

Fire Protection

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Fire protection catalog

Catalog

Fire Protection

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THE FUTURE FUELS OUR GROWTH

80 t of brass machined daily, 130 thousand sqm of production plants, 900 employees, 260 million € consolidated turnover, 75% of export, branches and business partners in 18 countries worldwide: **our numbers say a lot about us, our customers' satisfaction says it all.**



In the '70s our efforts provided new integrated systems as well as components.

With the technological improvements in the '80s, we began the production of automatic control devices for heating systems.

In the final decade of XX century, we undertook continuous training activity dedicated to installers, distributors and consultants.

At the beginning of the new century we started the development of the first hydrogen boiler,

being one of the true pioneers of this innovative solutions for renewable energy. Today we challenge the sustainability, thinking out of the box to balance buildings, nature and comfort and providing efficient and comfortable residences.

Over the past 70 years Giacomini has mastered almost every type of energy, but preserved freedom of flow to the most powerful energy in existence: the future, the ultimate source that redefines our goals, innovation, and growth each day.



ACADEMY

GIACOMINI ACADEMY, A STEP TO THE FUTURE

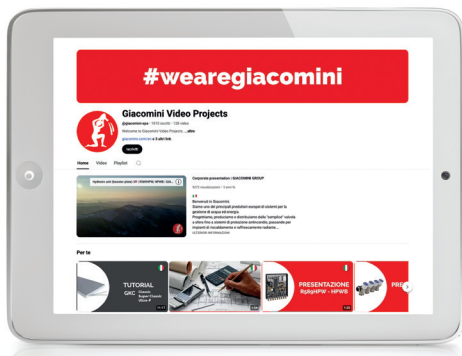
TRAINING. INNOVATION. CONFRONTATION.

In-house training to the client's advantage.

We dedicate special value to our collaborators' skills and professionalism through constant training processes that include updating courses, stages, periodical sessions of technical analysis.

This helps us provide a highly-qualified service to our clients. **Professional training.** Our goal is to make Giacomini Academy a place where our firm and its partners can share and compare ideas, grow and find stimuli for constant improvement.

Our seminars offer an in-depth study of installation aspects while analyzing market trends, cutting-edge technologies as well as law provisions and standards in force.



Giacomini provides all its clients a user-friendly and powerful tool to learn the installation and maintenance procedures for its main products. Stay updated and solve the most common issues. Follow us on our YouTube channel: GIACOMINI VIDEO PROJECTS.





Training customized
for every single
application.

Energy Management

Course describing components for energy consumption optimization. Types of metering (direct and indirect), thermostatic heads, etc.

Radiant Systems

The course will analyze basic concepts for thermoregulation of radiant floor and ceiling systems.

Water Management

In-depth analysis of water distribution systems made with PEX/Al/PEX, PEX, PP-R pipes. Products for fluid shut-off and control, types of fittings.

Gas Distribution

Analysis of systems recommended for gas abduction, distribution and shut-off for domestic use.

Renewable Sources

Course dedicated to products and systems for renewable energy sources and with low environment impact. Heat pumps, Solar energy, Geothermal energy, Biomasses, etc.

Fire Protection

Training course focused on the presentation of water fire protection valves and their main components.

OUR BUSINESS SOLUTIONS

Unique Home

Unique Home is the all-in-one solution for detached houses and independent units. Radiant heating and cooling, ventilation, hot domestic water become part of an integrated system ensuring maximum comfort, providing premium indoor air quality and guaranteeing energy savings.

Residential Plus

Residential Plus is the perfect answer for multi-residential buildings with centralized systems. It includes advanced technologies that optimize energy consumption and simplify operation of heating and cooling solutions, water management and electronic controls.

Total Commercial

Total Commercial is the go-to solution for non-residential needs, industrial facilities and indoor spaces of all types and sizes. It features a wide range of high-performance systems: from radiant technologies to hydronic balancing and components for fire protection to guarantee comfort and efficiency standards.

Giacomini Consulting

It makes all our know-how available to clients and partners, the result of over 70 years of experience and the renowned technical and commercial expertise of our team. Consulting and project support, training courses, conferences and webinars, video.

AREAS OF INTERVENTION AND CERTIFICATIONS

WE STAND WITH ENERGY.

We cover multiple areas of intervention thanks to a wide range of skills acquired along the years and acknowledged on a global level. **This is well-proven by the certifications we have achieved.**

 Energy Management

Components for energy consumption optimization and metering, and for hot and cold fluid distribution.

 Radiant Systems

Radiant floor, wall and ceiling air conditioning for residential and commercial use, thermoregulation and air treatment.

 Water Management

Components for drinking water distribution lines, devices for domestic water systems.

 Gas Distribution

Distribution products and systems for safe and high-performing gas transfer in buildings.

 Renewable Sources

Components dedicated to renewable-source energy-production systems.

 Hydrogen Systems

Innovative and integrated solutions for eco-friendly hydrogen-fueled heating.

 Fire Protection

Special top-performance components for the fire prevention professional sector.

 Giacomini Certifications

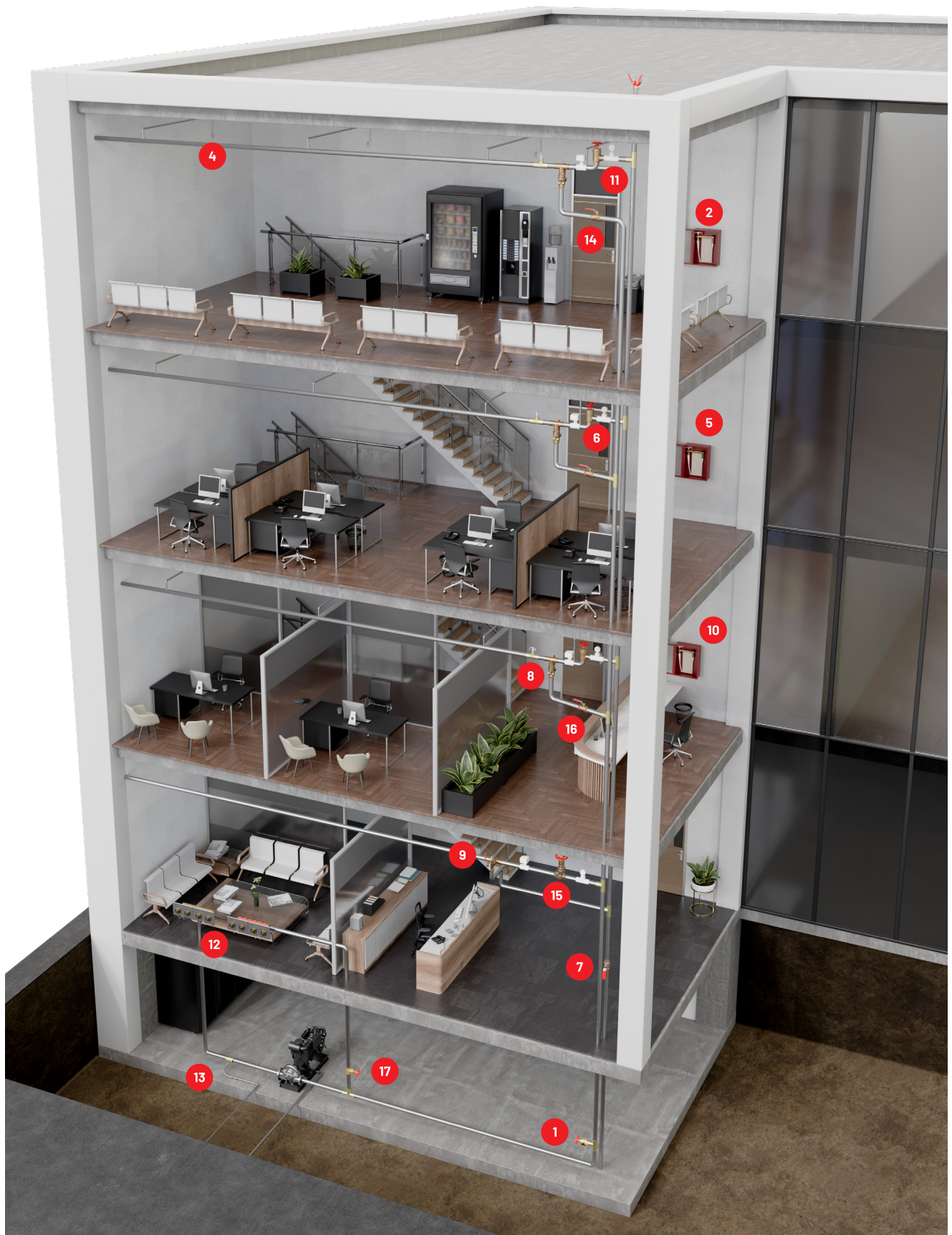
Giacomini S.p.A. relies on an Integrated Management System for Quality, Environment, Workplace Health and Safety certified by ICIM.




ACS




EQUIPMENT APPLICATION





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Fire Protection

The entire Fire Protection Product Line is based on American Standards; these standards are considered the most challenging in the world for this industry. For this reason, they are considered the reference for design in the entire world, especially for High Rise Buildings design for Fire Protection.

The design standards are issued by NFPA, National Fire Protection Association.

The National Fire Protection Association (NFPA) is a global self-funded nonprofit organization, established in the US in 1896, devoted to eliminating death, injury, property and economic loss due to fire, electrical and related hazards.

NFPA delivers information and knowledge through more than 300 consensus codes and

standards, research, training and education.

The NFPA Fire & Life Safety Standards are a framework that identifies the components that must work together to minimize risk and help prevent loss, injuries, and death from fire, electrical, and other hazards.

There are eight key components in the Fire & Life Safety systems. These components are interdependent. When they work together, the system protects everyone. If any component is missing or broken, the system can collapse, often resulting in tragedy. Almost always we can trace the cause of injurious life safety incidents and tragedies back to the breakdown of one or more components.

For these reasons NFPA standards are considered the fundamentals for Fire Protection Systems.



The base standard for Fire Protection System design are:

NFPA13

STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

The industry benchmark for design and installation of automatic fire sprinkler systems, NFPA 13 addresses sprinkler system design approaches, system installation, and component options to prevent fire deaths and property loss.

Scope.

This standard provides a range of sprinkler system approaches, design development alternatives, and component options that are all acceptable. Building owners and their designated representatives are advised to carefully evaluate proposed selections for appropriateness and preference.

This standard shall provide the minimum requirements for the design and installation of automatic fire sprinkler systems and exposure protection sprinkler systems covered within this standard.

This standard shall not provide requirements for the design or installation of water mist fire protection systems, which are not considered fire sprinkler systems and are addressed by NFPA 750. This standard is written with the assumption that the sprinkler system shall be designed to protect against a single fire originating within the building.

This standard also provides guidance for the installation of systems for exterior protection and specific hazards. Where these systems are installed, they are also designed for protection of a fire from a single ignition source.

NFPA14

STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

NFPA 14 provides requirements for the installation of standpipes and hose systems to ensure that systems will work as intended to deliver adequate and reliable water supplies in a fire emergency.

Scope.

This standard covers the minimum requirements for the installation of standpipes and hose systems.

NFPA25

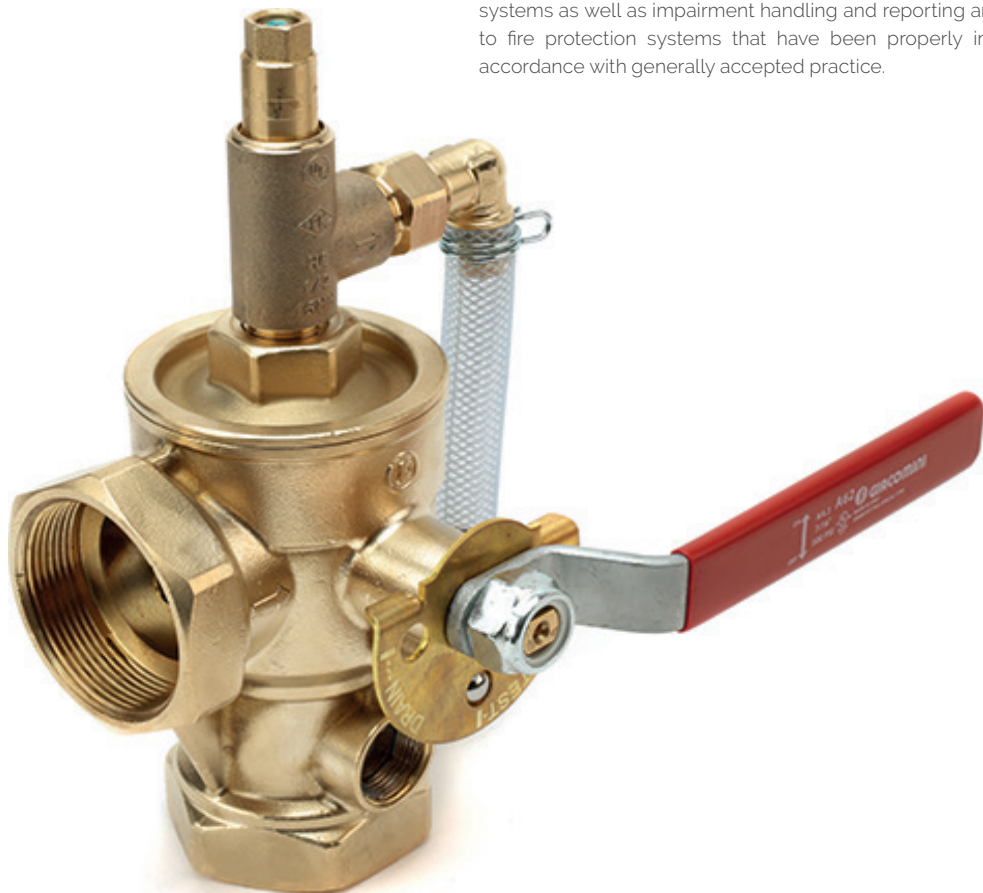
STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS

NFPA 25 is the baseline for inspection, testing, and maintenance of water-based fire protection systems. Compliance helps maximize system integrity to avoid failure and ensure fast, effective response in a fire emergency.

This document establishes the minimum requirements for the periodic inspection, testing, and maintenance of water-based fire protection systems and the actions to undertake when changes in occupancy, use, process, materials, hazard, or water supply that potentially impact the performance of the water-based system are planned or identified.

The types of systems addressed by this standard include, but are not limited to, sprinkler, standpipe and hose, fixed water spray, private fire hydrants, water mist, and foam water.

This standard addresses the operating condition of fire protection systems as well as impairment handling and reporting and applies to fire protection systems that have been properly installed in accordance with generally accepted practice.



PRODUCT CERTIFICATION STANDARDS.

All products are in compliance with the specification and able to provide the performances required by product certifications.

The most important and worldwide recognized certifications for Fire Protection products are provided by Factory Mutual (**FM**) and Underwriters Laboratories (**UL**).



