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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Valve Manufacturers' Association (JVMA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently, **JIS B 0100:1984** is replaced with this Standard.

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Glossary of terms for valves

Introduction

This Japanese Industrial Standard was established in 1970 and has gone two revisions up to the present. The last revision was made in 1984, and the revision at this time is for updating the contents based on the reviews of related laws and regulations and **JISs**, for adding/deleting the terms and definitions so as to correspond to the current demands, and for dealing with the issues that remain unresolved since the previous revision.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies the terms relating to names of valves mainly used for piping, names of parts/portions, types and common matters (hereafter referred to as “terms”).

For names of valves, those listed in Annex A are specified.

2 Classification

The terms shall be classified as follows.

a) Name

- 1) Valves
- 2) Stop valves
- 3) Gate valves
- 4) Ball valves
- 5) Butterfly valves
- 6) Cocks
- 7) Diaphragm valves
- 8) Check valves
- 9) Automatic valves
- 10) Valves for water supply
- 11) Application-dependent or dedicated valves

b) Parts/portion name

- 1) Parts name
- 2) Portion name

c) Type

- 1) End connection
- 2) Valve body

- 3) Flow passage
- 4) Connection between valve body and bonnet
- 5) Valve disc
- 6) Valve disc guide
- 7) Valve seat
- 8) Valve stem
- 9) Structure
- 9.1) Common
- 9.2) Faucet
- 10) Operation
- 11) Installation

d) **Common matters**

- 1) Pressure/temperature
- 2) Flow rate
- 3) Dimensions
- 4) Operation
- 5) Characteristics
- 6) Flow
- 7) Leakage
- 8) Phenomena
- 9) Test and inspection
- 10) Others

3 Terms and definitions

The terms and definitions shall be as follows.

For informative purposes, English equivalent and figures are given.

NOTE 1 Those which are parenthesized under the terms indicate how to read the terms which are liable to be misread (This is applicable to Japanese characters only).

NOTE 2 The English equivalent given in parentheses may be omitted.

NOTE 3 In the case where the type of valve is attached directly in front of “弁” or “コック”, “形” and “式” may be omitted (This is applicable to Japanese characters only).

NOTE 4 The figures of terms attached with ※ mark are given in Annex B.

The number of figure coincides with the number of term.

a) **Name**1) **Valves**

No.	Term (Japanese character)	Definition	English equivalent
10000	バルブ	generic term for devices which have movable mechanisms capable of opening and closing the flow passages in order to pass, stop and control fluid NOTE: For those which are attached with the modifiers expressing such as application, type and form, the term “弁” is generally used instead of the term “バルブ”. Example: 玉形弁（たまがたべん）	valve

2) **Stop valves**

No.	Term (Japanese character)	Definition	English equivalent
10100	止め弁	generic term for valves in which valve disc is operated in the direction perpendicular to a valve seat by the valve stem In a broad sense, it is the valve to stop the flow of fluid.	stop valve
10101	玉形弁※	valve having the spherical valve body in general, where the centerline of input port and the centerline of output port are on the same straight line and the flow of fluid is in the form of “S”	globe valve
10102	アングル弁※	valve in which the centerline of input port and the centerline of output port of valve body are perpendicular to each other, and the flow direction of fluid turns perpendicularly	angle valve, angle globe valve
10103	Y形弁※	valve in which the centerline of input port and the centerline of output of valve body are on the same straight line, and the output flow passage makes an acute angle with the axis of valve stem	Y-globe valve, Y-type globe valve
10104	ニードル弁※	valve which provides the valve disc in the form of needle so as to facilitate regulation of flow rate	needle valve

3) **Gate valves**

No.	Term (Japanese character)	Definition	English equivalent
10200	仕切弁	generic term for valves in which valve disc operates to open and close the flow passage of fluid by partitioning its fluid vertically, and the fluid flow is in a straight line	gate valve
10201	ウェッジ仕切弁※	gate valve of which the valve disc is of wedge shape It is also simply called a gate valve.	wedge gate valve

No.	Term (Japanese character)	Definition	English equivalent
10202	パラレルスライド仕切弁※	gate valve in which two valve discs parallel to each other are combined to impart the facial pressure to the valve seat face on outlet side by the pressure of fluid	parallel slide gate valve
10203	ダブルディスク仕切弁※	gate valve in which two valve discs are combined and facial pressure is imparted to the valve seat faces of input port side and the output port side by spreading both discs by the thrust force of valve stem	double disc gate valve
10204	ベンチュリポート仕切弁※	gate valve in which flow passage is smoothly throttled from the valve port to the valve seat	venturi gate valve, venturi port gate valve
10205	スルーコンジット仕切弁※	gate valve whose valve disc is so constructed that the opening is the same size of that of the flow passage when it is fully opened	through conduit gate valve
10206	ナイフ仕切弁※	gate valve of the structure that makes shutoff possible by making the lower end of the plate-like valve disc edged tool-shaped and cutting fibrous objects that flow through the flow passage	knife gate valve

4) Ball valves

No.	Term (Japanese character)	Definition	English equivalent
10300	ボール弁	generic term for valves in which the spherical valve disc rotates in the valve body taking the valve stem as an axis It has a valve disc that is spherical or semi-spherical.	ball valve
10301	フローティング形ボール弁※	ball valve which supports the valve disc by the valve seat arranged in the flow direction for shutoff by pressing the valve disc to the valve seat on outlet side with the differential pressure at the time of full close	floating ball valve
10302	トラニオン形ボール弁※	ball valve of the type which supports the ball by the upper and lower stems (trunnion) It is mainly used for large bore or high pressure.	trunnion supported ball valve
10303	三方形ボール弁※	ball valve with three input/output ports for fluid, through which the fluid flow direction is changed or the flow is made to be diverted or merged There are a horizontal three-way type and a vertical three-way type.	three-way ball valve

