HISAKA

General Catalogue of Ball Valves

Pioneer of Ball Valves ~ HISAKA ~

The ball valves developed by HISAKA for the first time in Japan have undergone various improvements and refinements since their birth. The valves not only have a wide range of applications including liquid, gas, steam, and powder and granular material, but also withstand severe conditions including high viscosity, high temperature, and high pressure. Our valves are used in various plants and facilities of the chemical, steel, paper and pulp, and thermal power generation industries.

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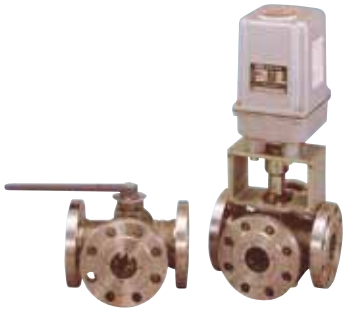
Contents		**General ball valve**	**Ball valve for low temperature**	**Ball valve for steam**
Appearance				
Model		**HF5**	**HF5(LT), FM5(LT)**	**HF5(ST)**
Feature		This floating type general ball valve is a representative model of the valves manufactured by HISAKA. We support various options for this product, including oil and water free treatment, buffing and others. The valve can also be automated without disassembly while still on the piping. For the valve cleaning level,even standard cleaning is equal or superior to simplified oil free treatment compare with other makers.	Floating type ball valve for low temperature service. This model is suitable for refrigerant (including brine) and liquefied gas applications. As standard, this valve is a long-bonnet type (optional for HF5LT) which has undergone oil free and water free treatment. The product can also be installed in vertical piping by attaching a heat absorbing plate (optional).	Floating type ball valve developed specially for steam service. To prevent leakage from the gland part, an exfoliated graphite packing is used as the gland packing, which withstands temperature variations. The valve is also provided with measures to prevent an internal pressure increase (cavity expansion) by standard.
Specification/ Pressure Class/ Size inch(mm)	Port	Full bore	Full bore	Full bore
	JIS10K ASME CLASS150	1/2"(15A)-12"(300A)	1/2"(15A)-4"(100A)	1/2"(15A)-6"(150A)
	JIS20K ASME CLASS300	1/2"(15A)-10"(250A)	1/2"(15A)-2"(100A)	1/2"(15A)-6"(150A)
	ASME CLASS600	—	—	—
Temperature Range		As per the following Temperature and Pressure Rating for General Ball Valve.(P12)	Low temperature zone down to -104°C As per the following Temperature and Pressure Rating. for Low Temperature and Pressure Rating.(P12)	Saturated vapor at 1 MPa(abs.): 179°C Saturated vapor at 2 MPa(abs.): 212°C
Connection		Flange	Flange	Flange
Face-to-Face		ASME B16.10	ASME B16.10	ASME B16.10
Allowable Seat Leakage Volume		No leakage	No leakage (Allowable leakage volume for gas at -50°C or below: 25 cc/min/inch)	No leakage
Material	Body	Stainless steel Carbon steel Cast iron Ductile cast iron Special materials can be used, including Hastelloy, Nickel, and Titanium.	Stainless steel	Stainless steel Cast iron Ductile cast iron
	Trim	Stainless steel Special materials can be used, including Hastelloy, Nickel, and Titanium.	Stainless steel	Stainless steel
	Seat	PTFE Maxtite PTFE Carbon-fiber reinforced PTFE PEEK (Poly Ether Ether Ketone) BR (with back seat)	Maxtite PTFE	Maxtite PTFE Special carbon reinforced PTFE

