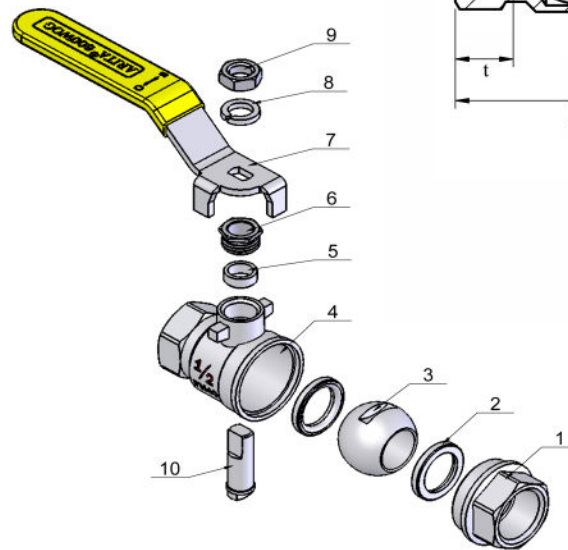
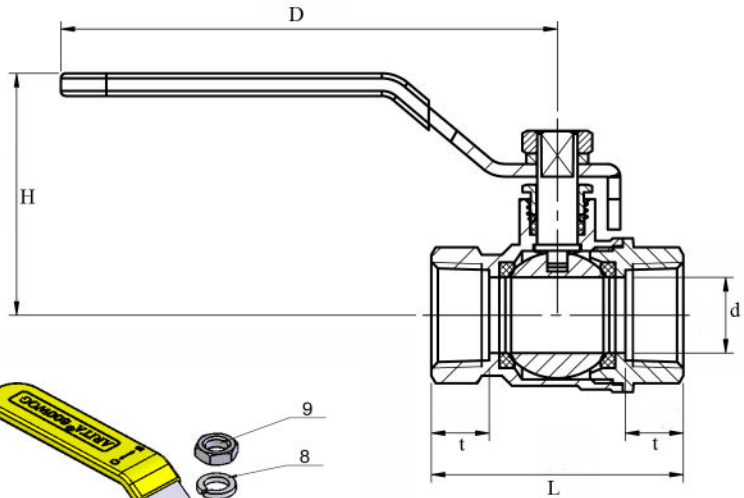


# PN 40 / Class 600 Full Bore Ball Valve

**Model:** BRB-S-600(FB)



## Materials

NO.	COMPONENT	MATERIAL
1	CAP	BRASS
2	SEAT	PTFE
3	BALL	CHROMED BRASS
4	BODY	BRASS
5	PACKING GLAND	PTFE
6	GLAND	BRASS
7	HANDLE	STEEL
8	SPRING WASHER	STEEL
9	HEX-NUT	STEEL
10	STEM	BRASS

**Features :** This kind of ball valve can be used in equipment or pipe system to open or shut the passageway for controlling the flow of medium.

**Application :** Water, Oil & Gas

**Working Temperature :** 120 °C

**Thread :** BSPT (BS 21) or NPT (ANSI B 1.20.1)

## Dimensions

SIZE	INCH	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	MM	8	10	15	20	25	32	40	50
d (mm)		10	10	15	20	25	32	40	50
H(mm)		40	41	48	52.5	63.2	74.5	83	92.5
D(mm)		89	89	98.5	98.5	125	140	140	165
L(mm)		40	40	50	54.5	66	75	91	103
t(mm)		9.5	9.5	11.5	12	14.5	15.5	17.5	18
Wt. (g)		124	126	182	308	452	602	936	1524

## Maximum Working Pressure

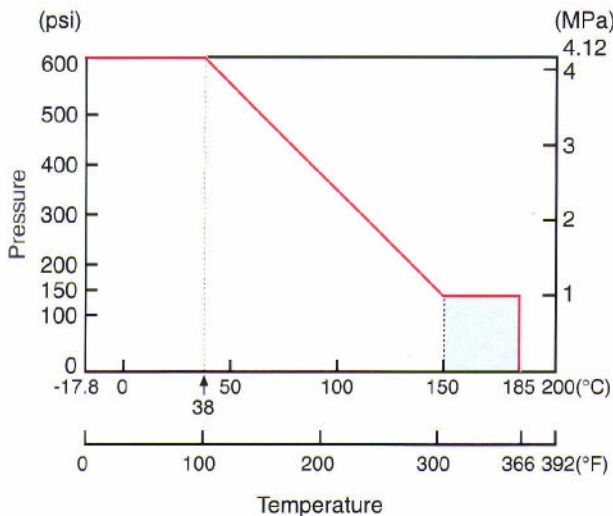
Unit	Working Pressure Non-Shock		Test Pressure	
	Saturated Steam	Cold Water, Oil, Gas	Shell (Hydrostatic)	Seat (Air)
psi	150	600	900	80
MPa	0.98	4.12	6.18	0.59
Bar	9.8	41.2	61.8	5.9
kgf/cm <sup>2</sup>	10	42	63	6

## Effective Length of Thread

mm (inch)

SIZE	inch	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	mm	8	10	15	20	25	32	40	50
BRB-AI		7.5(0.295)	8(0.315)	10(0.394)	11(0.433)	12(0.472)	13(0.512)	14(0.552)	16.5(0.650)

## P-T Rating



### \* Advisory Note :

- Please be advise that applications in the shaded zone will reduce the service life of the valve



## CAUTION

- Don't use valves for super-heated steam service. Refer to the maximum working pressure shown in the pressure-temperature rating.
- Don't use valves with intermediate opening positions. Pressurizing partly open valves will cause seat deformation, and internal fluid leakage.
- Don't apply any external force counterclockwise to the valve cap. It may affect the assembly of valve body to cap, and cause external fluid leakage.
- Don't apply an excessive force when threading pipes into valve bores. It will cause seat deformation, and operational difficulty. Adequate threading torques are given below:

Valve Size	1/4"~1/2"	3/4	1"	1 1/4"	1 1/2	2
Threading Torque (N.m)	20~30	40~50	50~60	60~70	70~80	80~90