5) **Butterfly valves**

No.	Term (Japanese character)	Definition	English equivalent
10400	バタフライ弁	generic term for valves in which the circular valve disc rotates around the valve stem axis in the valve body	butterfly valve
10401	中心形バタフライ弁 ※	butterfly valve so constructed that the outer periphery of valve disc is on the same plane as the centerline of the valve stem	centered shaft and disc type butterfly valve, concentric type butterfly valve
10402	偏心形バタフライ弁	butterfly valve in which the valve stem position is shifted from the seal face so that the outer periphery of the valve disc is not interrupted by the valve stem	eccentric type butterfly valve
10403	単偏心形バタフライ弁 ※	butterfly valve of the type of valve disc in which the valve stem is located at the center of valve bore and the valve seat face of the valve disc is constructed eccentrically from the center of the valve stem	single eccentric type butterfly valve, centered shaft and offset disc type butterfly valve
10404	二重偏心形バタフライ弁 ※	butterfly valve of the type of valve disc in which the center of valve stem is not located at the center of valve bore and the valve seat face of the valve disc is constructed eccentrically from the center of the valve stem	double eccentric type butterfly valve, double offset disc and shaft type butterfly valve
10405	三重偏心形バタフライ弁 ※	butterfly valve in which, in addition to double eccentric type, the centerline of the circular cone that is a part of the valve seat face is constructed slanting from the centerline of body of valve (the centerline of flow direction)	triple eccentric type butterfly valve, triple offset disc and shaft type butterfly valve

6) **Cocks**

No.	Term (Japanese character)	Definition	English equivalent
10500	コック	generic term for valves used to stop the flow of fluid It provides rotatable plug inside the valve body which has the valve seat tapered or in parallel Opening/closing is operated by the plug being turned by 90° or less.	cock
10501	メンコック※	simplest cock without packing and gland flange	plug cock
10502	グランドコック※	cock with packing and gland flange Larger size cocks are provided with a bonnet.	gland cock
10503	スリーブコック※	cock in which the body is provided with sleeves of soft material, etc.	sleeve cock
10504	リフトコック※	cock with a mechanism capable of reducing the rotation torque of plug by lifting up the plug	lift cock

No.	Term (Japanese character)	Definition	English equivalent
10505	プラグ弁※	type of cock which has either the lubricating construction or such construction as to mechanically reduce the friction between the seat faces	plug valve
10506	ルブリケートプラグ弁	plug valve which seals the valve seat face at the instant when lubrication is given to actuation of the plug by supplying grease to the valve seat face via the hole through the inside of the plug and the groove provided around the opening of the plug or the body from the plug top	lubricated plug valve
10507	ノンルブリケートプラグ弁	plug valve with the mechanism which reduces friction between valve seats mechanically by providing the valve seat face with sleeves of soft material etc. and rotating the tapered plug after pulling up it	non-lubricated plug valve

7) Diaphragm valves

No.	Term (Japanese character)	Definition	English equivalent
10600	ダイヤフラム弁	valve which has a construction of opening/closing the flow passage by means of the diaphragm of expandable, contractible and flexible rubber, etc.	diaphragm valve
10601	ウェア形ダイヤフラム弁※	diaphragm valve having arc shaped weir at the middle of the valve body	weir diaphragm valve
10602	ストレート形ダイヤフラム弁※	diaphragm valve having the valve body in which flow passage is straight	straight-way diaphragm valve

8) Check valves

No.	Term (Japanese character)	Definition	English equivalent
10700	逆止め弁	generic term for valves in which the valve disc actuates so as to prevent the reverse flow of fluid by the back pressure of fluid	check valve, non-return valve
10701	スイング逆止め弁※	check valve in which the valve disc can swing by an arm supported by a pin, and is vertically pressed on the valve seat face by the reverse flow of fluid The flow of fluid is in almost straight.	swing check valve
10702	リフト逆止め弁※	check valve in which valve disc is operated vertically with respect to the valve seat through a guide provided in valve body or on bonnet	lift check valve
10703	ボール逆止め弁※	check valve with ball shaped valve disc	ball check valve

No.	Term (Japanese character)	Definition	English equivalent
10704	ねじ締め逆止め弁※	check valve combined with the function of stop valve	screw-down stop check valve, screw-down non-return (SDNR) valve, stop check valve
10705	チルチングディスク 逆止め弁※	check valve having a rotary shaft inside the valve disc which is pressed on the conical shape valve seat face by its self weight and by pressure of the reverse flow of fluid	tilting disc check valve
10706	デュアルプレート逆 止め弁※	check valve in which a pair of semi-circular plates are mounted to the valve body with a hinge pin together with spring	dual plate (wafer-type) check valve
10707	シングルプレート逆 止め弁※	swing check valve of wafer-type	single plate (wafer-type) check valve

9) Automatic valves

No.	Term (Japanese character)	Definition	English equivalent
10800	自動弁	generic term for valves which receive force required for the valve to be automatically actuated from fluid or external power There are regulating valve, control valve, solenoid operated valve, pressure relief valve and automatic trap.	automatic valve
10801	調整弁	generic term for valves which receive necessary power for its operation through detecting part from the object to be controlled	regulating valve
10802	圧力調整弁	generic term for regulating valves which regulate the pressure by means of weight, spring, fluid pressure, etc.	pressure regulating valve
10803	減圧弁※	regulating valve which maintains the fluid pressure on outlet side lower than the fluid pressure on inlet side	pressure reducing valve
10804	真空調整弁※	regulating valve which maintains the pressure lower than atmospheric pressure	vacuum regulating valve
10805	背圧弁※	regulating valve which releases the fluid according to the change in inlet pressure so as to maintain it at prescribed pressure	back pressure regulating valve
10806	差圧弁※	regulating valve which maintains the difference between the inlet pressure and the outlet pressure, or between each pressure and other pressure in different systems at prescribed value	differential pressure regulating valve

