

**AG66**  
2"-24"(DN50-DN600)



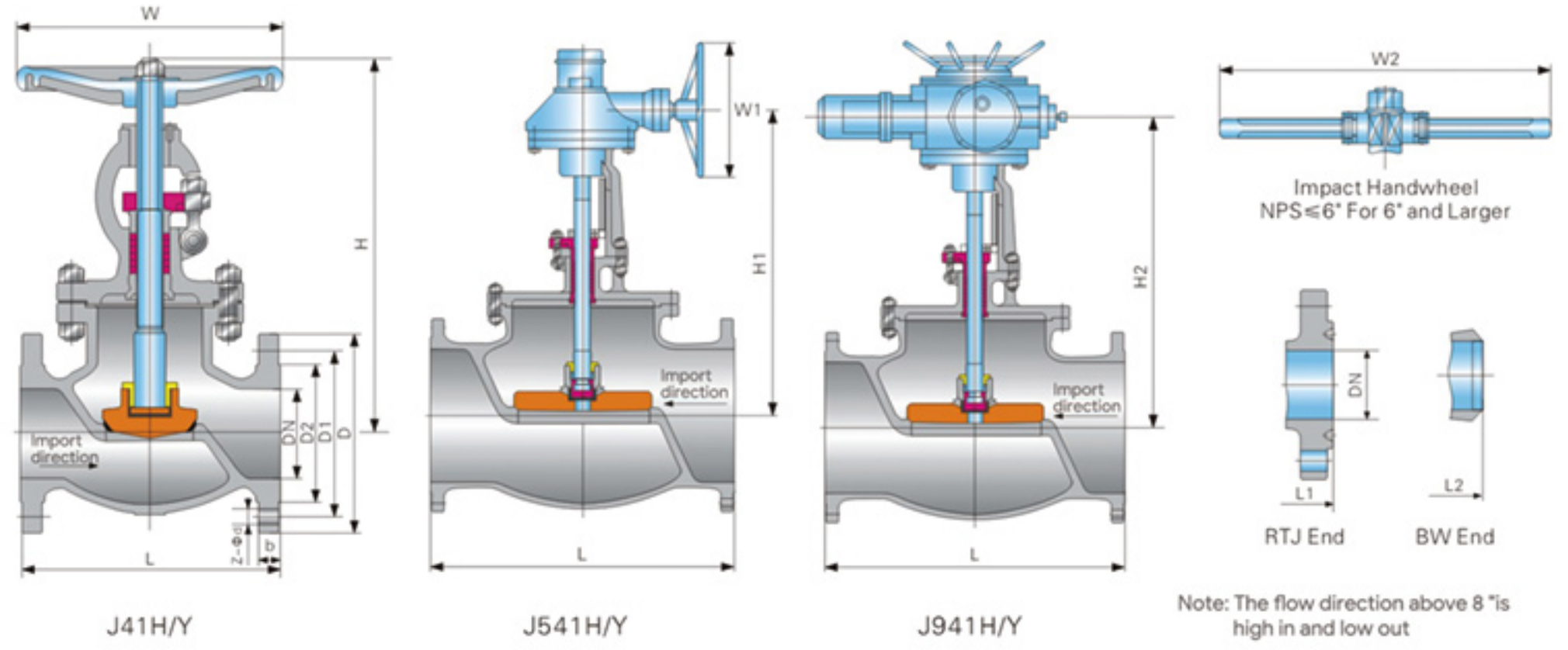
# **API Globe Valve**

*Long Service Life & Replaceable Seat*



# API Globe Valve

- ① The design and manufacture of the valve is according to BS1873 and JIS 2071-2081, and flange as per ASME B16.5.
- ② The streamline body figure and full port type by-pass leads to small liquid resistance.
- ③ The subulate seal of disc and seat results to small impact force in opening and closing, which successfully prolongs the life of the valve.
- ④ This type valve is usually operated by manual, electric actuator or bevel gear.



