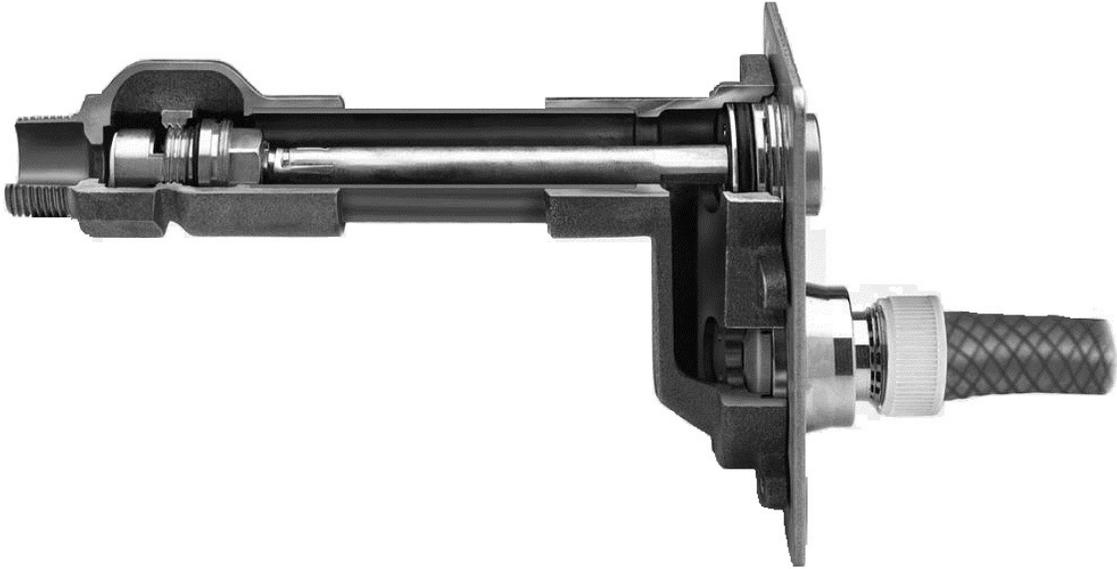




Specification Drainage Products

Hydrant & Hose Bibb Selection

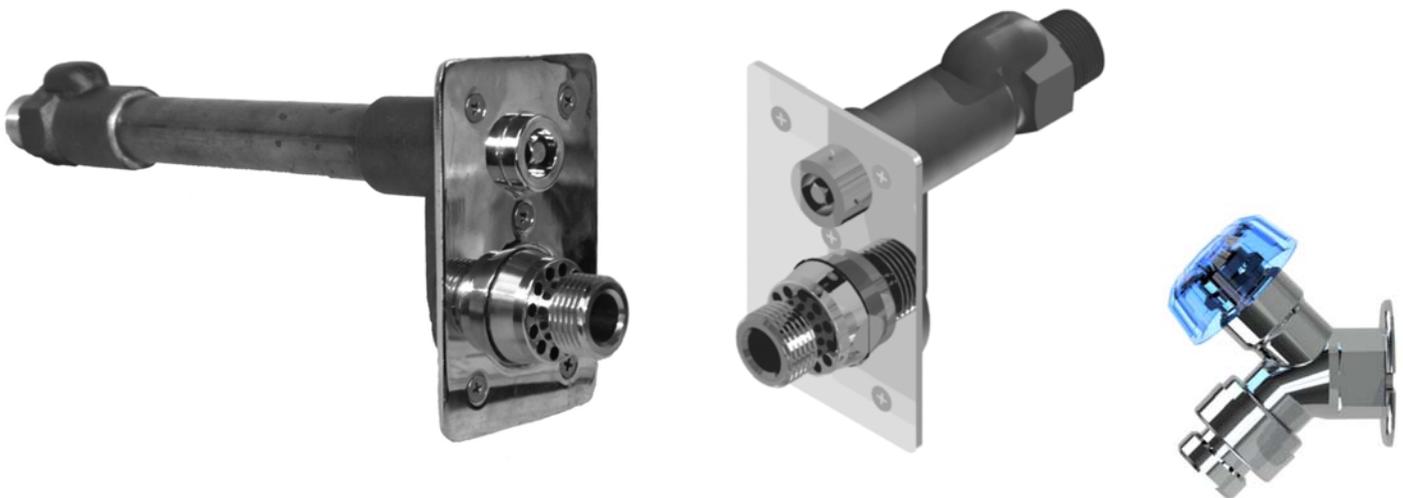


Hydrants & Hose Bibbs

- Exposed Non-Freeze Wall Hydrants (Compression Style) 8600, 8604
- Exposed Non-Freeze Wall Hydrants (Ceramic Disc Cartridge) 8601
- Exposed Mild Temperature Wall Hydrants (Compression Style) 8607
- Exposed Mild Temperature Wall Hydrants (Ceramic Disc Cartridge) 8608
- Exposed Mild Temperature Hose Bibbs (Compression Style) 8605
- Encased Non-Freeze Wall Hydrants (Compression Style) 8700, 8704
- Encased Non-Freeze Wall Hydrants (Ceramic Disc Cartridge) 8701
- Encased Dual Temperature Wall Hydrant (Compression Style) 8706
- Encased Mild Temperature Wall Hydrants (Compression Style) 8707
- Encased Mild Temperature Wall Hydrants (Ceramic Disc Cartridge) 8708
- Encased Narrow Wall Mild Temperature Wall Hydrant (Ceramic Disc Cartridge) 8709
- Encased Non-Freeze Ground Hydrants (Compression Style) 8800, 8801
- Non-Freeze Post Hydrants (Compression Style) 8900
- Non-Freeze Roof Hydrants (Compression Style) 8900-R

Application Index			