No.	Term (Japanese character)	Definition	English equivalent
10807	比率調整弁※	regulating valve which maintains the ratio of two different pressures at prescribed value	pressure ratio regulating valve
10808	温度調整弁※	regulating valve which maintains temperature at constant by regulating the fluid of heating media or refrigerant by means of the temperature detecting mechanism	temperature regulating valve
10809	流量調整弁※	regulating valve which regulates the flow rate by introducing the pressure difference due to change in flow rate and maintaining the pressure difference at constant	flow regulating valve
10810	液位調整弁※	regulating valve which maintains the liquid level at constant by regulating the flow rate by means of the liquid level detecting mechanism	level regulating valve
10811	調節弁	generic term for valves which receive necessary power for operation from outside by receiving signals of control part	control valve
10812	電動弁	valve which is operated by electric motor	electric motor operated valve
10813	流体圧弁	valve with operation unit using such pressure transmitting media as air, water and oil	fluid-power operated valve
10814	ダイヤフラム操作弁※	valve in which diaphragm is used for its actuator	diaphragm operated valve
10815	シリンダ操作弁※	valve in which cylinder is used for its actuator	cylinder operated valve
10816	油圧シリンダ操作弁	cylinder operated valve which is operated by oil pressure	oil hydraulic cylinder operated valve
10817	水圧シリンダ操作弁	cylinder operated valve which is operated by water pressure	hydraulic cylinder operated valve
10818	空気圧シリンダ操作弁	cylinder operated valve which is operated by air pressure	air cylinder operated valve
10819	モータ操作弁	valve in which motor driven by oil pressure, air pressure, etc. other than electric motor is used for its actuator	motor operated valve
10820	油圧モータ操作弁※	motor driven by oil pressure in which the actuator rotates	oil motor operated valve
10821	空気圧モータ操作弁※	motor driven by air pressure in which the actuator rotates	air motor operated valve
10822	電気式調節弁	control valve which is actuated by electric power receiving electric signals	electrical control valve
10823	電気油圧式調節弁	control valve which is actuated by oil pressure receiving electric signals	electro-hydraulic control valve
10824	電気空気式調節弁	control valve which is actuated by air pressure receiving electric signals	electro-pneumatic control valve

No.	Term (Japanese character)	Definition	English equivalent
10825	電気蒸気式調節弁	control valve which is actuated by steam pressure receiving electric signals	electro-steam control valve
10826	油圧式調節弁	control valve which is actuated by oil pressure receiving oil pressure signals	hydraulic control valve
10827	空気圧式調節弁	control valve which is actuated by air pressure receiving pneumatic signals	pneumatic control valve
10828	空気油圧式調節弁	control valve which is actuated by oil pressure receiving pneumatic signals	pneumatic-hydraulic control valve
10829	圧力調節弁※	control valve which controls the pressure	pressure control valve
10830	温度調節弁※	control valve which controls the temperature	temperature control valve
10831	流量調節弁※	control valve which controls the flow rate	flow control valve
10832	液位調節弁※	control valve which controls the level	level control valve
10833	単座形調節弁※	control valve having one valve seat	single seated control valve
10834	複座形調節弁※	control valve having two valve seats	double seated control valve
10835	ケージ形調節弁※	control valve whose valve disc is guided with cage	cage guided control valve
10836	スプリット形調節弁※	control valve in which the body is split into two pieces, and the valve seat is held between them	split body control valve
10837	電磁弁	generic term for valves in which the valve disc is opened/closed by electromagnetic force of electromagnet	solenoid operated valve
10838	直動式電磁弁※	solenoid operated valve in which the valve disc is directly opened/closed by electromagnetic force	direct type solenoid operated valve
10839	パイロット式電磁弁※	solenoid operated valve which actuates the pilot valve by electromagnetic force and opens/closes the valve disc by the pressure difference between the pressure at top part of valve disc and the pressure at input port	pilot type solenoid operated valve
10840	マニュアルリセット式電磁弁※	solenoid operated valve of the type in which operation returns by manual reset mechanism in case of emergency	manual reset type solenoid operated valve
10841	圧力逃し弁 (あつりよくにがしべん)	generic term for valves having function such that the valve disc is automatically opened when the pressure on input port side of the valve has increased to the prescribed pressure and closed again when the pressure is decreased to the prescribed value, and valves in which the valve disc is automatically opened to introduce the fluid when the pressure in device exceeds the prescribed vacuum degree to maintain the prescribed vacuum degree in the device	pressure relief valve

No.	Term (Japanese character)	Definition	English equivalent
10842	安全弁	generic term for valves, mainly used in generators, pressure vessels and piping for steam or gas, having function such that the valve disc is automatically opened when the pressure on input port side has increased to the prescribed pressure and closed again when the pressure is decreased to the prescribed value, and also having a capability of exhausting the nominal relieving capacity	safety valve
10843	ばね安全弁※	safety valve in which the force generated by the compressive action of cylindrically coiled spring is directly applied to the valve disc	direct spring loaded safety valve
10844	おもり安全弁※	safety valve in which force generated by dead weight is directly applied to the valve disc	dead weight loaded safety valve
10845	パイロット式安全弁 ※	safety valve the main valve of which is operated by the fluid discharge from the pilot valve	pilot-operated safety valve
10846	揚程式安全弁	safety valve in which the lift of valve disc is 1/40 or over to and excluding 1/4 the diameter of valve seat opening, the seat flow passage area (curtain area) becomes the minimum among the flow passage areas when the valve disc opens	lift safety valve
10847	全量式安全弁	safety valve in which a lift such that the valve seat flow passage area becomes sufficiently larger than the area of throat part of nozzle in the lower part from the contact face of valve disc and valve seat is obtained	full bore safety valve
10848	二つ組安全弁※	safety valve which is so constructed that two safety valves are mounted in parallel on a single Y-type tube	twin type safety valve
10849	開放形安全弁	safety valve which is so constructed that a part of the fluid discharged from the valve seat opening is also released from other part than the valve output port to outside	opened type safety valve
10850	密閉形安全弁	safety valve which is so constructed that the fluid discharged from the valve seat opening is not released from other part than the valve output port to outside	enclosed type safety valve
10851	平衡形安全弁	safety valve which is so constructed as to balance the back pressure mainly by means of bellows having the same effective diameter as that of the valve body seat opening in order for the back pressure not to affect the operation of the valve NOTE: This is used in the case where any back pressure is always applied to the output side of the safety valve, or the back pressure always fluctuates during, and before and after discharging.	bellows balanced safety valve
10852	非平衡形安全弁	safety valve which has no balancing mechanism like that of the bellows balanced safety valve	unbalanced safety valve

