

# Post Indicator Valve



We Offer  
Creative  
Design.

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# Welcome to Arka Sanat Pishroo

Our dreams is build a new generation of high quality design and development with professional skills and efficiency technology in firefighting and fire alarm systems.

Arka Sanat is specialized in designing, manufacturing and installation Firefighting and Fire Alarm systems. When it comes to fire safety and extinguishing solutions, reliability is essential. Therefore, Arka Sanat exclusively cooperates with internationally acknowledged partners.

Arka Sanat with his brand that name is "Trust" has multiple experiences of consulting and performing in national industries of Oil and Gas, Petrochemical, Refinery, Mining, Municipality, Airport, Fire department, Administrative and Commercial centers.


However Arka Sanat offers a lot more than products and services. By all means, we are involved during the complete project and the final commissioning to finish every project successfully.


## Why Choose Us?


Our strong sense of identification with client projects means that we are constantly striving to provide solutions, even for issues they aren't yet aware of. To this end, we adopt a progressive approach to technology and marketing techniques.

This sense of identification also means we value and promote seamless interaction with clients' own teams, and ensure the best value is obtained from their event budget.

We love what we do, some might say a bit too much & we bring enthusiasm and commitment to every project we work on.


 Focus on quality

 Great company value

 Quick response

 20 years of experiences

 Passionate team

 Professional



## Our Best Services

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Today, The Arka Sanat provides Fire Safety Systems with integrated solutions for any fire protection challenge. The Arka Sanat profession focuses on Designing and Construction a wide variety of safety equipment to human health and safety in the workplace. Rely on Arka Sanat to deliver:



### Design & Engineering

Arka Sanat engineering services leverage the cross-functional group of experts at RK to deliver creative, accurate solutions to complicated challenges in a shorter period of time.



### Procurement

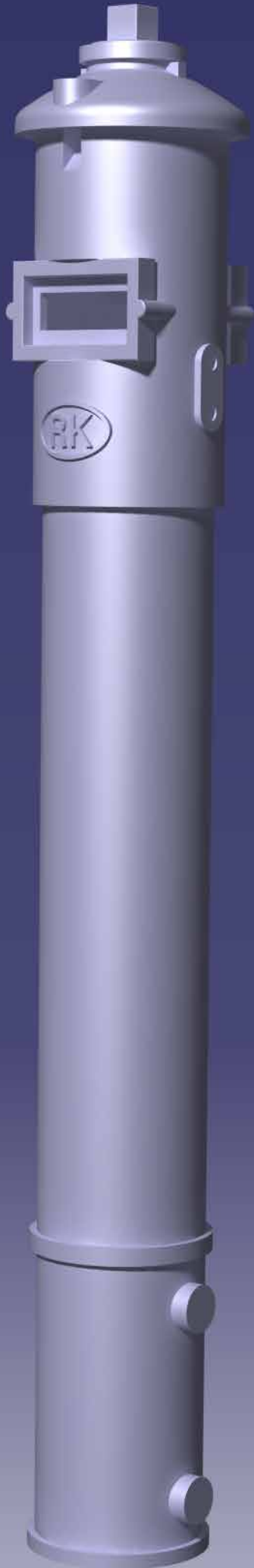
Making the details come together is critical to a projects success. Our team works with suppliers to negotiate competitive pricing, delivery expectations, logistics, and administrative details. They also work closely with project management to assure all items are at the site when needed in good condition.



### Construction

Arka Sanat provides predictable and reliable service for firefighting and Fire Alarm Systems. we offer accountability for results. Safety was the driving force behind the decision to start our company, and it remains a crucial factor on every construction project.





# About Our Products

We are a professional and solid company team who works with passion and skills to provide the best design for business needed.

Arka Sanat Company will provide all parts of Post Indicator and Accessories with the highest quality, as follows:

- Lever Type Post Indicator
- Grae-Box Post Indicator
- Post Plate Valve
- NRS Valve

These are manufactured in corrosion resistant material, bronze and brass and are suitable for both onshore and offshore applications.



We can imagine that you still have some question about you own specific sication after reading this leaflet. Our callegues will be pleased to help you by making a good chance for your kind of risk.

