

A5003-... Flange Ball Valve Series



**Flange Ball Valve
A5003-...Series
Brass/Bronze/Cast steel/Stainless Steel
Flanged Connection
PN16, PN25**

Performance & Features

The closing and opening element of a ball valve is a perforated sphere that rotates around an axis perpendicular to the flow passage, thereby opening or closing the passage. Ball valves are mainly used to shut off or regulate the flow of media in pipelines and equipment, and can also be applied for fluid regulation and control, featuring a wide range of applications.

- ◆ Nominal diameter: DN15...DN600 (Brass/Bronze: DN25-DN300) (For detailed information, please consult the ZIGTOO representatives);
- ◆ Full bore design and low fluid resistance, with resistance coefficient approximately equal to that of a pipe section of the same length;
- ◆ Simple structure, small size and light weight;
- ◆ Soft seal structure, excellent sealing performance, high pressure resistance, zero leakage;
- ◆ Easy operation and quick opening/closing, with only a 90° rotation required from fully open position to fully closed position;
- ◆ Relatively simple structure, no directional requirements for installation;
- ◆ Ball and sealing surfaces isolated from the medium at fully open or fully closed position, preventing erosion of the sealing surfaces during flow;

Applications:

Ball valves are typically installed on pipelines conveying media in projects such as buildings, apartments, office buildings, complexes, data centers and factories, including water supply and drainage, cold and hot water, water treatment, as well as primary and secondary hot water supply pipelines. They can be used for on/off service, and also for functions such as blowdown and pressure relief. Compatible media include water, ethylene glycol solution and other fluids.

Model Designation:

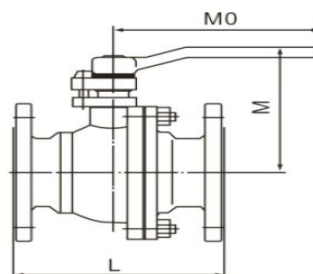
For example: A5003(H)-100-16P

1. "A50": Ball Valve Series;
2. "0": 2-way Ball Valve; "3": 3-way Ball Valve;
3. "3": Flanged Connection;
4. "H": Handwheel Operated (omitted by default), "G": Gear-driven, "E": Electric Actuated, "P": Pneumatic Actuated;
5. "-100": Nominal Diameter DN100;
6. "-": separator;
7. "-25/16": Nominal Pressure, PN25/PN16;
8. "T": Brass, "B": Bronze, "P": Stainless steel, "C": Cast steel; "Q": Ductile Iron;

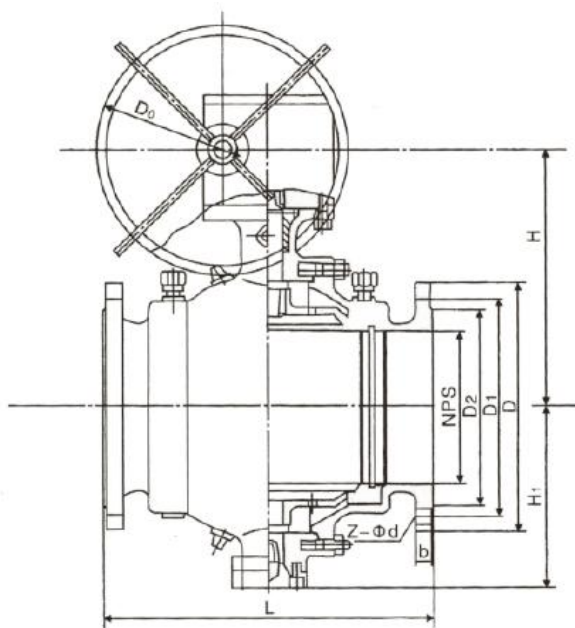
Technical Specification:

PN (Nominal Pressure)	PN16, PN25
Connection Standard	Flange EN1092-2, GB/T17241.6
Working Temperature	-20°C~150°C
Body	Brass, HPb59-1; Bronze QAl7; Cast steel (WBC); Stainless steel 304(316)
Seal	PTFE
Core	Stainless steel
Drive	Handwheel (below DN150): Carbon steel galvanized with soft rubber sleeve Gear (above DN50): Ductile iron

Dimension Chart:



Model	DN	L	M	M0
A5003-15-16C/P	DN15	108	59	130
A5003-20-16C/P	DN20	117	63	130
A5003-25-16C/P	DN25	127	75	160
A5003-32-16C/P	DN32	140	95	230
A5003-40-16C/P	DN40	165	95	230
A5003-50-16C/P	DN50	178	107	230
A5003-65-16C/P	DN65	191	142	400
A5003-80-16C/P	DN80	203	152	400
A5003-100-16C/P	DN100	229	178	650
A5003-125-16C/P	DN125	356	252	1050
A5003-150-16C/P	DN150	394	272	1050



Model	DN	L	D	D1	D2	b	Z-φd	H	H1	Do
A5003G-50-16C/P	DN50	178	160	125	100	16	4-18	177	120	-
A5003G-65-16C/P	DN65	190	180	145	120	18	4-18	190	140	-
A5003G-80-16C/P	DN80	203	195	160	135	20	8-18	210	150	-
A5003G-100-16C/P	DN100	229	215	180	155	20	8-18	235	172	-
A5003G-125-16C/P	DN125	356	245	210	185	22	8-18	350	215	-
A5003G-150-16C/P	DN150	394	280	240	210	24	8-23	530	250	-
A5003G-200-16C/P	DN200	457	335	295	265	26	12-23	620	290	600
A5003G-250-16C/P	DN250	533	405	355	320	30	12-25	650	320	600
A5003G-300-16C/P	DN300	610	460	410	375	30	12-25	780	360	600
A5003G-350-16C/P	DN350	686	520	470	435	34	16-25	790	395	800
A5003G-400-16C/P	DN400	762	580	525	485	36	16-30	920	450	800
A5003G-450-16C/P	DN450	864	640	585	545	40	20-30	970	490	800
A5003G-500-16C/P	DN500	914	705	650	608	44	20-34	1100	530	800
A5003G-600-16C/P	DN600	1067	840	770	718	48	20-φ41	1150	590	800