Approvals

### Approvals

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#### Approval Listing Code and Information

UL, FM, CSA listings and compliance to applicable CE directives have been indicated for each Series in this catalog. Listing codes and other information follow in this section.

In addition to approvals with the standard features and for the standard voltages listed in each Series, many valves with optional features and other voltages have also been approved. *Consult your local ASCO sales office for details.* 

Agency Valve Classifications and Code Reference General Purpose Valve – a Normally Open or Normally Closed valve intended to control the fluid flow, but not to be depended upon to act as a safety valve. This is a UL and CSA classification, and is not intended to indicate valve service or application.

**Safety Shutoff Valve** – a Normally Closed valve of the "on" and "off" type, intended to be actuated by a safety control or emergency device, to prevent unsafe fluid delivery. It may also be used as a General Purpose valve. A multiple port valve may be designated as a Safety Shutoff valve only with respect to its Normally Closed port. This is a UL, FM, and CSA valve classification. Safety shutoff valves are listed in UL index under Guide YIOZ or YIOZ2 for ordinary locations and YTSX or YTSX2 for hazardous locations.

**Process Control Valve** – an FM approved valve to control flammable gases, not to be relied upon as a Safety Shutoff valve. Refer to note under individual valve listing. Unless otherwise stated under the individual Series numbers, valves are listed as General Purpose valves.

#### Underwriters Laboratories, Inc.

UL standards governing solenoid valves are: UL429, "Electrically Operated Valves,"



UL1002, "Electrically Operated Valves for Use in Hazardous Locations."

UL1604, "Electrical Equipment for use in Class I and II, Division 2 and Class III Hazardous Classified Locations."

UL provides two "Listing" categories for solenoid valves:

**General Use**. Valves authorized for general use are complete in their requirements; therefore, they may be installed in the field. They are identified by the UL symbol, followed by the word "Listed" and the valve

classification. UL Listings for ASCO "General Use" valves and solenoids can be found in the "UL Gas and Oil Equipment Directory" under Electrically Operated Valves, Guide No. YIOZ or YI0Z2 (File MP-618), and in the "UL Hazardous Location Equipment List" under Electric Valves, Guide No. YTSX or YTSX2 (File E25549) or under Solenoids, Guide No. VAPT (File E12264).

**Component**. Valves in this category are intended for use as factory-installed components of equipment where final • acceptability must be determined by



UL. They are not intended for installation in the field.

Component valves are termed "UL Recognized" and use UL's special Recognized Component mark. UL Listings of ASCO Component Valves can be found in the "UL Recognized Component Index" under Electrically Operated Valves, Guide No. YIOZ2 and YSY12 (File MP-618).

#### **Canadian Standards Association**

Standard C22.2 No. 139, "Electrically Operated Valves," covers the standards governing solenoid valves.



Standard C22.2 No. 213, "Electrical equipment for use in Class I, Division 2 hazardous locations." CSA certified valves and solenoids are listed in the "CSA Certified Electrical Equipment Book" under Valves, Guide No. 440-A-0 (File 10381) and Guide No. 440-A-0.8 (File 13976).

#### Factory Mutual Research Corporation

FM "approves" and lists in the "Factory Mutual Approval Guide" fuel oil and fuel gas safety shutoff



valves, process control valves, explosionproof/ dust-ignitionproof, and intrinsically safe valves for hazardous locations. Valves designated for other fluids and operational characteristics, although not subject to FM approval, are usually "accepted" by FM on specific equipment installations. Approvals



CE

#### Industrial Risk Insurers (Formerly FIA)

Industrial Risk Insurers does not approve equipment. It established "recommended good practices" in such areas as combustion safeguards on single-burner boiler-furnaces, and safeguarding Class B and Class C furnaces and ovens. Conforming to these practices results in either insurability for fire protection or in more advantageous rates for their protection.

To meet the standards of good practice, safety controls must be either listed by Underwriters Laboratories, accepted by Industrial Risk Insurers or other nationally recognized testing laboratories (NRTL). The National Fire Protection Association (NFPA) maintains similar requirements and recommendations for safety shutoff and vent valves in oil and gas burner boiler systems.

#### **European Directives – CE**

The Council of the European Communities, under the treaty establishing the European

Community (EC), adopted into law a series of directives to harmonize technical standards.

Solenoid valves are controlled by:

EMC (Electomagnetic Capability) 2004/108/EC Low Voltage 2006/95/EC

ASCO valves complying to these directives, through third-party or self-certification, display the CE mark on the nameplate or coil and on the Instruction and Maintenance sheet packaged with each valve. On request, ASCO will issue a Declaration of Incorporation and/or Declaration of Conformity for the valve supplied.

#### Agency Approvals – Worldwide

ASCO's Quality Assurance Program meets all the requirements of ISO-9001:2008. We are also certified to IQ Net, providing customers with the products from 17 ISO-certified facilities around the world. The US, Canada, UK, France, the Netherlands, Germany, and Japan are included.