No.	Term (Japanese character)	Definition	English equivalent
10853	電磁安全弁※	safety valve which is operated by electric signals, the force of the electromagnet attached to the back of the safety valve being amplified through a lever	magnetic operated safety valve
10854	シリンダ操作安全弁※	safety valve which is provided with a cylinder operated mechanism on its head part	cylinder operated safety valve
10855	補助作動装置付きばね安全弁※	direct spring loaded safety valve provided with an auxiliary actuator	direct spring loaded safety valve with auxiliary actuator
10856	安全逃し弁 (あんぜんにがしべん)	generic term for valves, mainly used in pressure vessels and piping systems for steam, gas or liquid, having function such that the valve disc is automatically opened when the pressure on input port side has increased to the prescribed pressure and closed again when the pressure is decreased to the prescribed value, and also having capability of exhausting the nominal relieving capacity	safety relief valve
10857	逃し弁 (にがしべん) ※	generic term for valves, mainly used in devices for liquid, having function such that the valve disc is automatically opened when the pressure on input port side has increased to the prescribed pressure and closed again when the pressure is decreased to the prescribed value, and also having capability of exhausting the nominal relieving capacity	relief valve
10858	真空逃し弁 (しんくうにがしべん) ※	valves in which the valve disc is automatically opened to introduce the fluid when the pressure in device exceeds the prescribed vacuum degree to maintain the prescribed vacuum degree in the device	vacuum relief valve
10859	トラップ	generic term for valves of unaided type which automatically exhaust drain from equipment, piping, etc.	automatic trap
10860	蒸気トラップ	automatic trap which is used in equipment for steam, piping for steam, etc.	automatic steam trap
10861	メカニカルトラップ ※	automatic steam trap which is operated according to the water level in drain There are two types, an enclosed float type and an opened float type (upward bucket and downward bucket).	mechanical trap
10862	サーモスタチックトラップ※	automatic steam trap which is operated according to the temperature of drain There are vapour pressure type, bimetal type, liquid expansion type and solid expansion type.	thermostatic trap
10863	サーモダイナミックトラップ※	automatic steam trap which is operated by the dynamic characteristics of fluid There are disc type, impulse type, labyrinth type and orifice type.	thermodynamic trap
10864	空気トラップ	automatic trap to be used in pneumatic equipment, piping for pneumatic, etc. This is mainly a float type.	automatic air trap

10) Valves for water supply

No.	Term (Japanese character)	Definition	English equivalent
10900	水道用バルブ	generic term for valves mainly used for water supply piping	valve for water supply
10901	水道施設用バルブ	generic term for valves mainly used for waterworks facilities	valve for waterworks facility
10902	水道用仕切弁	gate valve (wedge gate valve) mainly used for waterworks facilities NOTE: There are those of which the pressure part such as valve body and bonnet and valve disc are made of ductile iron, and those in which the operation part is provided with the reduction gear part of sealed structure.	sluice valve for water supply
10903	ソフトシール仕切弁 ※	gate valve mainly used for waterworks facilities which prevent the rust formation by removing the groove of the valve body bottom, applying rubber lining to the valve disc and performing powder coating on internal and external surface of the valve body	resilient seated gate valve
10904	水道用バタフライ弁 ※	butterfly valve used mainly for waterworks facilities of which the valve seat is composed of the combination of rubber and metal	butterfly valve for water supply
10905	金属弁座バタフライ弁	butterfly valve of which the valve seat is composed of the combination of two metals This is a term as opposed to the butterfly valve for water supply of which the valve seat is composed of the combination of metal and rubber.	metal seated butterfly valve
10906	短面間形バタフライ弁	butterfly valve in which the face to face dimension is shortened as opposed to the butterfly valve in which the face to face dimension is specified in accordance with the standard NOTE: The face to face dimension is specified in JWWA B 138 .	short face to face dimension butterfly valve
10907	充水機能付バタフライ弁※	butterfly valve which makes it possible to supply a small amount of water stably at a minute valve travel at the time of initial filling of water in the pipeline	butterfly valve for filling of water
10908	副弁内蔵形バタフライ弁※	butterfly valve provided with the function of two units of main valve and auxiliary valve for one unit by setting the valve disc (main valve) with a valve smaller than the valve bore to take it as an auxiliary valve (bypass valve)	butterfly valve with relief disc
10909	キャビテーション抑制形バタフライ弁	butterfly valve which controls cavitation in intermediate valve travel by making the valve disc or the valve body specially shaped and dispersing water flow into jet flow	anticavitation butterfly valve

No.	Term (Japanese character)	Definition	English equivalent
10910	伸縮機能付バタフライ弁※	butterfly valve which makes it possible to expand or contract the face to face dimension at the time of piping by having expansion and contraction joint function on one side of the flange of end connection	butterfly valve with expansion and contraction functions
10911	空気弁	generic term for valves of unaided type which controls flowing in/out of air	air valve, air vent valve
10912	急速空気弁※	air valve provided with functions of high speed exhaust, high speed suction and exhaust under pressure	high speed air-vent valve, quick release and vacuum air valve
10913	単口空気弁※	air valve which has one input/output port of air among air valves through which air in pipe is exhausted by the operation of float (exhaust under pressure) or air is sucked when water in pipe is exhausted	single-orifice air valve
10914	双口空気弁※	air valve which has two input/output ports of air among air valves through which air in pipe is exhausted by the operation of float or air is sucked when water in pipe is exhausted	double-orifice air valve
10915	消火栓	valve which spouts water for fire-extinguishing There are those for indoor use and for outdoor use; and there are aboveground type and underground type in those for outdoor use. Also, there are single-orifice type and double-orifice type.	fire hydrant
10916	地上式消火栓※	fire hydrant of lift valve type used by connecting to the underground water supply piping having same operation mechanism of valve disc as globe valve etc., of which the fitting for attaching fire hose is aboveground and the valve stem is arranged in the flow passage to the connector It has a drainage function for freeze proofing.	aboveground fire hydrant
10917	地下式消火栓※	fire hydrant of lift valve type used by connecting to the underground water supply piping having same operation mechanism of valve disc as globe valve etc. of which the fitting for attaching fire hose is underground	underground fire hydrant
10918	ボール式単口消火栓※	single-orifice fire hydrant of ball valve type used for waterworks facilities	ball type fire hydrant
10919	補修弁	valve connected immediately below air valve and fire hydrant for the purpose of stopping water flow at the time of repair of air valve and fire hydrant Butterfly valve, ball valve, etc. are used.	isolating valve for air valve and fire hydrant
10920	コーン弁※	large size valve whose valve body and the valve disc are in the form of cone of which the head portion is cut off, having the similar mechanism to lift cock and mechanism of full close seating and full open seating	cone valve