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# Post Indicator Valve



Arka Sanat Post Indicator Valves PIV-100 series are designed to operate non-rising stem (inside screw) gate valves, which are used to control an underground water supply to automatic sprinkler, water spray deluge, fire water line, foam-water deluge, or standpipe fire protection systems. PIV permit operation of underground valves while providing an above ground useful visual indication as to whether the valves are open or shut, in addition to a means for locking the valves in a particular position. The valve posts provide for valve operation from outside of the protected property and therefore the opportunity for immediate valve operation in an emergency situation.

## Specifications:

- Indicates if the valve is in the open or shut position.
- The indicator post provides a means to operate a buried or otherwise inaccessible valve.
- The adjustment range of the indicator post is 34.5" to suit the deeper buried valve and can be easily adjusted in the field.
- The wrench handle fits over a "U" bracket on the barrel, and may be fixed with a padlock to secure the operation wrench to the barrel.
- Suitable for Valve Size: 2" to 24"
- 250 PSI maximum working pressure
- Indicator posts are extendable after installation
- Indicator posts are tapped (plugged) for control valve supervisory switch installation.





## Post Indicator Valve

Post Indicator Valve (PIV) is used to access the fire water ring, these posts are installed on NRS (Non-Rising Stem Valve), Fire post valves allow this possibility It allows you to open and close the valve on the fire line without accessing the pit, and the opening and closing of the valve is shown by the display on the indicator of post valve.

## Post Indicator Valve Size

Post Indicator Valve and Post Plate Valve are produce with sizes from 2 inches to 24 inches.

Arka Sanat Company produces its indicators with cast iron and carbon steel telescopically up to 24 inches, which allows to adjust the height and depth of the post indicator valve.

## Types of Post Indicator Valve

Arka Sanat company produces all kinds of post indicators and according to below codes, post plates for firefighting valve and these valves are made in two models; casting body and welding body:

- Cast iron body Post Indicator Valve with manual lever type actuator with model number: RK-PIV-120
- Carbon steel welded body Post Indicator Valve with manual lever type actuator with model number: RK-PIV-121
- Cast iron body Post Indicator Valve with gearbox type actuator with model number: RK-PIV-220
- Carbon steel welded body Post Indicator Valve with gearbox type actuator with model number: RK-PIV-221
- Carbon steel welded body Post Plate Valve with manual lever type actuator with model number: RK-PIV-321





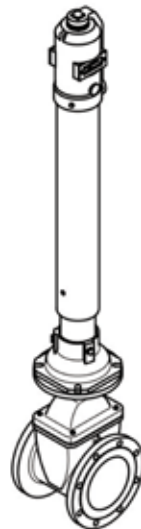
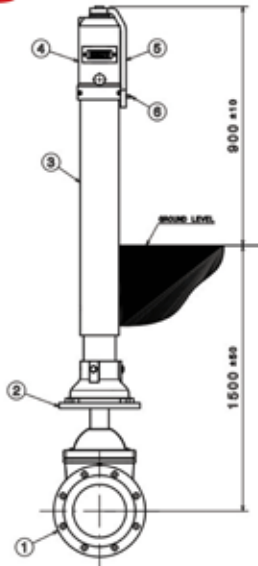
پست ایندیکاتور ولو آتش نشانی  
شیر نشانگر یا شیر ایستگاهی آتش نشانی

آرکا صنعت پیشرو



Model Number: RK - PIV - 120

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Firefighting & Fire Alarm Systems



Post Indicator Valve 6"

- Indicator with OPEN/SHUT Window
- Operation: Wrench
- Non Rising Stem Gate Valve
- Connection: Flanged ASME B16.5 #150 RF 6"
- Working Pressure: 10 Bar
- Design Pressure Pressure: 16 Bar
- Test Pressure: 24 Bar

Painting:

- First Layer: Zinc Rich Epoxy 80,μ
- Intermediate Coats: Polyamide Cured Epoxy 2x50,μ
- Finish Coat: Polyurethane Red RAL 3000 40,μ

Parts List			
ITEM	QTY	PART NAME	MATERIAL
01	1	NRS Gate Valve 6" - ASME B 16.5 Flange Raise Face	Ductile Iron
02	1	Past Plate	Ductile Iron
03	1	Adjustable Body	Ductile Iron
04	1	Indicator Body with Open/Shut Window	Ductile Iron
05	1	Actuator Wrench	Ductile Iron
06	1	Wrench Lug	Carbon Steel
07	1	Indicator Nut	Ductile Iron
08	1	Post Indicator Stem	Carbon Steel
09	1	Stem Link	Carbon Steel
10	1	Actuator Nut	Ductile Iron
11	1	Pentagon	Gunmetal

