

APPROVALS, ACCEPTANCES AND LISTINGS

Jamesbury® brand products have been accepted by a number of qualifying organizations and agencies world-wide. Many of the approvals are explained herein, with a list of the specific products that have been accepted. We welcome inquiries concerning approvals or listings of any products or organizations that are not covered in this bulletin.

While some acceptances cover entire product lines, others apply only to specific valve styles and/or materials of construction. Also, in some instances, acceptances are for maximum pressures or temperatures set by the organization for that particular service category, which may often be considerably below the full rating of the valve. Use of valves in such services should be followed accordingly.

Most of the products listed in this bulletin are slight modifications of standard products, the difference being in special testing and tagging with the listing/ approval agency's pressure rating for the particular service. It is therefore important that when products are ordered for applications requiring a listing or approval, it should be clearly noted.

ISO9001



Metso quality systems were developed to ensure that all of our products meet international standards of quality world-wide. All of our manufacturing facilities have instituted quality systems designed and approved to ISO-9001 standards.

PRESSURE EQUIPMENT DIRECTIVE (PED) #97/23/EC

The Series 4000, 5000, 6000, 7000, 9000 & Eliminator™ as well as the Wafer-Sphere® Series 815, 830, 835 and 860 are available in compliance with the PED.

UNDERWRITER'S LABORATORIES

Users of valves, actuators, and accessories should refer to the applicable directory of listed equipment to determine the specific service category in which the product to be used will fall. Categories for which Jamesbury products have been examined by UL and subsequently listed are shown below. Information about listings under other categories and listings on products other than those shown is available upon request.

Gas and Oil Equipment List

Valves are listed by UL under several categories in the Gas and Oil Equipment List. These categories, their UL guide designations, and the identification number that appears on the valve tag denoting the service for which the valve was ordered are:

Category	UL Service Designation	UL Guide Designation	Jamesbury Identity Number
Manual valves	Shut-off valves for oil or gas burner equipment	MHKZ	08
Anhydrous ammonia shut-off valves	Liquid and gas line service valves	YQAR	11
Compressed gas shut-off valves	Gas line service valves	YQNZ	14
Flammable liquid shut-off valves	Manual valves for fuels and solvents	YRBX	06
Gas shut-off valves	Manual valves for natural and mfg. gases	YRPV	04
LP-gas shut-off valves	Liquid and gas line service valves	YSDT	05

Valves listed in these categories are shown on cards published by UL with the manufacturer's file MH6330. The valves listed are:

	inches	DN (mm)
Series 21 & 23 Clincher®	1/4 – 2	8 – 50
Series 6F	1/2 – 3	15 – 80
Eliminator, Mod. B	1/4 – 2	8 – 50
A-Style, Mod. D	1/4 – 2	8 – 50
Series 3000	1/2 – 1-1/2	15 – 40
Series 4000 Mod. B	1/2 – 2	15 – 50
Series 7000*	1/2 – 8	15 – 200
Series 9000*	1/2 – 8	15 – 200

*Series 4000, 7000 and 9000 are FM approved Fire-Tite®.

Fire Protection Equipment List

The valves above, up through 2" (DN 50) only and not including 6F, are also UL listed as being suitable for use as valves for general use in air and water supply piping of fire protection equipment, dry pipe and alarm valve trim, and other applications where either gate or globe valves have been used in the past. Details are:

Category	UL Service Designation	UL Guide Designation	Jamesbury Identity Number
Valves, trim and drain	Shut-off valves for air and water	VQGU	07

UNDERWRITERS LABORATORIES OF CANADA (ULC)

Metso has several valve styles listed with ULC for different gas services. These valves are identified by a ULC label (applied at the factory) and by a modifier code shown after the valve figure number, which should be specified when ordering.

ULC Guide No. 167 E49 (modifier code "GC" NA)

These valves have been examined and tested by ULC as meeting the Canadian Gas Association (CGA) standard 3.16 (Lever Operated Non-lubricated Gas Shut-off Valves) and ULC/ORD-C842 (Valves for flammable and combustible liquids). These valves are designated as MFUUC by ULC. They are intended for use as manual shutoff valves to be used with natural gas, manufactured gas, and liquefied petroleum gases (distributed as vapor with or without the admixture of air), or mixtures thereof, at pressures up to 125 psig (860 kPa) and temperature range of -22°F to 149°F (-30°C to 65°C). The valves listed in these categories are:

	inches	DN (mm)
Style A/AZ, Mod. D	1/4 – 2	8 – 50
Series 21 Clincher	1/4 – 2	8 – 50
Series 23 Clincher	1/4 – 2	8 – 50
Eliminator, Mod. B	1/4 – 2	8 – 50
Series 4000, Mod. B	1/2 – 2	15 – 50
Series 7000	1/2 – 8	15 – 200
Series 9150	1/2 – 8	15 – 200
Series 9300	1/2 – 6	15 – 150

