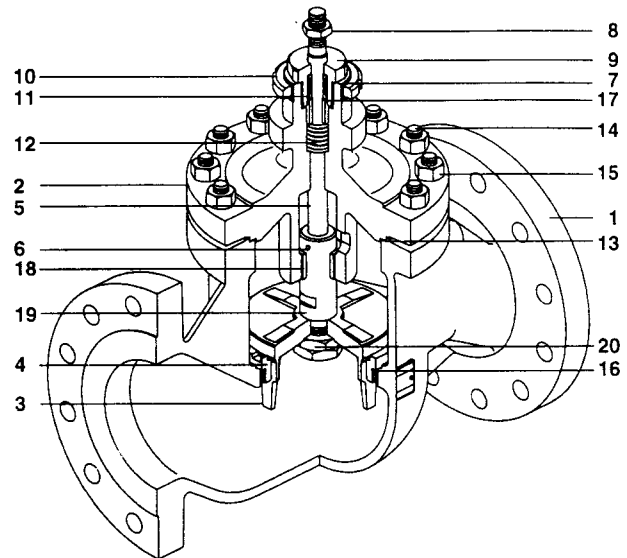
### Operating range



The product must not be used in this region  
 A - B Flanged ANSI 300    A - C Flanged ANSI 150

Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.  
 In the interests of development and improvement of the product, we reserve the right to change the specification.

### K\_A63 6" and 8"



### Materials

No	Part	Material	
1	Body	Stainless Steel	ASTM A351 CF8M
2	Bonnet	Stainless Steel	ASTM A351 CF8M
3	Valve plug	Stainless steel	ASTM A276 Gr. 316L
4	Valve seat	Stainless steel	ASTM A276 Gr. 316L
5	Valve stem	Stainless steel	ASTM A276 Gr. 316L
6	Pin	Stainless steel	AISI 316
7	Gland nut gasket	Semi-rigid graphite laminated	
8	Lock-nut	Stainless steel	
9	Gland nut	Stainless steel	ASTM A276 Gr .316L
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	Stainless Steel	ASTM A193 B8 M2
15	Bonnet nuts	Stainless Steel	ASTM A194 8M
		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	Stellite
19	Valve post	Stainless steel	ASTM A276 Gr. 431
20	Plug lock-nut	Stainless steel	

# K Series 6" and 8" Stainless 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  $C_v$  (UK) =  $C_v$  x 0.833       $K_v$ s =  $C_v$  (US) x 0.855

## Dimensions/weights (approximate) in inches and lbs

Valve size	A	B	B	Weight
		(ANSI 150)	(ANSI 300)	
6" (DN150)	11.1	17.8	18.6	167
8" (DN200)	13.0	21.4	22.4	251

## 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 off 6" KEA63 Cv 351 control valve flanged ANSI 300

## Spare parts

See TI-P305-05

K\_A63 6" and 8"

