



GVK(TS)

PNEUMATIC ACCESSORIES

Total Engineering Solution Service

Mission

기초에 근거하여 원천 기술을 살리고 원천 기술을
극대화하여 세계 중심에 서는 것

To stand at the centre of the world by
utilizing original technology based on the
foundation and maximizing original technology

Vision

우리는 옳은 일과 가치 있는 일에 주저함이 없이
최선을 다하고 실천하여 세계의 중심에 서자

Let us put ourselves at the center of the world by
doing our best and not hesitating to stand up for
what is right and worthy



GLOBAL VISION KOREA





Valve Product Service



GVK Limited, founded in June 2020 by a leader with 38 years of experience, focuses on R&D while ensuring quality, price, and functionality through domestic production. The company offers Process Valves, Valve Equipment, and Total Engineering services for industries such as Gas, Refining, Petroleum, Power generation, Environment, and Water treatment.

With a management team possessing 30-40 years of experience, GVK has developed numerous patents and adheres to quality standards like ISO 9001, 14001, 45001, and CE. Recognized for its advanced automatic control valves, GVK also supplies a range of Control Valves globally through OEM and ODM partnerships.

Although still in the early design and manufacturing stages, GVK has emerged as a leading company in Korea, equipped with skilled personnel and testing capabilities. The company aims to lower production costs, enhance efficiency, and improve quality while accumulating Hyper-Intelligence Valve Engineering (HIVE) technology. GVK Limited is committed to meeting customer needs with competitive pricing and high value-added services.

The Professional Provider of Automatic valve Actuators



Mutually Beneficial Relationships



To Be Your Best Partner



Twenty years experience "one stop" goods and services





TS SERIES
Pneumatic Accessories
Total Engineering Solution Service



GVK / TS Series Pneumatic Accessories

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Valve Instrumentation Product Service

Air Filter Regulator

Description

Air filter regulator TS300 series are used to provide pneumatic measuring and control equipment with a constant air supply.

Features

- + Remove particles from compressed air
- + Excellent flow and regulation characteristics
- + Easy Installation, Repair and Replacement
- + 2 gauge port, 5 micron filter
- + Auto drain (option)



TS300
(1/4")



TS300
(1/4" Auto drain)



TS310
(1/2")



TS310
(1/2" Auto drain)



TS305
(1/4" STS316)



TS305
(1/4" STS316
Auto drain)



TS315
(1/2" STS316)



TS315
(1/2" STS316
Auto drain)

Specifications

Model		TS300	TS310	TS305	TS315
Max supply pressure		1.7MPa			
Max output pressure		0.84MPa			
Operating Temp.		-20℃~70℃ (Standard type)			
Filtering capacity		5 micron			
Air connection		NPT(PT) 1/4	NPT(PT) 1/2	NPT1/4	NPT1/2
Gauge connection		NPT(PT)1/4		NPT1/4	
Material		Aluminum die cast		Stainless steel 316	
Weight	Sdandard	0.6kg	0.9kg	1.5kg	1.7kg
	Auto drain	0.6kg	1.0kg	1.6kg	1.9kg

Product code

Model	TS3						
In/ Output port size	1/4"	0					
	1/2"	1					
Material	Aluminum	0					
	Stainless steel 316	5					
Air connection type*	NPT			N			
	PT			P			
Ambient temperature	-20°C~70°C				S		
	-20°C~120°C				H		
	-40°C~70°C				L		
	-60°C~70°C				U		
Pressure gauge	None					0	
	Included (0~1MPa)					1	
Option	None						0
	Auto drain						A

* TS305/315 are only available with NPT .

Pneumatic ACCESSORIES

Volume Booster Relay

Description

Volume Booster is one-to-one Signal to output supply air, when used with a positioner/actuator, it is a control device to increase the stroking speed of control valves.

Features

- + Precise and fast response
- + Soft seats provide tight shut off
- + Adjustable Sensitivity
- + Options available (High and Low temperature)
- + Speed up valve regulation



TS100



TS110



TS120

Specifications

Model		TS100	TS110	TS120
Max supply pressure		1MPa		
Signal pressure		0.14~0.7MPa		
Signal to output ratio		1:1		
Linearity		1%		
Flow capacity(CV)	Exhaust	1.3	2.1	5.2
	Output	1.2	2.7	4.9
Supply / Output port		NPT(PT)1/4	NPT(PT)1/2	NPT3/4
Signal port		NPT1/4, PT1/4		
Ambient temperature		-20°C~70°C		
Material		Aluminum die cast		
Weight		0.55kg	0.75kg	1.9kg

Product code

Model		TS1			
In/ Output port size	1/4"	0			
	1/2"	1			
	3/4"	2			
Material	Aluminum		0		
	Stainless steel 316		5		
Air connection type*	NPT			N	
	PT			P	
Ambient temperature	-20°C~70°C				S
	-20°C~120°C				H
	-40°C~70°C				L
	-60°C~70°C				U

* TS120/105/115/125 are only available with NPT .

Valve Instrumentation Product Service

Snap Acting Relay

Description

Snap Acting Relay is a device that moves the control valve to the desired position in case of an emergency by switching or locking OUT port of pneumatic pipe when the signal pressure is lower than the set pressure.

