

Fire Hydrant & Landing Valve



We Offer
Creative
Design.

Document No.: RK-CAT-02-01 / 2022



Welcome to Arka Sanat Pishro

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

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.





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

About Our Products

Arka Sanat Company will provide all parts of Hose Box & Accessories with the highest quality, as follows:

- Dry Barrel Hydrant
- Wet Barrel Hydrant
- Spicial Hydrant
- Gound Hydrant
- Landing Valve:

Straight Globe Valve

Bibnose Globe Valve

Pressure Regulation Globe Valve

Gate Valve

OS&Y Gate Valve

Globe Angle 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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Fire Hydrants



Fire hydrants work by tapping into a pressurized system. Firefighters fasten a hose to nozzles on the hydrant and pump water with varying water flow volumes.

A Hydrant system is basically water distribution network backed by a number of components & accessories like fire pumps, piping system, water tank etc.

Hydrant Fire Protection System is designed to fight fire of huge proportions, in all classes of risks. Hydrant valves are located at strategic points. These work as outlets of water through the fire Hose.

Application of Fire Hydrant Systems as follow: Buildings, Large Warehouses, Chemicals Industry, Textile & Garment Industry, Petrochemicals & Refineries, Ceramics & Stone Processing, Metal Processing, Manufacturing Units.

A fire hydrant is a device connected to a pressurized water supply designated to supply water for firefighting during all phases of the fire. It has a column shape which emerges from below the ground level, allowing above ground connection of equipment for firefighting purposes. Check our fire hydrant below and don't hesitate to contact us for more details.

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Model No.: RK - HYD - 614112

Type of Hydrants



Dry Barrel Hydrant



Wet Barrel Hydrant



Spicial Hydrant



Gound Hydrant

Two types of fire hydrants are generally in use today. The most common is the base valve or dry barrel, in which the assembly controlling the water supply from municipal water system pipes is below the frost line between the foot valve and the barrel of the fire hydrant. The barrel on this type of fire hydrant is normally dry, with water being admitted only when there is a fire or when the hydrant is flow tested; other uses of this fire hydrant are discouraged. A drain valve at the base of the barrel is open when the main valve is closed, thus allowing residual water in the barrel of the hydrant to drain out. This type of fire hydrant needs to be installed whenever there is a chance the temperature will go below freezing, because the valve assembly and water supply are installed below the frost line determined from climatic conditions.

The second type of basic fire hydrant is the wet-barrel type which is normally limited to the southern and western States where protracted freezing is most unlikely; temperatures inside the hydrant barrel must remain above freezing at all times. This type of fire hydrant usually has a compression valve at each outlet, but they may have another valve in the bonnet that controls the water flow to each of the hose outlets.

- Dry Barrel Hydrant
- Wet Barrel Hydrant
- Spicial Hydrant
- Gound Hydrant

Model No.: RK - HYD - 613220

Dry Barrel Hydrants



Dry hydrants are pipes permanently installed within a static water source, such as a pond, stream, river, or holding tank. Artificially created water sources use tanks constructed of fiberglass, concrete, or other materials.

Another type of artificial water source may be combined with natural water sources, such as creating a pond in a stream by constructing a temporary dam. A pond makes drafting from a small stream feasible. Natural water sources provide an almost inexhaustible water supply, but they are susceptible to weather and geological conditions. Artificial water sources are not affected by these conditions, but they contain a limited amount of water.

Among the considerations when installing dry hydrants for natural water sources are accessibility to the dry hydrant, pumper capacity, elevation above sea level, water vapor pressure, and static lift. Pipe installation factors include the type of pipe, horizontal length, vertical length, the number and type of elbows, the strainer, and any reducers, as well as whether standard hydrants will be used.

The main valve in a dry barrel hydrant sits at the hydrant's base. The water line is entirely subterranean, below the frost line, and adjacent to the main valve. When the valve opens, the barrel pressurizes and fills; firefighters can then pump water through the hooked-up hose. When they close the hydrant's valve after they put a fire out, the barrel drains. Because no water stays within the hydrant, there's no risk of freezing.



