KEYVALVE

Intelligent Dosing Control Valve

Fluid Control For Sustainable Future

www.keyvalveltd.com

The Company

KEYVALVE, a name associated with high quality work, creativity and engineering passion. Our business focuses on designing, developing, manufacturing and distribution of premium valves for fluid control industry.

With over 30 years of experience in technical know-how for valves manufacturing, our production with test facilities has been certified to PED 97/23/EC Module H and ISO 9001:2008 by TÜV Rheinland Germany. We impose the strictest quality control at every stage of manufacturing to assure product functionality and reliability.

Quality Policy

ISO9001:2008 CE 0035

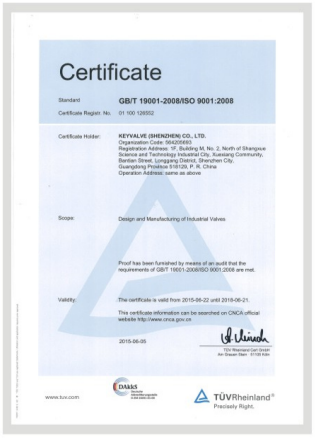
Certificate

Quality-Assurance System

acc. to Directive 97/23/EC

CE 0035

TÜVRheinland®


Certificate

Standard GB/T 19001-2008/ISO 9001:2008

Certificate Holder: KEYVALVE (SHENZHEN) CO., LTD.