Features

- + Quick Response and high precision
- + Easy set-up of switching signal air pressure
- + Can be switched to Lock up valve
- + Options available (High & Low Temperature)



Specifications

Model	TS250	TS260	TS255	TS265
Signal pressure	0.14~0.7MPa			
Max supply pressure	1MPa			
Max signal pressure	0.7MPa			
Differential pressure	Below 0.01MPa			
Operating Temp.	-20°C~70°C(Standard type)			
Flow capacity(CV)	0.9	1.8	0.9	1.8
Signal connection	NPT(PT) 1/4	NPT(PT) 3/8	NPT1/4	NPT3/8
In/Out connection	NPT(PT)1/4		NPT1/4	
Material	Aluminum die cast		Stainless steel 316	
Weight	Single type	0.7kg	1.2kg	1.7kg
	Double type	1.3kg	2.1kg	3.1kg

Product code

Model	TS2					
In/ Output port size	1/4"	5				
	3/8"	6				
Material	Aluminum	0				
	Stainless steel 316	5				
Acting type	Single			S		
	Double			D		
Air connection type*	NPT				N	
	PT				P	
Ambient temperature	-20°C~70°C					S
	-20°C~120°C					H
	-40°C~70°C					L
	-60°C~70°C					U

* TS255/265 are only available with NPT .

Pneumatic ACCESSORIES

Lock-Up Valve

Description

The pneumatic Lock Up Valve TS200 series shuts off the signal pressure line either when the air supply falls below an adjusted value or upon complete air supply failure. This causes the actuator to remain in its last position.

Features

- + Quick Response and high precision
- + Easy set-up of lock up air pressure
- + Small size and light weight
- + Options available (High & Low Temperature)



Specifications

Model	TS200	TS210	TS205	TS215
Signal pressure	0.14~0.7MPa			
Max supply pressure	1MPa			
Max lock up pressure	0.7MPa			
Differential pressure	Below 0.01MPa			
Operating Temp.	-20°C~70°C(Standard type)			
Flow capacity(CV)	0.9	1.8	0.9	1.8
In/Out connection	NPT(PT) 1/4	NPT(PT) 3/8	NPT1/4	NPT3/8
Signal connection	NPT(PT)1/4		NPT1/4	
Material	Aluminum die cast		Stainless steel 316	
Weight	Single type	0.5kg	1.2kg	1.2kg
	Double type	0.6kg	2.1kg	1.6kg

Product code

Model	TS2				
In/ Output port size	1/4"	0			
	3/8"	1			
Material	Aluminum	0			
	Stainless steel 316	5			
Acting type	Single		S		
	Double		D		
Air connection type*	NPT			N	
	PT			P	
Ambient temperature	-20°C~70°C				S
	-20°C~120°C				H
	-40°C~70°C				L
	-60°C~70°C				U

* TS205/215 are only available with NPT .

Valve Instrumentation Product Service

Position Transmitter

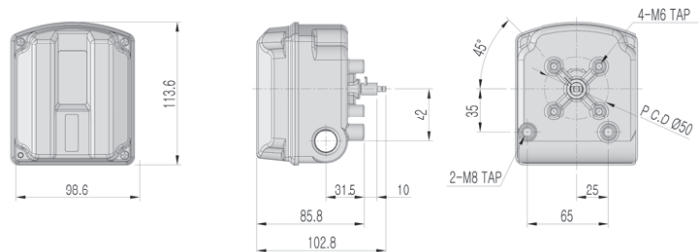
Description

TS500 Series is 2 wire type transmitter which transmits 4 ~ 20 mA DC signal according to changes in valve or damper position.

Features



Dimension [Unit:mm]



- + 2 wire connection type
- + LCD displays current output signal
- + Easy and simple setting with 2 buttons
- + High accuracy and reliability
- + Two or five points smart setup

Specifications

Model	TS500
Connection type	2 Wire
Supply voltage	9~28V DC
Output signal	4~20mA
Ingress protection	IP67
Conduit entry	2 x NPT1/2, G1/2, M20
Ambient Temp.	-40°C~85°C
Linearity	±1% F.S.
Hysteresis	±0.2% F.S.
Sensitivity	±0.2% F.S.
Material	Aluminum die cast
Painting	Polyester powder coating
Weight	0.6kg

Product code

Model	TS500				
Motion type	Linear	L			
	Rotary	R			
Conduit entry	NPT1/2		1		
	M20x1.5P		2		
	G1/2		3		
Lever type	Linear (10~70mm)			1	
	Linear (70~150mm)			2	
	Rotary (NAMUR)			5	
Option	None				0
	With Limit switch and Dome cover (Only for rotary type)				3
	With Limit switch and LCD				4

Pneumatic ACCESSORIES

Description

TS500 Series is 2 wire type transmitter which transmits 4 ~ 20 mA DC signal according to changes in valve or damper position.