Dry Barrel Hydrants, Three Outlet



Dry-Top Design:

Arka Sanat Co.'s unique, self-oiling dry-top design provides automatic, positive lubrication for easy operation, even after years of service. Lubricant is forced over all stem threads and bearing surfaces in the operating mechanism each time the hydrant is operated. Dual O-ring seals prevent lubricant loss during shipping, storage, and installation to keep water away from the stem threads and bearing surfaces when the hydrant is in use. An anti-friction washer and automatic lubrication of the thrust collar add to easy operation.



Dry Barrel Hydrants, Four Outlet

Description of Dry Barrel Hydrants

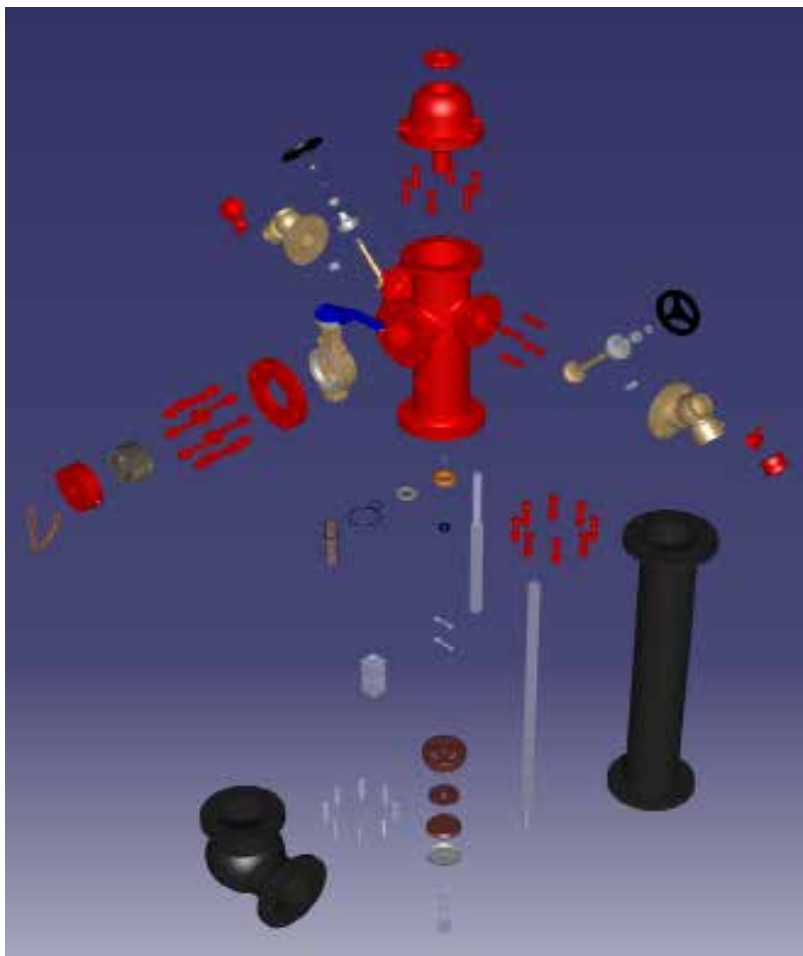


- 1. Hold-down nut:** Features an integral washer seal.
- 2. Anti-friction washer:** Helps assure easy operation over the life of the hydrant.
- 3. Oil filler plug:** Permits visual check of oil level. Allows addition of oil without removing bonnet.
- 4. Sealed oil reservoir:** O-ring sealed to prevent leakage. Lubricant is forced over stem threads bearing surfaces each time hydrant is operated.
- 5. Dual O-ring seals:** Seal in lubricant and seal out water.
- 6. Field-replaceable hose & pumper nozzles:** O-ring sealed, threaded in place, and retained by stainless steel locks. Mueller Storz-style pumper nozzle available.
- 7. Full-flow openings:** Large, smooth radius hose & pumper openings reduce friction loss.
- 8. Heavy-duty non-kinking chains:** Special chain loop permits free turning of cap.
- 9. Stainless steel safety stem coupling:** Provides a tight, corrosion resistant connection during normal operation. Hits hydrant, coupling breaks cleanly, preventing stem or main valve damage. Designed so a tire cannot depress the stem and open main valve.
- 10. Safety flange:** Breaks cleanly to help prevent barrel damage, but strong enough for normal handling. Allows economical repair, adding of extension section, and rotation or changing of upper barrel without excavation.
- 11. Drain valve facings:** Specially designed, long-life polymer facings provide effective seal.
- 12. Bronze upper valve plate:** Conical design reduces turbulence.
- 13. Bronze seat ring:** Threaded into bronze drain ring and O-ring sealed. Can be removed or installed from above ground. Double drain valves are flushed each time the main valve is opened or closed. Bronze drain valves are integral parts of main valve assembly.
- 14. Reversible, compression-type main valve:** Closes with pressure for positive seal. Rubber material has long service life, is reversible, providing a convenient spare in place.
- 15. Cap nut:** Retains main valve. Sealed by cap nut gasket to prevent corrosion of stem threads. Locked in place by a stainless steel lock washer. Epoxy coated to resist corrosion.
