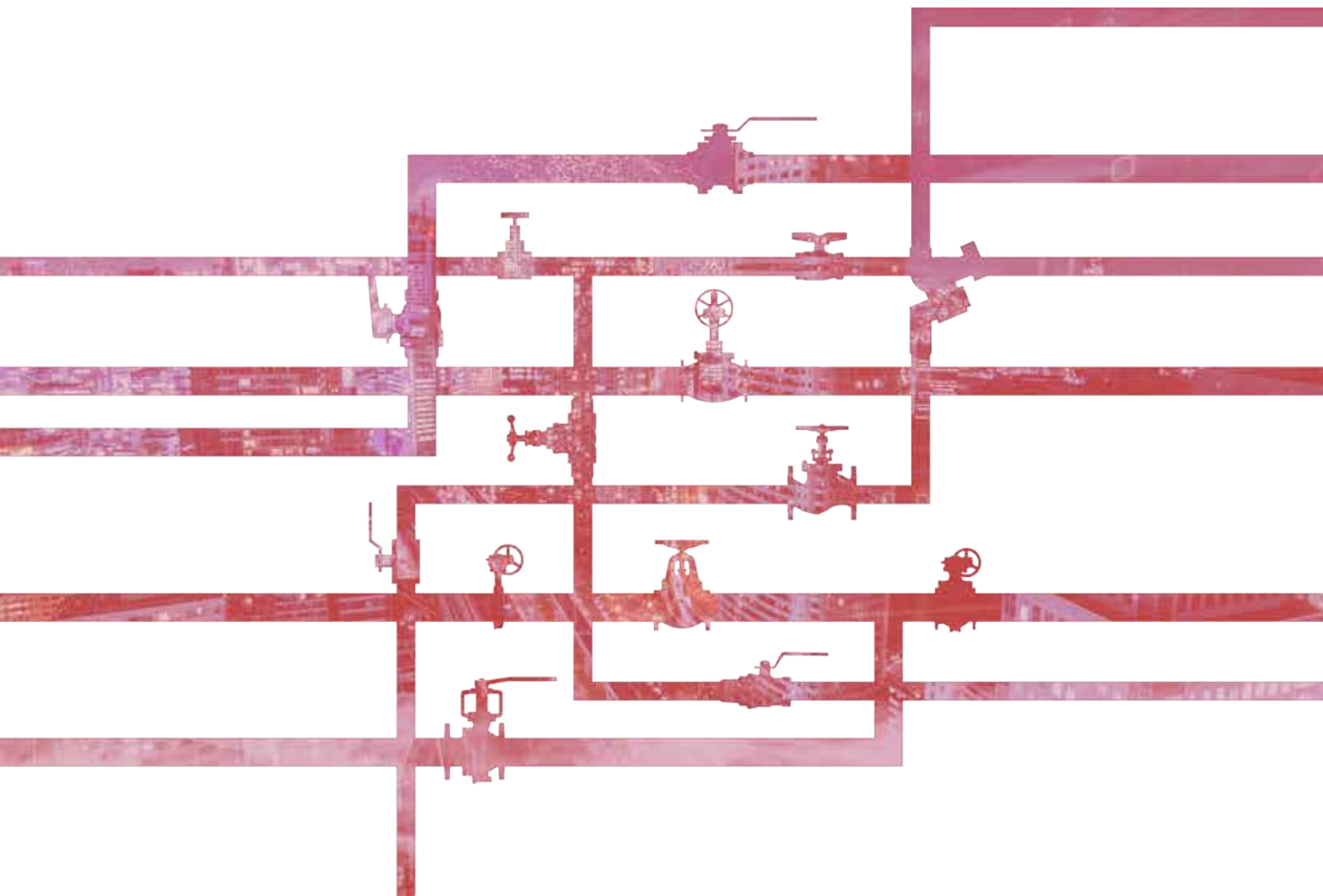
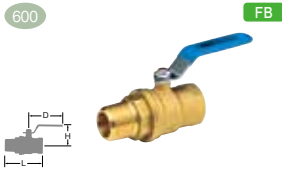
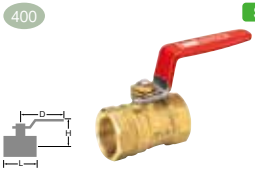
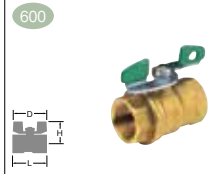
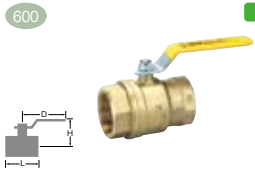