Features

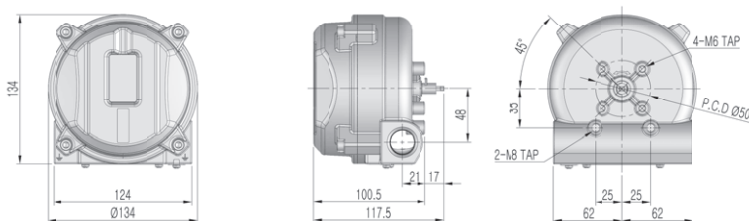


TS510

TS515

Position Transmitter(Exd)

Dimension [Unit:mm]



- + Flame proof type
- + LCD displays current output signal
- + Easy and simple setting with 2 buttons
- + High accuracy and reliability
- + Two or five points smart setup
- + Limit switch option

Specifications

Model	TS510	TS515
Connection type	2 Wire	
Supply voltage	9~28V DC	
Output signal	4~20mA DC	
Explosion proof	Ex db IIC T5/T6 Gb Ex tb IIIC T85°C/T100°C Db	
Ingress protection	IP67	
Conduit entry	2 x NPT1/2, NPT3/4, M20, M25	2 x NPT3/4
Ambient Temp.	-40°C~80°C (T5)/-40°C~70°C (T6)	
Linearity	±1% F.S.	
Hysteresis	±0.2% F.S.	
Sensitivity	±0.2% F.S.	
Material	Aluminum die cast	Stainless steel 316
Painting	Polyester powder coating	-
Weight	1.4kg	3.3kg

Product code

* TS515 is only available NPT3/4.

Model	TS510					
Material	Aluminum STS 316	TS510 TS515				
Motion type	Linear Rotary		L R			
Explosion proof type	ATEX&IECEX KCS CCC&NEPSI EAC(TR CU)			A K C E		
Conduit entry*	NPT1/2 M20x1.5P NPT3/4 M25x1.5P				1 2 3 4	
Lever type	Linear (10~70mm) Linear (70~150mm) Rotary (NAMUR)					1 2 5
Option	None With Limit switch and Dome cover (Only for rotary type) With Limit switch and LCD					0 3 4

Valve Instrumentation Product Service

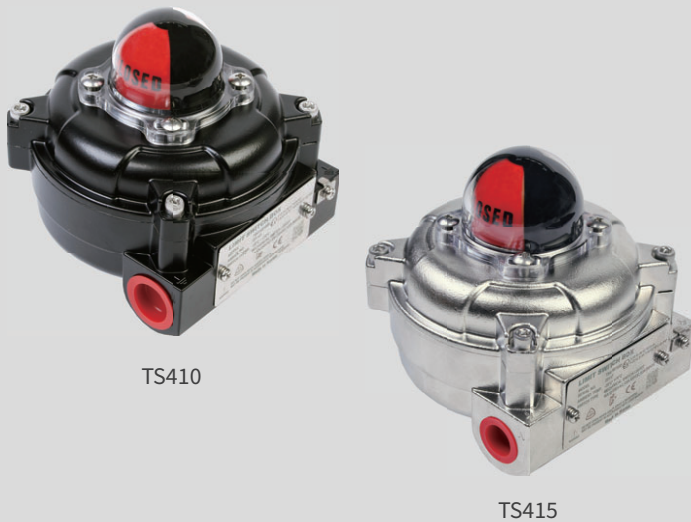
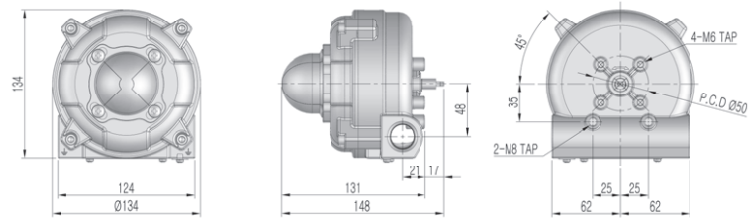
Limit Switch Box(Exd)

Description

Limit switch box is a device which notifies the central control room or controller when the valve reaches the set position

Features

Dimension [Unit:mm]



- Flame proof type
- Compact design with high visibility indicator
- Aluminum die casting with polyester power coating
- With spring loaded cams, easily set limit positions
- Dual cable entries
- NAMUR VDI/VDE 3845

Specifications

Model		TS410M	TS415M	TS410P	TS415P
Switch type		Mechanical switch 2xSPDT		Inductive proximity sensor	
		KW3A-16Z3-A100 (Dongnan)		PSN17-5DNU (Autonics)	
Switch rating	AC	16A,125/250V		-	
	DC	30V, 10A		10~30V	
Explosion proof		Ex db IIC T5/T6 Gb Ex tb IIIC T100°C/T85°C Db			
Ingress protection		IP67			
Conduit entry		2 x NPT1/2, NPT3/4, M20, M25			
Ambient Temp.		-40°C~80°C(T5) / -40°C~70°C(T6)			
Terminal		8 Points			
Painting		Polyester powder coating	-	Polyester powder coating	-
Material		Aluminum die cast	STS 316	Aluminum die cast	STS 316
Weight		1.3kg	3.2kg	1.3kg	3.2kg

* TS415 is only available with NPT3/4.