UNDERWRITERS LABORATORIES

Inc. was founded in 1894 by William Henry Merrill. In order to determine and mitigate risk, Merrill found it necessary to conduct tests on building materials. Upon seeing a growing potential in his field, Merrill stayed in Chicago to found Underwriters Laboratories. UL published its first standard, "Tin Clad Fire Doors", in 1903.

In 1906, UL introduced the UL Mark to indicate products that had passed their testing. UL inspectors conducted the first factory inspections on labeled products at manufacturers' facilities.

UL has expanded into an organization with 64 laboratories, testing and certification facilities serving customers in 104 countries. It has evolved from its roots in electrical and fire safety to address broader safety issues, such as hazardous substances, water quality, food safety, performance testing, safety and compliance education and environmental sustainability.

Underwriters Laboratories of Canada, Founded in 1920 as independent product safety testing, certification and inspection organization, merged with UL. Anyway there are still differences between the standards applied by the two authorities.

Underwriters Laboratories headquarters are in Northbrook, Illinois, USA.

UL313 Check valves for fire protection service

UL1478A Pressure relief valves for sprinkler systems

UL 1468 Direct acting pressure reducing and pressure restricting valves

UL 668 Hose valves for fire protection service

UL 401 Portable spray hose nozzles for fire protection service

UL 262 Gate valves for fire protection service

UL 258 Shutoff valves for trim and drain purposes for fire protection service

UL 199 Automatic sprinklers for fire protection service

UL 405 Fire department connection devices

Even though FM and UL standard refer to NFPA indications, they are of course, different standards and they have different requirements.

In some cases, one of the two authorities have a standard for a type product, and the other one has not.

E.g., FM has a standard, Class 2131, for hose couplings (Giacomini A70); UL has not a similar standard and therefore A70 coupling cannot be UL approved, because of the lack of a reference standard.

Or another example are the pressure restricting valves (A155, A156).

In this case FM has not a standard dedicated to PRV valves; then Giacomini A155, A156 are FM approved with Class 1521, for 300 psi (as hose valves).

Instead, for this type of product, UL has a dedicated standard (UL 1468). This standard states that the maximum rated pressure for a pressure reducing valve can be 175 psi; therefore A155, A156 are UL listed for 175 psi as pressure restricting valves.

THREADS

As already said, Giacomini fire protection products are based on North American Standard.

For this reason, most part of them have North American threads or connections.

In the section we will recap the types of connections, threaded or not, and they applications.





FACTORY MUTUAL

In 1835 a Rhode Island textile mill owner named Zachariah Allen made property improvements to his mill to minimize the chance of fire loss and increase the mill's resilience. After taking these steps, he asked his insurance company for a reduced premium. He was turned down, but Zachariah recruited other mill owners who shared his loss prevention philosophy. Together, they combined their strength to create a mutual property insurance company that would insure only "good risk" factories—creating the category of "highly protected risk (HPR) properties." This business idea also provided incentives, because whatever premiums remained at the end of a policy term would be returned to policyholder.

Other companies joined the group, which became known as the Factory Mutuals. As Zachariah had predicted, proper fire prevention methods and inspections resulted in dramatically fewer losses. When the fire sprinkler was introduced in 1874, Factory Mutuals championed its acceptance.

By 1987, 42 mutual companies joined forces to become three companies. This merger allowed the three carriers to provide clients more comprehensive coverage and loss prevention resources. Finally, in 1999, FM Global was created to offer even greater insurance capacity. Through all these years, we've consistently invested in research and engineering, ultimately opening the FM Global Research Campus in 2003. Today it is the world's most sophisticated center for advancing the science of property loss prevention.

Here below a recap of the main applicable standards for Giacomini fire protection products:

- Class 1625** Approval Standard for Sprinkler System Alarm Test Devices
- Class 1521** Approval Standard for Angle Hose Valves
- Class 1522** Approval Standard for Straight Hose Valves
- Class 5511** Approval Standard for Firefighting Nozzles for Use with Hose, Monitor Assemblies and other Firefighting Equipment
- Class 2131** Approval Standard for Couplings for 1-1/2" and 2-1/2" inch Single and Double Jacket Fire Hose and Unlined Linen Hose
- Class 1531** Approval Standard for Wall Hydrants
- Class 1530** Approval Standard for Fire Department Connections
- Class 1210** Approval Standard for Swing Check Valves
- Class 1140** Approval Standard for quick opening valves 1/4" through 2" nominal size

AMERICAN NATIONAL STANDARD PIPE THREAD STANDARDS, OFTEN CALLED NATIONAL PIPE THREAD (NPT)

NPT standards for short, are US national technical standards for screw threads used on threaded pipes and pipe fittings. They include both tapered and straight thread series for various purposes including rigidity, pressure-tight sealing, or both. The various types are each named with a symbol and a full name; examples of the symbols include NPT, NPS, NPTF, NPSC, and others. MIP is an acronym for male iron pipe, and FIP is an acronym for female iron pipe. The reference standard for this type of thread is ANSI B.1.20.1. For NPT threads a sealant compound or Polytetrafluoroethylene (PTFE) tape or other similar dope must be used for a leak-free seal. All Giacomini fire protection products connection intended to be joined to a pipe are female NPT.

STRAIGHT THREADS

In Fire Protection Industry, straight threads are required for removable connections; typical applications are for hose connections. In these cases, because a gasket is involved, a straight thread is required. Generally speaking they are called National Hose (NH) threads. Several types of NH threads are required on the market, based on local requirements and they are defined in NFPA 1963. Numerous thread standards may be encountered. In USA, larger cities or specific municipalities may use unique standards for municipal water and fire fighting services. Examples are New York City fire department thread and Chicago fire department thread. One reason for these unique threads may be to reduce occurrences of theft of hoses and accessories. Canada also has unique threads - often by province. You may encounter CSA, BCT, QST, NFLD, NSST, WCT, etc. If you need to be compatible with your local fire department, you should determine what they use and what you would need to attach to their equipment. In the table below you can find a recap of all most common threads:

NST	National Standard NH
NPSH	Straight Iron Pipe (National Pipe Straight Hose)
NYC	New York Corporation
BSP	British Standard Pipe
NYFD	New York City FD only 2-1/2"
PCT	Pacific Coast thread 2-1/2"
CHT	Chicago FD Hose Thread only 2-1/2"
AMA	Alberto Mutual Aid CANADA only 2-1/2"
BCT	British Columbia Thread CANADA only 2-1/2"
CSA	Canadian Standard Assoc. CANADA only 2-1/2"
QST	Province of Quebec Std. CANADA only 2-1/2"
WCD	Western Canada Fire Under CANADA only 2-1/2"
NOVA	Nova Scotia CANADA only 2-1/2"
QMT	Quebec Montreal CANADA only 2-1/2"
NFLD	Newfoundland thread CANADA only 2-1/2"



CHAPTER 1

Wide range of hose and gate valves for cabinets, indoor and outdoor installation.

Available with several connections and finishing.

All types of valves are certified for standard or high pressure applications.

HOSE VALVES

- 1.1 ANGLE HOSE VALVES
- 1.2 STRAIGHT HOSE VALVES
- 1.3 GATE VALVES

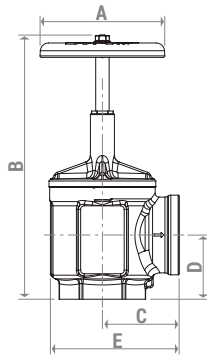


1.1 ANGLE HOSE VALVES

A55E



DOUBLE FEMALE



ANGLE HOSE VALVE

Double female. Forged brass.
Used with a Fire Hose Rack Assembly, or as a Fire Dept. outlet connection.

① STANDARD EQUIPMENT:

NPT-F inlet x NPT-F outlet forged brass valve.
Red handwheel.

➔ RELATED PRODUCTS



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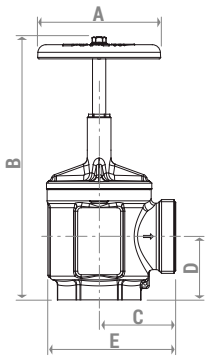
300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING				
		A	B		C	D	E	BRASS	POLISHED	CHROME	POLISHED CHROME
			CLOSED	OPEN							
1-1/2"	 	4-1/32"	6-1/2"	7-19/32"	2-5/32"	1-7/8"	3-11/16"	●		●	
2-1/2"		5-1/8"	8-29/32"	10-19/32"	3-5/32"	2-5/8"	5-11/32"	●		●	

A56E



FEMALE x HOSE THREAD-M



ANGLE HOSE VALVE

Female x Male hose connection. Forged brass.
Used with a Fire Hose Rack Assembly, or as a Fire Dept. outlet connection.

① STANDARD EQUIPMENT:

NPT-F inlet x HOSE THREAD-M outlet forged brass valve.
Red handwheel.

➔ RELATED PRODUCTS



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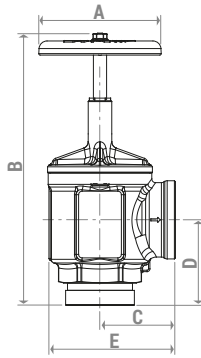
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300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING				
		A	B		C	D	E	BRASS	POLISHED	CHROME	POLISHED CHROME
			CLOSED	OPEN							
1-1/2"	 	4-1/32"	6-1/2"	7-19/32"	2-1/4"	1-7/8"	3-13/16"	●		●	
2-1/2"		5-1/8"	8-29/32"	10-19/32"	3-3/16"	2-5/8"	5-3/8"	●		●	



A55EG



GROOVE x FEMALE

ANGLE HOSE VALVE

Used with a Fire Hose Rack Assembly, or as a Fire Dept. outlet connection.

① STANDARD EQUIPMENT:

Groove inlet x NPT-F outlet forged brass valve.
Red handwheel.

➔ RELATED PRODUCTS



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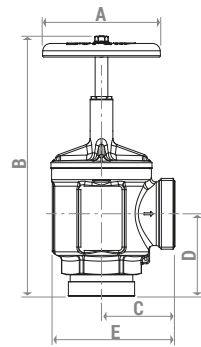
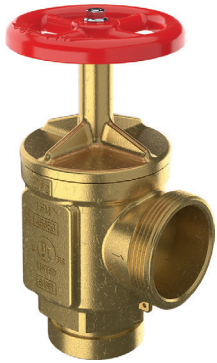


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300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING				
		A	B		C	D	E	BRASS	POLISHED	CHROME	POLISHED CHROME
2-1/2"		5-1/8"	CLOSED	OPEN	3-5/32"	3-9/16"	5-11/32"	●		●	

A56EG



GROOVE x HOSE THREAD-M

ANGLE HOSE VALVE

Used with a Fire Hose Rack Assembly, or as a Fire Dept. outlet connection.

① STANDARD EQUIPMENT:

Groove inlet x HOSE THREAD-M outlet forged brass valve.
Red handwheel.

➔ RELATED PRODUCTS



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A70 p. 64-66

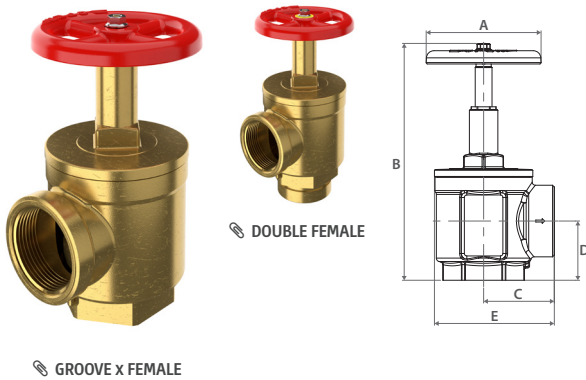


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300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING				
		A	B		C	D	E	BRASS	POLISHED	CHROME	POLISHED CHROME
2-1/2"		5-1/8"	CLOSED	OPEN	3-3/16"	3-9/16"	5-3/8"	●		●	

A55H



GROOVE x FEMALE

DOUBLE FEMALE

ANGLE HOSE VALVE

Used in piping systems where it is necessary to access the system for a Fire Hose connection.

① STANDARD EQUIPMENT:

NPT inlet F x NPT outlet F or groove inlet and female NPT outlet forged brass valve.
Red handwheel.

➔ RELATED PRODUCTS



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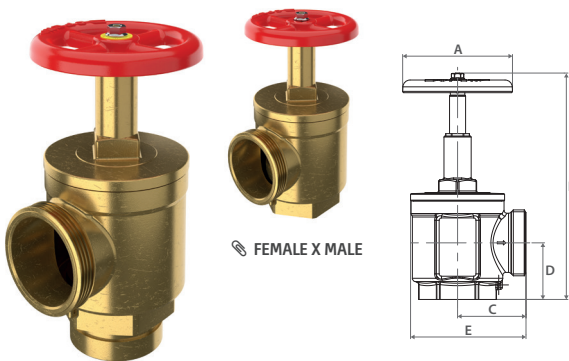


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500 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS						FINISHING				
		A	B		C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME	
			CLOSED	OPEN								
GROOVE x FEMALE												
2-1/2"		5-1/8"	9-25/32"	11-1/2"	3-5/32"	3-9/16"	5-11/32"	●				
DOUBLE FEMALE												
2-1/2"		5-1/8"	8-27/32"	10-9/16"	3-5/32"	2-5/8"	5-11/32"	●				

A56H



GROOVE x MALE

FEMALE X MALE

ANGLE HOSE VALVE

Used in piping systems where it is necessary to access the system for a Fire Hose connection.

① STANDARD EQUIPMENT:

NPT inlet F x Hose thread outlet M or groove inlet and male hose thread outlet forged brass valve.
Red handwheel.

➔ RELATED PRODUCTS



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500 psi RATED PRESSURE

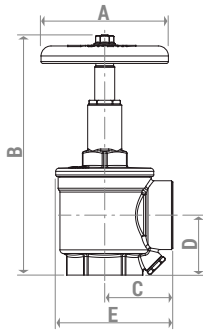
SIZE	CERTIFICATIONS	DIMENSIONS						FINISHING				
		A	B		C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME	
			CLOSED	OPEN								
GROOVE x MALE												
2-1/2"		5-1/8"	9-25/32"	11-1/2"	3-3/16"	3-9/16"	5-3/8"	●				
FEMALE X MALE												
2-1/2"		5-1/8"	8-27/32"	10-9/16"	3-3/16"	2-5/8"	5-3/8"	●				



A50



DOUBLE FEMALE



ANGLE HOSE VALVE WITH HYDRULATOR

Used with a Fire Hose Rack Assembly, or as a Fire Dept. outlet connection.

① STANDARD EQUIPMENT:

NPT-F inlet x NPT-F outlet forged brass valve, with hydrator. Red handwheel.

➔ RELATED PRODUCTS



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A70 p. 64-66



A7 p. 52

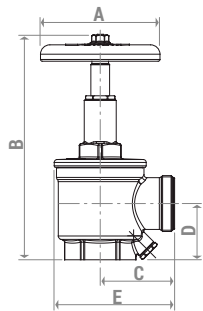
300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS						FINISHING			
		A	B		C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2"	LISTED	4-1/32"	CLOSED	OPEN	2-5/32"	1-7/8"	3-11/16"	●		●	●

A51



FEMALE x HOSE THREAD-M



ANGLE HOSE VALVE WITH HYDRULATOR

Used with a Fire Hose Rack Assembly, or as a Fire Dept. outlet connection.