		4	5	6
Contents		**Long bonnet ball valve**	**3-way ball valve**	**High pressure 3- and 4-way ball valve**
Appearance				
Model		**HF5LB**	**H45**	**D33,D43**
Feature		This ball valve is equipped with a long bonnet (having a higher gland seal part than the general ball valves by 160 mm) and designed for thermal and cold insulation and heat dissipation applications. The valve can be equipped with O-ring(s) and lantern ring(s) in its gland part. A double seal configuration is also allowed. The long bonnet can be installed on other models than HF5.	This 3-way ball valve is a multi-functional valve which can be used to divert, divide, mix, and close off fluid with one unit. Ball seat is mounted on each of the 4 faces allowing for free selection of flow directions. The main body of the valve has a 3-block structure, offering excellent maintainability.	These are respectively 3-way and 4-way trunnion-mounted ball valves which can also be used for high pressure service. Ball seat is mounted on each of the 4 faces and equipped with a spring on its back, achieving good sealing performance and stable operational torque. In addition, the valves are provided with measures to prevent an internal pressure increase (cavity expansion).
Specification/ Pressure Class/ Size inch (mm)	Port	Full bore	Full bore	Full bore
	JIS10K ASME CLASS150	1/2"(15A)-12"(300A)	1/2"(15A)-12"(300A)	1/2"(15A)-8"(200A)
	JIS20K ASME CLASS300	1/2"(15A)-10"(250A)	—	1/2"(15A)-8"(200A)
	ASME CLASS600	—	—	—
Temperature Range		As per the following Temperature and Pressure Rating for General Ball Valve.(P12)	Be inquired	-30°C to 160°C
Connection		Flange	Flange	Flange
Face-to-Face		ASME B16.10	Manufacturer standard	Manufacturer standard
Allowable Seat Leakage Volume		No leakage	No leakage	No leakage
Material	Body	Stainless steel	Stainless steel Cast iron	Stainless steel
	Trim	Stainless steel	Stainless steel	Stainless steel
	Seat	PTFE Maxtite PTFE	PTFE Maxtite PTFE Carbon-fiber reinforced PTFE Carbon can also be provided.	PTFE Maxtite PTFE Carbon-fiber reinforced PTFE Metal seats can also be provided.

		7	8	9
Contents		**Screw end ball valve**	**Screw end ball valve**	**Flangeless ball valve**
Appearance				
Model		**HBS**	**HS5**	**WF5**
Feature		Compact screw end ball valve with one-piece body. This simple, low-cost valve is best suited to utility lines including water and air.	Floating type screw-end ball valve. This model is more lightweight and compact than the flange type. The valve HS5 uses parts compatible with those of the general product (type HF5), and can also be automated easily.	This floating type ball valve is an wafer type designed to be more lightweight, more compact, and slimmer. The valve WF5 uses parts compatible with those of the general product (type HF5), and can also be automated easily.
Specification/ Pressure Class/ Size inch(mm)	Port	Reduced	Full bore	Full bore
	JIS10K ASME CLASS150	1/4"(8A)-2"(50A)	1/4"(8A)-2"(50A)(*)	3/8"(10A)-2"(50A)
	JIS20K ASME CLASS300	–	–	–
	ASME CLASS600	–	–	–
Temperature Range		0°C to 160°C	As per the following Temperature and Pressure Rating for General Ball Valve.	
Connection		Rc	Rc	Wafer
Face-to-Face		Manufacturer standard	Manufacturer standard	Manufacturer standard
Allowable Seat Leakage Volume		No leakage	No leakage	No leakage
Material	Body	Stainless steel	Stainless steel Ductile cast iron	Stainless steel
	Trim	Stainless steel	Stainless steel	Stainless steel
	Seat	PTFE	PTFE Maxtite PTFE	PTFE Maxtite PTFE

(*) 8A and 10A size can be provided only stainless steel.