- 16. O-ring flange seals:** Superior pressure handling, easier disassembly & maintenance.



Performance and longevity are the real tests of a fire hydrant. Superior flow characteristics, easy operation, and maintenance and life-extending features are among the benefits of installing a Arka Sanat's fire hydrant.

- Epoxy coatings inside and out, top to bottom to resist the ravages of time and the environment. Upper section polyurethane enamel topcoat has superior UV resistance for extended gloss and color retention.
- 250psig working pressure and 500psig test pressure; 350psig working pressure option available.
- Reliable safety coupling and flange design reduces traffic damage. Convenient replacement kit available.
- Efficient hydraulic design provides maximum flow.
- Threaded-in hose and pumper nozzles are field replaceable.
- Automatic, forced oil lubrication each time it's operated and anti-friction washers ease operation.
- Reversible main valve provides a convenient replacement 'in-place' if ever needed.
- Main valve is easily removed from the bonnet flange or ground line flange.
- AWWA C502 compliant



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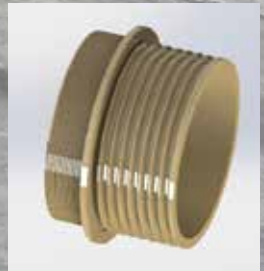
Arka Sanat Co. has built its reputation on producing innovative water distribution products of superior quality – a reputation that is literally “on the line” every day throughout the world. Our products and those of its affiliates are used throughout the water system from the source to the consumer. And we are committed to continuing research and development of new products and services to meet the growing needs of the water infrastructure industry.





Hose & Pumper Nozzles:

Hose and pumper nozzles are threaded-in for easy field replacement if damaged, or for changeover to different thread style. A special locking method makes installation simple and secure. The nozzles can be faced in any direction by loosening the safety flange bolts and rotating the upper barrel assembly.







Model No.: RK - HYD - 613110

Wet Barrel Hydrants

Wet-barrel hydrants operate similarly to dry barrel hydrants; however, the main valve is located at the top of the barrel, and the barrel is constantly filled with water. Manufacturers intend wet-barrel hydrants only be used in climates where temperatures never drops below 0 °C since they are always charged with water.

Easy-to-access outlet valves and nozzles work independently so that firefighters can add more discharge lines without causing the hydrant to shut down.

All of these convenient above-ground aspects of wet barrel hydrants also make them susceptible to frost.

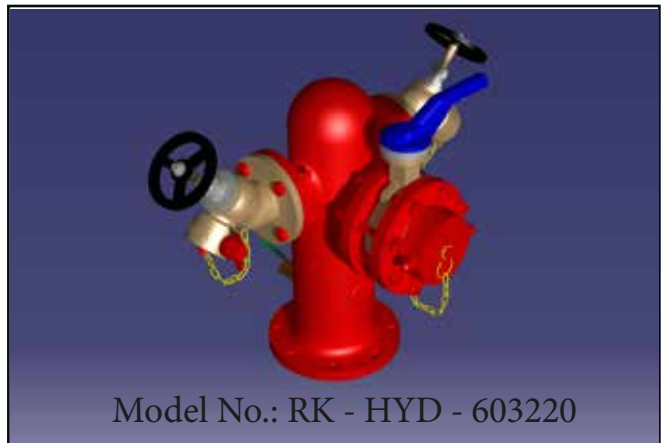
Arka Sanat producer many type of wet hydrants. you can find main specification in below items:

Type:

- 4 Way (with fire monitor connection)
- 3 Way (without fire monitor connection)
- Size: 2 1/2" , 3" , 4" , 6" , 8"
- According to Standards: AWWA C503, NFPA
- 24, BS 336
- Finish: Red RAL 3000

Body Material:

- Ductile Iron
- Cast Iron
- Carbon Steel
- Gunmetal
- Cooper Nickel



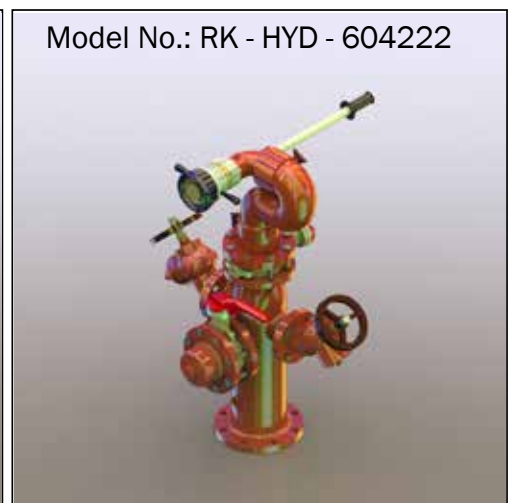
Wet Barrel Hydrants, Two Outlet



Wet Barrel Hydrants, Three Outlet



Wet Barrel Hydrants, Four Outlet





Inlet Connecon:

- SME B16.5 #150 Flange 6"

Outlet Connecon:

- No. Monitor Connecon 4" (4 Way)
- No. Pumper Connecon 4" or 5 1/2"
- No. Quick Coupling BS 336 2 1/2"

Working Pressure:

- Operating Pressure: 10 to 13 barg.
- Design Pressure: 16 to 18 barg.
- Test Pressure: 24 barg.

Accessories:

- Auto Drain Ball Valve
- Bib Nose Globe Valve, Gate Valve or Pressure Regulating Valve
- Cap and Stainless Steel Chain
- Buerfly Valve
- Pumper Connection