① STANDARD EQUIPMENT:

NPT-F inlet x HOSE THREAD-M outlet forged brass valve, with hydrator. Red handwheel.

➔ RELATED PRODUCTS



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300 psi RATED PRESSURE

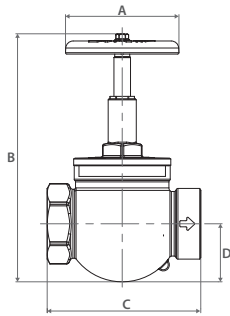
SIZE	CERTIFICATIONS	DIMENSIONS						FINISHING			
		A	B		C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2"	LISTED	4-1/32"	CLOSED	OPEN	2-1/2"	1-7/8"	4-1/32"	●		●	●

1.2 STRAIGHT HOSE VALVES

A85



DOUBLE FEMALE



175 psi RATED PRESSURE

STRAIGHT GLOBE HOSE VALVE

Used with a Fire Hose Rack Assembly, or as a Fire Dept. outlet connection. Ideal for wet and combination system.

① STANDARD EQUIPMENT:

NPT inlet F x NPT outlet F cast bronze body, 175 lbs. Red handwheel.

▲ Certified as pressure restricting valve with shut off feature.

➔ RELATED PRODUCTS



A65 p. 67



A70 p. 64-66



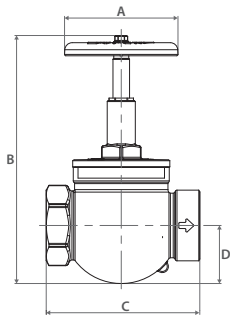
A7 p. 52

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B		C	D	ROUGH BRONZE	POLISHED	CHROME	POLISHED CHROME
			CLOSED	OPEN						
2-1/2"		5-1/8"	11-3/16"	11-15/16"	6-15/16"	2-5/8"	●			

A86



FEMALE X HOSE THREAD-M



175 psi RATED PRESSURE

STRAIGHT GLOBE HOSE VALVE

Used with a Fire Hose Rack Assembly, or as a Fire Dept. outlet connection. Ideal for wet and combination system.

① STANDARD EQUIPMENT:

NPT inlet F x Hose thread outlet M cast bronze body, 175 lbs. Red handwheel.

▲ Certified as pressure restricting valve with shut off feature.

➔ RELATED PRODUCTS



A80 p. 68



A70 p. 64-66



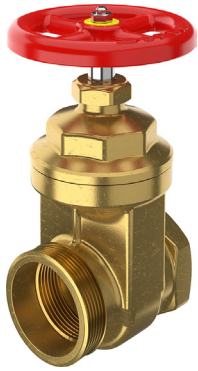
A7 p. 52

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B		C	D	ROUGH BRONZE	POLISHED	CHROME	POLISHED CHROME
			CLOSED	OPEN						
2-1/2"		5-1/8"	11-3/16"	11-15/16"	7-1/16"	2-5/8"	●			

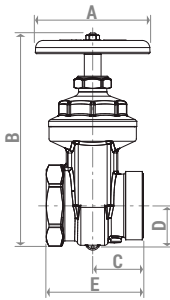


1.3 GATE VALVES

A53



*A80



FEMALE x HOSE THREAD-M

300 psi RATED PRESSURE

GATE VALVE

Forged brass gate valves, straightway pattern with non-rising stem used as fire hose connections and on pump test manifolds.

① STANDARD EQUIPMENT:

NPT-F inlet x HOSE THREAD-M outlet, forged brass. Solid wedge disc with tapered seats. Red handwheel.

*Available with or without cap and chain.

➔ RELATED PRODUCTS



A97 p. 48



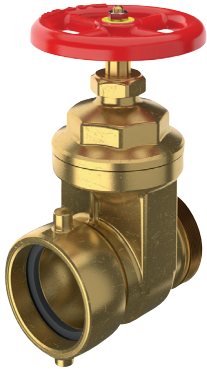
A98 p. 49



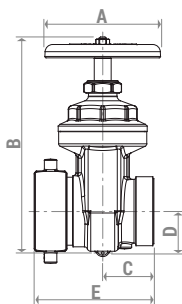
A111 p. 43

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2"		5-1/8"	9-13/16"	2-1/4"	2-1/16"	4-11/32"	●	●	●	●
2-1/2"		5-1/8"	9-15/16"	2-1/4"	2-3/16"	4-17/32"	●	●		

A53G



*A81



MALE NST x SWIVEL NST

300 psi RATED PRESSURE

SINGLE HYDRANT GATE VALVE

Straightway pattern, non-rising stem, 300 lbs. hose gate valves are intended for use on standpipes, fire pumps and hydrants.

① STANDARD EQUIPMENT:

Brass body with brass trim, pin or rocker lug, Male NST inlet and swivel NST outlet. Red handwheel.

⚠ Swivel with pin or rocker lugs. Particularly recommended when space limitation precludes a permanent type installation.

*Available with or without cap and chain.

➔ RELATED PRODUCTS



A97 p. 48



A98 p. 49

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	D	E	ROUGH BRASS	POLISHED BRASS	CHROME	POLISHED CHROME
2-1/2"		5-1/8"	9-13/16"	2-1/4"	2-1/16"	5-5/16"	●			

CHAPTER 2

Pressure restricting valves and pressure reducing valves to manage static and residual pressure as per NFPA standard requirements.

PRESSURE REGULATING VALVES

- 2.1 PRESSURE RESTRICTING VALVES
- 2.2 FIELD ADJUSTABLE PRESSURE REDUCING VALVES
- 2.3 FACTORY SET PRESSURE REDUCING VALVES

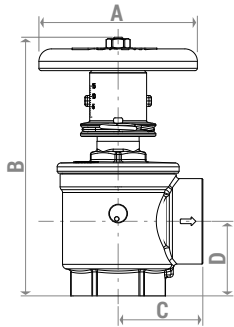


2.1 PRESSURE RESTRICTING VALVES

A155



DOUBLE FEMALE



PRESSURE RESTRICTING ANGLE VALVE

Used with a Fire Hose Rack Assembly. Water pressure is controlled by adjustable flow restriction. If full flow is required, the restriction may be overridden.

① STANDARD EQUIPMENT:

NPT-F inlet x NPT-F outlet forged brass valve.
Red handwheel.

➤ RELATED PRODUCTS



A65 p. 67



A70 p. 64-66



A7 p. 52

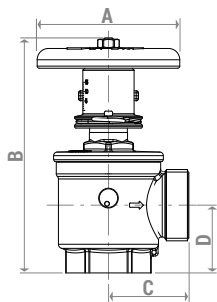
300 psi RATED PRESSURE

SIZE	CERTIFICATIONS			DIMENSIONS					FINISHING				
				A	B		C	D	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME	
				CLOSED	OPEN								
1-1/2"				4-1/32"	6-1/2"	7-19/32"	2-5/32"	1-7/8"	●	●	●	●	
2-1/2"				5-1/8"	8-29/32"	10-19/32"	3-5/16"	2-5/8"	●	●	●	●	

A156



FEMALE x HOSE THREAD-M



PRESSURE RESTRICTING ANGLE VALVE

Used with a Fire Hose Rack Assembly or as a Fire Dept. outlet connection. Water pressure is controlled by adjustable flow restriction. If full flow is required, the restriction may be overridden.

① STANDARD EQUIPMENT:

NPT-F inlet x HOSE THREAD-M outlet forged brass valve.
Red handwheel.

➤ RELATED PRODUCTS



A80 p. 68



A70 p. 64-66



A7 p. 52

300 psi RATED PRESSURE

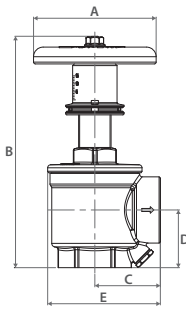
SIZE	CERTIFICATIONS			DIMENSIONS					FINISHING			
				A	B		C	D	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
				CLOSED	OPEN							
1-1/2"				4-1/32"	6-1/2"	7-19/32"	2-5/32"	1-7/8"	●	●	●	●
2-1/2"				5-1/8"	8-29/32"	10-19/32"	3"	2-5/8"	●	●	●	●



A155S



DOUBLE FEMALE



PRESSURE RESTRICTING ANGLE VALVE WITH HYDROLATOR

Used with a fire hose rack assembly. Water pressure is controlled by adjustable flow restriction. If full flow is required, the restriction may be overridden.

① STANDARD EQUIPMENT:

NPT inlet F x NPT outlet F forged brass valve with hydrolator. Red handwheel.

➤ RELATED PRODUCTS



A65 p. 61



A70 p. 58-60



A7 p. 48

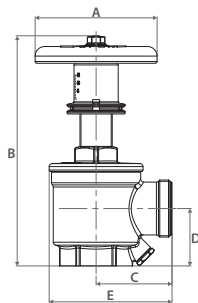
175 psi RATED PRESSURE

SIZE	CERTIFICATIONS		DIMENSIONS					FINISHING					
			A	B		C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME	
				CLOSED	OPEN								
1-1/2"	UL LISTED	ULC	4-1/32"	6-1/2"	7-19/32"	2-5/32"	1-7/8"	3-11/16"	●		●	●	

A156S



FEMALE x HOSE THREAD-M



PRESSURE RESTRICTING ANGLE VALVE WITH HYDROLATOR

Used with a Fire Hose Rack Assembly or as a Fire Dept. outlet connection. Water pressure is controlled by adjustable flow restriction. If full flow is required, the restriction may be overridden.

① STANDARD EQUIPMENT:

NPT inlet F x Hose thread outlet M forged brass valve with hydrolator. Red handwheel.

➤ RELATED PRODUCTS



A80 p. 68



A70 p. 64-66



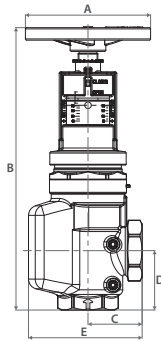
A7 p. 52

175 psi RATED PRESSURE

SIZE	CERTIFICATIONS		DIMENSIONS					FINISHING					
			A	B		C	D	E	BRASS	POLISHED	CHROME	POLISHED CHROME	
				CLOSED	OPEN								
1-1/2"		ULC	4-1/32"	6-1/2"	7-19/32"	2-1/2"	1-7/8"	4-1/32"	●		●	●	

2.2 FIELD ADJUSTABLE PRESSURE REDUCING VALVES

A201



DOUBLE FEMALE

400 psi RATED PRESSURE

FIELD ADJUSTABLE PRESSURE REDUCING VALVE WITH CHECKING DEVICE

Used as a zone control valve for in-line application to regulate sprinkler, stand pipe and combined fire protection systems. Indicator bonnet shows whether valve is open or closed. Adjustable scale permits easy field setting. The valve is used to regulate inlet pressure up to 400 lbs.

① STANDARD EQUIPMENT:

Cast bronze body with female NPT inlet and outlet. Visual indicator. With 1/4" NPT side taps for pressure gauges. Red handwheel.

⚠ Downstream pressure setting range 65÷175 psi. With backflow preventer feature.

➤ RELATED PRODUCTS



A155 p. 28



A156 p. 28



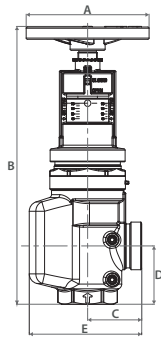
A55E p. 20



A56E p. 20

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING				
		A	B		C	D	E	ROUGH BRONZE	POLISHED BRONZE	ROUGH CHROME	POLISHED CHROME
2-1/2"		5-1/8"	CLOSED	OPEN	3-13/32"	3-23/32"	7-5/32"	●			

A202



FEMALE x HOSE THREAD-M

400 psi RATED PRESSURE

FIELD ADJUSTABLE PRESSURE REDUCING VALVE

Used as a zone control valve for in-line application to regulate sprinkler, stand pipe and combined fire protection system. Indicator bonnet shows whether valve is opened or closed. Adjustable scale permits easy field setting. The valve is used to regulate inlet pressure up to 400 lbs.

① STANDARD EQUIPMENT:

Cast bronze body with female NPT inlet x male hose thread outlet. Visual indicator. With 1/4" NPT side taps for pressure gauges. Red handwheel.

⚠ Downstream pressure setting range 65÷175 psi.

➤ RELATED PRODUCTS



A75 p. 73



A80 p. 68

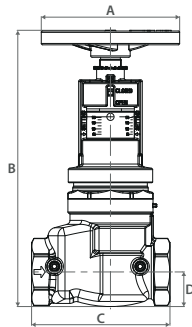


A7 p. 52

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING				
		A	B		C	D	E	ROUGH BRONZE	POLISHED BRONZE	ROUGH CHROME	POLISHED CHROME
2-1/2"		7-7/8"	CLOSED	OPEN	3-15/32"	3-3/4"	7-7/32"	●		●	



A203



DOUBLE FEMALE

400 psi RATED PRESSURE

FIELD ADJUSTABLE PRESSURE REDUCING VALVE WITH CHECKING DEVICE

Used as a zone control valve for in-line application to regulate sprinkler, stand pipe and combined fire protection systems. Indicator bonnet shows whether valve is open or closed. Adjustable scale permits easy field setting. The valve is used to regulate inlet pressure up to 400 lbs.

① STANDARD EQUIPMENT:

Cast bronze body with female NPT inlet and outlet. Visual indicator. With 1/4" NPT side taps for pressure gauges. Red handwheel.

▲ Downstream pressure setting range 65÷175 psi. With backflow preventer feature.

➔ RELATED PRODUCTS



A155 p. 28



A156 p. 28



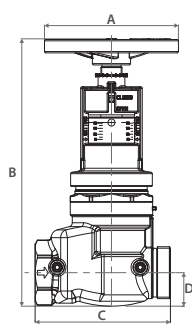
A55E p. 20



A56E p. 20

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B		C	D	ROUGH BRONZE	POLISHED BRONZE	ROUGH CHROME	POLISHED CHROME
2-1/2"		7-7/8"	CLOSED	OPEN	7-7/8"	1-31/32"	●			

A204



FEMALE x HOSE THREAD-M

400 psi RATED PRESSURE

FIELD ADJUSTABLE PRESSURE REDUCING VALVE WITH CHECKING DEVICE

Used as a zone control valve for in-line application to regulate sprinkler, stand pipe and combined fire protection system. Indicator bonnet shows whether valve is opened or closed. Adjustable scale permits easy field setting. The valve is used to regulate inlet pressure up to 400 lbs.

① STANDARD EQUIPMENT:

Cast bronze body with female NPT inlet x male hose thread outlet. Visual indicator. With 1/4" NPT side taps for pressure gauges. Red handwheel.

▲ Downstream pressure setting range 65÷175 psi.