No.	Term (Japanese character)	Definition	English equivalent
10921	多孔可変オリフィス弁※	valve which has two plate-shaped valve discs provided with two or more orifices and suppresses cavitation in intermediate valve travel by dispersing fluid into jet flow	variable orifice valve
10922	オート弁	generic term for valves which actuate without external power by utilizing fluid pressure, water level change, etc.	auto valve
10923	直動式オート弁	auto valve which actuates by giving the power for opening/closing valve directly to the valve	direct acting auto valve
10924	パイロット式オート弁	auto valve which is opened/closed using the operation of pilot valve as power source	pilot-operated auto valve
10925	フロート弁	valve which is automatically opened/closed by up-and-down of float and used for storing given quantity of liquid in tank The valve is called ball tap particularly when used for equipment in building.	float valve
10926	直動式フロート弁	float valve in which up-and-down of float directly serves as power to make valve open/close	direct acting float valve
10927	パイロット式フロート弁	float valve which is opened/closed using the operation of pilot valve as power source	pilot-operated float valve
10928	給水装置用バルブ	valve used for water supply equipment which is installed in the middle of piping of water supply pipe	valve for water supply equipment
10929	分水栓	device used when water pipe is branched off from distributing pipe	snap tap, corporation stop, ferrule, tapping branch
10930	甲形分水栓※	snap tap which has disc holder in bar form with threads into which valve disc and valve stem are integrated	union ends type snap tap, union ends type tapping branch
10931	乙形分水栓※	snap tap in which opening/closing operation is of cock type	quick close type snap tap, quick close type tapping branch
10932	サドル付分水栓	corporation stop with saddle fixture incorporated by which it is installed on water distribution pipe	corporation stop with saddle, ferrule with saddle, tapping branch with saddle
10933	ボール式サドル付分水栓※	tapping branch with saddle in which opening/closing operation is of ball type	ball type tapping branch with saddle
10934	コック式サドル付分水栓※	tapping branch with saddle in which opening/closing operation is of cock type	cock type tapping branch with saddle

No.	Term (Japanese character)	Definition	English equivalent
10935	止水栓	valve which is installed in the middle of water supply pipe In the faucet, it refers to water tap for water stop and throttling of flow rate which is installed in the middle of cold water supply pipe and/or hot water supply pipe connected to terminal faucet.	stop cock, stop, stop valve, curb stop
10936	甲形止水栓※	stop cock of disc holder type mainly used for outdoor water supply pipe	union ends type check stop, jumper type stop
10937	ボール止水栓※	stop cock which has ball shaped valve disc having similar construction to that of the ball valve, which is mainly used for outdoor water supply pipe	ball type stop
10938	逆流防止装置	device and system for back flow prevention In the faucet, it refers to the device built in the faucet in order to surely prevent the back flow which is generated when the inlet pressure becomes lower than the outlet pressure.	back flow prevention devices, back current preventive devices
10939	単式逆流防止弁※	back flow prevention valve having one back flow prevention unit which presses the valve disc to the valve seat by spring	check valve
10940	複式逆流防止弁※	back flow prevention valve having two pieces of same unit as the check valve arranged in series	dual check valve
10941	二重式逆流防止器※	back flow prevention valve provided with two independent built-in back flow prevention units and with valve, etc. so that the maintenance can be performed as it is mounted on piping	double check valve
10942	減圧式逆流防止器※	back flow prevention valve provided with two independent built-in back flow prevention units, equipped with independent differential pressure type relief valve in the intermediate room, and equipped with valves back and forth for the maintenance	reduced pressure principle back flow preventers, pressure reducing check valve
10943	自重式逆流防止弁	back flow prevention valve with the structure such that the valve disc is seated on the valve seat under its own weight to prevent back flow	lift type check valve
10944	吸排気弁※	valve installed at the top of piping in which back flow is prevented by sucking air to break negative pressure when air in the pipe is automatically exhausted and negative pressure is generated in the pipe	intake and exhaust valve
10945	圧力式バキュームブレーカ※	vacuum breaker having function of automatically introducing air into negative pressure part, in order to prevent the reverse siphon action in cold water and hot water supply system, and is installed in a part of piping which is always subjected to pressure but is not subjected to back pressure	pressure type vacuum breaker, pressure vacuum breaker

No.	Term (Japanese character)	Definition	English equivalent
10946	大気圧式バキューム ブレーカ※	vacuum breaker having function of automatically introducing air into negative pressure part, in order to prevent the reverse siphon action in cold water and hot water supply system, and is installed in a part which is not subjected to pressure It is simply called vacuum breaker in flush valve attachment of faucet.	atmospheric type vacuum breaker, atmospheric vacuum breaker
10947	逆流防止弁付ボール 止水栓※	ball type stop with built-in check valve	ball type stop with check
10948	水道用減圧弁※	pressure reducing valve used for water supply to the heat exchanger for hot water in which the maximum allowable pressure of the supply water on inlet side with built-in check valve is 750 KPa	pressure reducing valve for water supply
10949	戸別給水用減圧弁	pressure reducing valve installed in pipe shaft for the purpose of eliminating the difference of the water supply pressure by story in high-rise apartment building, etc.	pressure reducing valve for house-to-house water supply
10950	不凍栓※	generic term for valves used when there is a possibility of freeze of water supply, which are for preventing freeze of water supply by discharging water in pipeline on outlet side to underground in such a depth which it is not frozen by means of drain operation	antifreeze valve
10951	吸気弁※	automatic valve which makes drain operation performed smoothly by introducing air into piping when water in pipeline on outlet side is discharged with an antifreeze valve, etc. to prevent freeze	intake valve
10952	排気弁※	automatic valve for exhausting air accumulated in piping at the time of water supply after drain operation	exhaust valve
10953	給水栓	tap mounted on water supply pipe making city water flow, which is generic term for single faucet, combination faucet, stop valve, ball tap, and flush valve and washing water tap	faucet, water tap, ball tap and flush valve
10954	単水栓	water tap which spouts hot water or cold water from one spout corresponding to the handle by the operation of one handle	single faucet
10955	横水栓※	water tap mainly used being installed on wall face	wall faucet, bib tap, wall mounted tap
10956	立水栓※	water tap mainly mounted on the horizontal face of washbowl, counter table, etc.	lavatory faucet, pilled cock (tap), pillar tap
10957	衛生水栓※	water tap used for washing hands whose handle can be washed by spouting water	wash basin faucet, washable handle tap
10958	化学水栓※	water tap used mainly in a laboratory having spout shape into such that a hose is easily inserted	laboratory faucet, laboratory tap, chemical tap