Building Type	Ground Hydrants	Wall Hydrants	
	Non-Freeze Self Draining	Non-Freeze Self Draining	Moderate Climate
Agricultural (Farms, Feed Lots)	8800,8801,8900		
Apartments		8600,8601,8604,8700,8701,8704	8605,8607,8608,8707,8708
Cleaning Areas, Slop Sinks, Garbage Can Wash	8801	8600,8601,8604,8700,8701,8704	8605,8607,8608,8707,8708
Commercial/Multi-Family—Thin Wall Construction		8706	8709
Garden Areas	8800,8801,8900	8600,8601,8604,8700,8701,8704	8605,8607,8608,8707,8708
Institutions, Hospitals, Schools		8600,8601,8604,8700,8701,8704	8605,8607,8608,8707,8708
Industrial	8800,8801,8900	8600,8601,8604,8700,8701,8704	8605,8607,8608,8707,8708
Malls	8801	8600,8601,8604,8700,8701,8704	8605,8607,8608,8707,8708
Office Buildings		8600,8601,8604,8700,8701,8704	8605,8607,8608,8707,8708
Recreational Areas & Parks	8800,8801,8900	8605,8607,8608,8707,8708	
Office Buildings		8600,8601,8604,8700,8701,8704	8605,8607,8608,8707,8708
Roofs	8900-R	8605,8607,8608,8707,8708	
Supermarkets	8801		
Stables	8800,8801,8900		

Note: Any of the Non-Freeze / Self Draining Hydrants can be used in moderate climate applications.