Product code

Model	TS410					
Material	Aluminum STS 316	TS410	TS415			
Switch type	Mechanical(2xSPDT) Proximity Mechanical (2xDPDT)	M P D				
Explosion proof type	ATEX&IECEX KCS CCC&NEPSI EAC(TR CU)	A K C E				
Conduit entry	NPT1/2 M20x1.5P NPT3/4 M25*1.5P	1 2 3 4				
Ambient temperature	-20°C~80°C(T5)/70°C(T6) -40°C~80°C(T5)/70°C(T6) -60°C~80°C(T5)/70°C(T6)(For EAC)	S L U				
Bracket type	None ST-1 (30x80,H20) ST-2 (30x80,H30) ST-3 (30x130,H30) ST-4 (30x130,H50)	0 1 2 3 4				

Pneumatic ACCESSORIES

Limit Switch Box

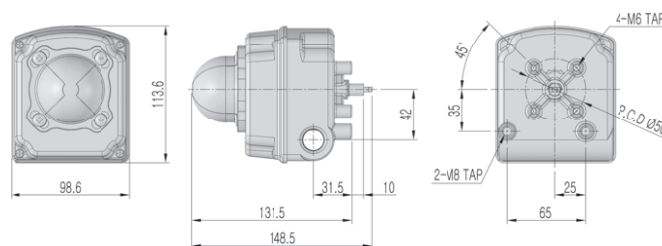
Description

Limit switch box is a device which notifies the central control room or controller when the valve reaches the set position.

Features



Dimension [Unit:mm]



- + Compact design with high visibility indicator
- + Aluminum die casting with polyester powder coating
- + With spring loaded cams, easily set limit positions
- + Dual cable entries
- + NAMUR VDI/VDE 3845

Specifications

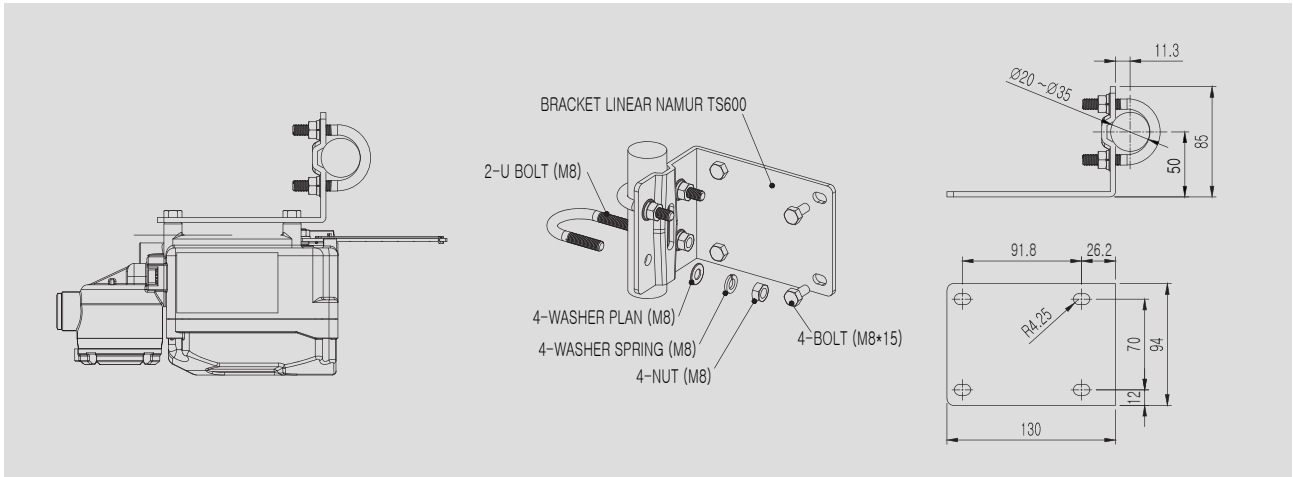
Model		TS400M	TS400P
Switch type		Mechanical switch 2xSPDT	Inductive proximity sensor
		KW3A-16Z3-A100 (Dongnan)	PSN17-5DNU (Autonics)
Switch rating	AC	16A,125/250V	-
	DC	30V, 10A	10~30V
Ingress protection		IP67	
Conduit entry		2 x NPT1/2, G(PF)1/2, M20	
Ambient Temp.		-20°C~70°C (Standard type)	
Terminal		8 Points	
Material		Aluminum die cast	
Painting		Polyester powder coating	
Weight		0.7kg	

Product code

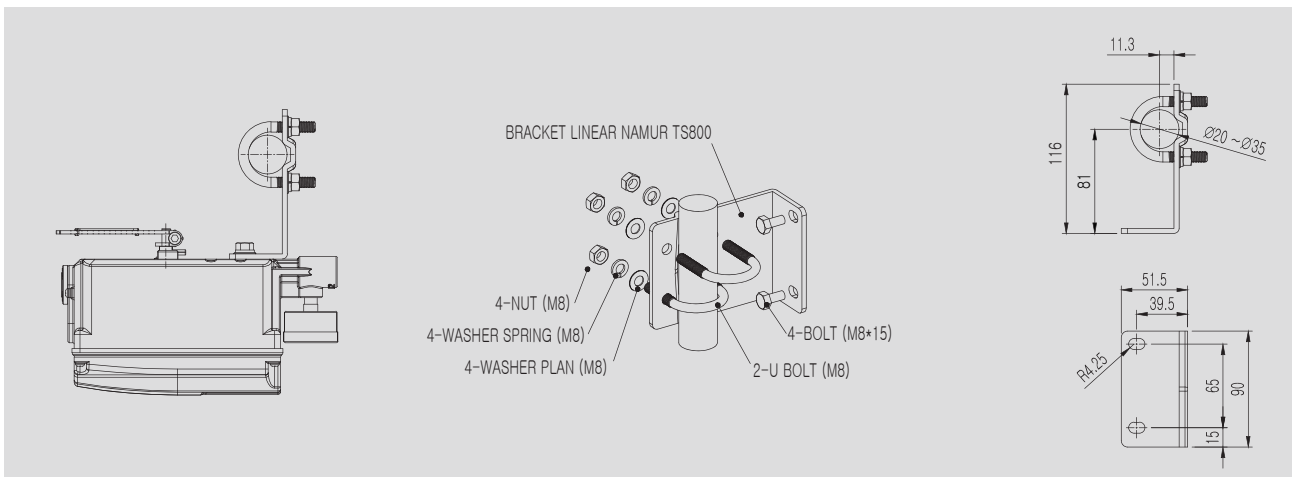
Model		TS400			
Switch type	Mechanical(2xSPDT)	M			
	Proximity	P			
	Mechanical (2xDPDT)	D			
Conduit entry	NPT1/2		1		
	M20x1.5P		2		
	G1/2		3		
Ambient temperature	-20°C~70°C			S	
	-40°C~70°C			L	
	-60°C~70°C			U	
Bracket type	None				0
	ST-1 (30x80,H20)				1
	ST-2 (30x80,H30)				2
	ST-3 (30x130,H30)				3
	ST-4 (30x130,H50)				4