No.	Term (Japanese character)	Definition	English equivalent
10959	水飲水栓※	water tap for drinking mounted mainly on drinking water fountain etc., in which water spouts in upward direction or obliquely upward direction	drinking faucet, drinking tap
10960	元止め式水栓※	water tap with the structure such that flow passage on outlet side is provided with water supply port and water return port to water purifier, electric water heater, etc.	main stop system, exclusive faucet, supply source stop tap
10961	湯水混合水栓	water tap which spouts mixture of hot water and cold water by the handle operation	mixer, combination faucet, mixing valve
10962	サーモスタット湯水 混合水栓※	combination faucet which incorporates the mechanism in which if the temperature of spouting water is set beforehand by temperature control handle, even though the pressure, temperature, etc. of hot and cold water are fluctuated, the mixed water is supplied at preset temperature by automatically controlling the mixed amount of hot and cold water	thermostatic combination faucet, thermostatic mixer
10963	ミキシング湯水混合 水栓※	combination faucet in which the temperature of spouting water can be controlled by one handle operation	mixing combination faucet, mixing faucet
10964	シングル湯水混合水 栓※	combination faucet in which water can be spouted, water can be stopped, the flow rate of spouting water and the temperature of spouting water can be controlled by one handle operation	single lever combination faucet, single lever mixer
10965	2 ハンドル湯水混合 水栓※	combination faucet in which open/close handles are provided in hot-water side and cold-water side, and the temperature of spouting water can be controlled by adjusting the valve travel, respectively	two-handle combination faucet, two handle mixer
10966	腰高止水栓※	stop cock with long shank body of which shank part is embedded in wall	concealed long shank stop cock, concealed long shank stop valve
10967	Y 形止水栓※	stop cock mainly used for indoor water supply pipe in which the spindle is mounted in the oblique direction and the union joint type is provided on the outlet side	Y-stop cock, Y-type stop cock, Y-type stop valve, Y-stop valve
10968	分岐止水栓※	stop cock in which the branch connection port is provided on the inlet side	branch stop cock, branch stop valve, diverted stop valve
10969	ボールタップ	valve in which water supply is automatically stopped by the buoyancy of floating ball when a water tank is supplied with water	ball tap
10970	ロータンク用ボール タップ※	ball tap installed in the low tank for flushing closet There is horizontal type mounted on the tank wall surface and vertical type mounted on the tank bottom surface.	low tank ball tap

No.	Term (Japanese character)	Definition	English equivalent
10971	横形ボールタップ※	valve in which water supply is automatically stopped by the buoyancy of floating ball when a water receiving tank is supplied with water	horizontal ball tap
10972	洗浄弁	valve used for flushing a toilet stool, which spouts necessary volume of water when handle, etc. are operated and stops the spout automatically after a prescribed volume of water has been spouted	flush valve, flushometer valve
10973	大便器洗浄弁※	flush valve used for flushing of closet	flush valve, flushometer valve, closet flush valve
10974	小便器洗浄弁※	flush valve used for flushing of urinal	urinal flush valve
10975	小便器洗浄水栓※	water tap used for flushing urinal It may simply be called flush faucet.	urinal flush faucet

11) Application-dependent and dedicated valves

No.	Term (Japanese character)	Definition	English equivalent
11001	自動空気抜き弁※	unaided type of valve which discharges air automatically from equipment for water, piping for water, etc. This is mainly a float type.	automatic air vent valve
11002	呼吸弁※	valve which maintains the air in tank automatically at a prescribed pressure by breathing the atmosphere according to the pressure fluctuation of fluid stored in the tank	breather valve
11003	急速弁	generic term for valves which perform the opening or closing operation quickly as the conditions to control a process in normal state of operations	quick operated valve
11004	急速開放弁	valve which opens quickly (There are combinations of several types of valve and several operation systems.)	quick opening valve, quick open valve
11005	急速閉止弁	valve which closes quickly (a term corresponding to the quick opening valve)	quick closing valve, quick close valve
11006	緊急弁	generic term for valves which urgently and fully open or close for safety in case of abnormality	emergency valve
11007	緊急開放弁	valve which opens in an emergency (There are combinations of several types of valve and several operation systems.)	emergency open valve
11008	一斉開放弁 (いっせいかいほうべん) ※	valve in which the main valve can be instantaneously opened by the operation of pilot valve	deluge valve
11009	緊急遮断弁	valve which closes in an emergency (a term corresponding to the emergency open valve)	emergency shut-off valve

No.	Term (Japanese character)	Definition	English equivalent
11010	過流防止弁※	valve which prevents a large amount of fluid from flowing out from a reservoir and the like, in case where a pipe or a valve is broken or a connected pipe is detached	excess flow valve
11011	ホース弁※	valve with the coupling which is used to connect the hose directly to the valve	hose valve
11012	ゲージ元弁※	valve which is used as the root valve of a pressure gauge or measuring instrument (several types of valves are used depending on purposes)	gauge valve
11013	ベローズ弁※	valve provided with metal bellows to prevent leakage at gland part	bellows valve
11014	低騒音弁	valve constructed so as to lower the noise level generated from valve	low noise valve
11015	ストーム弁※	valve which prevents the reverse flow of seawater due to ocean waves	storm valve
11016	平底弁※	valve which performs opening/closing operation by moving the valve disc up and down, which is installed at the bottom of pond or vessel	flat valve
11017	制水扉※	type of water gate which performs opening/closing operation by moving door body in the form of square plate or disc up and down along the guide groove of door frame mounted on the wall face, etc.	plate valve
11018	定流量弁※	valve in which the flow rate of fluid that flows through the piping is maintained at a preset value	constant flow regulating valve, constant flow regulator
11019	定水位弁※	valve that supplies water to water receiving tank etc., and stops water supply automatically when a prescribed level is reached by interlocking with the pilot valve in the tank	level regulating valve
11020	ピストン弁※	valve with the valve disk of piston shape	piston valve
11021	ピンチ弁※	valve which closes the flow path with pinching sleeves made of rubber, etc.	pinch valve
11022	連成弁※	valve to which two or more of valve discs are built in one valve body, each of which has similar function	manifold valve
11023	三方弁※	valve with three input/output ports for fluid, through which the flow is branched or merged, the flow direction is changed, or the one way flow direction is stopped	three-way valve
11024	ブロック弁※	a) valve of integrated type in which two or more valves are incorporated into common valve body b) valve machined out from block (steel ingot) c) valve aiming at completely closing the line of fixed zone and the like	block valve

