

API 6A BALL VALVES

Metallic sealing
ball valves for wellheads

Safe.
Low maintenance.
Gas-tight.



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Hartmann Valves GmbH

www.hartmann-valves.com

API 6A BALL VALVES FOR MAXIMUM SAFETY AND EFFICIENCY

For more than 75 years, Hartmann Valves has stood for the highest quality and safety in ball valves and wellheads. Our products are designed for long service life and have proven their reliability worldwide under the toughest operating conditions. Drawing on this experience, we have developed ball valves that meet the increasing demands of the oil and gas industry, geothermal energy, and hydrogen applications.

MORE SAFETY – LESS EFFORT

Our API 6A ball valves feature an all-metal sealing system, ensuring reliable and permanent gas-tight shut-off. For operators, this means maximum operational safety – even under the most challenging conditions. At the same time, the low-maintenance design minimizes service requirements, reducing operating costs and ensuring uninterrupted and sustainable plant availability.

LONG-TERM COST EFFICIENCY

Hartmann ball valves stand out with their robust design and carefully engineered construction, making day-to-day operations significantly easier. Since no lubricants or sealants enter the medium, downstream equipment remains protected. Operators benefit twice: from a durable solution and from clean, reliable processes.

EXPERTISE FROM A SINGLE SOURCE – MADE IN GERMANY

From development and manufacturing to testing, installation, and service – everything is carried out at our facilities in Celle and Burgdorf-Ehlershausen. As a third-generation family-owned company, we stand for quality “engineered and made in Germany.” With around 230 employees, we work in close partnership with our customers throughout every project phase, ensuring that each solution is perfectly tailored to specific requirements.



TECHNICAL CHARACTERISTICS

DESIGN FEATURES

- 2-piece housing
- Type AST with trunnion mounted ball $\geq 2 \frac{1}{16}$ "
- Type ASF with floating ball for $10,000\text{psi} \leq 2 \frac{1}{16}$ "
- Metallic sealing system with tungsten carbide hard-faced coating
- Triple shaft seals (type AST)
- Fugitive emission acc. ISO 15848-1 up to $+200^{\circ}\text{C}$ (type AST)
- Anti-blowout shaft /anti-static design
- Conforms DIN/ISO 5211 standard gear actuator
- Position indicator for open position on all ball valves $\geq 4 \frac{1}{16}$ "
- Drain port NPT or ISO incl. bleeder plug
- DBB and DIB-2 design* (type AST)



*Double Isolation and Bleed (DIB-2) design: has upstream seat equipped with a standard seat ring to ensure pressure relief of valve cavity in the direction of the well. The downstream seat ring is equipped with split seat ring to provide a "Double Piston effect" and seals in both directions. → **Double barrier against well pressure.**