Valve Instrumentation Product Service

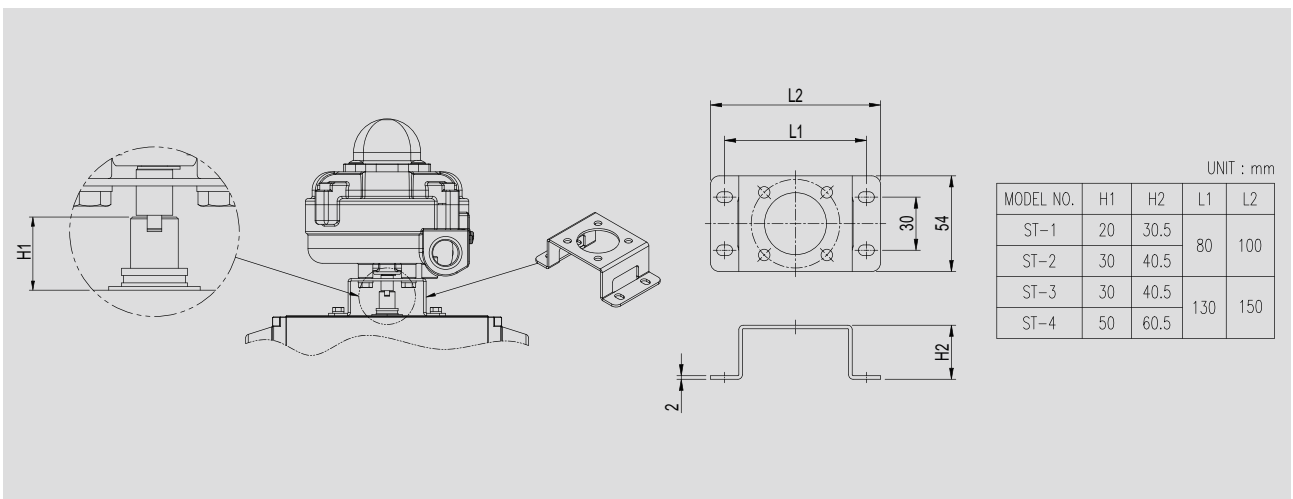
TS600L NAMUR type bracket



TS800L / TS900L / TS700L NAMUR type bracket

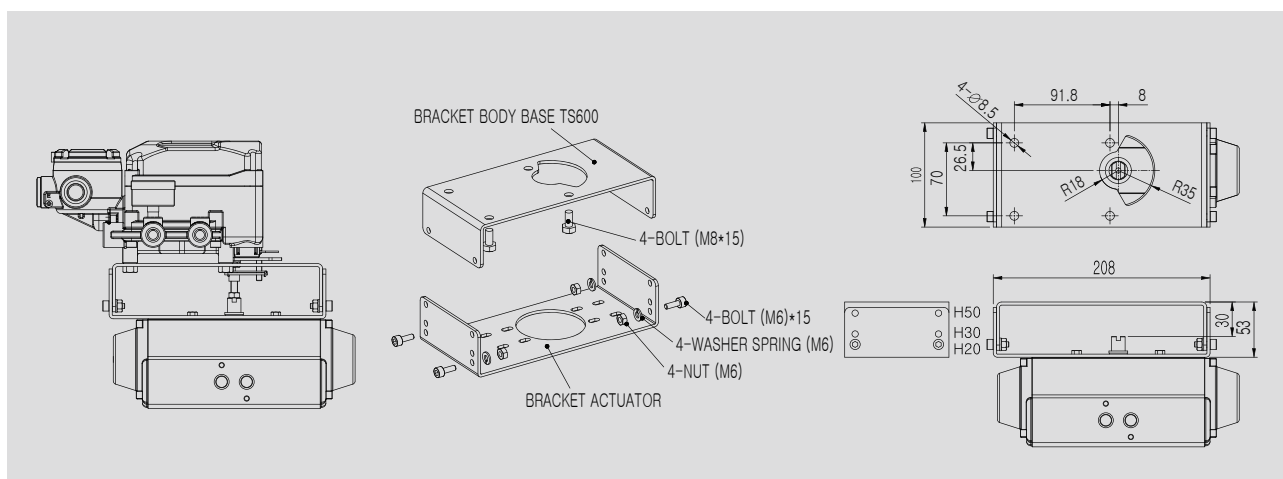


TS400 / TS410 / TS415 / TS500R / TS510R / TS515R bracket