➔ RELATED PRODUCTS



A75 p. 73



A80 p. 68



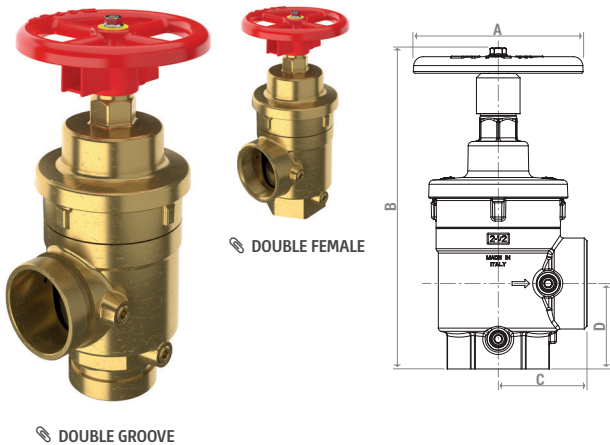
A7 p. 52

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B		C	D	ROUGH BRONZE	POLISHED BRONZE	ROUGH CHROME	POLISHED CHROME
2-1/2"		7-7/8"	CLOSED	OPEN	7-15/16"	1-31/32"	●			



2.3 FACTORY SET PRESSURE REDUCING VALVES

A221



400 psi RATED PRESSURE

FACTORY SET ANGLE PRESSURE REDUCING VALVE

Used as a zone control valve for in-line application to regulate sprinkler, stand pipe and combined fire protection system. Indicator bonnet shows whether valve is opened or closed. Valves are factory set with 8 different bonnets with specific pressure reduction ratio. The valves can manage inlet pressure up to 400 lbs.

① STANDARD EQUIPMENT:

Brass body with Double female NPT. Visual indicator. Red handwheel. With 1/4"NPT side taps for pressure gauges. Downstream pressure setting range 50÷175 psi. Also available with integrated supervisory switch

➤ RELATED PRODUCTS



A155 p. 28



A156 p. 28



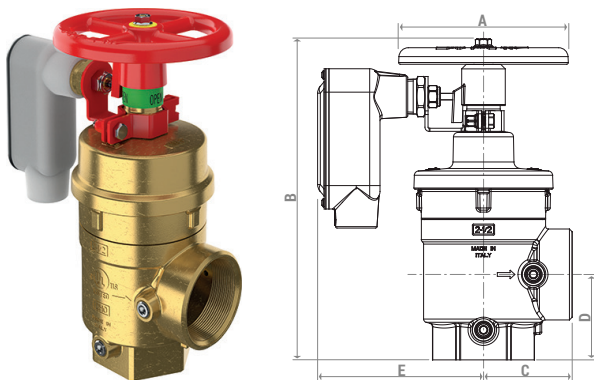
A55E p. 20



A56E p. 20

SIZE/BONNET	CERTIFICATIONS	DIMENSIONS				FINISHING			
		A	B	C	D	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
DOUBLE GROOVE									
2-1/2"	UL LISTED UIC	6.02"	12.88"	3.35"	3.54"	●			
DOUBLE FEMALE									
2-1/2"	UL LISTED UIC	6.02"	11.42"	3.17"	3.03"	●			

A221 + A171SW



400 psi RATED PRESSURE

FACTORY SET ANGLE PRESSURE REDUCING VALVE + SUPERVISORY SWITCH

Factory set pressure reducing valves + Supervisory Switch (Available as Normally Open or Normally Closed).

① STANDARD EQUIPMENT:

Groove x Female or Double Female + Supervisory Switch

* Soon available.

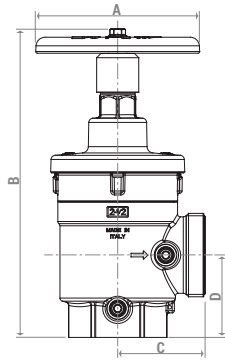
SIZE/BONNET	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
DOUBLE GROOVE										
2-1/2"	UL LISTED UIC	6.02"	12.88"	3.35"	3.54"	6.34"	●			
DOUBLE FEMALE										
2-1/2"	UL LISTED UIC	6.02"	11.42"	3.17"	3.03"	6.34"	●			



A222



FEMALE x HOSE
THREAD-M



GROOVE x HOSE
THREAD-M

400 psi RATED PRESSURE

FACTORY SET ANGLE PRESSURE REDUCING VALVE

Used as a zone control valve for in-line application to regulate sprinkler, stand pipe and combined fire protection system. Indicator bonnet shows whether valve is opened or closed. Valves are factory set with 8 different bonnets with specific pressure reduction ratio. The valves can manage inlet pressure up to 400 lbs.

① STANDARD EQUIPMENT:

Brass body with Female NPT and groove inlet and outlet. Visual indicator. Red handwheel. With 1/4" NPT side taps for pressure gauges. Downstream pressure setting range 50÷175 psi. Also available with integrated supervisory switch

➤ RELATED PRODUCTS



A155 p. 28



A156 p. 28



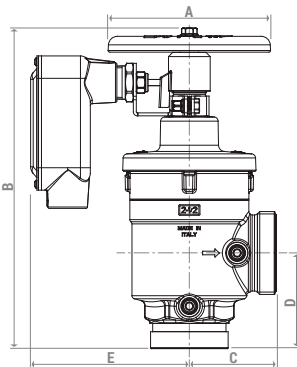
A55E p. 20



A56E p. 20

SIZE/BONNET	CERTIFICATIONS	DIMENSIONS				FINISHING			
		A	B	C	D	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
GROOVE x MALE									
2-1/2"	UL LISTED, UIC	6.02"	12.80"	3.23"	3.54"	●			
FEMALE x MALE									
2-1/2"	UL LISTED, UIC	6.02"	11.42"	3.23"	3.03"	●			

A222 + A171SW



400 psi RATED PRESSURE

FACTORY SET ANGLE PRESSURE REDUCING VALVE + SUPERVISORY SWITCH

Factory set pressure reducing valves + Supervisory Switch (Available as Normally Open or Normally Closed).

① STANDARD EQUIPMENT:

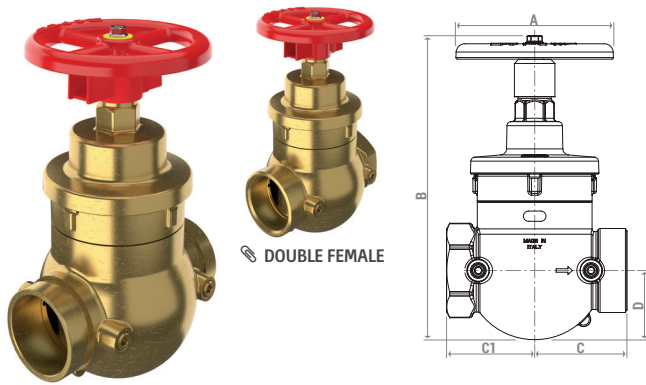
Groove x Male or Male x Male + Supervisory Switch

* Soon available.

SIZE/BONNET	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
GROOVE x MALE										
2-1/2"	UL LISTED, UIC	6.02"	12.80"	3.23"	3.54"	6.34"	●			
FEMALE x MALE										
2-1/2"	UL LISTED, UIC	6.02"	11.42"	3.23"	3.03"	6.34"	●			



A223



DOUBLE GROOVE

400 psi RATED PRESSURE

STRAIGHT FACTORY SET PRESSURE REDUCING VALVE

Used as a zone control valve for in-line application to regulate sprinkler, stand pipe and combined fire protection system. Indicator bonnet shows whether valve is opened or closed. Valves are factory set with 8 different bonnets with specific pressure reduction ratio. The valves can manage inlet pressure up to 400 lbs.

① STANDARD EQUIPMENT:

Brass body with Female NPT and groove inlet and outlet. Visual indicator. Red handwheel. With 1/4" NPT side taps for pressure gauges. Downstream pressure setting range 50÷175 psi. Also available with integrated supervisory switch

➤ RELATED PRODUCTS



A155 p. 28



A156 p. 28



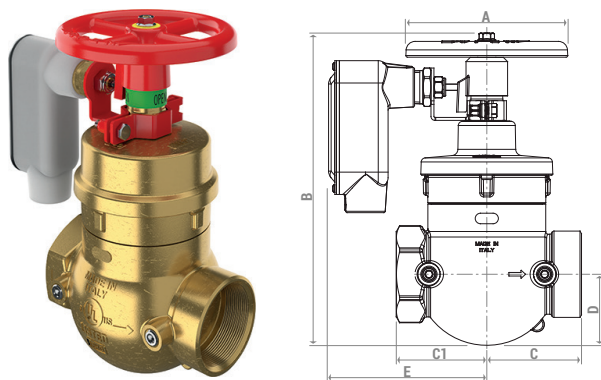
A55E p. 20



A56E p. 20

SIZE/BONNET	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	C1	D	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
DOUBLE GROOVE										
2-1/2"	UL LISTED UIC	6.02"	11.69"	3.66"	3.66"	3.66"	●			
DOUBLE FEMALE										
2-1/2"	UL LISTED UIC	6.02"	11.69"	3.54"	3.38"	2.66"	●			

A223 + A171SW



400 psi RATED PRESSURE

ANGLE FACTORY SET PRESSURE REDUCING VALVE + SUPERVISORY SWITCH

Factory set pressure reducing valves + Supervisory Switch (Available as Normally Open or Normally Closed).

① STANDARD EQUIPMENT:

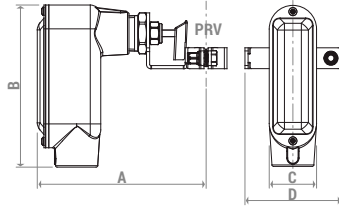
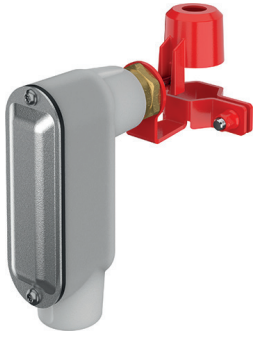
Double Groove or Double Female + Supervisory Switch

* Soon available.

SIZE/BONNET	CERTIFICATIONS	DIMENSIONS						FINISHING			
		A	B	C	C1	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
DOUBLE GROOVE											
2-1/2"	UL LISTED UIC	6.02"	11.69"	3.66"	3.66"	3.66"	6.34"	●			
DOUBLE FEMALE											
2-1/2"	UL LISTED UIC	6.02"	11.69"	3.54"	3.38"	2.66"	6.34"	●			




A171SW



SUPERVISORY SWITCH FOR PRV A220 SERIES

Supervisory switch for PRV A220 Series, complete with aluminum elbow conduit (switch box). UL listed (in combination with A220 Series Pressure Reducing Valves)

TYPE OF SENSOR	CERTIFICATIONS	DIMENSIONS				FINISHING			
		A	B	C	D	ROUGH BRASS	ALUMINIUM	ROUGH CHROME	POLISHED CHROME
NORMALLY OPEN		6.34"	6.10"	1.81"	3.70"	●	●		
NORMALLY CLOSED		6.34"	6.10"	1.81"	3.70"	●	●		

CHAPTER 3

Wide selection of fire department connections and roof manifolds. Several connections and design styles are available, to fit all applications.

FIRE DEPARTMENT CONNECTIONS/ROOF MANIFOLDS

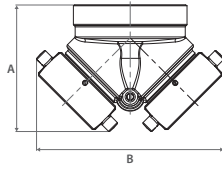
3.1 INLET CONNECTIONS

3.2 OUTLET CONNECTIONS



3.1 INLET CONNECTIONS

A95



BRANDING: "AUTO SPKR"

2-WAY-SINGLE CLAPPER-BACK

300 psi RATED PRESSURE

EXPOSED FIRE DEPT. INLET CONNECTION

Used as an auxiliary inlet connection providing 500 GPM minimum to supplement the fire protection water supply. Swing clapper provides full waterway. Exposed design provides an economical method of satisfying Fire Dept. inlet requirements.



① STANDARD EQUIPMENT:

Cast brass 2-way inlet body with single swing clapper and pin or rocker lug hose thread swivel; straight NPT outlet connection.

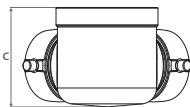
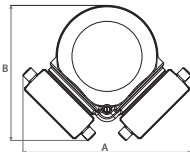
➔ RELATED PRODUCTS



A81 p. 67

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
4" x 2-1/2"	 	5-5/8"	8-5/16"	●			

A96



BRANDING: "AUTO SPKR"

2-WAY-SINGLE CLAPPER-ANGLE

300 psi RATED PRESSURE

EXPOSED FIRE DEPT. INLET CONNECTION

Used as an auxiliary inlet connection providing 500 GPM minimum to supplement the fire protection water supply. swing clapper provides full waterway. Exposed design provides an economical method of satisfying Fire Dept. inlet requirements.



① STANDARD EQUIPMENT:

Cast brass 2-way inlet body with single swing clapper and pin or rocker lug hose thread swivel; angle NPT outlet connection.

➔ RELATED PRODUCTS



A81 p. 67

SIZE	CERTIFICATIONS	DIMENSIONS			FINISHING			
		A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
4" x 2-1/2"	 	8-5/16"	6-11/16"	4-29/32"	●			



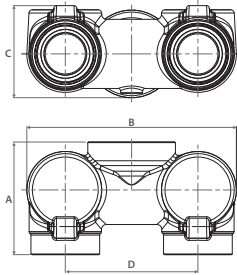
A101



BACK GROOVE



BACK THREADED



STRAIGHT FIRE DEPT. INLET CONNECTION

Concealed auxiliary inlet connection with 500 GPM minimum inlet capacity to supplement fire protection water supply.

STANDARD EQUIPMENT:

Cast brass 2-way inlet body with double drop clappers; NPT threads inlets.

RELATED PRODUCTS



A103 p. 71



A90 p. 69



A91 p. 69



A81 p. 67

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS				FINISHING			
		A	B	C	D	CAST BRASS	POLISHED BRASS	CAST CHROME	POLISHED CHROME
GROOVE CONNECTION									
4" x 2-1/2"		7-1/4"	10-7/8"	5-1/32"	7"	●			
4" x 3"		7-25/32"	12-1/16"	5-9/32"	7-5/8"	●			
6" x 2-1/2"		7-9/16"	11-15/32"	7-3/32"	7-5/8"	●			
THREAD CONNECTION									
4" x 2-1/2"		5-15/16"	10-7/8"	5-1/32"	7"	●			
4" x 3"		6-15/32"	12-1/16"	5-9/32"	7-5/8"	●			
6" x 2-1/2"		6-5-16"	11-15/32"	7-3/32"	7-5/8"	●			
6" x 3"		6-15/16"	12-1/16"	7-15/32"	7-5/8"	●			

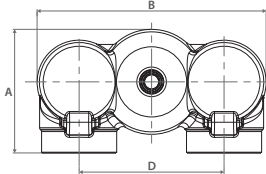
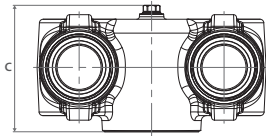
A102



BOTTOM-TOP GROOVE



BOTTOM-TOP THREADED



ANGLE FIRE DEPT. INLET CONNECTION

Concealed auxiliary inlet connection with 500 GPM minimum inlet capacity to supplement fire protection water supply.