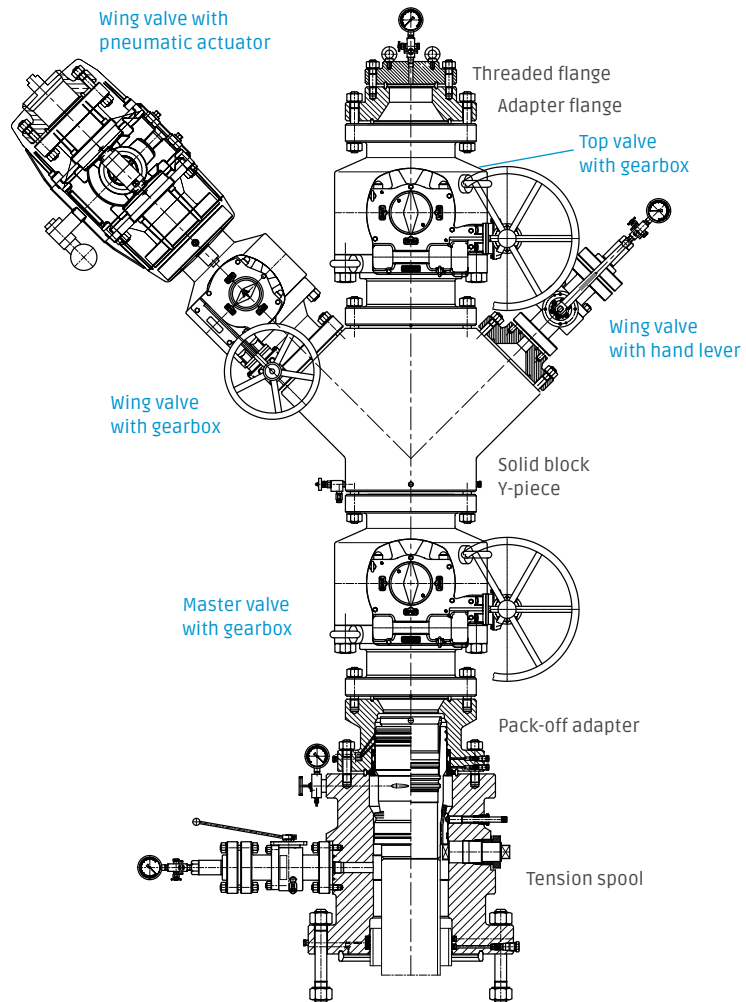
CLASSIFICATION API 6A

- Material class EE-1.5
- Quality class PSL3 or PSL3G (PSLG3 available with additional charge for gas pressure testing)
- Performance level PR2
- Temperature class L/X
L/X also includes N, P, S, T, U and V
(X and Y with pressure reduction according to API 6A Annex G – Section G.3)
- All wetted parts acc. API 6A ductility
- All wetted parts with hardness values acc. ISO 15156 (NACE)

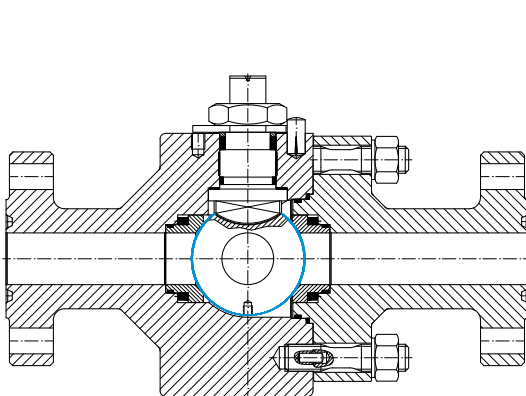
OPTIONAL/ON REQUEST

- Other material classes
- Temperature class Y on request
- Double certified according API6A & PED 2014/68/EU with CE Marking

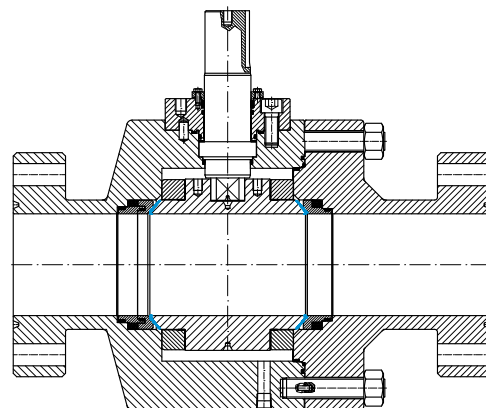
EXAMPLES



API 6A BALL VALVES ON A WELLHEAD FOR GAS STORAGE OPERATION



TYPE ASF (FLOATING BALL)

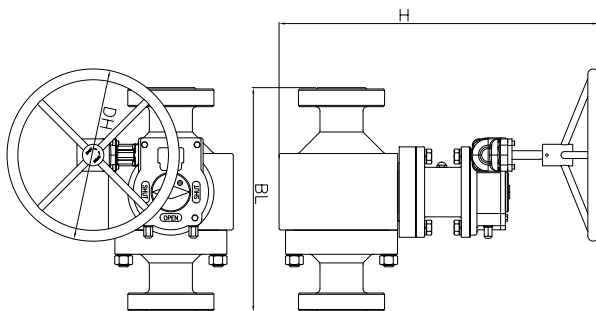


TYPE AST (TRUNNION MOUNTED BALL)