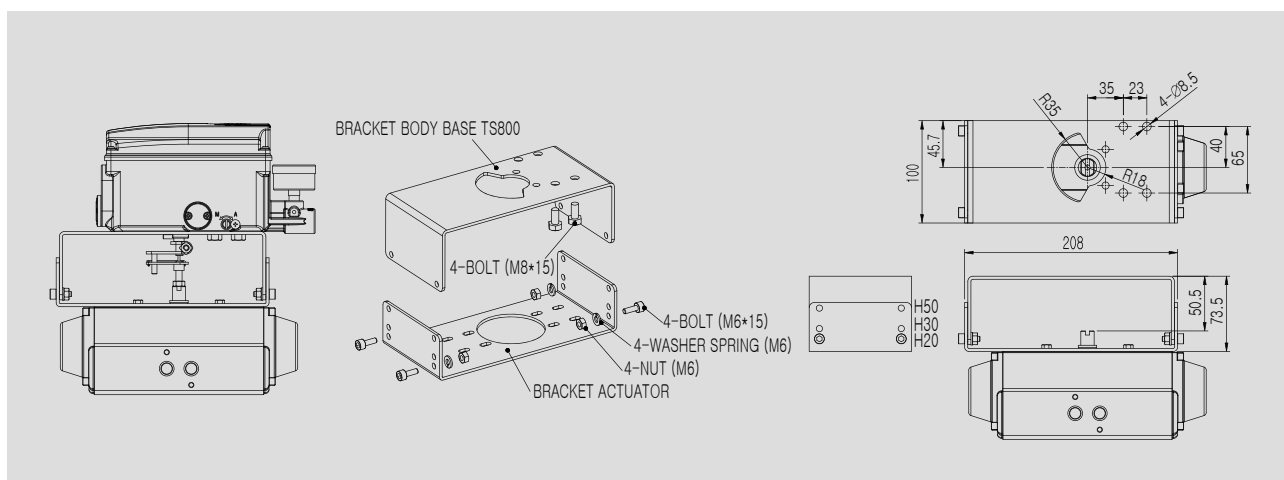


Pneumatic ACCESSORIES

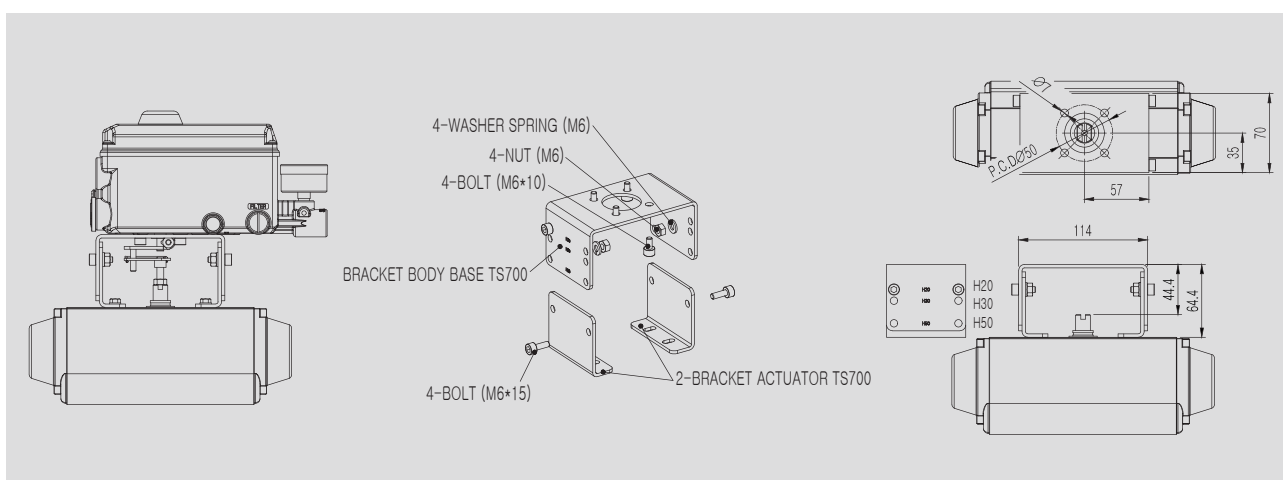
TS600R Bracket

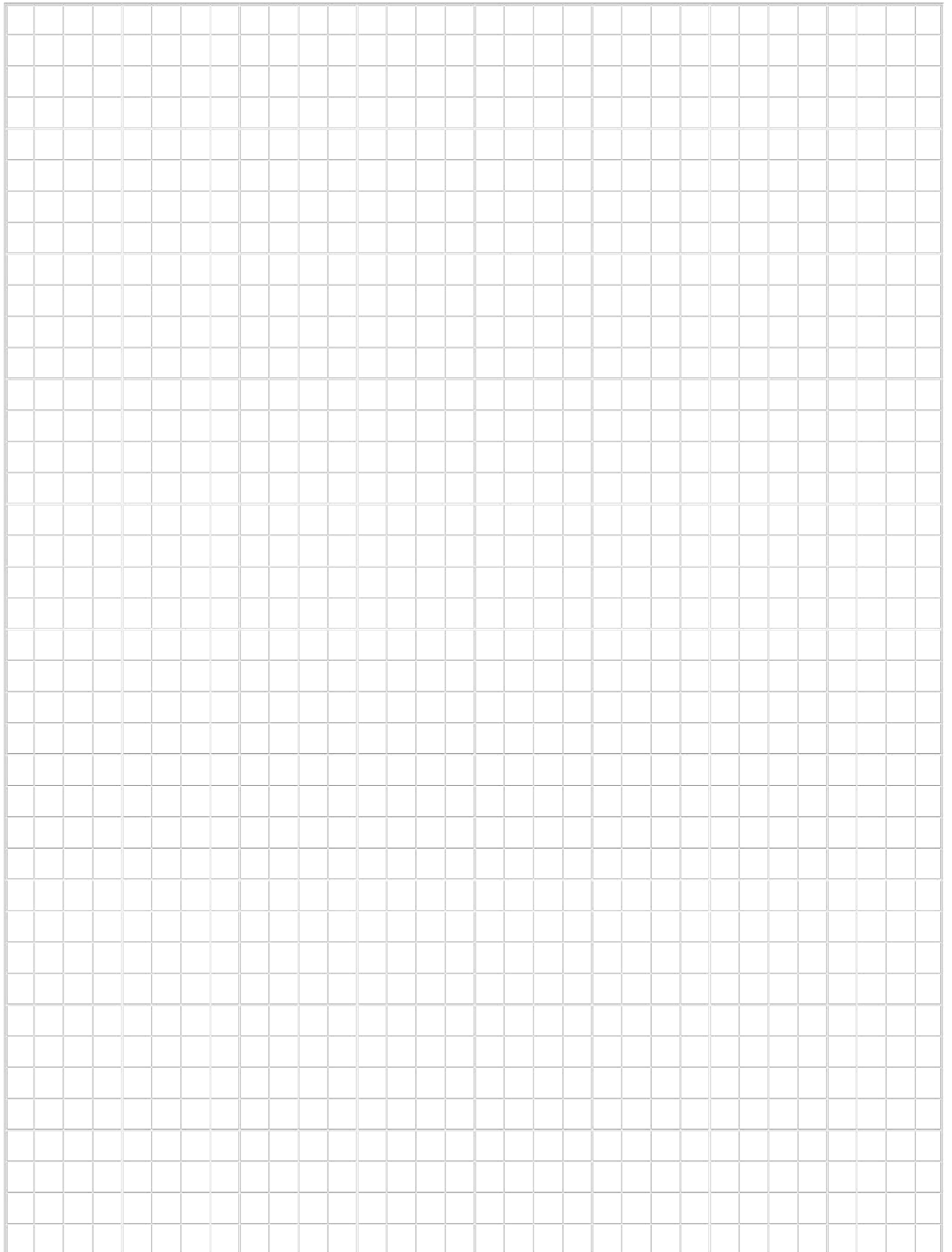


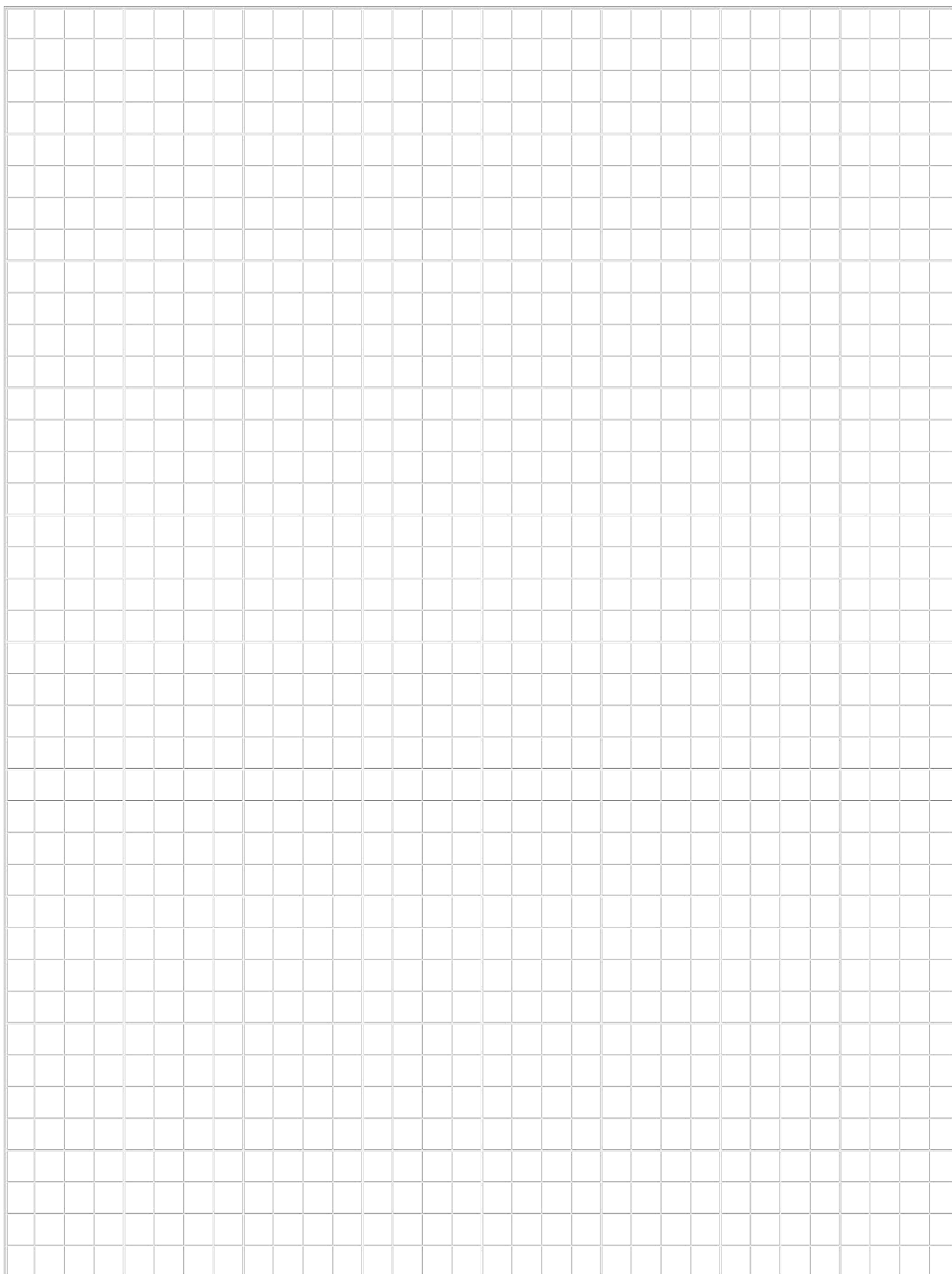
TS800R / TS900R Bracket



TS700R Bracket