		10	11	12
Contents		**Tank bottom ball valve**	**2-way jacketed ball valve**	**3-way jacketed ball valve**
Appearance				
Model		**TB5**	**HJ5**	**H45J**
Feature		This ball valve is developed for tank bottoms and is much superior in discharging efficiency, agitation performance, and operability to the flush valve, and gate valve, which are conventionally used. Actuator position can be changed by link type equipment.	This jacketed ball valve is used for temperature control line. With full bore design,this valve has high liquidity performance. This jacketed ball valve uses a long bonnet at its gland part to protect thermal effect.	This 3-way, 4-seat jacketed ball valve has the performace of Jacketed ball valve, and be available in 2 options: T-Port and L-Port configurations. The valve uses a long bonnet at its gland part, easily allowing for the thermal and cold insulation of fluid.
Specification/ Pressure Class/ Size inch (mm)	Port	Full bore	Full bore	Full bore
	JIS10K ASME CLASS150	1"(25A)-12"(300A)	1/2"(15A)-12"(300A)	1/2"(15A)-4"(100A)
	JIS20K ASME CLASS300	—	Be inquired	—
	ASME CLASS600	—	—	—
Temperature Range		As per the following Temperature and Pressure Rating for General Ball Valve.(P12)	As per the following Temperature and Pressure Rating for General Ball Valve.(P12)	Be inquired
Connection		Flange	Flange	Flange
Face-to-Face		Manufacturer standard	ASME B16.10	Manufacturer standard
Allowable Seat Leakage Volume		No leakage	No leakage	No leakage
Material	Body	Stainless steel Hastelloy alloy	Stainless steel	Stainless steel
	Trim	Stainless steel Hastelloy alloy	Stainless steel	Stainless steel
	Seat	Maxtite PTFE PTFE Carbon-fiber reinforced PTFE Metal seat	Maxtite PTFE PTFE Carbon-fiber reinforced PTFE Carbon seat Metal seat	Maxtite PTFE PTFE Carbon-fiber reinforced PTFE Carbon seat

Contents		13 Y-type 3-way ball valve/Metal touch Y-type 3-way ball valve	14 Metal touch ball valve (1-way)	15 Metal touch ball valve (1-way for powder)
Appearance				
Model		HY1, HY1M, HY2, HY2M	HF5(M1R), HF5(M1M), HF5(M1H)	FM5R, FM5M, FM5H
Feature		Y-type 3-way ball valve for diverting in pneumatic conveyance lines for powder and/or pellets. This model has metal seat design, and it can be used under harsh conditions, including powder, slurry, and high viscosity fluid services, and frequent valve operation, which have been difficult to handle with general ball valves due to severe wear.	General metal touch ball valve. This model can be used under harsh conditions, including powder, slurry, and high viscosity fluid services, and frequent valve operation and high temperature, which have been difficult to handle with soft seats due to severe wear.	This high-quality metal touch ball valve has a gland part for powder stronger than the general metal touch ball valves do. The valve can be used under harsh conditions, including powder, slurry, and high viscosity fluid services, and frequent valve operation, which have been difficult to handle due to severe wear.
Specification/ Pressure Class/ Size inch(mm)	Port	Full bore	Full bore	Full bore
	JIS10K ASME CLASS150	1"(25A)-14"(350A)	1/2"(15A)-8"(200A)	1/2"(15A)-8"(200A)
	JIS20K ASME CLASS300	—	1/2"(15A)-8"(200A)	1/2"(15A)-8"(200A)
	ASME CLASS600	—	—	—
Temperature Range		80°C (MAX160°C available)	HF5(M1R) MAX 200°C HF5(M1M) MAX 350°C HF5(M1H) MAX 600°C(*)	FM5R MAX 200°C FM5M MAX 350°C FM5H MAX 600°C(*)
Connection		Flange	Flange	Flange
Face-to-Face		Manufacturer standard	ASME B16.10	ASME B16.10
Allowable Seat Leakage Volume		No leakage / Conforming to MSS-SP-61	Conforming to ANSI FCI-70-2 CLASS-V	Conforming to ANSI FCI-70-2 CLASS-V
Material	Body	Stainless steel	Stainless steel	Stainless steel
	Trim	Stainless steel + various hardening treatments	Stainless steel + various hardening treatments	Stainless steel + various hardening treatments
	Seat	Glass fiber reinforced PTFE Metal seat	Metal seat	Metal seat

(*) The maximum temperature is 450°C in an oxidizing atmosphere or 600°C in a non-oxidizing atmosphere.