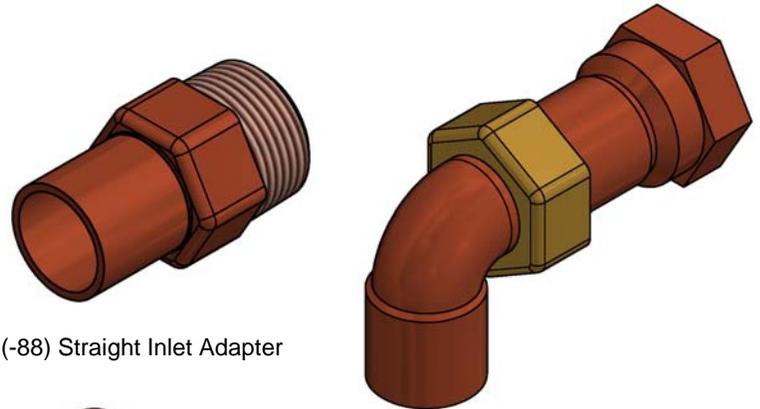


Options and Variations

All Wade hydrant options are specified as a suffix letter or number added to the series designation. Below are the available suffixes.

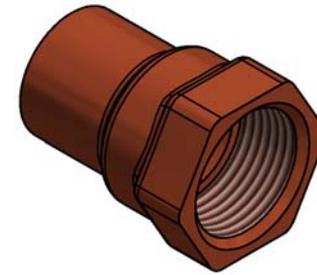
Suffix	Description
-1	Satin Finish Nickel Bronze Face
-2	Satin Finish Bronze Face
-3	Rough Bronze Face
-12	Cast Iron Box with Ductile Iron Cover
-24	Anchor Flange on Box
-26	Anchor Flange on Box with Clamp Device
-39	Galvanized Cast Iron Box and Ductile Iron Cover
-83	Special Wording or Logo on Cover
-85	Stainless Steel Face or Box
-87	Wall Clamp
-88	Straight Copper Sweat Connection
-89	Vacuum Breaker
-90	1" Hose Connection
-91	Union Elbow Connection
-92	Key Operated Cylinder Lock
-97	Galvanized Casing
-102	Chrome Plated
-109	Drilled & Tapped Hole in Hydrant Box
-128	Statuary Bronze Face or Box
-131	Wheel Handle
-135	Bronze Casing
-142	Less Backflow Preventer
-175	Hydrant Box
-234	Deep Hydrant Box
-237	Cast Stainless Steel Hydrant Box
-258	IPS x Copper Sweat 90° Elbow
-259	IPS x Copper Sweat Straight Adapter
-260	6" Diameter Core Drill Hydrant Box
-261	Mounting Brackets 16" C to C Studs
-262	Mounting Brackets 24" C to C Studs
-263	Cast Iron Hydrant Box
-270	Less Hydrant Box
-275	Straight Inlet Adapter 3/4" MIPT x 3/4" CS
-277	Union Elbow Assembly 3/4" FIPT x 3/4" CS
-278	Union Elbow Assembly 3/4" MIPT x 3/4" CS
-279	Union Elbow Assembly 1" MIPT x 1" CS
-288	Straight Inlet Adapter 1" MIPT x 3/4" CS
-289	Straight Inlet Adapter 1" FIPT x 3/4" CS
-290	Straight Inlet Adapter 3/4" FIPT x 1" CS
-RC	Rough Chrome Plated
-PC	Polished Chrome Plated

Suffix	Description
-CRT12	12" Long Cartridge Replacement Tool
-CRT24	24" Long Cartridge Replacement Tool
-CRT36	36" Long Cartridge Replacement Tool
-HDR25	Replacement Hydrant Rod (1/4" Dia.)
-HDR38	Replacement Hydrant Rod (3/8" Dia.)
-WHRK	Repair Kit
-WK	Repair Kit

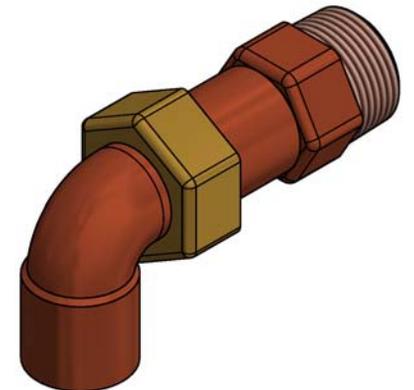


(-88) Straight Inlet Adapter

(-277) Union Elbow Adapter



(-275) Straight Inlet Adapter



(-278) Union Elbow Adapter



(-273) Straight Inlet Adapter

Definitions of Common Terms

ANTI-SIPHON

Feature in hydrants that protects against back siphonage. It is recommended that hose be disconnected from hydrant after use.