ULC Guide No. 440 A21.21 (modifier code "KL" NB)

These valves have been examined and listed by ULC as LP-Gas Shut-off valves, as meeting ULC/ORD C125 (Valves for Anhydrous Ammonia and Propane (other than Safety Relief) and CGA3.16. These valves are designated as YSDTC by ULC. They are suitable for use in systems storing and handling LP-gas in either liquid or gaseous phase at pressures up to 400 psig (2760 kPa) and temperature range of -22°F to 149°F (-30°C to 65°C). They may be manually or pressure actuated. The ULC listing covers the valve only, not the combination of valve and actuator. The valve listed are:

Valve Size and Style	Max. Pressure Rating*	
	psig	kPa
1/4" – 2" (DN 8 – 50) Style A/AZ	400	1720
1/4" – 2" (DN 8 – 50) Series 21 Clincher	400	2760
1/4" – 2" (DN 8 – 50) Series 23 Clincher	400	2760
1/2" – 2" (DN 15 – 50) Series 4000, Mod. B	400	2760
1/2" – 2" (DN 15 – 50) Series 7150	275	1900
1/2" – 2" (DN 15 – 50) Series 7305/7300	400	2760
1/4" – 2" (DN 8 – 50) Eliminator, Mod. B	400	2760
1/2" – 3" (DN 15 – 80) Series 6F	400	2760
3" – 4" (DN 80 – 100) Series 7150	275	1900
6" – 8" (DN 150 – 200) Series 7150	275	1900
2" – 8" (DN 50 – 200) Series 9150	275	1900
2" – 6" (DN 50 – 150) Series 9300	400	2760
3" – 8" (DN 80 – 200) Series 7305 / 7300	400	2760

*Dependent on Body Material Limits

FACTORY MUTUAL



Several *Jamesbury* products for critical plant applications have been approved by the research laboratory of the Factory Mutual Insurance Companies and are listed in the Factory Mutual Approved Equipment Handbook. We will work in liaison with Factory Mutual upon request for approval on the use of products for service categories that are not listed, for products not included among those that are approved, or for assistance in acceptance of arrangements of equipment in which company products are involved.

Hazardous Location Equipment

Our Stonel® brand limit switches are available in configurations that are approved, filling Nema 4, 4X, 6 and 7 Class I Groups C & D, and 9 Class II Groups E, F and G Div 1 specifications for combined watertight and hazardous location design.

Firesafe Shutoff Valves

Fire-Tite Series 7000 ball valves in sizes 1/2" – 2" (DN 15 – 50) and *Fire-Tite* Series 4000 Mod. B ball valves in sizes 1/2" – 2" (DN 15 – 50) have been successfully subjected to Factory Mutual fire testing and are accordingly approved as Fire-safe Valves.

Emergency Switch Valves

Figure 1075

Refer to Bulletin B132-1 for details.

Burner Management Valves

Figure 1051

Refer to Bulletin B131-1 for details.

Figure 1052

Refer to Bulletin B131-2 for details.

CHLORINE INSTITUTE



Metso offers a variety of ball and butterfly valves specially processed to meet the recommendations of the Chlorine Institute as listed in pamphlet #6 (Edition 14) that include design, application, testing, and marking of valves.

For complete information on chlorine service Double-Seal ball valves and *Wafer-Sphere* high-performance butterfly valves refer to **Bulletins B150-2 and W150-2, respectively.**

AMERICAN PETROLEUM INSTITUTE

For general applications, valves are available meeting API Standard 608 (3rd Edition) for design and materials of construction. *Fire-Tite* ball valves and high-performance butterfly valves are also available meeting API Standard 607 (4th Edition) for fire-tested valves.

The Bulletins detail standards that each valve type meets.

AMERICAN GAS ASSOCIATION (AGA)

The Series 1056 & 1057 Automatic Safety Shut-off Gas Valves are approved under ANSI Z21.21-1995/CSA 6.5 & CGA 3.9.

NATIONAL ASSOCIATION OF CORROSION ENGINEERS



Metso offers a full range of ball valves and butterfly valves, conforming to NACE Standard MR-0103 for petroleum refining industry applications. These valves are of standard design but have materials of construction that are resistant to the corrosive effects of hydrogen sulfide. Consult the individual Bulletins for details on how to order.