Product Service Qualified Certificate

ISO 9001:2015

ISO 14001:2015

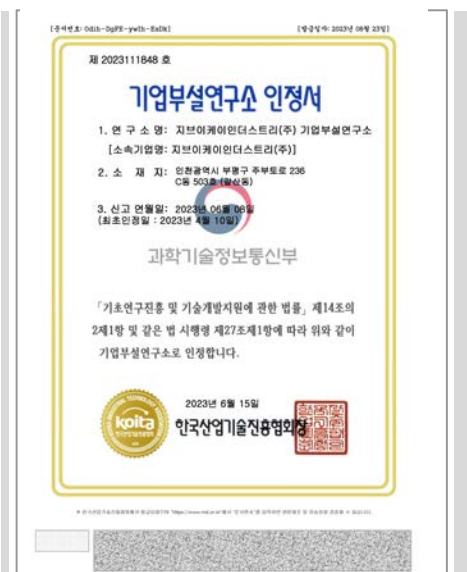
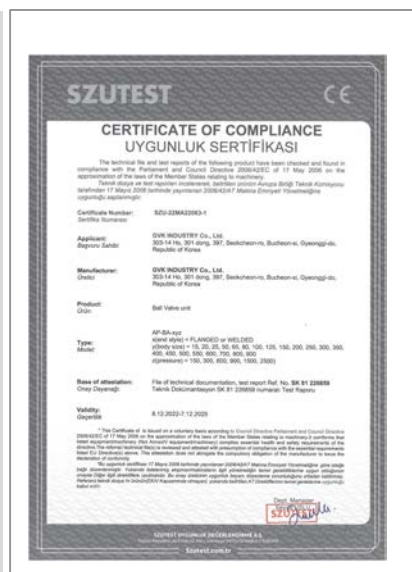
ISO 45001:2018



CE: Globe Control Valve

CE : Ball Valve

Research Institute



ASME U, PP Stemp

EAC : RUSSIA TRCU