Scope: Design and Manufacturing of Industrial Valves

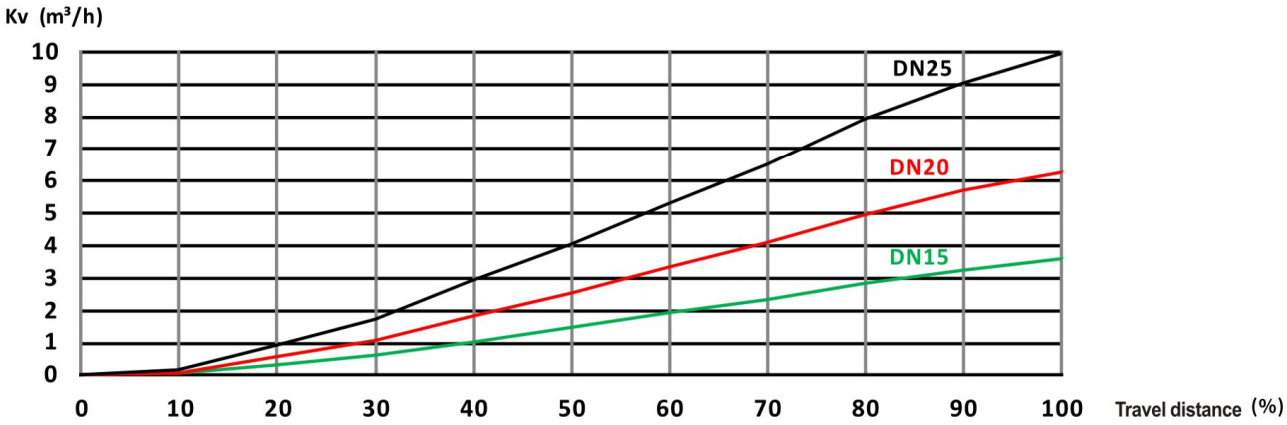
TÜVRheinland®

KT-18 Series Intelligent Dosing Control Valve

Features

1. Intelligent Dosing Control Valve is especially designed and manufactured for textile dyeing machine.
2. Built-in four characters LED control panel could be used for setting the control parameters of the electric-actuator.
3. Directly receiving 4-20mA analogue input signal from the programmable logic controller (PLC). Adopts 24VDC power supply. Dispense with positioner, solenoid valve and the compressed air supply. Meanwhile, it can output a 4-20mA feedback signal according to the valve position.
   (When replacing the used device, just need to connect the 24VDC power supply of the original solenoid valve with the analogue control signal of the original positioner or the percentage of input signal in the original textile dyeing machine.)
4. The plug design adopts hard metal sealing design, having high precision of the curve of flow rate and excellent sealing ability.
5. The mode of connection including flanged, threaded or welded suits for different connection mode.
6. The valve body material adopts high anti-corrosion stainless steel 316. The enclosure of controller is made of stainless steel which suits for harsh operation environment of textile dyeing factory.
7. Enclosure meets IP67 standard, completely isolating with the ambient environment and air, avoiding the polluted air to damage the electric components within the enclosure.

The Kv Curve

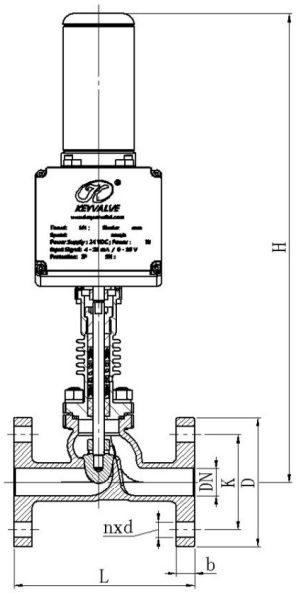


Linear Electric Actuator

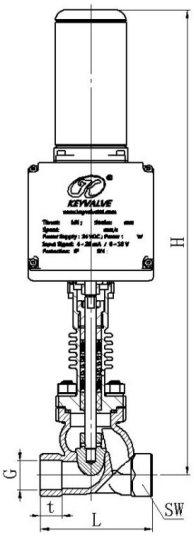
Technical Data

Thrust (option)	(kN)	1/1.5
Operating speed, 3 levels switchable	(mm/s)	0.3/0.6/1.2
Max. travel distance	(mm)	25
Power supply		24VDC
Power consumption	(W)	6.5
Torque switch		2pcs, fixed exchange capacity 10A 250V
Travel switch		2pcs, fixed exchange capacity 10A 250V
Input signal		4-20mA
Output signal		4-20mA
Type of potentiometer		Resistance type (standard)
		Voltage type - Hall type (option)
Sensitivity	(%)	0.1-5
Lagging		50% of sensitivity
Cable diameter	(mm)	8
Enclosure		IP67
Permissible ambient temperature		-20℃ – 60℃