CANADIAN GAS ASSOCIATION (CGA)

Metso has various valve styles which comply with CGA standard 3.16 "Lever Operated Non-Lubricated Gas Shut-off Valves." They have been examined for compliance with this standard and listed by ULC or CSA. Refer to the Under-writer's Laboratories of Canada (ULC) and Canadian Standards Association (CSA) sections of this bulletin.

CANADIAN STANDARDS ASSOCIATION (CSA)

Our *StoneL* brand limit switches are available in configurations that are approved, filling Nema 4, 4X, 6 and 7 Class I Groups C & D, and 9 Class II Groups E, F and G Div 1 specifications for combined watertight and hazardous location design.

The Figure 1056 & 1057 Automatic Safety Shut-off Gas Valves are approved under ANSI Z21.21 / CSA 6.5 and CGA 3.9.

CSA certification of CGA3.16 below the ULC qualified temperature range of -22°F to 149°F (-30°C to 65°C), can be accomplished on a case by case request.

Please consult our factory directly for details.

PROVINCIAL REGISTRATION (CANADA)

In accordance with CSA standard B51 (Boiler, Pressure Vessel, and Pressure Piping Code), *Jamesbury* brand product designs have been registered with the Departments of Labour of Canadian Provinces. Contact the factory for individual Canadian Registration Numbers (CRN).

BRITISH STANDARDS INSTITUTE



The *Jamesbury* valves are available meeting the following British Standards:

BS 5351-Steel Ball Valves for the Petroleum, Petrochemical and Allied Industries. Included are Series 4000, 7000, and 9000 Double-Seal ball valves.

BS 6755, Part 1: Specification for Production Pressure Testing Requirement.

BS 6755, Part 2: Specification for Fire Type-Testing Requirements

OTHER APPROVALS, ACCEPTANCES, AND LISTINGS

There are additional acceptances of *Jamesbury* products by various organizations, details of which are available upon request. Some of these are:



Germanischer Lloyd

Oil Companies Material Association

Technical Research Centre of Finland

Yarsley Technical Centre, Ltd.

Province of Ontario (Canada), Ministry of the Environment

Approvals		Comments										7000	9000	4000	Eliminator	A-STYLE	Clincher	100	3A / 3C	5H	3000	6F / 6FR	F815 W/L	F830 W/L	F860 W/L	815 W/L	830 W/L	860 W/L	
Underwriters Laboratory Certified for Canada (cUL)																													
LP Gas Shutoff - YSDT7		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Compressed Gas Shutoff - YQNZ7		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flammable Liquid Shutoff - YRBX7		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Underwriters Laboratory of Canada (ULC) listed																													
CAN/CGA 3.16 Per ULC		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CAN/CGA 3.16 Per CSA		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LP Gas Shutoff - YSDTC		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Valves - MFVC		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EMERGENCY SHUTDOWN (ESD)																													
Factory Mutual (FM) Approved																													
Heat Activated Fire-Safe Shutoff		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil & Gas Shutoff		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Canadian Standards Assoc.(CSA) & Canadian Gas Assoc (CGA)																													
CSA 6.5/ANSI Z21.21 & CGA 3.9 		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FUGITIVE EMISSION CERTIFICATION																													
ISO 15848		✓*	✓*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EPA Method 21		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SPECIAL SERVICE CERTIFICATION																													
Association of American Railroads (AAR)																													
Canadian Provincial Registration (CRN)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
National Association of Corrosion Engineers (NACE) 		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MR 01-03		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MR 01-75		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Chlorine Institute (CI)																													
Pamphlet #6: Cleaning for Chlorine Service		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Subject to change without prior notice.

Metso Automation Inc.

Europe, Vanha Porvoontie 229, P.O. Box 304, FI-01301 Vantaa, Finland.
Tel. +358 20 483 150. Fax +358 20 483 151

North America, 44 Bowditch Drive, P.O. Box 8044, Shrewsbury, MA 01545, USA.
Tel. +1 508 852 0200. Fax +1 508 852 8172

South America, Av. Independência, 2500- Iporanga, 18087-101, Sorocaba-São Paulo
Brazil. Tel. +55 15 2102 9700. Fax +55 15 2102 9748/49

Asia Pacific, Haw Par Centre No. 06-01, 180 Clemenceau Avenue, 239922 Singapore, Singapore.
Tel. +65 6511 1011. Fax +65 6250 0830

China, 19/F, the Exchange Beijing, No. 118, Jianguo Lu Yi, Chaoyang Dist, 100022 Beijing, China.
Tel. +86-10-6566-6600. Fax +86-10-6566-2575

Middle East, Roundabout 8, Unit AB-07, P.O. Box 17175, Jebel Ali Freezone, Dubai,
United Arab Emirates. Tel. +971 4 883 6974. Fax +971 4 883 6836

www.metso.com/valves