**KITZ**

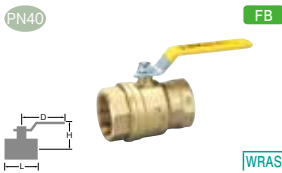
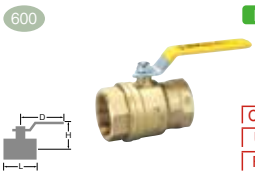
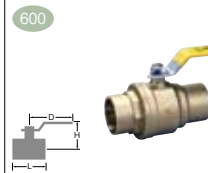
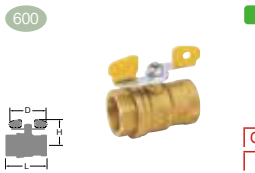
GENERAL CATALOG

# Bronze & Brass



Type	Ball					Ball			Ball			Ball					
Brass Z Ball Series																	
	ZO					ZS			ZET			SZA					
Fig	BS21 (JIS B0203)					*BS21 (JIS B0203)			BS21 (JIS B0203)			BS21 (JIS B0203)					
End Connection	BS21 (JIS B0203)					*BS21 (JIS B0203)			BS21 (JIS B0203)			BS21 (JIS B0203)					
inch	mm	L	H	D		L	H	D		L	H	D		L	H	D	
1/4	8	59	37	70		42	42	72		42	34	55		42	37	70	
3/8	10	60	37	70		43	42	72		42	34	55		42	37	70	
1/2	15	74	40	80		51	44	87		53	40	70		53	40	80	
3/4	20	80	44	80		59	48	87		60	44	70		60	44	80	
1	25	94	50	110		71	61	116		72	54	100		72	50	110	
1 1/4	32					78	65	116		84	59	100		84	55	110	
1 1/2	40					88	71	117		92	75	130		92	65	150	
2	50					99	76	117		110	82	130		110	72	150	
2 1/2	65													138	101	200	
3	80													167	113	300	
4	100													193	131	300	
Body & Cap	Forged Brass					Forged Brass			Forged Brass			Forged Brass/Cast Bronze					
Stem	Brass + Ni Plated					Brass + Cr Plated			Brass + Ni Plated			Brass + Ni Plated					
Ball	Forged Brass + Ni Plated					Forged Brass+Cr Plated/304SS			Forged Brass+Cr Plated/304SS			Forged Brass+N-Cri Plated/304SS					
Ball Seat	PTFE					PTFE			PTFE			PTFE					
Gland Packing/O ring	FKM					G/F PTFE			FKM			FKM					
Handle	430SS					430SS			CS + Zn Plated			CS + Zn Plated/DI					
Bore	Full Bore					Standard Bore			Full Bore			Full Bore					
Service Conditions	W.O.G. Non-shock 4.14MPa(600psi), W.O.G 150°C 1.03MPa(150psi) (Do not use for flammable gas or toxic gas.)					W.O.G. Non-shock 2.76MPa(400psi), W.O.G. 150°C 0.69MPa(100psi), Saturated Steam Pressure 0.98MPa(142psi) (Do not use for flammable gas or toxic gas.)			W.O.G. Non-shock 4.14MPa(600psi), W.O.G 150°C 1.03MPa(150psi) (Do not use for flammable gas or toxic gas.)			W.O.G. Non-shock 4.14MPa(600psi)/4 <sup>B</sup> : 2.76MPa(400psi) , W.O.G 150°C 1.03MPa(150psi)/4 <sup>B</sup> : 0.69MPa(100psi) (Do not use for flammable gas or toxic gas.)					
Remarks	BS21: Male & Female Full Bore, Double O-ring					Standard Bore			Full Bore, Double O-ring Butterfly (Wing) Handle			Full Bore, Double O-ring					

\*The length of useful threads & the positions of gauge planes are built on KITZ standard.