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Firefighting & Fire Alarm Systems

MODEL No.: RK - PIV - 120

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پست ایندیکاتور ولو آتش نشانی  
شیر نشانگر یا شیر ایستگاهی  
با شیر کیت برنزی



آرکا صنعت پیشرو



## Components of Post Indicator Valve

Post indicator valves are generally divided in two parts: the main valve and the post that is mounted on the valve and other components are detailed as follows:

- Main Valve
- Indicator Post Body
- Stem and main shaft
- Valve open and closed display
- Shaft interface with bolts and nuts
- Telescopic to increase and decrease height
- Interior mechanism of gears to transfer the open and closed position of the valve to the display
- Special wrench with lock or gearbox



Model No.: RK - PIV - 120





## Post Indicator Valve Application

Post Indicator Valves are used to fire water under-ground ring as a isolation valve, and this allows us to have quick access to cut off and connect the fire water flow, the most common uses of post indicator valves are as follows:

- At the entrance, exit and separation of fire water zones
- At the entrance of firefighting water to hydrants
- In places where the underground fire ring is divided into several parts.
- In places where the underground fire water ring is closed loop.
- Before the places where there is a possibility of damage to the underground fire network.



## Post Indicator Valve Advantages

In previous years, gate valves inside the pit were used to isolate fire water flow of underground firefighting networks, so that there were places a concrete or metal pit was previously installed along the firefighting network to install isolation valve placed inside them.

but with the design of post indicator valves, it was no longer necessary to implement a pit, and the post valve was installed directly in fire network line and its surroundings are filled with soil or sand, because these valves have the ability to turn-on/turn-off water flow and even show the opening and closing of the valve, so station valves have the following advantages :

- DON'T need to install a pit in the network of firefighting underground lines (firefighting ring)
- The possibility of disconnecting/connecting the fire water flow from the post indicator.
- It is possible to know and display whether the valve is open or closed.
- Having a dedicated lock for security and non-technical personnel intervention to open/close the valve.
- It has telescopic capability and the possibility of increasing/decreasing the height and depth.





It is better to fail in originality than to succeed in imitation

## Gear-Box Type Post Indicator

Our range of vertical indicator posts with built-in gear drive is specially designed to fit our Non-Rising Stem gate valves (NRS) and reduces the level of torque required to open and close the valve.

Specifically designed to easily operate large valves from 14" to 24" (#150 and #300).

It can be easily adapted in the field, during installation.

*Model No.: RK-PIV-220*





## Post Plate Valve

Post Plate Valve same as post indicator valve with resilient Wedge Gate Valves and Indicator Post Flange have Triple O-ring Seals, Non-Rising Stems with a 2" square Wrench Nut and are available with several different end combinations. These are used as line valves posts and as auxiliary valves with fire hydrants. An Indicator Post is attached to the valve to indicate if buried valve is open or closed. The Indicator Post Flange and O-ring Stuffing box combination is a separate part from the bonnet, and is easily removed or replaced if the need should occur.

### Material Description:

Opening Nut: Bronze ASTMB62 C83600  
 Window Glass: Lexan-Un Stabilized  
 Hex Capscrew, Nut: C.S.ASTMA307B  
 Locking Wrench: Cast Iron  
 Body: Carbon Steel  
 Stem Square: AISI A410  
 Screw: Dichromate  
 Standpipe: C.S. ASTMA53  
 Dust Sealing: NBR  
 Gland Gasket: Graphite  
 Key: Carbon Steel  
 Housing Cover: C.1ASTMA126 Class B  
 Gasket: NBR, PTFE  
 Gear Stem: SS304  
 O-Ring: NBR  
 Eye Bolt: C.S.ASTMA307B  
 Clasp Ring: Bronze  
 Bonnet: DI.ASTMA536.GR.65-45-12  
 Stem Nut: Bronze  
 Wedge Disc: DI.ASTMA536.GR.65-45-12+EPDM





**“A satisfied  
customer**

**is the best business  
strategy of all”**



Every client is unique, every situation is different. Practices turn to Arka Sanat for lots of reasons. But, in most cases, it distills down to a single word: Trust.

- Trust in our experience.
- Trust in our solutions.
- Trust in our results.

## Contact Us

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