① STANDARD EQUIPMENT:

Cast brass 2-way inlet body with double drop clappers; NPT threads inlets. One body can serve as bottom or top feed by reversing clappers.

➔ RELATED PRODUCTS



A103 p. 71



A90 p. 69



A91 p. 69



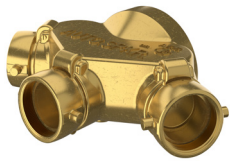
A81 p. 67

175/300 psi RATED PRESSURE

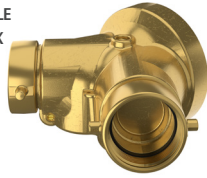
SIZE	CERTIFICATIONS	DIMENSIONS				FINISHING			
		A	B	C	D	CAST BRASS	POLISHED BRASS	CAST CHROME	POLISHED CHROME
GROOVE CONNECTION									
4" x 2-1/2"	300 psi	6-1/32"	10-7/8"	7-15/32"	7"	●			
4" x 3"	300 psi 175 psi	6-1/2"	12-1/16"	7-31/32"	7-5/8"	●			
6" x 2-1/2"	175 psi 175 psi	8-19/32"	11-15/32"	7-3/32"	7-5/8"	●			
THREAD CONNECTION									
4" x 2-1/2"	300 psi	6-1/32"	10-7/8"	6-5/32"	7"	●			
4" x 3"	300 psi 175 psi	6-1/2"	12-1/16"	6-21/32"	7-5/8"	●			
6" x 2-1/2"	175 psi 175 psi	8-19/32"	11-15/32"	6-23/32"	7-5/8"	●			
6" x 3"	175 psi	9-3/16"	12"	6-3/4"	7-5/8"	●			



A105

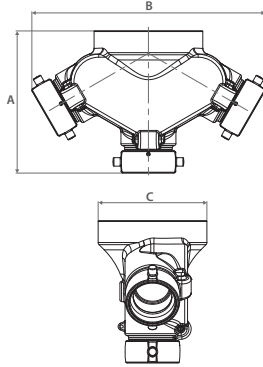


3-WAY TRIPLE CLAPPER BACK



2-WAY DOUBLE CLAPPER BACK

A105-1 - AUTO-SPKR,
A105-2 - STANDPIPE
A105-3 - PLAIN



EXPOSED STRAIGHT FIRE DEPT. INLET CONNECTION CLAPPER TYPE

Used as an auxiliary inlet connection providing 500 GPM minimum to supplement the fire protection water supply. Swing clapper provides full waterway. Exposed design provides an convenient method of satisfying Fire Dept. inlet requirements.

① STANDARD EQUIPMENT:

Cast brass 2-way or 3-way inlet body with drop clappers on each way and pin lug hose thread swivels; straight NPT outlet connection.

➤ RELATED PRODUCTS



175/300 psi RATED PRESSURE

A81 p. 67

SIZE	WAYS	CERTIFICATIONS	DIMENSIONS			FINISHING				BRANDING
			A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME	
GROOVE CONNECTION										
4" x 2-1/2"	2	300 psi	9-13/32"	13-9/32"	5-1/32"	●	●		●	
6" x 2-1/2"	2		9-17/64"	15-13/64"	7-3/32"	●	●		●	
THREAD CONNECTION										
4" x 2-1/2"	2	175 psi 300 psi	7-9/32"	11-21/32"	5-1/32"	●	●		●	AUTO-SPKR STANDPIPE
4" x 3"	2	300 psi	8-1/32"	12-7/8"	5-1/32"	●	●		●	AUTO-SPKR STANDPIPE NEUTRAL
6" x 2-1/2"	2	175 psi	8-5/32"	11-21/32"	7-3/32"	●	●		●	AUTO-SPKR STANDPIPE NEUTRAL
6" x 3"	2	300 psi	8-3/4"	12-7/8"	7-15/32"	●	●		●	AUTO-SPKR STANDPIPE NEUTRAL
4" x 2-1/2"	3		9-1/4"	15-3/16"	7-3/32"	●				AUTO-SPKR STANDPIPE
6" x 2-1/2"	3		9-1/4"	15-3/16"	7-3/32"	●				AUTO-SPKR STANDPIPE NEUTRAL

A106

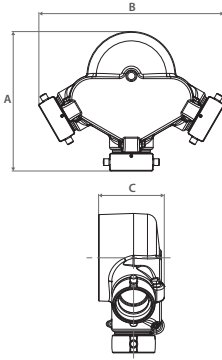


3-WAY TRIPLE CLAPPER ANGLE



2-WAY DOUBLE CLAPPER ANGLE

A106-1 - AUTO-SPKR
A106-2 - STANDPIPE
A106-3 - PLAIN



EXPOSED ANGLE FIRE DEPT. INLET CONNECTION CLAPPER TYPE

Used as an auxiliary inlet connection providing 500 GPM minimum to supplement the fire protection water supply. Swing clapper provides full waterway. Exposed design provides a convenient method of satisfying Fire Dept. inlet requirements.

① STANDARD EQUIPMENT:

Cast brass 2-way or 3-way inlet body with double drop clappers on each way and pin lug hose thread swivels; angle NPT outlet connection.

➔ RELATED PRODUCTS



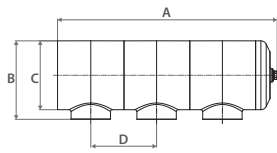
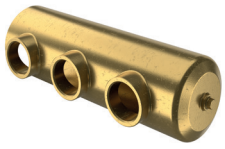
175/300 psi RATED PRESSURE

A81 p. 67

SIZE	WAYS	CERTIFICATIONS	DIMENSIONS			FINISHING				BRANDING
			A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME	
4" x 2-1/2"	2		8-1/2"	11-21/32"	5-13/32"	●				AUTO-SPKR STANDPIPE
4" x 3"	2		9-3/32"	12-7/8"	5-21/32"	●				AUTO-SPKR STANDPIPE NEUTRAL
6" x 2-1/2"	2		9-15/32"	11-21/32"	5-13/32"	●				AUTO-SPKR STANDPIPE NEUTRAL
6" x 3"	2		10-9/32"	12-7/8"	5-7/8"	●				AUTO-SPKR STANDPIPE NEUTRAL
4" x 2-1/2"	3		11-15/32"	15-3/16"	5-13/32"	●				AUTO-SPKR STANDPIPE
6" x 2-1/2"	3		11-15/32"	15-3/16"	5-13/32"	●				AUTO-SPKR STANDPIPE NEUTRAL



A111



END OUTLET BODY

FLUSH FIRE DEPT. INLET CONNECTIONS CLAPPER SNOOT TYPE

Used as an auxiliary inlet connection to supplement the fire protection water supply. Available with 3, 4, 6 outlets; NPT threads.

Made of forged brass.

UL certified as both roof manifold and flush fire dept. connection.

RELATED PRODUCTS



A90C p. 70



A91C p. 70

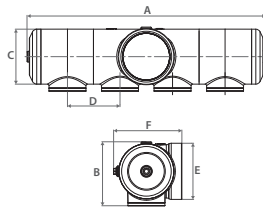
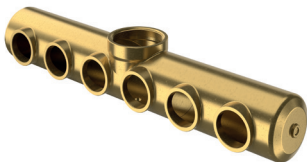


A53 p. 25

300 psi RATED PRESSURE

SIZE	WAYS	CERTIFICATIONS	DIMENSIONS				FINISHING			
			A	B	C	D	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
6" x 3"	3		23-3/8"	8-11/32"	7-11/32"	7"	●			
	4		30-3/8"	8-11/32"	7-11/32"	7"				
	6		44-3/8"	8-11/32"	7-11/32"	7"				
8" x 3"	6		① 6" body with adapter 6"x8"				●			

A113



ANGLE OUTLET BODY

FLUSH FIRE DEPT. INLET CONNECTIONS CLAPPER SNOOT TYPE

Used as an auxiliary inlet connection to supplement the fire protection water supply. Available with 4, 6 outlets; NPT threads.

Made of forged brass.

RELATED PRODUCTS



A90C p. 70



A91C p. 70



A53 p. 25

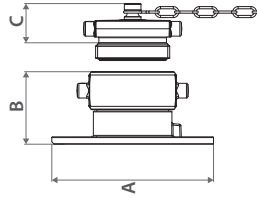
300 psi RATED PRESSURE

SIZE	WAYS	CERTIFICATIONS	DIMENSIONS						FINISHING			
			A	B	C	D	E	F	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
6" x 3"	4		31-25/32"	8-17/32"	7-11/32"	7"	7-15/32"	9-3/32"	●			
8" x 3"	6		① 6" body with adapter 6"x8"						●			

A190T



ANGLE OUTLET BODY



RESIDENTIAL FIRE DEPT. CONNECTION

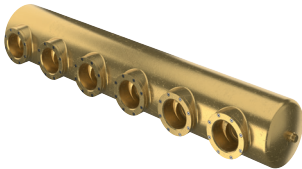
Inlet connection to supplement the water supply to a residential sprinkler system.

Rated pressure: 175 psi

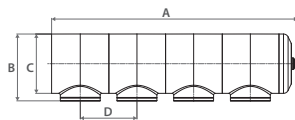
175 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS			FINISHING			
		A	B	C	ROUGH BRASS	POLISHED BRASS	CHROME	POLISHED CHROME
1-1/2" x 1-1/2"		4-11/32"	1-61/64"	29/32"	●			

A121



END OUTLET BODY



FLUSH FIRE DEPT. INLET CONNECTIONS CLAPPER BODY TYPE

Used as an auxiliary inlet connection to supplement the fire protection water supply. Drop clappers provide unobstructed waterway. Supplied with HL configuration Available with 4, 6 outlets; NPT threads. Made of forged brass.

Standard version "horizontal Left".

RELATED PRODUCTS



A90 p. 69



A91 p. 69



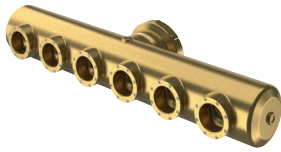
A81 p. 67

300 psi RATED PRESSURE

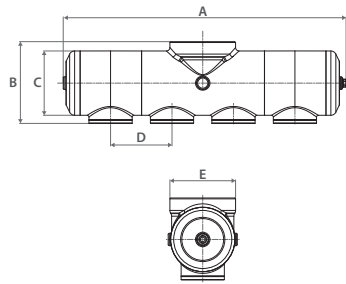
SIZE	WAYS	CERTIFICATIONS	DIMENSIONS				FINISHING			
			A	B	C	D	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
6" x 3"	4		30-3/8"	8-1/4"	7-11/32"	7"	●			
	6		44-3/8"	8-1/4"	7-11/32"	7"				
8" x 3"	6		① 6" body with adapter 6"x8"				●			



A122



BACK OUTLET BODY



FLUSH FIRE DEPT. INLET CONNECTIONS CLAPPER BODY TYPE

Used as an auxiliary inlet connection to supplement the fire protection water supply. Drop clappers provide unobstructed waterway.

Supplied with H configuration. Available with 4, 6 outlets; NPT threads. Made of forged brass. Standard version "horizontal back".

RELATED PRODUCTS



A90 p. 69



A91 p. 69



A81 p. 67

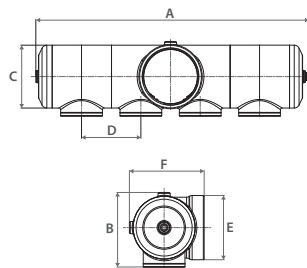
300 psi RATED PRESSURE

SIZE	WAYS	CERTIFICATIONS	DIMENSIONS					FINISHING			
			A	B	C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
6" x 3"	4		32-7/32"	9-5/16"	7-11/32"	7"	7-15/32"	●			
	6		46-7/32"	9-5/16"	7-11/32"	7"	7-15/32"				
8" x 3"	6		① 6" body with adapter 6"x8"					●			

A123



ANGLE OUTLET BODY



FLUSH FIRE DEPT. INLET CONNECTIONS CLAPPER BODY TYPE

Used as an auxiliary inlet connection to supplement the fire protection water supply. Drop clappers provide unobstructed waterway. Supplied with HB configuration. Available with 4, 6 outlets; NPT threads. Made of forged brass.

Standard version "horizontal bottom".

RELATED PRODUCTS



A90 p. 69



A91 p. 69



A81 p. 67

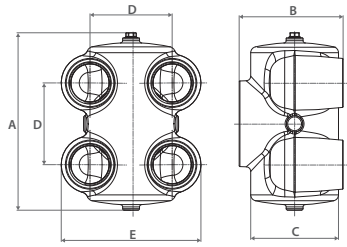
300 psi RATED PRESSURE

SIZE	WAYS	CERTIFICATIONS	DIMENSIONS						FINISHING			
			A	B	C	D	E	F	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
6" x 3"	4		31-25/32"	8-17/32"	7-11/32"	7"	7-15/32"	9-3/32"	●			
	6		45-25/32"	8-17/32"	7-11/32"	7"	7-15/32"	9-3/32"				
8" x 3"	6		① 6" body with adapter 6"x8"						●			

A114



BACK OUTLET BODY



FLUSH FIRE DEPT. INLET CONNECTIONS CLAPPER SNOOT TYPE

Used as an auxiliary inlet connection to supplement the fire protection water supply.

Available with NPT threads. Casted bronze.

4-way square body.

RELATED PRODUCTS



A90C p. 70



A91C p. 70



A53 p. 25

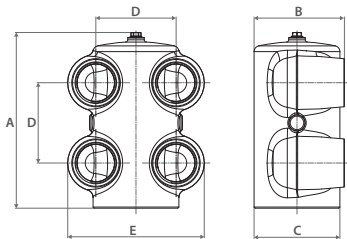
300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	D	E	ROUGH BRONZE	POLISHED BRONZE	ROUGH CHROME	POLISHED CHROME
6" x 3"		15-3/16"	8-27/32"	7-15/32"	7"	11-15/16"	●			
8" x 3"		① 6" body with adapter 6"x8"					●			

A115



ANGLE OUTLET BODY



FLUSH FIRE DEPT. INLET CONNECTIONS CLAPPER SNOOT TYPE

Used as an auxiliary inlet connection to supplement the fire protection water supply.

Available with NPT threads. Casted bronze.

4-way square body.

RELATED PRODUCTS



A90C p. 70



A91C p. 70



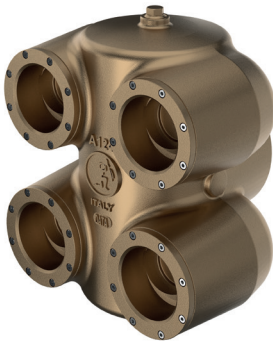
A53 p. 25

300 psi RATED PRESSURE

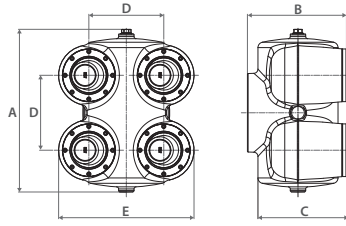
SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	D	E	ROUGH BRONZE	POLISHED BRONZE	ROUGH CHROME	POLISHED CHROME
6" x 3"		15-11/32"	7-7/8"	7-15/32"	7"	11-15/16"	●			
8" x 3"		① 6" body with adapter 6"x8"					●			



A124



BACK OUTLET BODY



FLUSH FIRE DEPT. INLET CONNECTIONS CLAPPER BODY TYPE

Used as an auxiliary inlet connection to supplement the fire protection water supply. Drop clappers provide unobstructed waterway. Available with NPT threads. Casted bronze. 4-way square body.