BACKFLOW

Most Wade hydrants are equipped with a backflow preventer. This device is designed to prevent the flow of water, or other liquids, into the potable water supply from any source other than those intended.

BACK SIPHONAGE

A type of backflow caused by negative pressure in potable water supply piping. Both optional screw-on backflow preventers (vacuum breakers) and integral hydrant vacuum breakers protect against back siphonage.

MODERATE CLIMATE HYDRANTS

Hydrant that is not self-draining, nor does it have a remote shut-off, which is typically located in a wall or underground. These hydrants should only be used in areas where there is no danger of freezing.

NON-FREEZE (FROST PROOF), AUTOMATIC DRAINING HYDRANTS

Hydrants for the purpose of supplying potable water to a hose connection without danger of freezing. Hydrant allows water remaining in exposed area to drain, thus reducing the possibility of freezing and damage to the hydrant.

VACUUM BREAKER

Type of backflow preventer used in hydrants to prevent contamination of potable water supply through back pressure or back siphonage.

VARI-TEMP (Multi-Temp / Dual Temp)

Mixing hydrant that allows connection to both hot and cold supplies; thus it is used to supply tempered water.

Product Compliance

In general, Wade hydrants are designed to comply with ANSI A112.21.3M, and with ANSI/ASSE Standards.

Ceramic Disc Cartridge Features

- Low noise level.
- All brass casing for durability
- One-half turn operation.
- Capable of withstanding pressures of up to 130 psi.
- Easily Replaceable if repair is necessary.



Wade Ceramic Disk technology is available in the 8601, 87018708, and 8709 wall hydrants. These hydrant models utilize a one-piece, modular cartridge designed for years of maintenance-free use and serviceability.

Note: Each ceramic disk cartridge utilizes a one-half turn operation. This is signified by a double-arrow symbol on the front of the hydrant faceplate displaying the words "1/2 Turn." The operating coupling should operate with very little resistance and should not be subjected to extreme torques when opening and closing the hydrant. Overtightening the operating coupling does not affect the shut-off of the hydrant and may result in damage of the operating rod or the ceramic cartridge assembly. Should there ever be a need to replace the ceramic cartridge assembly, a removal tool can be provided to assist in any necessary repairs. The removal tool is available in three different lengths to accommodate various wall thicknesses.

Up to 12" wall thickness – order Part Number CRT12

12" to 24" wall thickness – order Part Number CRT24

Up to 36" wall thickness – order Part Number CRT36

MATERIALS & FINISHES

Cast Iron: Conforms to ASTM specification for Gray Iron Castings A-48-83, Class 20 or 25. It is a relatively high silicon iron with a high degree of strength and corrosion resistance.

Ductile Iron: Conforms to ASTM specification A 536-84 Grade 60-45-10. This nodular iron material has corrosion resistance superior to that of gray iron and exhibits remarkable stress qualities with yield factors in the same range as cast carbon steel and also maintaining the ability to absorb shock loading. This material is excellent where heavy duty service is a requirement.

Properties of Ductile Iron Versus Cast Iron

Material	Cast Iron	Ductile Iron
Specification	Class 25	60-45-10
Tensile Strength (PSI)	25/30,000	60/80,000
Yield Strength (PSI)	NIL	45/60,000
Elongation	NIL	10% to 25%
Modules of Elasticity	16 x 10	24 x 10

Wade CI/DI Coatings: Cast iron and ductile iron coatings are normally furnished with a specially formulated enamel paint designed to resist cracking and chipping plus offering a high resistance to rusting.