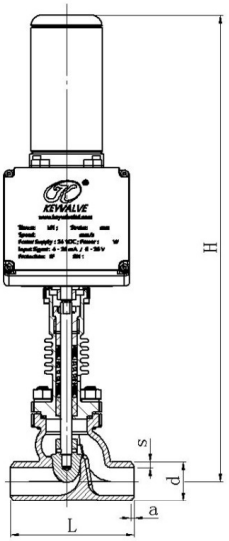
Technical Data



KT-18F Flanged series



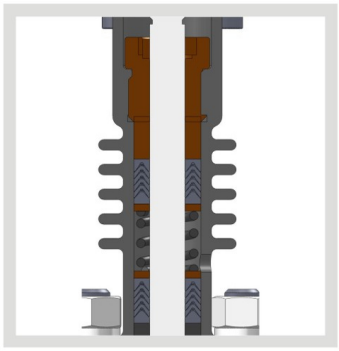
KT-18T Threaded series



KT-18W Welded series

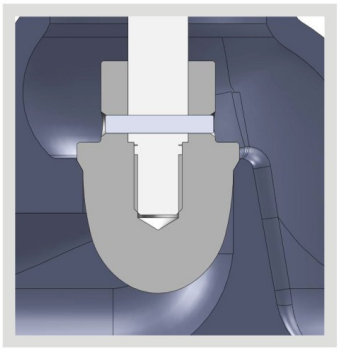
Nominal diameter			DN15	DN20	DN25
Nominal pressure			PN10 - PN40		
Operation temperature			-25℃ — 250℃		
Mode of operation			Electric actuator (24VDC)		
Type of connection			Flanged/Threaded/Welded		
Plug design			Hard metal sealing		
Flow characteristic			Linear		
Stem sealing			Spring loaded PTFE V-ring unit		
Body material			SA351CF8M (316)		
Stem material			316		
Actuator case material			SA351CF8 (304)		
Enclosure			IP67		
Flange standard			GB/DIN		
Flanged	L	(mm)	130	150	160
	H	(mm)	390	400	415
	D	(mm)	95	105	115
	K	(mm)	65	75	85
	n x d	(mm)	4 x Φ14		
	b	(mm)	14	16	
Threaded	L	(mm)	74	84	100
	H	(mm)	390	400	415
	G		1/2"	3/4"	1"
	SW	(mm)	27	32	41
	t (NPT)	(mm)	13.8	14.3	17
	t (BSP)	(mm)	11.5	14	15
Welded	L	(mm)	88	92	110
	H	(mm)	390	400	115
	s	(mm)	1.6		2
	d	(mm)	21.3	26.9	33.7
	a	(mm)	2	2.5	3
Kv value		(m³/h)	3.5	6	10

Stem Sealing



Spring loaded PTFE V-ring unit
-25℃ to 250℃

Plug design

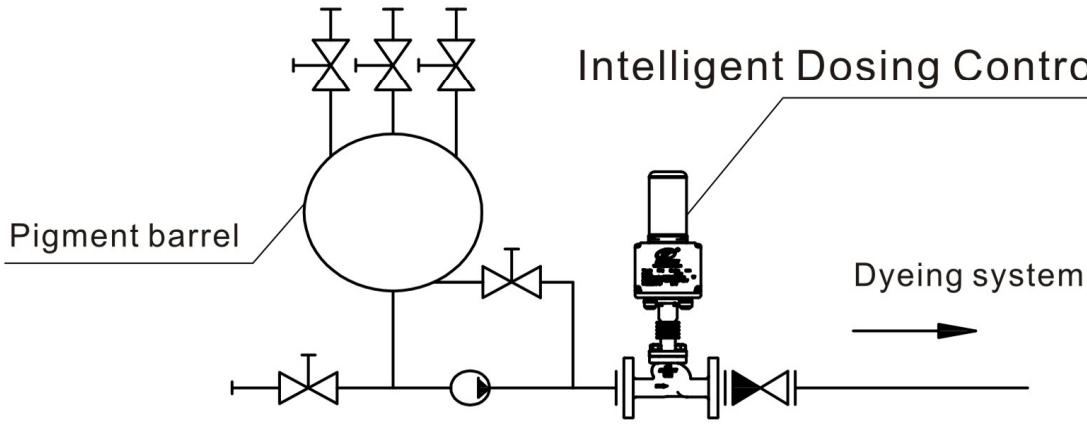


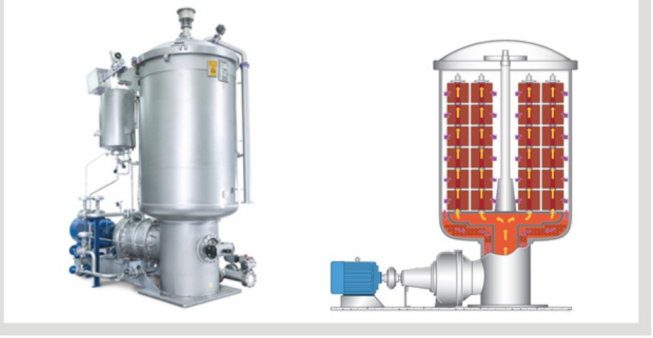
Hard metal sealing

Application

The KT-18 Series Intelligent Dosing Control Valve is designed and manufactured for textile dyeing machine. It is suitable for the automation control dosing system for the textile dyeing machine.

Application Schematic Diagram





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