RELATED PRODUCTS



A90C p. 70



A91C p. 70

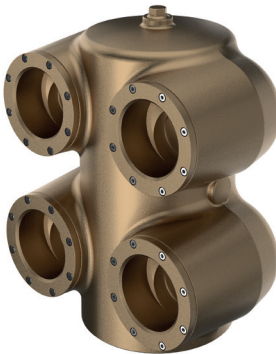


A53 p. 25

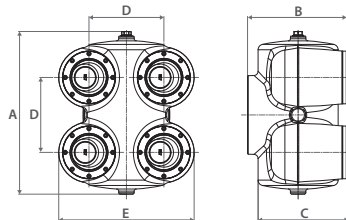
300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	D	E	ROUGH BRONZE	POLISHED BRONZE	ROUGH CHROME	POLISHED CHROME
6" x 3"		15-3/16"	9-1/4"	7-15/32"	7"	12-21/32"	●			
8" x 3"		① 6" body with adapter 6"x8"					●			

A125



ANGLE OUTLET BODY



FLUSH FIRE DEPT. INLET CONNECTIONS CLAPPER BODY TYPE

Used as an auxiliary inlet connection to supplement the fire protection water supply. Drop clappers provide unobstructed waterway. Supplied with B configuration; NPT threads. Casted bronze. 4-way square body.

RELATED PRODUCTS



A90C p. 70



A91C p. 70



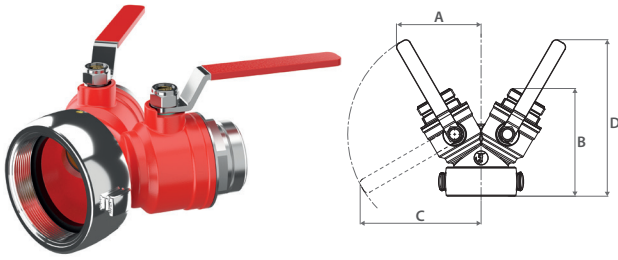
A53 p. 25

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	D	E	ROUGH BRONZE	POLISHED BRONZE	ROUGH CHROME	POLISHED CHROME
6" x 3"		15-11/32"	8-9/32"	7-15/32"	7"	12-21/32"	●			
8" x 3"		① Standard version "Bottom". 6" body with adapter 6"x8"					●			

3.2 OUTLET CONNECTIONS

A99



LEADER LINE 1/4 TURN BALL TYPE WYE VALVE

Chrome plated finishing with rocker lug swivels.

① STANDARD EQUIPMENT:

Red painted brass - Chrome plated swivel rocker lug

➤ RELATED PRODUCTS



A53 p. 25



A56E p. 20



A97 p. 48

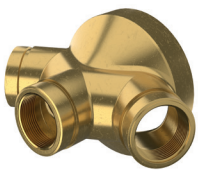


A98 p. 49

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS				FINISHING			
		A	B	C	D	FORGED BRASS	POLISHED BRASS	ROUGH CHROME	CHROME PLATED
2-1/2" x 1-1/2"		4-7/32"	5-17/32"	6-1/32"	7-31/32"	●			●

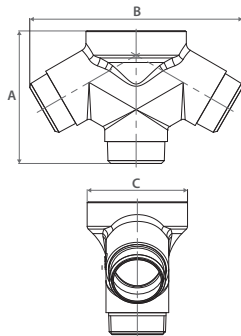
A97



3-WAY-BACK



2-WAY-BACK



ROOF FIRE DEPT. OUTLET CONNECTION

Used as a standpipe roof outlet connection by the fire service. Provides 250 GPM minimum per outlet. Used with straight or angle hose valves to provide water control.

① STANDARD EQUIPMENT:

Cast brass body with female NPT inlet and male NPT or male hose thread outlets. Straight connection

➤ RELATED PRODUCTS



A53 p. 25



A53G p. 25



A56E p. 20

300 psi RATED PRESSURE

SIZE	WAYS	CERTIFICATIONS	DIMENSIONS			FINISHING			
			A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
4" x 2-1/2"	2		4-25/32"	6-5/8"	5-1/32"	●			
	3		6-21/32"	10-11/16"	5-1/32"	●			
6" x 2-1/2"	2		5-23/32"	8-5/8"	7-3/32"	●			
	3		6-7/8"	10-13/16"	7-3/32"	●			



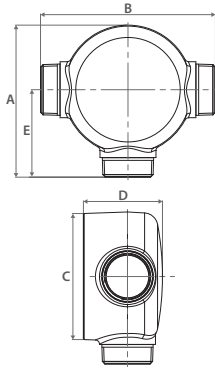
A98



3-WAY-ANGLE



2-WAY-ANGLE



ROOF FIRE DEPT. OUTLET CONNECTION

Used as a standpipe roof outlet connection by the fire service. Provides 250 GPM minimum per outlet. Used with straight or angle hose valves to provide water control.

STANDARD EQUIPMENT:

Cast brass body with female NPT inlet and male NPT or male hose thread outlets. Angle connection.

RELATED PRODUCTS



A53 p. 25



A53G p. 20



A56E p. 20

300 psi RATED PRESSURE

SIZE	WAYS	CERTIFICATIONS	DIMENSIONS					FINISHING			
			A	B	C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
4" x 2-1/2"	2		5-31/32"	6-29/32"	5-1/32"	4-29/32"	3-15/32"	●			
	3		6-15/32"	7-23/32"	5-1/32"	4-5/16"	3-27/32"	●			
6" x 2-1/2"	2		8"	8-3/4"	7-3/32"	4-17/32"	4-3/8"	●			
	3		8-9/16"	9-27/32"	7-3/32"	4-7/16"	4-29/32"	●			

CHAPTER 4

Brass and plastic for nozzles
with large selection
of threads and finishing.

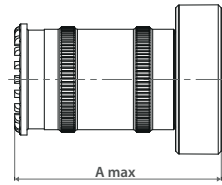
NOZZLES

- 4.1 BRASS NOZZLES
- 4.2 PLASTIC NOZZLES



4.1 BRASS NOZZLES

A7








ADJUSTABLE FOG NOZZLE

Adjustable fog nozzle. For Hose Back.

① STANDARD EQUIPMENT:

Forged brass nozzle with adjustment from full fog to solid stream and shut-off.

100 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS	FINISHING			
		A max	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
WITHOUT BUMPER						
1-1/2"	 	3-13/16"	●			
WITH BUMPER						
1-1/2"	 	3-13/16"	●		●	
2-1/2"		4-29/32"	●			

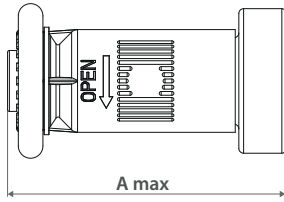


4.2 PLASTIC NOZZLES

A7P



WITH BUMPER





PLASTIC ADJUSTABLE FOG NOZZLE WITH RUBBER BUMPER

Plastic (polycarbonate). For residential application.

① STANDARD EQUIPMENT:

Nozzle with adjustment from full fog to solid stream and shut-off. Made of ABS.

100 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS	FINISHING			
		A max	RED PLASTIC	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2"	 	4-31/32"	●			

CHAPTER 5

Angle and straight Test and Drain valves
with large selection of orifices
to match all k-factors.
The line is completed
by certified line testers.

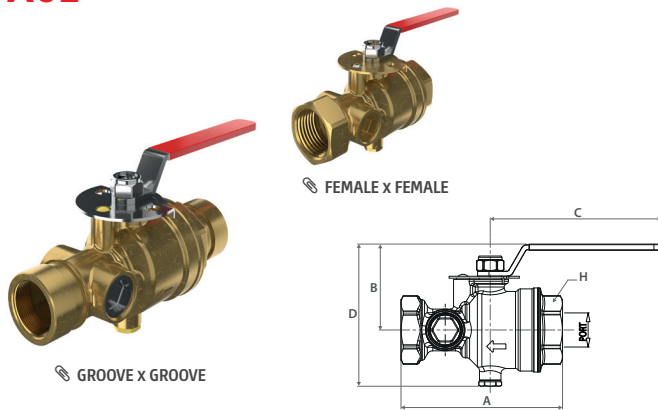
SPECIALTIES

5.1 TEST AND DRAIN VALVES, LINE TESTER



5.1 TEST AND DRAIN VALVES, LINE TESTER

A61



STRAIGHT TEST AND DRAIN VALVE

It combines the function of testing and draining the system.

① STANDARD EQUIPMENT:

Groove or Female NPT or Rp ISO thread inlet and outlet, forged brass body, chrome plated ball with PTFE seats.
UL 258: 2025 made of DZR EN 12165 CW602N brass body

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS							FINISHING			
		C (PLUG)	P (PORT)	A	B	C	D	H	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
FEMALE x FEMALE												
1"		5-1/32"	2-11/16"	5-11/32"	4-13/32"	-	-	1-29/32"	●			
1-1/4"		5-1/32"	2-11/16"	5-11/32"	4-13/32"	-	-	1-29/32"	●			
1-1/2"		6-3/16"	4"	6-13/16"	6-9/32"	-	-	2-5/8"	●			
2"		6-3/16"	4"	6-13/16"	6-9/32"	-	-	2-5/8"	●			

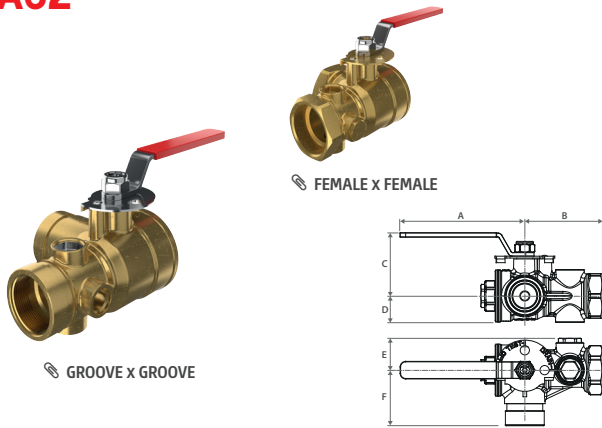
GROOVE x GROOVE												
1-1/4"		1/4"	1-1/16"	6-13/32"	2-43/64"	5-11/32"	4-27/64"	1-1/4" groove	●			
2"		1/4"	1-12/16"	7-17/32"	4"	6-26/32"	6-21/64"	2" groove	●			

SIZE	ORIFICE	K FACTOR
1"	3/8"	2.8
	7/16"	4.2
	1/2"	5.6
	17/32"	8.0
1-1/4"	3/8"	2.8
	7/16"	4.2
	1/2"	5.6
	17/32"	8.0
	5/8"	11.2
1-1/2"	3/4"	14.0
	7/16"	4.2
	1/2"	5.6
	17/32"	8.0
	5/8"	11.2

SIZE	ORIFICE	K FACTOR
2"	7/16"	4.2
	1/2"	5.6
	17/32"	8.0
	5/8"	11.2
	3/4"	14.0
	15/16"	16.8
	1-5/64"	22.4
	1-9/64"	25.2



A62



ANGLE TEST AND DRAIN VALVE

It combines the function of testing and draining the system.

① STANDARD EQUIPMENT:

Groove or Female NPT inlet and outlet, forged brass body, chrome plated ball with PTFE seats. UL 258: 2025 made of DZR EN 12165 CW602N brass body

300 psi RATED PRESSURE

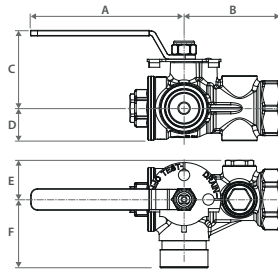
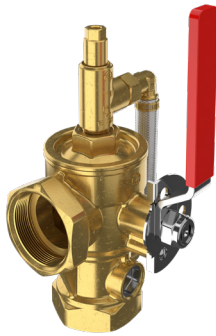
SIZE	CERTIFICATIONS	DIMENSIONS						FINISHING			
		A	B	C	D	E	F	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
FEMALE x FEMALE											
1-1/4"		5-1/3"	3-1/3"	2-2/3"	1"	1-23/64"	1-31/32"	●			
2"		6-4/16"	3-55/64"	4"	1-5/8"	1-25/64"	1-1/16"	●			
GROOVE x GROOVE											
1-1/4"		5-1/4"	3-11/16"	2-11/16"	1-3/32"	1-23/64"	2-3/8"	●			
2"		6-13/16"	4-11/32"	4"	1-5/8"	1-37/64"	3-11/32"	●			
GROOVE x FEMALE											
1-1/4"		5-1/4"	3-5/16"	2-11/16"	1-3/32"	1-23/64"	2-12/32"	●			
2"		6-13/16"	3-55/64"	4"	1-5/8"	1-3/4"	3-11/32"	●			

SIZE	ORIFICE	K FACTOR
1-1/4"	3/8"	2.8
	7/16"	4.2
	1/2"	5.6
	17/32"	8.0
	5/8"	11.2*
	3/4"	14.0*
2"	7/16"	4.2
	1/2"	5.6
	17/32"	8.0
	5/8"	11.2
	3/4"	14.0
	15/16"	16.8
	1-5/64"	22.4
	1-9/64"	25.2

* Not UL listed



A62K



TEST AND DRAIN VALVE

A62K is the combination of A62. Test and Drain valve with a UL listed, pressure relief valve. The kit include a plastic pipe to connect the discharge of the relief valve to drain.

300 psi RATED PRESSURE

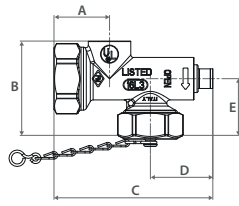
SIZE	CERTIFICATIONS	DIMENSIONS						FINISHING			
		A	B	C	D	E	F	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
FEMALE x FEMALE											
1-1/4"		4-5/8"	3-5/16"	2-11/16"	3-25/32"	3-5/16"	1-31/32"	●			
2"		5-1/2"	4"	6-13/16"	5-5/8"	3-27/32"	2-5/8"	●			
GROOVE x GROOVE											
1-1/4"		5-1/32"	3-11/16"	5-1/4"	3-25/32"	3-11/16"	2-3/8"	●			
2"		6-7/32"	4"	6-13/16"	5-5/8"	4-1/8"	3-3/8"	●			
GROOVE x FEMALE											
1-1/4"		5-1/32"	2-11/16"	5-1/4"	3-25/32"	1-23/64"	2-3/8"	●			
2"		6-3/8"	4"	6-13/16"	5-5/8"	1-3/4"	3-11/32"	●			

SIZE	ORIFICE	K FACTOR
1-1/4"	3/8"	2.8
	7/16"	4.2
	1/2"	5.6
	17/32"	8.0
	5/8"	11.2*
	3/4"	14.0*
2"	7/16"	4.2
	1/2"	5.6
	17/32"	8.0
	5/8"	11.2
	3/4"	14.0
	15/16"	16.8
	1-5/64"	22.4
	1-9/64"	25.2

* Not UL listed



A59



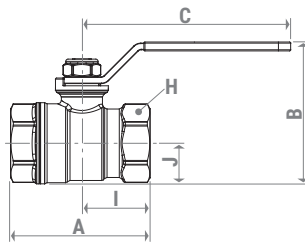
LINE-TESTER

Brass unit used on the end off branch lines to flush system.
Fits 1/2" sprinkler head.