## Adoption Standard

Design Standards	BS1873, JIS B2071-2081
Face to Face	ASME B16.10, JIS B2002
Tubing Flange	ASME B16.5, JIS B2212-2214
Butt-Weld Ends Size	ASME B16.25
Check and Test	API 598, JIS B2003
Driving Style	worm gear; electric actuator; bevel gear.

## Specifications

Valve Size	1"~24" , DN25-DN600
Pressure Class	150LB~900LB, PN10-PN150
Materials	WCB, WC6, WC9, WCC,CF8, CF3, CF3M, CF8M, 4A, 5A
Design and Manufacturing Standards	BS 1873, EN558-1
Flange Dimension Standards	ASME B 16.5, ASME B16.47, DIN2543, DIN2544;
Pressure Test Standards	API598, DIN3230
Fire Safety Test Standards	API607
Quality/Product Certifications	ISO9001,ISO14001,ISO18001
Fugitive Emissions	ISO 15848-1, API 622
NACE	NACE MR 0103 NACE MR 0175
Valve operator options	Handwhel, Worm Gear, Electric actuator, Pneumatic actuator, Hydraulic Actuator.
Shutoff Class	API 598 (Zero Leakage).
Bore	Full Bore
Process Connection Types	RF, RTJ, BW

## Specification For Testing

Pressure Class and Nominal Pressure	Shell Test (Mpa)	Seal Test(Mpa)	
		Seal Test(Mpa)	Low Pressure Gas Seal
150Lb, PN20	3.0	2.2	0.6
300Lb, PN50	7.5	5.5	
600Lb, PN110	16.5	12.1	
JIS 10K	3.0	2.2	
JIS 20K	7.5	5.5	

## Material for Main Parts

Part Name		Material					
Body Bonnet Wedge Disc		ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M	ASTM A351 CF3	ASTM A351 CF3M	
Stem		1Cr13	0Cr18Ni9	0Cr17Ni12Mo2	00Cr19Ni10	00Cr17Ni14Mo2	
		F6a	304	316	304L	316L	
Top seal Seat		1Cr13	Reality				
Disc	Sealing Face	13Cr	13Cr	STL	Reality	Reality	STL
		13Cr	STL	STL	Reality	STL	STL
Packing		Flexible graphite ring	Polytetrafluoroethylene or polytetrafluoroethylene woven filler > 200 °C flexible graphite ring + flexible graphite woven filler		PTFE or PTFE intertext ture packing soft graphite ring+soft graphite intertexture packing		
Gasket		Soft graphite composite gasket(cove: carbon steel or stainless steel) slainles steel strip/soft graphite spiral wound gasket					
Middle Flange Nut		35CrMo ASTM A193 B7	0Cr18Ni9 / ASTM A 193 B8				
Middle Flange Nut		45 ASTM A194 2H	0Cr18Ni9 / ASTM A194 8				
Stem Nut		ZCuAL 10Fe3 / ASTM A439 D2					
Hand Wheel		Forged castiron,spherulitic graphic iron, cast steel					
Suitable status	Suitable medium	water; oil; gas; etc	Nitric acid etc	A ceturn etc	Strong oxidation medium	Urea and other corrosive media	
	Suitable temperature	-29~425°C	-40~200°C Save and except the temperature, please eplain in ordering				



### Main External and Connection Dimension

unit:mm

Type	NPS	DN	Class 150Lb								WT (kg)
	in	mm	L	D	D1	D2	b	Z-d	H	W	
J41H/Y/W-150Lb (Body: WCB) (Body:CF8) (Body:CF8) (Body:CF3) (Body: CF3M)	2"	50	203	150	120.5	92	16.3	4-Φ19	356	180	18
	2 ½"	65	216	180	139.5	105	17.9	4-Φ19	381	240	30
	3"	80	241	190	152.4	127	19.5	4-Φ19	411	280	41
	4"	100	292	230	190.5	157	24.3	8-Φ19	454	280	64
	5"	125	356	255	216	186	24.3	8-Φ22	541	320	86
	6"	150	406	280	241.5	216	25.9	8-Φ22	565	360	113
	8"	200	495	345	298.5	270	29	8-Φ22	768	450	115
	10"	250	622	405	362	324	30.6	12-Φ25	800	500	295
	12"	300	698	485	432	381	32.2	12-Φ25	862	600	450
	14"	350	787	535	476.5	413	35.4	12-Φ29	950	650	550
	16"	400	914	595	540	470	37	16-Φ29	994	650	724
	18"	450	978	635	578	533	40.1	16-Φ32	1140	610	1400
	20"	500	978	700	635	584	43.3	20-Φ32	1262	610	2600
24"	600	1295	815	749.5	692	48.1	20-Φ35	1524	810	3700	

