

## Economy Brass Ball Valves - Gas/WRAS Approved

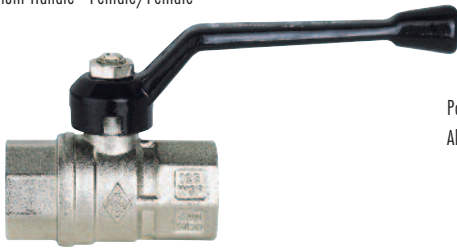
Connections: 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2

Our economy range of Brass Ball Valves offering a cost saving solution suitable for many applications.

- Full bore
- Full thread
- Gas approved to BS EN 331 1998
- WRAS water approved

Part Number: **1600**

Aluminium Handle - Female/Female



Part Number: **1620** (1/4 - 1 only)

Aluminium Butterfly Handle - Female/Female



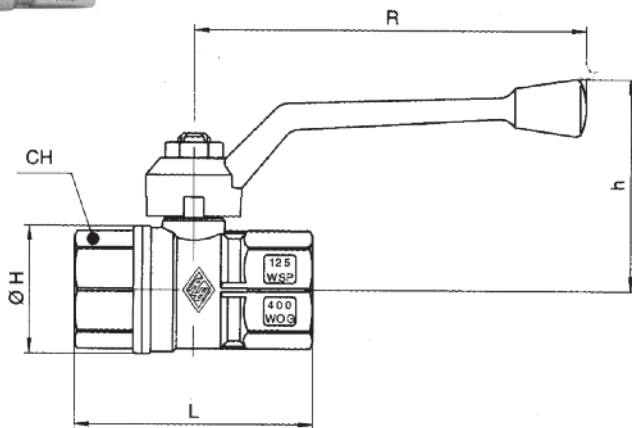
Part Number: **1610**

Steel with Black Plastic Coated Handle - Female/Female

Part Number: **6273**

Steel with Yellow Plastic Coated Handle - Female/Female

Gas approved to BSEN331 1998



Dimensions (mm) and Pressures

	DN	I	L	H	CH	R	h	Kv	PN	Kg
*1/4	8	11	51.5	23	20	95	47.5	5.4	64	0.14
*3/8	10	11.4	51.5	23	20	95	47.5	6	64	0.13
1/2	15	15	59	30	25	95	50	16.3	30	0.17
3/4	20	16.3	67	36	31	110	60	29.5	30	0.29
1	25	19.1	81.5	43.5	38	110	62.5	43	30	0.44
1 1/4	32	21.4	94	53	48	160	77.5	89	25	0.76
1 1/2	40	21.4	102.4	65	54	160	82.5	230	25	1.02
2	50	25.7	123	80	67	170	103	265	25	1.75

\*As 1700/1710/1720

### Technical Data

#### Media

Most non-corrosive liquids and gases including air, water, solvents and fuels.

#### Operating Pressure

Nominal working pressure (PN) in bar - see chart

Vacuum: Maximum 10<sup>-3</sup> torr

#### Operating Temperature

-20°C to +130°C

#### Flow Rates

Flow rates stated in Kv: Flow coefficient in m<sup>3</sup>/h at differential pressure of 100kPa

#### Threads

ISO 7/1 - UNI EN 10226/1- Rp

#### Materials

Body: Nickel plated brass

Ball: Chromed brass

Seals: PTFE

Stem Seals: NBR

Lever Handle: Steel/Aluminium black enamelled

'T' Handle: Aluminium black enamelled

#### Actuation

90° rotation of the lever.

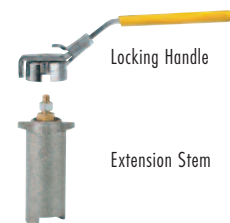
We recommend that the valve is used in either the fully open or fully closed position.

In addition, the valve should be actuated at least twice a year

#### Additional Options

Female/ Female NPT

Male/Female Threads



Locking Handle

Extension Stem

#### Special Requests

For assistance, contact our technical office.

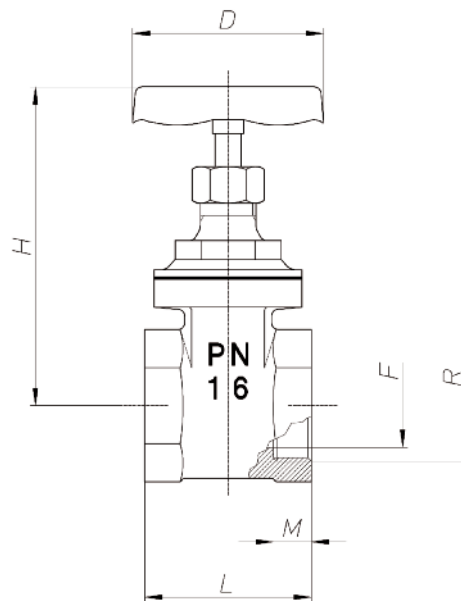
## Gate Valve

Connections: 3/8, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4

Heavy Pattern Brass Gate Valve PN16

- Handwheel operated
- Heavy pattern
- PN16 rated

Part Number: **9896**



Dimensions (mm) and Pressures

Size	L	H	D	F	M
3/8	33	67	45	13	8
1/2	38	68	45	15	9
3/4	44	78	50	19	10
1	48	91	55	24	11
1 1/4	51	108	60	32	12
1 1/2	58	125	70	37	13
2	63	143	80	47	13
2 1/2	64	176	100	60	13
3	74	200	100	72	14
4	84	235	120	93	16