175 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS					FINISHING			
		A	B	C	D	E	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1" x 1" x 1/2"		1-11/32"	2-3/16"	4"	1-1/2"	1-9/32"	●			

A250



STANDARD PORT BALL VALVE

Ball valve, with female-female threaded connections. Standard Port.

In compliance with UL 258:2025 for fire protection applications with water.

Made of DZR brass (dezincification resistant).

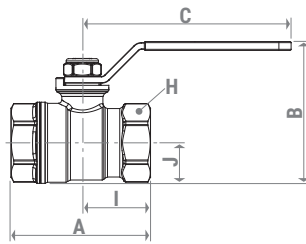
175/600 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS						FINISHING			
		A	I	B	J	C	H	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1/2"F x 1/2"F ISO THREAD		54	27	49	15	77	wr.25	●		●	
3/4"F x 3/4"F ISO THREAD		63	31	64	18	94	wr.32	●		●	
1"F x 1"F ISO THREAD		75	38	73	23	94	wr.39	●		●	
1-1/4"F x 1-1/4"F ISO THREAD		84	42	82	28	94	wr.48	●		●	
1-1/2"F x 1-1/2"F ISO THREAD		93	46	100	33	136	wr.55	●		●	
2"F x 2"F ISO THREAD		107	54	115	41	136	wr.67	●		●	
1/2"NPT-F x 1/2"NPT-F		54	27	49	15	77	wr.25	●			
3/4"NPT-F x 3/4"NPT-F		63	31	64	18	94	wr.32	●			
1"NPT-F x 1"NPT-F		75	38	73	23	94	wr.39	●			
1-1/4"NPT-F x 1-1/4"NPT-F		84	42	82	28	94	wr.48	●			
1-1/2"NPT-F x 1-1/2"NPT-F		93	46	100	33	136	wr.55	●			
2"NPT-F x 2"NPT-F		107	54	115	41	136	wr.67	●			





A730

FULL PORT PORT BALL VALVE



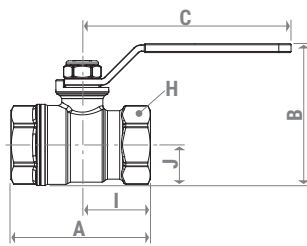
Ball valve, with female-female threaded connections. Full Port. In compliance with UL 258:2025 for fire protection applications with water. Made of lead free DZR brass (dezincification resistant).

175/600 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS						FINISHING			
		A	I	B	J	C	H	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	NICKEL
1/2" F x 1/2" F ISO THREAD	 	57	28	53	16	77	wr.25	●			●
3/4" F x 3/4" F ISO THREAD		62	31	70	21	95	wr.32	●			●
1" F x 1" F ISO THREAD		76	38	78	25	95	wr.39	●			●
1-1/4" F x 1-1/4" F ISO THREAD		86	43	88	30	95	wr.47	●			●
1-1/2" F x 1-1/2" F ISO THREAD		97	48	109	37	137	wr.54	●			●
2" F x 2" F ISO THREAD		111	55	125	46	137	wr.67	●			●
1/2" NPT-F x 1/2" NPT-F		57	28	53	16	77	wr.25	●			
3/4" NPT-F x 3/4" NPT-F		62	31	70	21	95	wr.32	●			
1" NPT-F x 1" NPT-F		76	38	78	25	95	wr.39	●			
1-1/4" NPT-F x 1-1/4" NPT-F		86	43	88	30	95	wr.47	●			
1-1/2" NPT-F x 1-1/2" NPT-F		97	48	109	37	137	wr.54	●			
2" NPT-F x 2" NPT-F		111	55	125	46	137	wr.67	●			



A830





FULL PORT BALL VALVE

Ball valve, with female-female threaded connections. Full Port.

In compliance with UL 258:2025 for fire protection applications with water.

Made of DZR (dezincification resistant) low lead brass.

175/600 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS						FINISHING			
		A	I	B	J	C	H	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1/2" F x 1/2" F ISO THREAD	 	53	27	51	16	77	wr.25	●			
3/4" F x 3/4" F ISO THREAD		60	30	67	20	95	wr.31	●			
1" F x 1" F ISO THREAD		74	37	76	25	95	wr.38	●			
1-1/4" F x 1-1/4" F ISO THREAD		84	42	85	29	95	wr.47	●			
1-1/2" F x 1-1/2" F ISO THREAD		95	47	104	35	137	wr.54	●			
2" F x 2" F ISO THREAD		109	54	120	43	137	wr.66	●			
1/4" NPT-F x 1/4" NPT-F		43	21	36	10	43	wr.17	●			
3/8" NPT-F x 3/8" NPT-F		46	23	45	13	77	wr.20	●			
1/2" NPT-F x 1/2" NPT-F		53	27	51	16	77	wr.25	●			
3/4" NPT-F x 3/4" NPT-F		60	30	67	20	95	wr.31	●			
1" NPT-F x 1" NPT-F		74	37	76	25	95	wr.38	●			
1-1/4" NPT-F x 1-1/4" NPT-F		84	42	85	29	95	wr.47	●			
1-1/2" NPT-F x 1-1/2" NPT-F		95	47	104	35	137	wr.54	●			
2" NPT-F x 2" NPT-F		109	54	120	43	137	wr.66	●			

CHAPTER 6

Wide range of adapters and accessories to complete and improve the fire protection range of products.

ACCESSORIES AND ADAPTERS

- 6.1 CABINET ACCESSORIES
- 6.2 FIRE DEPARTMENT CONNECTION ACCESSORIES
- 6.3 ADAPTERS
- 6.4 OTHERS

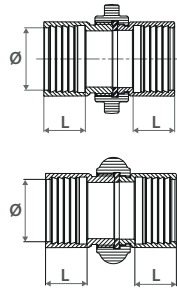


6.1 CABINET ACCESSORIES

A70



PIN LUG



DOUBLE LUG BRASS COUPLING - PIN LUG TYPE

Coupling for use with synthetic linen, single or double jacket hose.

① STANDARD EQUIPMENT:

▲ Expansion ring not supplied.
Coupling Jacket:

S Single Jacket
D Double Jacket
L Synthetic Linen

250/400 psi RATED PRESSURE

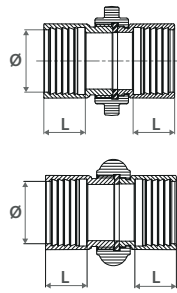
TYPE	CERTIFICATIONS	DIMENSIONS				FINISHING			
		LENGHT	THREAD	ØI	JACKET	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
PIN LUG TYPE									
C0		28,5	1-1/2" NST	1-11/16"	L	●		●	●
D0		28,5	1-1/2" NPSH	1-11/16"	L	●		●	●
E		31,8	1-1/2" NST	1-3/4"	S	●		●	●
F		31,8	1-1/2" NPSH	1-3/4"	S	●		●	●
P		31,8	1-1/2" NST	1-13/16"	S	●		●	●
T		38,2	1-1/2" NST	1-15/16"	D	●		●	●
A1		38,8	2-1/2" NST	2-11/16"	L	●		●	●
C1		38,8	2-1/2" NST	2-11/16"	S	●		●	●
B1		38,8	2-1/2" NYFD	2-11/16"	L	●		●	●
B2		38,8	2-1/2" NYC	2-11/16"	L	●		●	●
L1		38,8	2-1/2" NYFD	2-11/16"	S	●		●	●
D1		38,8	2-1/2" NST	2-13/16"	S	●		●	●
D2D		38,8	2-1/2" NYFD	2-13/16"	S	●		●	●
M1		45,2	2-1/2" NST	3"	D	●		●	●
AA		31,8	2" NST	2-19/64"	S	●		●	●
BB		31,8	2" NPSH	2-19/64"	S	●		●	●
CC		38,2	2" NST	2-35/64"	D	●		●	●
DD		38,2	2" NPSH	2-35/64"	D	●		●	●



A70



PIN LUG



DOUBLE LUG BRASS COUPLING - ROCKER LUG TYPE

Coupling for use with synthetic linen, single or double jacket hose.

① STANDARD EQUIPMENT:

▲ Expansion ring not supplied.
Coupling Jacket:

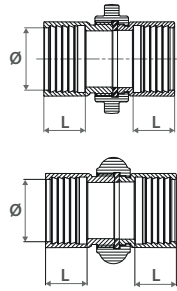
- S Single Jacket
- D Double Jacket
- L Synthetic Linen

250/400 psi RATED PRESSURE

TYPE	CERTIFICATIONS	DIMENSIONS				FINISHING			
		LENGHT	THREAD	ØI	JACKET	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
ROCKER LUG TYPE									
A0		28,5	1-1/2" NST	1-11/16"	L	●		●	●
B0		28,5	1-1/2" NPSH	1-11/16"	L	●		●	●
M		31,8	1-1/2" NST	1-3/4"	S	●		●	●
O		31,8	1-1/2" NPSH	1-3/4"	S	●		●	●
Q		31,8	1-1/2" NST	1-13/16"	S	●		●	●
S		31,8	1-1/2" NPSH	1-13/16"	S	●		●	●
U0		38,2	1-1/2" NST	1-7/8"	D	●		●	●
Z0		38,2	1-1/2" NPSH	1-7/8"	D	●		●	●
U		38,2	1-1/2" NST	1-15/16"	D	●		●	●
Z		38,2	1-1/2" NPSH	1-15/16"	D	●		●	●
M0		38,2	1-1/2" NST	1-3/4"	D	●		●	●
00		38,2	1-1/2" NPSH	1-3/4"	D	●		●	●
E1		38,8	2-1/2" NST	2-13/16"	S	●		●	●
A3		38,8	2-1/2" CSA	2-3/4"	S	●		●	●
C3		38,8	2-1/2" QST	2-3/4"	S	●		●	●
E3		38,8	2-1/2" BCT	2-3/4"	S	●		●	●
F3		38,8	2-1/2" WCT	2-3/4"	S	●		●	●
D3		38,8	2-1/2" NST	2-3/4"	S	●		●	●
H3		38,8	2-1/2" NST	2-3/4"	S	●		●	●
N1		45,2	2-1/2" NST	3"	D	●		●	●
B3	45,2	2-1/2" CSA	3"	D	●		●	●	
G3	45,2	2-1/2" QST	3"	D	●		●	●	



A70



SINGLE LUG BRASS COUPLING

Coupling for use with synthetic linen, single or double jacket hose.

① STANDARD EQUIPMENT:

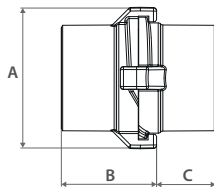
▲ Expansion ring not supplied.
Coupling Jacket:

S Single Jacket
D Double Jacket
L Synthetic Linen

300 psi RATED PRESSURE

TYPE	CERTIFICATIONS	DIMENSIONS				FINISHING			
		LENGHT	THREAD	Ø	JACKET	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
PIN LUG TYPE									
A		28,5	1-1/2" NST	1-11/16"	L	●		●	●
A2		28,5	1-1/2" CHT	1-11/16"	L	●			
B		28,5	1-1/2" NPSH	1-11/16"	L	●			
L		28,5	1-1/2" NYFD	1-11/16"	L	●			
C		28,5	1-1/2" NST	1-3/4"	S	●			
ROCKER LUG TYPE									
G		28,5	1-1/2" NST	1-11/16"	L	●		●	
I		28,5	1-1/2" NPSH	1-11/16"	L	●		●	●

A71



FORESTRY COUPLING

Forged brass quick connect coupling for forestry fire hose.

① STANDARD EQUIPMENT:

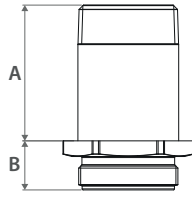
▲ Expansion ring not supplied.

175 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS			FINISHING			
		A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2"		2-49/64"	1-13/16"	1-9/32"	●			



A65



300 psi RATED PRESSURE

HOSE RACK MOUNTING NIPPLE

Used to support Hose Rack from valve and adapt pipe thread to hose thread.

① **STANDARD EQUIPMENT:**

Forged brass finish nipple with male NPT inlet x male hose thread outlet.

➔ **RELATED PRODUCTS**



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A155 p. 28



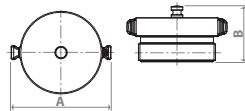
A80 p. 68

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2" x 1-1/2"		2-9/16"	59/64"	●	●	●	
2-1/2" x 2-1/2"		3-7/64"	1-11/32"	●		●	

A81



♂ MALE



PLUG AND CHAIN

For Fire Dept. inlet connections. prevents deposit of foreign material and protects female threads.

① **STANDARD EQUIPMENT:**

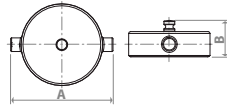
Forged brass plug with male hose thread. Available with pin or rocker lugs.

400 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS	FINISHING			
		A	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2"		1-35/64"	●			
2-1/2"		2-7/32"	●	●	●	●
3"		2-3/8"	●			



A80



FEMALE

CAP AND CHAIN

To cover and protect male outlet threads on valves and hydrants.
Prevents deposit of foreign material.

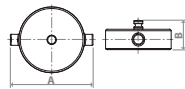
① STANDARD EQUIPMENT:

Forged brass.
Available with pin or rocker lugs.

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2" x 1-1/2"		2-9/16"	59/64"	●		●	
2-1/2" x 2-1/2"		3-7/64"	1-11/32"	●		●	

A80P



FEMALE

PLASTIC CAP AND CHAIN

To cover and protect male outlet threads on valves and hydrants.
Prevents deposit of foreign material.

① STANDARD EQUIPMENT:

ABS - supplied with gasket.
Available with rocker lugs.

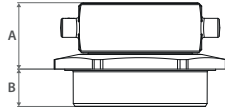
100 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2"		1-15/64"					
2-1/2"		1-35/64"					



6.2 FIRE DEPARTMENT CONNECTION ACCESSORIES

A90



FEMALE (SWIVEL) x FEMALE NPT

300 psi RATED PRESSURE

FEMALE OPEN SNOOT

Used to connect fire hose standpipe or sprinkler system.

① STANDARD EQUIPMENT:

Polish brass with female (swivel) hose inlet x female NPT outlet. Swivel supplied with pin or rocker lugs.