### Main External and Connection Dimension

unit:mm

Type	NPS	DN	Class 300Lb								WT (kg)
	in	mm	L	D	D1	D2	b	Z-d	H	W	
J41H/Y/W-300Lb (Body: WCB) (Body:CF8) (Body:CF8M) (Body:CF3) (Body: CF3M)	2"	50	267	165	127	92	22.7	8-Φ19	406	200	25
	2 ½"	65	292	190	149	105	25.9	8-Φ22	457	240	30
	3"	80	318	210	168.5	127	29.0	8-Φ22	470	280	35
	4"	100	356	255	200	157	32.2	8-Φ22	590	320	56
	5"	125	400	280	235	186	35.4	8-Φ22	614	400	96
	6"	150	444	320	270	216	37	12-Φ22	711	500	120
	8"	200	559	380	330	270	41.7	12-Φ25	750	500	212
	10"	250	622	445	387.5	324	48.1	16-Φ29	1012	500	460
	12"	300	711	520	451	381	51.3	16-Φ32	1231	600	615
	14"	350	838	585	514.5	413	54.4	20-Φ32	1130	610	1125
	16"	400	864	650	571.5	470	57.6	20-Φ35	1310	610	1650
	18"	450	978	710	628.5	533	60.8	24-Φ35	1460	610	2700
	20"	500	1016	775	686	584	64	24-Φ35	1632	610	3650

### Main External and Connection Dimension

unit:mm

Type	NPS	DN	Class 600Lb								WT (kg)
	in	mm	L	D	D1	D2	b	Z-d	H	W	
J41H/Y/W-600Lb (Body: WCB) (Body:CF8) (Body:CF8M) (Body:CF3) (Body: CF3M)	2"	50	292	165	127	92	25.4	8-Φ19	444	240	35
	2 ½"	65	330	190	149	105	28.6	8-Φ22	483	240	50
	3"	80	356	210	168	127	31.8	8-Φ22	533	280	60
	4"	100	432	275	216	157	38.1	8-Φ25	622	360	110
	5"	125	508	330	266.5	186	44.5	8-Φ29	750	360	200
	6"	150	559	355	292	216	47.7	12-Φ29	800	500	230
	8"	200	600	420	349	270	55.6	12-Φ32	927	550	410
	10"	250	787	510	432	324	63.5	16-Φ35	1257	600	770
	12"	300	838	560	489	381	66.7	20-Φ35	1468	680	1140
	14"	350	889	605	527	413	69.9	20-Φ38	1521	610	1330
	16"	400	991	685	603	470	76.2	20-Φ41	1610	762	1750
	18"	450	1092	745	654	533	82.6	20-Φ45	1801	810	3300
	20"	500	1194	815	724	584	88.9	24-Φ45	1934	810	4300



# ABOUT

AEN.TECH is an integrated machinery manufacturing group company. It has 18 years of development history since its first plant was put into operation. Currently, it has three factories in China and mainly produces various types of valves and machined products. Over the years, the products have been widely used in metallurgy, chemical industry, sewage treatment, heating and construction, gas, and other fields, and AEN committed to providing customers with a full range of industrial valve solutions.



World Headquarters, Anshan, China

The factory has advanced processing equipment and the products are produced in accordance with API, ANSI, JIS, ISO, BS, JB, and GB standards. The production technology is advanced and the testing methods are perfect.

Over the years, the company has served the world's industrial sectors with its advantages of good reputation, stable product quality, modern enterprise management, automated processing equipment and advanced technology.

The main products: valves, pipe fittings.

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