No.	Term (Japanese character)	Definition	English equivalent
11025	四方口逆洗弁※	valve that is installed for the purpose of washing away foreign materials such as shells clogged mainly in condenser tube by reverse flow, provided with jointing parts to pipes in four directions of the valve body, which can reverse the flow direction (reverse flow) by switching the flow passage	(four-way type) reversing valve
11026	偏心構造弁※	valve with the structure such that the valve disc performs rotational movement to the side face of valve body at the time of full opening so that sewage and sludge are easily flown, and the flow passage is not obstructed by the valve disc and valve stem	eccentric valve
11027	スリーブ弁	valve with the valve disc of sleeve shape	sleeve valve
11028	放流形スリーブ弁※	sleeve valve that is submerged in the stilling pool of pipeline end and used as discharge valve	discharge sleeve valve
11029	インライン形スリーブ弁※	sleeve valve that is mounted in the middle or at the end of piping, which performs flow rate control or pressure control through small holes of sleeve	inline sleeve valve
11030	フート弁※	check valve of vertical type which is installed on the suction pipe to prevent the reverse flow of fluid	foot valve
11031	フラップ弁※	valve that installed on the pipeline end which opens/closes the valve disc by fluid pressure and prevents reverse flow	flap valve
11032	ホロージェット弁※	valve with the valve disc of needle cone shape mounted at the pipe end, which discharges hollow shaped jet into air	hollow jet valve
11033	メタルダイヤフラム弁※	diaphragm valve using a thin disc-shaped metal diaphragm	metal diaphragm valve
11034	メーターユニット※	water supply tool integrated by mounting the removable mechanism of water meter together with stop valve, check valve, etc. on the valve seat	meter unit
11035	タンク弁※	valve installed on the bottom of reactor, which extracts internal reactants	tank valve
11036	ダンパー※	valve in which, for the purpose of flow rate regulation, leakage is permitted when the valve is closed	damper
11037	水撃抑制形逆止め弁	generic term for check valves which control the closing speed of valve by force of spring, counter balance, dash pot, etc., and suppress water hammer generated at the time of closing	water hammer suppress check valve
11038	急閉式逆止め弁	check valve forcibly closed by the action of spring (mainly small bore), counter balance, etc. just before changing from direct flow to reverse flow, and suppress the generation of water hammer	quick close type check valve

No.	Term (Japanese character)	Definition	English equivalent
11039	緩閉式逆止め弁	check valve that suppresses the generation of water hammer by controlling the valve closing speed with the piston system hydraulic power unit etc. at the occurrence of reverse flow to close slowly During the time up to complete closing, the back flow is permitted.	slow close type check valve

b) **Parts/portion name**1) **Parts name**

No.	Term (Japanese character)	Definition	English equivalent
20101	弁箱※, 本体, 胴, ボディ	pressure retaining part that constitutes the main part of flow passage having the end connection to flow passage and piping	(valve) body
20102	蓋※	pressure retaining part mounted on the valve body to tightly seal the fluid in valve body	bonnet, cover, cap
20103	ヨーク※	parts for supporting and connecting actuator and valve stem	yoke
20104	弁体※, 閉止部品	movable parts to control the fluid, which is brought into close contact with the valve seat at the time of valve closing to serve the closing function of valve	(valve) disc, closure member, wedge, plug, gate
20105	弁座※	parts having a region equivalent to the shutoff surface that allows total contact in valve when the valve is located at the closing position	(valve) seat, body seat
20106	弁箱付き弁座※	valve seat mounted on the valve body	body seat ring
20107	弁体付き弁座※	valve seat mounted on the valve disc	disc seat ring
20108	弁棒※, スピンドル, 栓棒	parts that transmits the operating force from actuator to valve disc	(valve) stem, spindle
20109	蓋はめ輪	bushing that is provided with the back seat mounted on bonnet or cover side	back seat bushing
20110	パッキン押さえ輪※	parts that presses packing	gland, packing gland, packing follower
20111	パッキン押さえ※	parts that presses gland	gland flange, packing flange, gland follower
20112	ヨークスリーブ※	nut fitting the valve stem used for outside screw and yoke type gate valve etc., which is rotated by fixing to the handwheel	yoke sleeve, stem nut, screwed bush

No.	Term (Japanese character)	Definition	English equivalent
20113	パッキンはめ輪	ring that has H-shaped cross-section, which is inserted between two pieces of packing or into one end of packing	gland bush, lantern ring
20114	パッキン※	generic term for sealants used for tight seal of moving parts such as rotation and reciprocal motion	packing, gland packing, gasket, rubber washer
20115	ガスケット※	generic term for sealants inserted between the flange faces of valve and other various fixed connection faces, and tightened by bolts and other methods to prevent leakage of fluid	gasket
20116	パッキン押さえボルト※	bolt that fixes the gland flange	gland bolt
20117	ダイヤフラム※	a) film that receives the operating pressure of diaphragm-type operation unit and gives displacement to the operation axis b) filmy element used for detection and transmission of pressure c) flexible film of diaphragm valve At the time of valve closing, it closely contacts a weir, and closes the flow passage.	diaphragm
20118	ベローズ※	bellows-shaped part used as an independent sealant or a part of sealant	bellows
20119	ストレーナ, フィルタ	filtration parts that separates and removes foreign particles, scales, etc. in fluid	strainer, filter
20120	フロート※, 浮玉, 浮子玉	parts that moves valve disc by buoyancy	float, floating ball
20121	こま, ケレップ	valve disc used in a water tap	jumper, disc holder
20122	ハンドル※	generic term for the handgrip for operating a valve manually	handle, lever
20123	オリフィス	throttling parts of which the part where the flow passage area is reduced has rather shorter length compared with the cross-sectional dimensions	orifice