➤ RELATED PRODUCTS



A101 p. 39



A102 p. 40



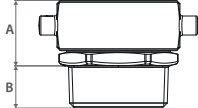
A81 p. 67



A103 p. 71

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
2-1/2" x 2-1/2"		1-7/8"	13/16"		●		●
2-1/2" x 3"		2-1/64"	1-1/32"	●	●		●

A91



FEMALE (SWIVEL) x MALE NPT

300 psi RATED PRESSURE

MALE OPEN SNOOT

Used to connect fire hose standpipe or sprinkler system.

① STANDARD EQUIPMENT:

Forged brass with female (swivel) hose inlet x male NPT outlet. Swivel supplied with pin or rocker lugs.

➤ RELATED PRODUCTS



A101 p. 39



A102 p. 40



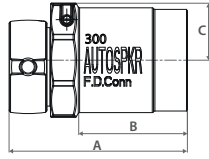
A81 p. 67



A103 p. 71

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2" x 1-1/2"		8-5/8"	13/16"	●	●		
2-1/2" x 2"		10-57/64"	51/64"	●			
2-1/2" x 2-1/2"		10-57/64"	1-15/64"	●	●		●
2-1/2" x 3"		10-31/32"	1-13/64"	●	●	●	●

A90C



FEMALE (SWIVEL) x FEMALE NPT

300 psi RATED PRESSURE

FEMALE CHECK SNOOT (CLAPPER TYPE)

Used to connect fire hose or multiple Fire Dept. connections. Acts as a check against an excess backflow of water.

① STANDARD EQUIPMENT:

Cast brass with female (swivel) hose inlet x female NPT outlet and checking device. Swivel supplied with pin or rocker lugs.

➔ RELATED PRODUCTS



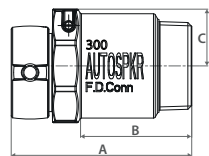
A111 p. 43



A114 p. 46

SIZE	CERTIFICATIONS	DIMENSIONS			FINISHING			
		A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
2-1/2" x 3"		6-57/64"	4-11/64"	2-21/64"		●		●

A91C



FEMALE (SWIVEL) x MALE NPT

300 psi RATED PRESSURE

MALE CHECK SNOOT (CLAPPER TYPE)

Used to connect fire hose or multiple Fire Dept. connections.

Acts as a check against an excess backflow of water.

① STANDARD EQUIPMENT:

Cast brass with female (swivel) hose inlet x male NPT outlet and checking device. Swivel supplied with pin or rocker lugs.

➔ RELATED PRODUCTS



A111 p. 43

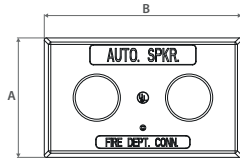
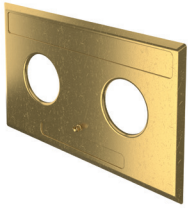


A114 p. 46

SIZE	CERTIFICATIONS	DIMENSIONS			FINISHING			
		A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
2-1/2" x 3"		7-3/32"	4-9/32"	2-21/64"		●		●



A103



POLISHED PLATE

Suitable to A101, A102 - Size 4" x 2-1/2".

RELATED PRODUCTS



A101 p. 39



A102 p. 40



A90 p. 69

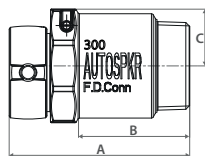


A91 p. 69

250 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING				BRANDING
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME	
4" x 2-1/2"		9-3/32"	15-3/64"		●		●	

A140G



FEMALE

SWING CHECK VALVE

Used to allow flow in designated direction only and to prevent backflow.

Available with the following threads:

4"NPT-M inlet x Groove outlet;

4"NPT-M inlet x NPT-F outlet;



4" Groove inlet and outlet.

RELATED PRODUCTS



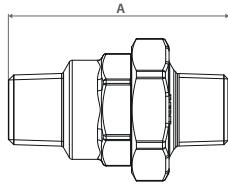
A58 p. 72

250 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS			FINISHING			
		A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
4" x 4"	 	5-23/64"	7-29/32"	3"	●			



A58



MALE x MALE

300 psi RATED PRESSURE

AUTOMATIC BALL DRIP

To drain low point of system between swing check valve and Fire Dept. connection.

Automatically seals under pressure.

Must be installed in horizontal position only.

① STANDARD EQUIPMENT:

Forged brass, straight, connection male NPT both sides.

➔ RELATED PRODUCTS



A102 p. 40



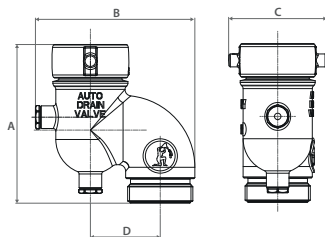
A111 p. 43



A114 p. 46

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A		ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1/2"		2-11/16"		●			
3/4"		2-11/16"		●			

A91AD



NST THREADS

300 psi RATED PRESSURE

AUTOMATIC DRAIN VALVE

Used to prevent water damage due to valve leakage standard equip.

Cast brass female pin lug swivel hose threaded valve with ball seal, activated at 3 psi.

➔ RELATED PRODUCTS



A58 p. 72



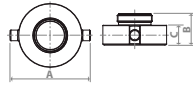
A56E p. 20

SIZE	CERTIFICATIONS	DIMENSIONS				FINISHING			
		A	B	C	D	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2"		4-53/64"	4-55/64"	2-61/64"	2-1/8"	●			



6.3 ADAPTERS

A75



300 psi RATED PRESSURE

FEMALE TO MALE REDUCER

Used to reduce or change Fire Hose threads.

① STANDARD EQUIPMENT:

Forged brass with pin or rocker lugs with female thread larger than male thread.

➔ RELATED PRODUCTS



A202 p. 30



A204 p. 31



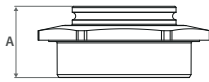
A56E p. 20



A156 p. 28

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
2-1/2" x 3/4"		1-1/16"	49/64"	●			
2-1/2" x 1-1/2"		1-1/16"	5/8"	●	●	●	●

A83



300 psi RATED PRESSURE

FEMALE OPEN SNOOT BASE

To be used on any thread swivel A89.

① STANDARD EQUIPMENT:

Polished brass with female NPT x swivel connection.

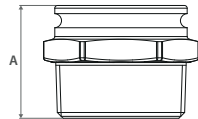
➔ RELATED PRODUCTS



A89 p. 74

SIZE	CERTIFICATIONS	DIMENSIONS	FINISHING			
		A	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
2-1/2" x 2-1/2"		1-3/4"	●	●		●
2-1/2" x 3"		2-5/64"		●		

A87



300 psi RATED PRESSURE

MALE OPEN SNOOT BASE

To be used on any thread swivel A89.

① STANDARD EQUIPMENT:

Forged brass male NPT x swivel connection.

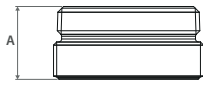
➔ RELATED PRODUCTS



A89 p. 74

SIZE	CERTIFICATIONS	DIMENSIONS	FINISHING			
		A	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
2-1/2" x 2"		1-25/32"	●			
2-1/2" x 2-1/2"		2-5/32"	●			
2-1/2" x 3"		2-7/32"	●			

A88



MALE TO MALE ADAPTER

To convert 2-1/2" NPT-M thread to male hose thread.

RELATED PRODUCTS



A55E p. 20



A155 p. 28

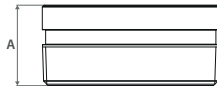


A80 p. 68

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A		ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
2-1/2" x 2-1/2"		1-29/64"		●			
2-1/2" x 3"		1-31/32"		●			

A88G



FEMALE TO GROOVE ADAPTER

To convert NPT-F thread to Groove thread.

RELATED PRODUCTS



A201 p. 30



A95 p. 38



A105 p. 41

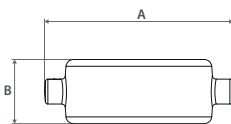


A101 p. 39

400 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A		ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
2-1/2" x 2-1/2"		2-3/64"		●			
4" x 4"		2-3/64"		●			

A89



SWIVEL

Polished brass, available with pin or rocker lugs.

▲ Locking screw included.

RELATED PRODUCTS



A83 p. 73



A87 p. 73



A95 p. 38



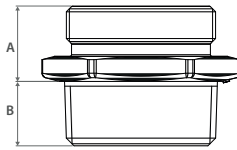
A105 p. 41

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
2-1/2"		4-1/2"	1-29/64"	●	●	●	●
3"		5-15/64"	1-1/2"	●	●		



A92



MALE TO MALE ADAPTER

To adapt or reduce threads, change NPT pipe thread to hose thread.

① STANDARD EQUIPMENT:

Brass hexagon type.

➔ RELATED PRODUCTS



A55E p. 75



A155 p. 28

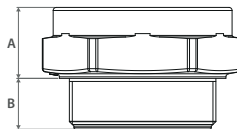
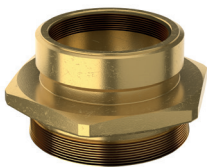


A80 p. 68

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2" x 1-1/2"		61/64"	13/16"	●			
2-1/2" x 2"		1-7/16"	13/16"	●			
2-1/2" x 2-1/2"		1-7/16"	1-15/64"	●		●	

A93



FEMALE TO MALE ADAPTER

To adapt or reduce hose threads or change NPT pipe thread to hose threads.

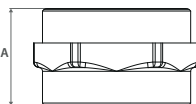
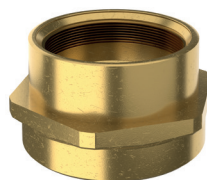
① STANDARD EQUIPMENT:

Brass hexagon type.

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A	B	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2" x 1-1/2"		51/64"	39/64"	●		●	
2-1/2" x 2"		1-3/64"	53/64"	●			
2-1/2" x 2-1/2"		1-9/64"	1"	●		●	

A94



FEMALE TO FEMALE ADAPTER

To adapt or reduce hose threads or change NPT pipe thread to hose threads.

① STANDARD EQUIPMENT:

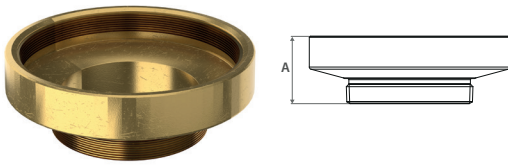
Brass hexagon type.

400 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS	FINISHING			
		A	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
1-1/2" x 1-1/2"		1-27/64"	●			
1-1/2" x 1-1/2"		2-3/64"	●	●	●	●
1-1/2"NPT x 2"NPT			●			



A104



300 psi RATED PRESSURE

BUSHING

To change 6" to 8" or 4" to 6" NPT threads.

① STANDARD EQUIPMENT:

Brass bushing with female thread on one end and male on other end. NPT threads.

➔ RELATED PRODUCTS



A97 p. 48



A111 p. 43



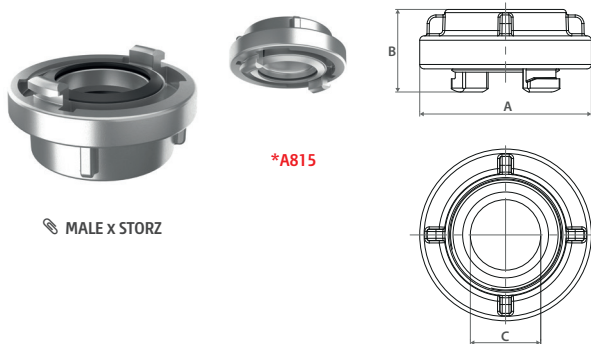
A114 p. 46



A101 p. 39

SIZE	CERTIFICATIONS	DIMENSIONS		FINISHING			
		A		ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	POLISHED CHROME
6" x 4"		2-25/64"		●			
8" x 6"		3-5/32"		●			

A90S



MALE x STORZ

*A815

STORZ ADAPTER

To adapt connection from NST-F to storz.

① STANDARD EQUIPMENT:

Aluminum body

*Plugs to be ordered separately.

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS			FINISHING			
		A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	ALUMINUM
1"1/2		3-1/16"	1-15/32"	1-1/4"				●
2"1/2		4-21/32"	2-5/32"	2-9/32"				●



A91BS

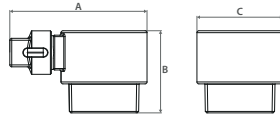
BS-336 ADAPTERS



NPT X BS-IT



*A81BS



To adapt connection from F NPT to BS-336

① STANDARD EQUIPMENT:

Brass body

*Plugs to be ordered separately.

300 psi RATED PRESSURE

SIZE	CERTIFICATIONS	DIMENSIONS			FINISHING			
		A	B	C	ROUGH BRASS	POLISHED BRASS	ROUGH CHROME	ALUMINUM
2"1/2		5-19/32"	3-11/32"	3-1/2"	●			

6.4 OTHERS

A170

MONITOR SWITCH ADAPTER

To be installed on pressure reducing valves A201, A202, A203, A204 to connect the supervisory switch.

➔ RELATED PRODUCTS



A201 p. 30



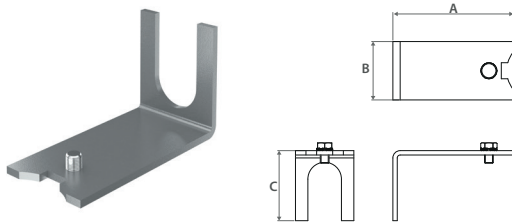
A202 p. 28



A203 p. 31



A204 p. 31



SIZE	CERTIFICATIONS	DIMENSIONS			FINISHING			
		A	B	C	STEEL	POLISHED	ROUGH CHROME	POLISHED CHROME
2" x 1/2"		5-23/64"	7-29/32"	3"	●		●	●

A7	pag. 52	A87	pag. 73	A114	pag. 46
A7BP	pag. 53	A88	pag. 74	A115	pag. 46
A50	pag. 23	A88G	pag. 74	A121	pag. 44
A51	pag. 23	A89	pag. 74	A122	pag. 45
A53	pag. 25	A90	pag. 69	A123	pag. 45
A53G	pag. 25	A91AD	pag. 72	A124	pag. 47
A55E	pag. 20	A90C	pag. 70	A125	pag. 47
A56E	pag. 20	A90S	pag. 76	A140G	pag. 71
A55EG	pag. 21	A91	pag. 69	A155	pag. 28
A56EG	pag. 21	A91C	pag. 70	A156	pag. 28
A55H	pag. 22	A91BS	pag. 77	A155S	pag. 29
A56H	pag. 22	A92	pag. 75	A156S	pag. 29
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A62K	pag. 58	A97	pag. 48	A203	pag. 31
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A80	pag. 68	A104	pag. 76	A223	pag. 34
A80P	pag. 68	A105	pag. 41	A171SW	pag. 32-33-34
A83	pag. 73	A106	pag. 42	A250	pag. 59
A85	pag. 24	A111	pag. 43	A730	pag. 60
A86	pag. 24	A113	pag. 43	A830	pag. 61





ISO 9001:15 ISO 14001:15 ISO 45001:23

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