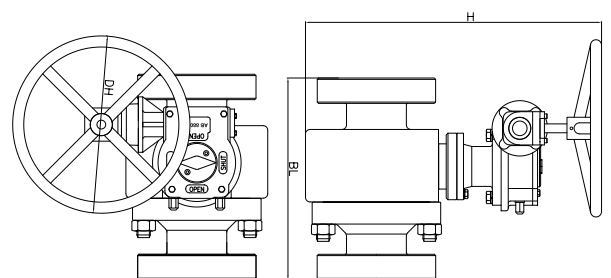
GEARS

STANDARD

WORM GEAR WITH BEVEL GEAR



WORM GEAR WITH PLANETARY GEAR AND BEVEL GEAR

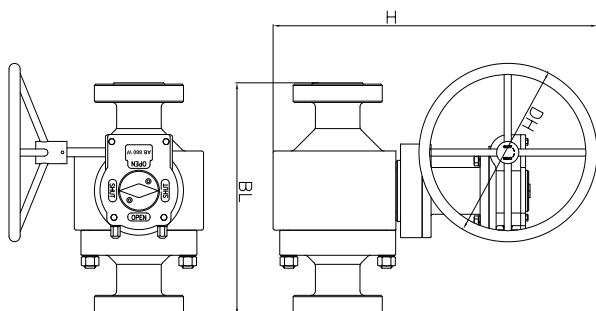


FOR HIGHER TORQUES

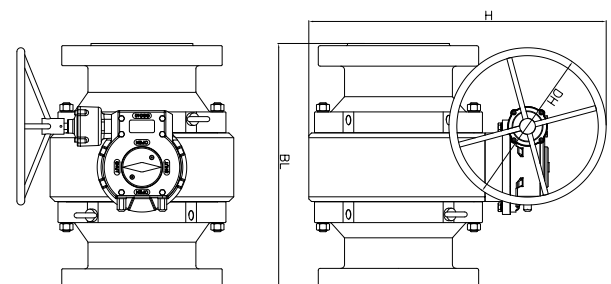
OPTIONAL

The following gear types are available with an additional charge and extended delivery time.

WORM GEAR



WORM GEAR WITH PLANETARY GEAR



FOR HIGHER TORQUES

STANDARD SUPPLY RANGE

TYPE	Pressure rating [psi]	2K	3K	5K	10K	Drift-Ø [mm]	Hartmann ball valve overall length [mm]	Comparison with standard overall length as per API 6A [mm]		Ring nut	Adaption		PR2 Qualified	Drainage [inch]
	Nominal bore [inch]							Ball valve	Gate Valve					
ASF	1 - 13/16				●	46	464	464	464	BX151	- F16	SW32 Ø60		
	2 - 1/16	●				52,5	295	295	295	R23	-	?		
AST			●	●			371	371	371	R24	-	SW27		
	2 - 1/16	●				52,5	295	295	295	R23	- F12	SW19 Ø25	x	
			●	●			371	371	371	R24	- F12	SW27 Ø40	x	
			●	●			292	292	292	Muffe	- F14	SW27 Ø40	x	
					●		521	521	521	BX125	F16	Ø40	x	
	3 - 1/8	●				79,5	359	359	359	R31	- F12	SW27 Ø30	x	
			●				384	384	435	R31	- F12	SW27 Ø30	x	
				●			473	473	473	R35	- F14	SW27 Ø40	x	
	3 - 1/16				●	78	619	619	619	BX154	F25	Ø60	x	½ NPT
	4 - 1/16	●				103,2	435	435	435	R37	F16	Ø40	x	
			●				460	460	511	R37	F16	Ø40	x	
				●			683	683	683	R39	F16	Ø60	x	
					●		670	670	670	BX155	F25	Ø70	x	
	5 - 1/8	●				130,2	562	-	562	R41	F16	Ø50	x	
			●				613	-	613	R41	F16	Ø50	x	
				●			727	-	727	R44	F25	Ø60	x	
	7 - 1/16 x 6-3/8 (reduced)	●	●			162,1	613	-	-	R45	F25	Ø70	x	
	7 - 1/16	●				179,4	664	-	664	R45	F25	Ø60	x	
			●				714	-	714	R45	F25	Ø60	x	
				●			840	-	840	R46	F25	Ø80	x	
	9	●	●			228,6	787	-	-	R49	F30	Ø100	x	1 NPT
				●			1041	-	1041	R50	F30	Ø100	x	
	11 x 10 (reduced)	●	●			254	841	-	-	R53	F30	Ø100		
				●			1092	-	-	R54	F35	Ø100		
	11		●			279	1000	-	-	R53	F30	Ø90		
				●			1200	-	-	R54	F35	Ø100		
	13 5/8		●			346	1100	-	-	R57	F35	Ø120		