Contents		16 Metal touch ball valve (2-way)	17 Carbon seat ball valve	18 Trunnion-mounted ball valve for high pressure and/or large bores
Appearance				
Model		TM1R, TM1M, TM1H, FM5RB	HF5(CAM), HF5(CAH)	TF5/TF1/TF3
Feature		Metal touch ball valve of bi-directional type. It is suitable for inlet of reactor that bi-directional pressurized at reaction timing. This model can be used under harsh conditions, including powder, slurry, and high viscosity fluid services, and frequent valve operation and high temperature, which have been difficult to handle with soft seats due to severe wear.	This carbon seat ball valve can withstand operating temperatures up to 400°C. The product is best suited to high temperature service including heat transfer oil. There is no limit on the fluid pressure direction. (2-way specification)	This valve is provided with a stem above and below the ball to hold the ball perpendicular to fluid. This configuration achieves sealing by the interaction between springs and fluid pressure without relying on fluid pressure. ・This model can be provided metal seat if requested,
Specification/ Pressure Class/ Size inch (mm)	Port	Full bore	Full bore	Full bore
	JIS10K ASME CLASS150	1/2"(15A)-8"(200A)	1/2"(15A)-8"(200A)	8"(200A)-24"(600A)
	JIS20K ASME CLASS300	1/2"(15A)-4"(100A)	1/2"(15A)-8"(200A)	8"(200A)-20"(500A)
	ASME CLASS600	—	—	1/2"(15A)-10"(250A)
Temperature Range		TM1R, FM5RB MAX 160°C TM1M MAX 350°C TM1H MAX 600°C(*)	HF5(CAM) −50°C to +350°C HF5(CAH) −50°C to +400°C	-30°C to 80°C (MAX160°C available)
Connection		Flange	Flange	Flange
Face-to-Face		Manufacturer standard	ASME B16.10	ASME B16.10
Allowable Seat Leakage Volume		Conforming to ANSI FCI-70-2 CLASS-V	Conforming to ANSI FCI-70-2 CLASS-V	No leakage / Conforming to ANSI FCI-70-2 CLASS V
Material	Body	Stainless steel	Stainless steel	Stainless steel Carbon steel
	Trim	Stainless steel + various hardening treatments	Stainless steel	Stainless steel Stainless steel + various hardening treatments
	Seat	Metal seat	Carbon seat	PTFE Metal seat (Stainless steel + various hardening treatments)

(*) The maximum temperature is 450°C in an oxidizing atmosphere or 600°C in a non-oxidizing atmosphere.

Contents		19 Semi jacket & pigging system ball valve	20 Pneumatic Operation ball valve(A series)	21 Pneumatic Operation ball valve(T series)
Appearance				
Model		CH1/CH41/CH41S	HF5-AD/AS	HF5-TD/TS
Feature		This is a light-weight and compact ball valve developed for chocolate lines ・With a semi jacketed structure, it is suitable for food fluid which tends to set easily. ・2-way and 3-way valves are available. (Internal diameters of 2-way valves are designed Sch 10S to match for pigging line.)	Compact, pneumatically operated actuator designed originally by HISAKA. Adoption of the double scotch yoke configuration and the drive section made of aluminum achieve light weight and a compact build. The solenoid valves and limit switches are specially designed to be directly connected to aim for a compact build. Available for any type of valves.	Pneumatically operated actuator designed originally by HISAKA. Its outdoor drip-proof structure prevents water from entering the inside thus eliminating possible damage. This actuator can be mounted on the instrumentation equipment of all manufacturers according to the request from customers. As an option, a manual handle operation feature is also available. Available for any type of valves.
Specification/ Pressure Class/ Size inch(mm)	Port	Full bore	Full bore	Full bore
	JIS10K ASME CLASS150	(*)1-1/2"(40A)-4"(100A)	1/2"(15A)-12"(300A)	1/2"(15A)-12"(300A)
	JIS20K ASME CLASS300	—	1/2"(15A)-10"(250A)	1/2"(15A)-10"(250A)
	ASME CLASS600	—	—	—
Temperature Range		-30°C to 160°C	As per the following Temperature and Pressure Rating for General Ball Valve.(P12)	As per the following Temperature and Pressure Rating for General Ball Valve.(P12)
Connection		Flange	Flange	Flange
Face-to-Face		Manufacturer standard	ASME B16.10	ASME B16.10
Allowable Seat Leakage Volume		No leakage	No leakage	No leakage
Material	Body	Stainless steel	Stainless steel Carbon steel Cast iron Ductile cast iron Special materials can be used, including Hastelloy, Nickel, and Titanium.	Stainless steel Carbon steel Cast iron Ductile cast iron Special materials can be used, including Hastelloy, Nickel, and Titanium.
	Trim	Stainless steel	Stainless steel Special materials can be used, including Hastelloy, Nickel, and Titanium.	Stainless steel Special materials can be used, including Hastelloy, Nickel, and Titanium.
	Seat	PTFE	PTFE Maxtite PTFE Carbon-fiber reinforced PTFE PEEK (Poly Ether Ether Ketone) BR (with back seat)	PTFE Maxtite PTFE Carbon-fiber reinforced PTFE PEEK (Poly Ether Ether Ketone) BR (with back seat)