2) Portion name

No.	Term (Japanese character)	Definition	English equivalent
20201	トリム	principle parts inside the valve, such as valve disc, valve seat and valve stem	trim, valve trim

No.	Term (Japanese character)	Definition	English equivalent
20202	耐圧部	generic term for parts directly receive the pressure in valve and constitute shells to hold pressure	shell, pressure shell, pressure shell section, pressure retaining part, pressure tight part
20203	流路	route through which fluid passes the inside of the valve	flow channel, watercourse, flow way, flow passage, flow path
20204	接液部	part which fluid contacts	fluid contact part, flow contact part
20205	接水耐圧部	part in which water always contacts and to which inlet pressure is directly applied at the time of valve closing	water contact pressure shell, water tight part
20206	パッキン室	box in which packing is stuffed, which is the part where the packing is housed for sealing the clearance part between valve stem and bonnet	stuffing box
20207	減速機	mechanism to reduce the handle operating force	reduction gear, reducer, gear actuator
20208	駆動部	generic term for mechanisms to open/close valves	actuator, valve actuator, actuation
20209	本体部	generic term for the assembly of valve that consists of valve body, bonnet, trim, etc.	valve body assembly
20210	泡まつ装置	device that suppresses water splashing by making air mix into flowing water	aerator
20211	整流装置	device that makes flow state straightened	flow straightener, laminar flow device
20212	吐水口	part spouting water of water tap	spout
20213	シングルカートリッジ	cartridge in which the water stop mechanism part of single lever combination faucet is integrated into one unit	stop control, cartridge, ceramic disc cartridge, single lever cartridge
20214	サーモスタットカートリッジ	cartridge in which the automatic temperature control mechanism section of thermostatic combination faucet is integrated into one package	thermostat control cartridge, thermostatic mixing cartridge, thermostatic cartridge
20215	接続端	region of valve body provided in order to perform pressure-proof connection to piping	end connection
20216	ガスケット座	seat which receives gasket	gasket contact surface

No.	Term (Japanese character)	Definition	English equivalent
20217	逆座	sealing surface between bonnet and valve stem	back seat
20218	パイロット弁	small valve that operates main valve by regulating valve, solenoid operated valve, safety valve, etc.	pilot valve

c) Type

1) End connection

No.	Term (Japanese character)	Definition	English equivalent
30101	ねじ込み形※	type of end connection with screw thread	threaded end, screwed end
30102	フランジ形※	type of end connection with flange	flanged end
30103	シングルフランジ形	type of end connection in which single flange is provided with joint faces on both surfaces	single-flanged end
30104	ダブルフランジ形	type of end connection in which both ends have flanges	double-flanged end
30105	フランジレス形	generic term for end connections in which valve body is not provided with flange The end connection is provided with seat face that agrees with the seat face of flange provided in the piping to connect. The valve is pinched between piping flanges to be mounted.	flangeless end
30106	ウェハー形※	one type of flangeless ends in which valve body is pinched between pipe flanges and tightened by pinching bolt	wafer type
30107	ラグ形	one type of flangeless ends in which screw-thread processing equivalent to the bolt bore of pipe flange outside the valve body or the projection in which hole is made are provided	lug type
30108	フルラグ形※	one of lug types in which all the bolts are provided with projections	full-lug type
30109	セミラグ形※	one of lug types in which every other bolt is provided with projection	semi-lug type
30110	溶接形	generic term for socket welding ends and butt welding ends which are end connections of valve body formed so that welding can be performed to piping and other pipe joints	welding end, welded end
30111	差込み溶接形※	type of end connection in which ends are jointed with pipes by socket welding	socket welding end, socket welded end
30112	突合せ溶接形※	type of end connection in which ends are jointed with pipes by butt welding	butt welding end, butt welded end
30113	ユニオン形※	type of end connection in which ends are union type	union end

No.	Term (Japanese character)	Definition	English equivalent
30114	ろう付け形※	type of end connection in which ends are jointed with pipes by soldering	soldered end
30115	ソケット形※	type of end connection in which ends are socket type	socket end
30116	スピゴット形※	type of end connection in which ends are spigot type	spigot end
30117	メカニカル形	type of end connection with the structure such that ends can be mechanically joined	mechanical joint, mechanical joint end
30118	ホース接続形※	type of end connection with the structure such that hose is connected directly or via joint	hose coupling type, hose connection type

2) Valve body

No.	Term (Japanese character)	Definition	English equivalent
30201	玉形※	type of valve body in which the flow passages of input port and output port are in the form of “S”, and the external shape of valve body is spherical	globe type
30202	流線 S 形※	type of valve body of which external shape is in the form of “S” fitting to the shape of flow passage	streamlined S-type
30203	ストレート形※	type of flow passage in which the flow passages of input port and output port are in straight line with each other In the faucet, this type has the structure of stop valve that is used by attaching it mainly to the water supply pipeline from floor in which the flow passage on inlet side and the flow passage on outlet side form a straight line.	straight type
30204	アングル形※	type of valve body in which the flow passages of input port and output port are at right angles with each other In the faucet, this type has the structure of stop valve that is used by attaching it mainly to the water supply pipeline from wall in which the flow passage on inlet side and the flow passage on outlet side forms right angle in water stop mechanism.	angle type
30205	Y 形※	type of valve body in which the flow passage of output port makes acute angle with the axial line of valve stem	Y-globe type, Y-type
30206	エルボダウン形※	type of valve body of elbow shape which is a variation of Y-globe type, and in which the flow passages of input port and output port do not form straight line.	elbow down type
30207	連成形※	type of integrated valve body into which two or more valve bodies can be incorporated	manifold type
30208	ワンピース形※	type of valve body whose body is one piece	single (body) type, one piece type