LEAD TIME: 12 weeks. Shorter delivery upon request

APPLICATION EXAMPLES



GAS STORAGE

Natural gas storage wellhead incl. API 6A ball valves, gas-tight at high pressures and large diameters.



DEEP GEOTHERMAL ENERGY

Deep geothermal energy wellhead incl. API 6A ball valves, resistant to temperature, corrosion and scaling.



OIL STORAGE

Wellhead with integrated API 6A ball valves to minimize flange connections and large 13 5/8" full bore top valve.



GAS STORAGE

Wellhead for gas storage in solid block design with integrated API 6A ball valves, two master valves in one block; wing valve, top valve and cross block in one block.

BALL VALVE INSTEAD OF GATE VALVE

BALL VALVE

GATE VALVE



HIGHER OPERATIONAL SAFETY

- Gas-tight for large dimensions at low and high pressure
- No tendency to lock or jam
- Multiple sealing barriers



MINIMAL MAINTENANCE

- Light function check maintenance only
- No grease injection nor shaft seal replacement



HIGHER PLANT AVAILABILITY

- No contamination from grease
- No downtime due to maintenance or failure



REDUCED COSTS

- Higher plant productivity
- Lower maintenance costs for planning, service and spare parts



ENVIRONMENTALLY FRIENDLY

- Sealing fulfils threshold values for fugitive emissions acc. ISO 15848
- No grease or sealant necessary



TECHNICAL EXPLANATORY VIDEO:

Why ball valves instead of gate valves at the wellhead?

www.6Aballvalves.com

WHAT DISTINGUISHES US?

HARTMANN VALVES & WELLHEADS

We start where others stop: Hartmann develops custom-build performance components of the highest quality.

Hartmann Valves is a leading manufacturer of ball valves, pigging valves and wellheads. Our worldwide experience lies in the fields of crude oil, natural gas, petrochemicals, power stations, geothermal and emerging renewables such as hydrogen. Our customers value and endorse our pure metallic sealing system. Design, assembly and tests are carried out solely in our facilities in Celle and Burgdorf-Ehlershausen, Germany.

Founded in 1946, this family-owned and managed company is in its third generation and continues to evolve as an international operating organization now with 230 employees.

INSIGHTS INTO OUR PRODUCTION

www.hartmann-valves.com/en/film



INDIVIDUAL DESIGN

Our project sales and engineering teams are eager to engage and collaborate with you in developing high performance solutions.



SOLUTIONS FOR EXTREME CONDITIONS

Hartmann ball valves and wellheads are designed for pressure ratings up to 690 bar, temperatures from -200 to +550°C (-328 to 1022 °F) as well as high cycle applications.



QUALITY THAT PAYS

A long lasting product with low maintenance will fundamentally reduce the lifecycle cost of your plant. German product excellence through innovative engineering and excellence.



FROM A SINGLE SOURCE EXPERTISE & ADVICE

You benefit from more than 75 years' experience across all project phases. We offer support from early project development through engineering, build, installation and maintenance.

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