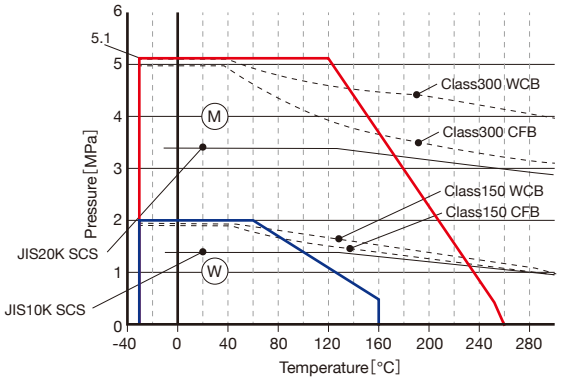
(*) In case 3 way valve, size for CH41 is 2"(50A) and 2-1/2"(65A), size for CH41S is 2"(50A) to 4"(100A) only.

Contents		22 2-stage Pneumatic Operation ball valve	23 Hydraulic Operation ball valve	24 Motorized ball valve
Appearance				
Model		HF5-TDT／TST	HF5(SH)-HC、TF5(SH)-HC	HF5-AE
Feature		Epoch-making 2-stage operation actuator allowing for 3 valve positions: fully closed, fully opened, and half opened positions. The opening can be set freely up to 45 degrees. This actuator can also be used for metering valves. In addition, the product can be used to prevent water hammers.	Hydraulic operated actuator designed originally by Hisaka. It has high torque and durability so that it is suitable for installing limited space. This actuator is available for any type of valves.	Ball valve with an electric motor installed in its drive section. This valve can be driven by using signal wiring and power wiring, in a place where it is difficult to supply operation air.
Specification/ Pressure Class/ Size inch(mm)	Port	Full bore	Full bore	Full bore
	JIS10K ASME CLASS150	1/2"(15A)-12"(300A)	6″(150A)-20″(500A)	1/2"(15A)-12"(300A)
	JIS20K ASME CLASS300	1/2"(15A)-10"(250A)	6″(150A)-20″(500A)	1/2"(15A)-10"(250A)
	ASME CLASS600	—	—	—
Temperature Range		As per the following Temperature and Pressure Rating for General Ball Valve.(P12)	-30°C to 80°C (MAX160°C available)	As per the following Temperature and Pressure Rating for General Ball Valve.(P12)
Connection		Flange	Flange	Flange
Face-to-Face		ASME B16.10	ASME B16.10	ASME B16.10
Allowable Seat Leakage Volume		No leakage	No leakage	No leakage
Material	Body	Stainless steel Carbon steel Cast iron Ductile cast iron Special materials can be used, including Hastelloy, Nickel, and Titanium.	Stainless steel Carbon steel	Stainless steel Carbon steel Cast iron Ductile cast iron Special materials can be used, including Hastelloy, Nickel, and Titanium.
	Trim	Stainless steel Special materials can be used, including Hastelloy, Nickel, and Titanium.	Stainless steel	Stainless steel Special materials can be used, including Hastelloy, Nickel, and Titanium.
	Seat	PTFE Maxtite PTFE Carbon-fiber reinforced PTFE PEEK (Poly Ether Ether Ketone) BR (with back seat)	PTFE Carbon-fiber reinforced PTFE	PTFE Maxtite PTFE Carbon-fiber reinforced PTFE PEEK (Poly Ether Ether Ketone) BR (with back seat)