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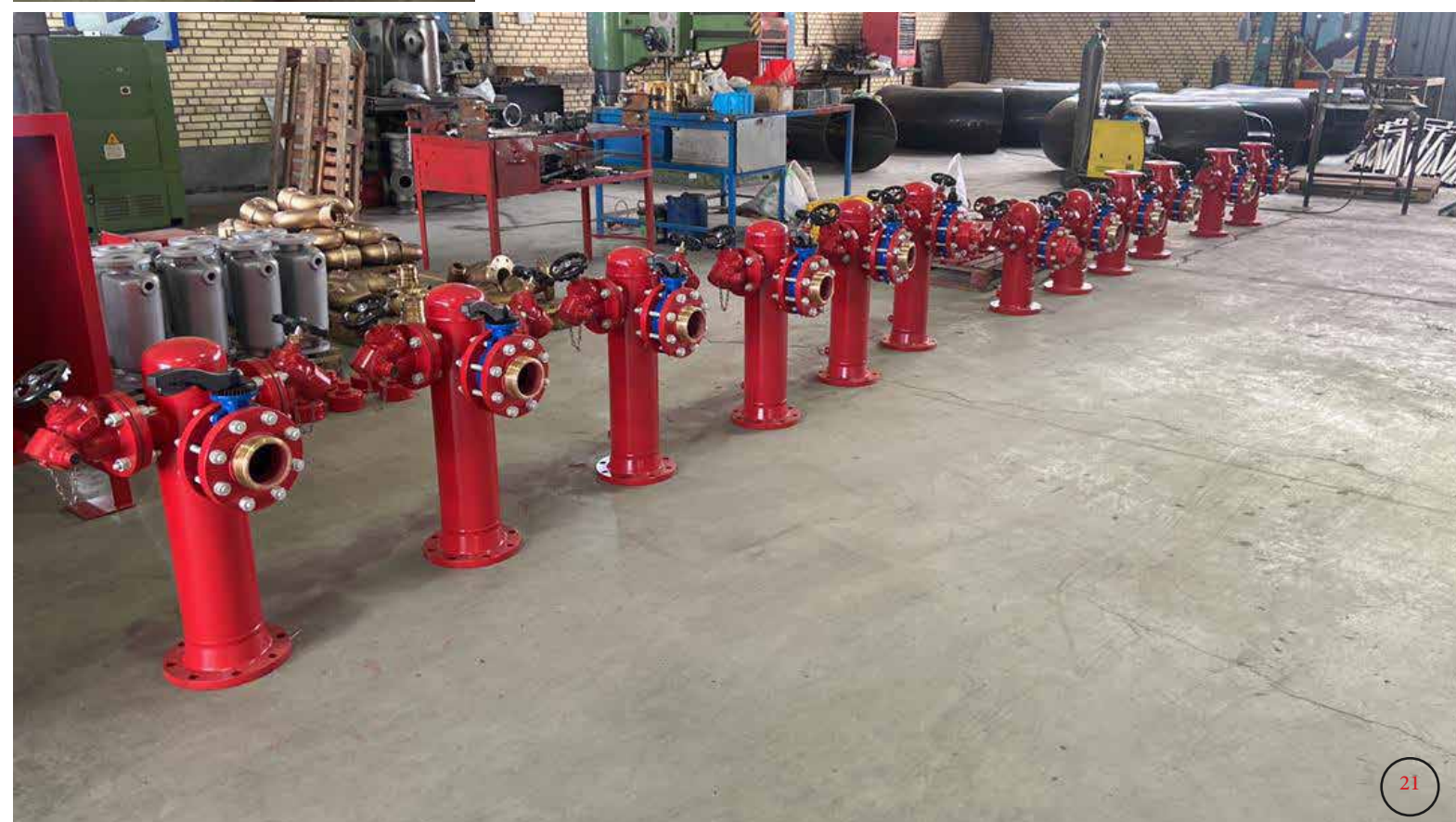
or call our Customer Service at:

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



Landing Valve

Landing valve is designed to be installed on wet risers in buildings for fire fighting purposes. It is an important source of water which is crucial for fighting fires on any level of your building. They are installed on hydrants, a branch and hose is connected to a coupling on it. By rotating the wet riser landing valve handle anti-clockwise, you can simply activate the water flux in the fire hydrant system.

Arka Sanat provides fire hydrant landing valves in BSI/ FM approved.

- Oblique type
- Right-angle type
- Pressure regulating
- Horizontal type
- Bib-nosed type

Globe Valve 2 1/2" Angle 180



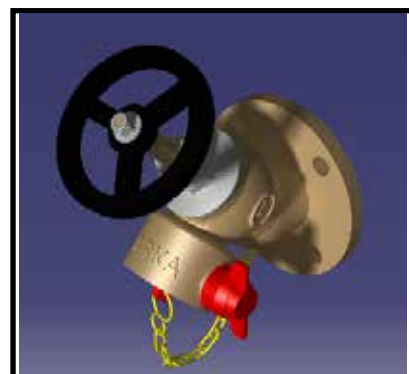
Model No.: RK - LAN - 101

Globe Valve 2 1/2" Angle 90



Model No.: RK - LAN - 201

Bibnose 2 1/2"



Model No.: RK - LAN - 301

Specification:

- Standard: BS 5041-1
- Connection: Flanged/ Threaded
- Body: Copper alloy, T≥3mm
- Handwheel: Cast iron/ aluminium alloy
- Test: 22.5 bar
- Surface: Rough copper/ red or yellow paint

Pressure Regulating Globe Valve:

These valves can be used in high-rise buildings to ensure the pressure will remain constant irrespective of location. The Arka PRV's can also be used in ring mains where normal pressure may exceed the safe operating pressures of the portable firefighting equipment. Manufactured in corrosion resistant Gunmetal the PRV's are perfectly suited for use in marine environments.

Pressure Regulating Globe Valve



Model No.: RK - LAN - 501



Model No.: RK - LAN - 502



“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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