When desired, ASCO solenoid valves can be supplied to meet the additional requirements of a variety of approval agencies around the world. The following can be requested. *Consult your local ASCO sales office for details.* 

United AGA	States of America American Gas Association American National Standards Institute Inc.
	Canadian Standards Association (Cartified to US Standards)
ΕIΔ	Electronic Industries Association
	Electronic Industries Association
	Electronic resting Laboratory
	Factory Mutual Research Corporation
	Institute of Electrical and Electronics Engineers, Inc.
IKI	Industrial Kisk Insurers (formerly Factory Insurance Association)
JIC	Joint Industrial Council
MIL	Military Standards
MSHA	Mine Safety and Health Administration
NACE	National Association of Corrosion Engineers
NAVSEA	Naval Sea Systems Command
NEC	National Electric Code
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NFPA	National Fluid Power Association, Inc.
NSF	National Sanitation Foundation
UL	Underwriters Laboratories, Inc.
USCG	United States Coast Guard

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## Engineering Information Solenoid Valves

#### European Economic Community

CE	European Directives
CEE	International Commission on Rules for the
	Approval of Electrical Equipment
ATEX	Directive 94/9/EC
	Apparatus for Potentially Explosive Atmospheres
	(Almospheres Explosibles)
IEC	International Electrotechnical Commission
ISU Autoria	International Organization for Standardization
	Tachnischar Übanwachungs Varain Östarraich
	Bundenversuchs und Eerschungsanstalt Arsonal
ETI	Elektrotochnisches Institut
Australi	
AGA	Australian Gas Association
SAA	Standards Association of Australia
Belaium	
CEB	Comite Electrotechnique Belge
IBN	Institut Belge de Normalisation
ISSEP	Institut Scientifique de Service Public
	(anciennement INIEX)
K.V.B.C	6. Koninklijke Vereniging der Belgische
	Gasvaklieden
VERGA	AS Technische Vereniging van de Gasindustrie in
Brazil	Beigle v.z. w.D.
INMETE	RO Instituto Nacional de Metrologia
Canada	
CGA	Canadian Gas Association
CSA	Canadian Standards Association
EEMA	C Electrical and Electronic Manufacturers
	Association of Canada
ULC	Underwriters Laboratories of Canada
China	
NEPSI	National Supervision and Inspection Center for
CCC	China Computer Cartification
	China Compulsory Certification
Denmar	k
DEMK	O Danmarks Elektriske Materielkontrol
Finland	
SL	Sähkötarkastuslaitos Laboratoria
VII	lechnical Research Centre of Finland
France	D. Accoriation Francoico de Normaliantian
	R Association Française de Normalisation
INERIS	des Risques (anciennement CERCHAR)
Bureau	
LCIE	Laboratoire Central des Industries Electriques
MDIS	Ministère du Développement Industrial et
MBIS	Scientifique
German	y
BVS	Bergbau-Versuchsstrecke
DIN	Deutsches Institut für Normung
DVGW	/ Deutscher Verein des Gas – Und Wasserfaches e.V.
Germa	nischer Lloyd
PTB	Physikalisch – Technische Bundesanstalt
VDE	Verband Deutscher Electrotechniker

Italy	
CEI	Comitato Elettrotecnico Italiano
Japan	
JEM	Japan Electrical Manufacturers Association
JIS	Japanese Industrial Standards
MIL	Ministry of Labor
NK	Japan Maritime Association
RIIS	Research Institute of Industrial Safety,
	Department of Labor
South Ko	
KISCO	Korea Industrial Safety Corp.
KGSG	Korea Gas Safety Corp.
Luxembo	ourg
Service	de l'energie de l'état
Northern	1 Ireland A Science Centre Department of Feenemic Developmen
Industria	a science Centre, Department of Economic Development
Det No	rska Varitas
	Norgos Elektrisko Matoriellkontroll
Bussia	Norges Liektriske Materielikorti oli
USSR	Register of Shipping
South Af	rica
SABS	South African Bureau of Standards
Spain	
CESI	Centro Elettrotecnico Sperimentale Italiano
LOM	Laboratorio Oficial José Maria Madariaga
Sweden	g_
SEMKC	) Svenska Elektriska Material Kontrollanstalen
SP	Swedish National Testing and Research Institute
Switzerla	ind
ASE	Association Suisse des Electriciens
SEV	Schweizerischer Electrotechnischer Verein
The Neth	nerlands
DGA	Direktoraat – Generaal van de Arbeid
KEMA	Koningklijk Instituut voor het Testen van Elektrische Materialen N.V.
NEC	Nederlands Elektrotechnisch Comité
NNI	Nederlands Normalisatie – Instituut
REGO	Richtlijnen Voor de Samenstelling van Elektrisch Material In Verband Met Gasontploffinsgevaar
VEG	VEG-Gasistituut N.V.
VGN	Veriniging van Gasfabrikanten In Nederland
United K	inadom
BASEEFA	British Approvals Service for Electrical Equipment in Flammable Atmospheres
BGC	British Gas Corporation
BSI	British Standard Institution
EECS	Electrical Equipment Certification Service
Houde	Desister of Chipping
LIOYUS	Negister of Shipping
IVIKS	
NWC	National Water Council
SCS	Sira Certification Service
SFA	Special Flammable Atmospheres
WH	Watson House

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