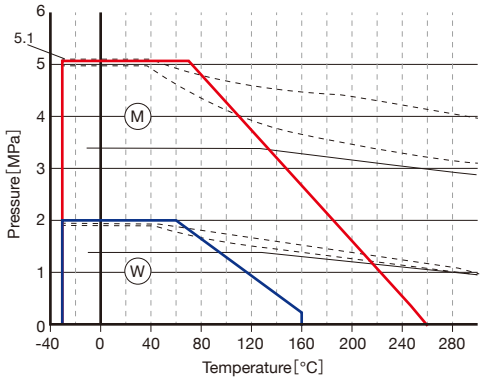
		25	26	
Contents		**Diaphragm valve**	**Hi-T seat ball valve**	
Appearance				
Model		**HD1(PPE)、HD1(PPE)-ZS/Z O/ZD**	**HF5(HT)**	
Feature		HISAKA Diaphragm valve is suitable for high corrosive application. The valve parts are designed by HISAKA which are including cast steel body, bonnet handle, stainless compressor, actuator and so on.	This is a soft seat ball valve that can be used up to a maximum operating temperature of 300°C (1.0 MPa) by mixing high ratio carbon-based fillers in the PTFE. It has the same features as conventional PTFE seat, such as low torque, zero leakage, easy maintenance, and 2WAY specifications, and is superior in cost performance compared to metal seat ball valves.	
Specification/ Pressure Class/ Size inch(mm)	Port	—	Full bore	
	JIS10K ASME CLASS150	1/2″(15A)-4″(100A)	1/2"(15A)-4"(100A)	
	JIS20K ASME CLASS300	—	1/2"(15A)-4"(100A)	
	ASME CLASS600	—	—	
Temperature Range		-20℃～100℃	-30℃～300℃	
Connection		Flange	Flange	
Face-to-Face		ISO	ASME B16.10	
Allowable Seat Leakage Volume		No leakage	No leakage	
Material	Body	Carbon steel(SCPH2) + PFA Lined	Stainless steel Carbon steel	
	Trim	Compresser: Stainless steel	Stainless steel	
	Seat	Diaphragm: PTFE Cushion rubber: EPDM	Hi-T seat	

Temperature and Pressure Rating for General Ball Valve

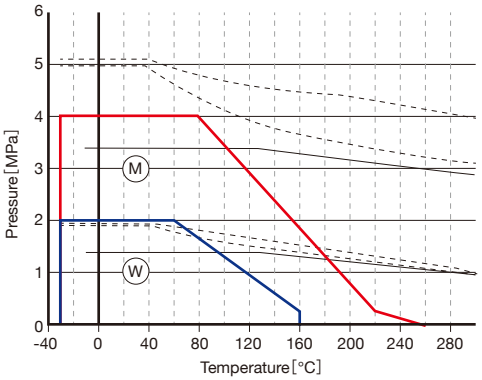
Valve size 15A to 65A



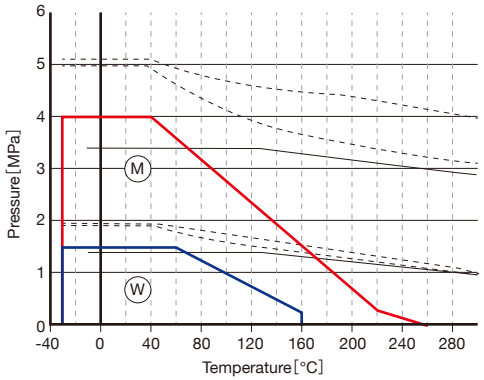
Valve size 80A・100A



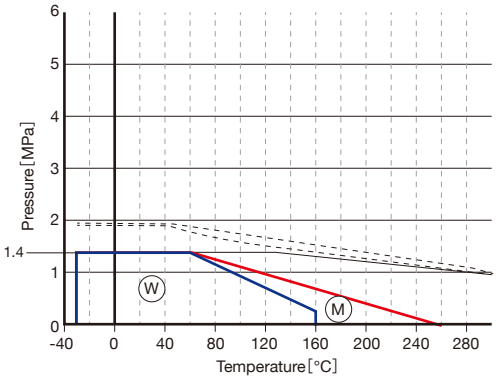
Valve size 125A・150A



Valve size 200A・250A



Valve size 300A



Description

W — PTFE

M — Maxtite PTFE
Carbon fiber filled reinforced PTFE (R4)