A.R. Acid Resistant Coating: is a common baked-on powder coating which produces a smooth, hard, high gloss finish. The epoxy based coating offers high impact resistance and excellent life in drainage applications. Wade A.R. coating conforms to the requirements of FDA regulation 21-CFR5 117.1360.

A.R.C. Acid Resistant Coating from Wade is typically furnished in a high build aliphatic hybrid – trade named ArmorClad. It is an industrial abrasion - chemical - impact - moisture—UV resistant sanitary finish engineered for use on critical surfaces in harsh environments. A two component no-voc formulation delivers optimal performance in very cold or hot climates. ArmorClad is dielectric (non-conductive) so there is no potential reaction with the earth’s elements. Because of its’s dielectric properties, performance is exceptional in all forms of corrosive elements that may be present in underground environments. Because it is non-sacrificial, the finish insulates metallic products from corrosive elements including salt spray. A 100% solids characteristic helps to ensure a complete barrier is formed for protection. The aliphatic hybrid content of ArmorClad provides UV resistance well beyond what aromatic coatings can offer. Accelerated UV Aging test over extended time are ongoing to qualify the significant improvements. Available in Gray.

A.R.E. (Porcelain): Acid resisting Porcelain Enamel is a substantially vitreous or glassy inorganic coating bonded to metal by fusion at temperatures in excess of 800°F. This exclusive

coating is normally supplied on floor sinks. A.R.E. porcelain is extremely hard, offers unmatched sanitation properties and is acid, abrasion and wear resistant. Conforms to F.D.A (Food and Drug Administration) Regulation 21-CFR5 117.1360.

Aluminum: Castings are Grade 319, which is an alloy containing both silicon and copper. It is a solid cast material with a light gray appearance. The light weight coupled with its exceptional strength and corrosion resistance, makes Wade aluminum castings ideal for drain components such as sediment buckets and strainers.

Bronze: This is a semi-red brass conforming to ASTM Specification for Copper Alloy Sand Casting, Ingot No.84400 or 83600. Exposed surfaces for products designated Satin Bronze are furnished with a sheen texture which allows it to blend unobtrusively with surrounding finishes. When required, this material can be furnished polished to a high gloss.

Chrome Plating: Chrome plating is more reflective (brighter), bluer (less pale), and more spectacular than other finishes. Chrome is applied by electroplating. Our process is decorative chrome plating, sometimes called nickel-chrome plating because it involves electroplating nickel onto the object before plating the chrome. The nickel plating provides the smoothness, much of the corrosion resistance, and most of the reflectivity. The chrome plating is exceptionally thin and the product surfaces are highly polished before the electroplating is applied. This finish is not recommended for areas subjected to traffic because abrasion will eventually wear through and cause peeling. It should always be specified for swimming pool applications for resistance to chemicals encountered in the pool maintenance.

Galvanized: This is a process of applying a heavy zinc coating to a thoroughly cleaned cast iron or ductile iron casting. This coating contains 95% zinc in a thermal process and is recommended wherever discoloration caused by oxidation of cast iron is objectionable, or in costal or industrial areas where corrosive atmospheres are present. This coating meets or exceeds Federal specification MIL-P-21035, MIL-P-26915A, MIL-P-26433 and MIL-C-10578 (Type II). It also meets ASTM specification A239-89.

Nickel Bronze: This unique material is ideally suited for high traffic finished floor areas. It offers higher strength, better appearance and longer service life than chrome plating. The material is a copper nickel alloy 97300 or 97600. The appearance is similar to satin chrome plating, but will not chip, crack or peel off. It is highly resistant to corrosion; A slight oxidization will naturally occur over time.

Stainless Steel: For castings, Wade typically uses Type CF8 (304) which is an 18-8 Austenitic Stainless providing excellent corrosion resistance. For some applications, CF8M (316) stainless steel can be supplied when specified. For fabricated stainless steel products, Type 304 is normally provided with Type 316 as an optional material.