Type	Ball					Ball			Ball			Ball					
Brass Z Ball Series																	
	PN40SZA					AKSZA			CSZA			AKSZAW					
Fig	BS21 (JIS B0203)					ASME B1.20.1			**ASME B16.18			ASME B1.20.1					
End Connection	BS21 (JIS B0203)					ASME B1.20.1			**ASME B16.18			ASME B1.20.1					
inch	mm	L	H	D		L	H	D		L	H	D		L	H	D	
1/4	8					42	37	70						42	34	55	
3/8	10					42	37	70		46	37	70		42	34	55	
1/2	15	53	40	80		53	40	80		54	40	80		53	40	70	
3/4	20	60	43	80		60	44	80		73	44	80		60	44	70	
1	25	72	50	110		72	50	110		88	50	110		72	53	100	
1 1/4	32	84	55	110		84	55	110		100	55	110		84	58	100	
1 1/2	40	92	65	150		92	65	150		115	65	150		92	74	130	
2	50	110	72	150		110	72	150		140	72	150		110	81	130	
2 1/2	65					138	101	200		164	101	200					
3	80					167	113	300		187	113	300					
4	100					193	131	300									
Body & Cap	Forged Brass					Forged Brass/Cast Bronze			Forged Brass			Forged Brass					
Stem	Brass + Ni Plated					Brass + Ni Plated			Brass + Ni Plated			Brass + Ni Plated					
Ball	Forged Brass + Cr Plated					Forged Brass+Sn-Ni Plated/304SS			Forged Brass+Sn-Ni Plated/304SS			Forged Brass+Sn-Ni Plated/304SS					
Ball Seat	PTFE					PTFE			PTFE			PTFE					
Gland Packing/O ring	FKM					FKM			FKM			FKM					
Handle	CS + Zn Plated					CS + Zn Plated/DI			CS + Zn Plated/DI			CS + Zn Plated/DI					
Bore	Full Bore					Full Bore			Full Bore			Full Bore					
Standard/Approval	WRAS:(WR)PN40SZA					CSA, UL, FM			UL, FM			CSA, UL					
Service Conditions	40 bar for W.O.G. Non-shock, 10 bar at 150°C (Do not use for flammable gas or toxic gas.)					W.O.G. Non-shock 4.14MPa(600psi)/4 <sup>B</sup> : 2.76MPa(400psi) , W.O.G 150°C 1.03MPa(150psi)/4 <sup>B</sup> : 0.69MPa(100psi) (Do not use for flammable gas or toxic gas.)			W.O.G. Non-shock 4.14MPa(600psi)/4 <sup>B</sup> : 2.76MPa(400psi) , W.O.G 150°C 1.03MPa(150psi)/4 <sup>B</sup> : 0.69MPa(100psi) (Do not use for flammable gas or toxic gas.)			W.O.G. Non-shock 4.14MPa(600psi)/4 <sup>B</sup> : 2.76MPa(400psi) , W.O.G 150°C 1.03MPa(150psi)/4 <sup>B</sup> : 0.69MPa(100psi) (Do not use for flammable gas or toxic gas.)					
Reference Page									P-T Rating : Page BR33								
Remarks	Full Bore, Double O-ring WRAS: Option					Full Bore, Double O-ring			Full Bore, Double O-ring			Full Bore, Double O-ring Butterfly (Wing) Handle					

\*\*Solder jointed end valves should not be used in service where the temperature of line fluid is higher than the softening point of the solder.