JIS 10K/20K body rating

ASME Class 150/300 body rating

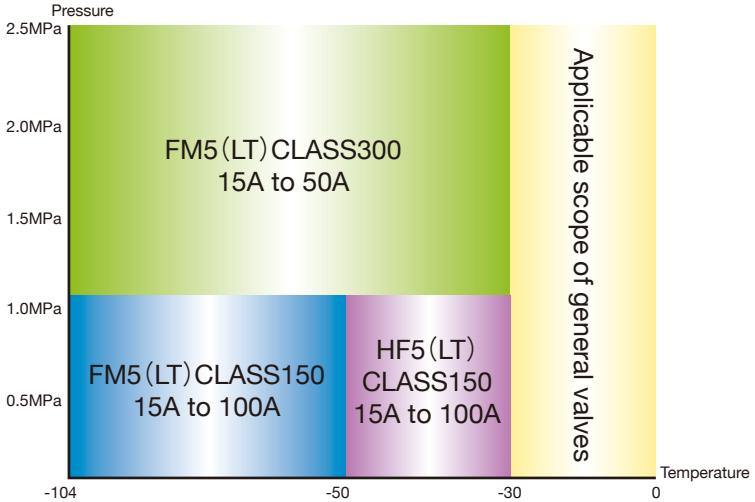
●MAX. FLUID TEMP. FOR GLAND PACKING & GASKET

PTFE ·····max 200°C

MAXTITE PTFE, R4 ·····max 250°C

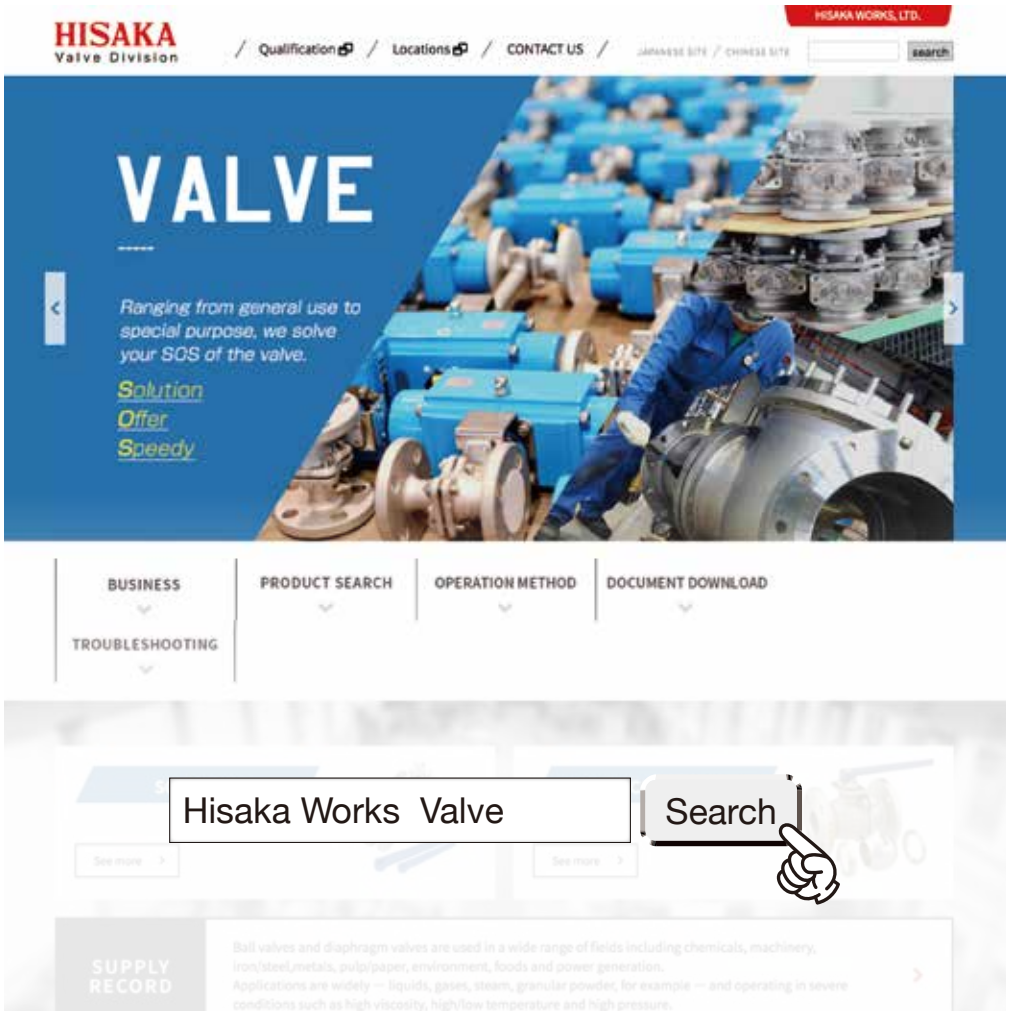
*Applicable temperature range for gland packing & gasket is the above.
In addition, shall be followed in the range of ball seat and body rating.