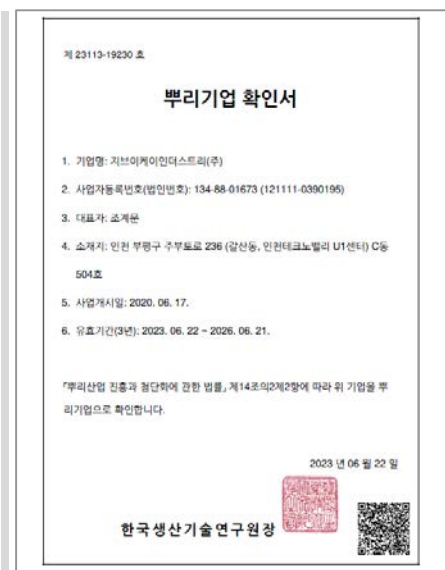
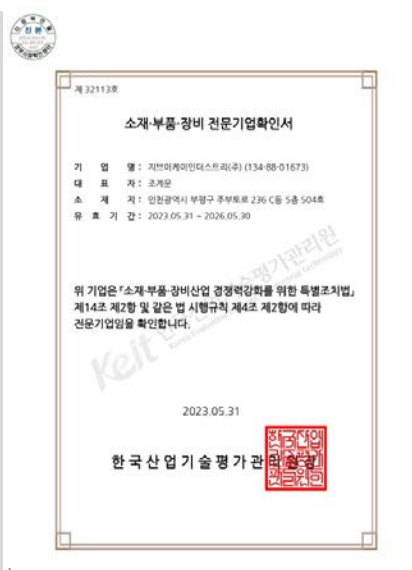
API 6D / 600 By KSM



Venture company

Material · Part · Equipment

Rooting Enterprise





GVK(TS) PNEUMATIC ACCESSORIES

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