### Technical Data

#### Media

Suitable for domestic water services and heating plants

#### Operating Pressure

PN 16

#### Operating Temperature

0°C to +120°C in absence of steam

#### Threads

Female/Female

#### Materials

Body: Brass

Handle: Steel

#### Actuation Details

Handwheel operated

#### Additional Options

Series 9894 - Heavy bronze gate valve PN16

Series 9898 - Brass gate valve PN10

#### Special Requests

For assistance, contact our technical office.

## Brass Ball Valves Three-Way - with ISO 5211 PAD

Connections: 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2

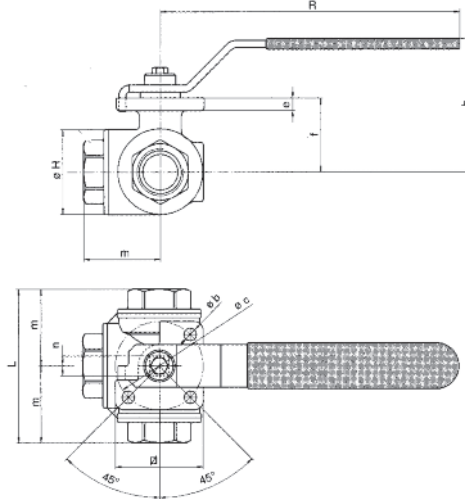
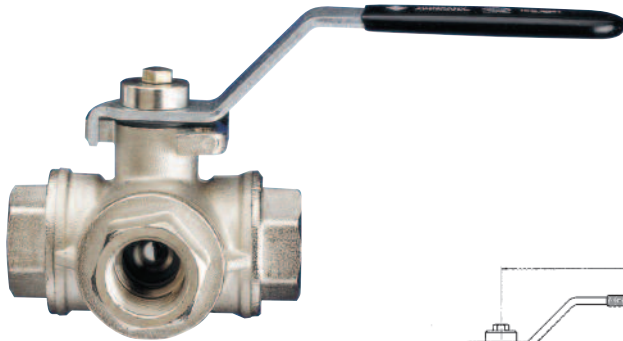
Full bore, 3-way L-port or T-port ball valves for control of air, water, oil and some solvents and fuels.

On site selection of desired flowpath by simple lever positioning system (see chart below).

ISO Pad for direct mounting of actuator.

- Low operating torque
- "L" and "T" Ports
- Full bore
- ISO 5211 mounted pad for direct mount actuation

Part Number: **3500** (T-port), **3600** (L-Port)



### Technical Data

#### Media

Most non-corrosive liquids and gases including air, water, solvents, fuels and propane.

#### Operating Pressure

Nominal working pressure (PN) in bar - see chart

#### Operating Temperature

-20°C to +160°C

#### Flow Rates

Flow rates stated in Kv: Flow coefficient in m<sup>3</sup>/h at differential pressure of 100kPa

#### Threads

ISO 7/1 - UNI EN 10226/1- Rp

#### Materials

Body: Brass, Nickel-plated  
 Balls: Brass, hard chromed  
 Seal: PTFE and VITON "O" Rings  
 Lever: Steel, plastic coated black

#### Actuation Details

90° rotation of lever. We recommend that the valve is used in either the fully open or fully closed position. In addition, the valve should be actuated at least twice a year

#### Additional Options

Female/Female/Female NPT

#### Special Requests

For assistance, contact our technical office.

### Dimensions (mm)

Size	DN	H	L	m	R	h	øb	øc	e	f	g	∇	n	Kv	PN	Torque
1/4	8	34	67	33.5	120	62	6	36 (ISO F03)	5	30.5	9	38	9	2.8	30	6 NM
3/8	10	34	67	33.5	120	62	6	36 (ISO F03)	5	30.5	9	38	9	3	30	6 NM
1/2	15	39	77	38.5	120	64	6	36 (ISO F03)	5	32.7	9	38	9	3.9	30	6 NM
3/4	20	48	87	43.5	170	75	7	50 (ISO F05)	7	41.5	11	50	11	7.9	30	17 NM
1	25	60	105	52.5	170	80.5	7	50 (ISO F05)	7	47	11	50	11	13	16	17 NM
1 1/4	32	72	122.5	61.25	170	93	7	50 (ISO F05)	7	59.5	11	50	11	20.7	10	17 NM
1 1/2	40	86	138.5	69.25	230	111	9	70 (ISO F07)	8	73.85	15	70	14	38.7	10	31 NM
2	50	111	166	83	230	122	9	70 (ISO F07)	8	85	15	70	14	54	10	43 NM

Flowpaths (indicated by markings on the stem)