Temperature and Pressure Rating for Low Temperature Ball Valve



HISAKA Valve Division Website

This site provides you with all kinds of information on our valve products including information on our new products, downloading of operating procedures and technical information, and acceptance of your inquires on our products and your requests for quotation.



FOR PROPER USE OF HISAKA BALL VALVES

1. Completely clean the inside of the piping before installing valves. Contaminations, welding slag, or rust in pipes can cause leakage or malfunction if digging into the seal surfaces.

2. Do not apply excessive force (such as clamping of flanges with a large gap between them and uneven tightening of bolts) or vibration to valves.

3. Some bolts and/or nuts may be loosened by vibration during transportation. Check all the bolts and nuts before use. Retorque any loosened ones.

4. Valves with soft seats must be used in a fully opened or closed position. If such valves are used in a half-opened position, their soft seats may be deformed, which can cause leakage or malfunction. If the valves are to be used in a half-opened position, please contact HISAKA in advance.

5. If gland leakage has occurred, retorque the gland packing. In this case, overtorquing will increase operational torque, which can cause malfunction. Retorque the packing until leakage stops while checking the torque.

6. Do not disassemble actuators under pressure. In addition, exercise care when handling single-acting actuators. These actuators contain a spring which can jump out, causing danger.

7. If the liquid temperature changes, the liquid left between the ball and valve box (in the pocket part) can cause an abnormal pressure rise due to thermal expansion, resulting in malfunction or the deformation of the seat leading to leakage. If the liquid temperature changes, consult HISAKA in advance.

8. The floating type ball valves can suffer from seat leakage under low pressure if the valves are used in a condition subject to large pressure changes. Consult HISAKA in advance.

9. If valves are to be used for powder transfer, consult HISAKA in advance. Consideration is required on the consolidation of powder, the flaws on sliding surfaces, and the wear of valve boxes and flow passages.

10. If valves are used for oxygen, hydrogen peroxide, or solvents, special treatments and selections are required. For more information, consult HISAKA.

For more information including technical materials, visit our website:
http://www.hisaka.co.jp/english/valve/techDoc/index.html

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Service Center

New Kanto Service Center 815-1 Imazuasayama, Ichihara City, Chiba 299-0106 Japan
TEL: +81-436-98-5231

Certifications Acquired

- **Japan High pressure Gas Safety Act authorization**
- **ISO14001 Certified**
- **ISO9001 Certified**
- **ISO45001 Certified (Konoike plant)**
- **API 6D Certified**

For more information, visit our website.

https://www.hisaka.co.jp/english/

valve_info@hisaka.co.jp

Agent

201906 Newly listed HF5(HT)
Extension of scope of supply for CH type
Extension of scope of supply for HD1 type

VLV-CE000105
20.08 YMZN