



Series 6209

**Zetco AGA Approved
DZR Brass Ball Valve
Press-fit x MI
Lockable**

DESCRIPTION

A DZR brass ball valve AGA approved to AS 4617 (Licence 5301 G) for use in different types of gas installations where a lockable handle is required for added security and safety. The male connection accepts female fittings while the press-fit connection can be crimped using a range of popular V profile tools to form a flame-free seal against copper pipework.

FEATURES

Design	<p>Forged dezincification resistant brass body</p> <p>Blow-out proof stem to prevent leakage</p> <p>Conical PTFE stem sealing system for additional leak protection</p> <p>Handle can be locked in the open or closed position</p>
Production	<p>Manufactured in Italy under ISO 9001 Quality Management System</p> <p>All valves are pressure tested during production</p> <p>Additional testing to DVGW VP 614</p>
Technical	<p>Press-fit connection conforming to AS 3688</p> <p>Male ISO 7/1 R (BSP) threaded connection</p> <p>Flow control: on/off only, not intended for throttling</p> <p>Flow capacity: Full bore</p> <p>Temperature range: -20°C to 100°C</p> <p>Max. pressure: 2100 kPa (refer to graph)</p> <p>According to AS 5601 Table 4.1, the operating pressure of consumer gas piping systems containing copper is 200 kPa</p> <p>Use with Viega®, Rothenberger® & KemPress® V-profile tools only</p> <p>Must be installed according to accompanying instructions (see p. 3-4)</p>
Options & Variants	<p>Size range: DN15 (1/2") to DN50 (2")</p> <p>Series 6207 AGA approved press-fit x press-fit lockable lever handle</p> <p>Series 6109 WaterMarked press-fit x male lockable lever handle</p>

BIM-MEP^{AUS}



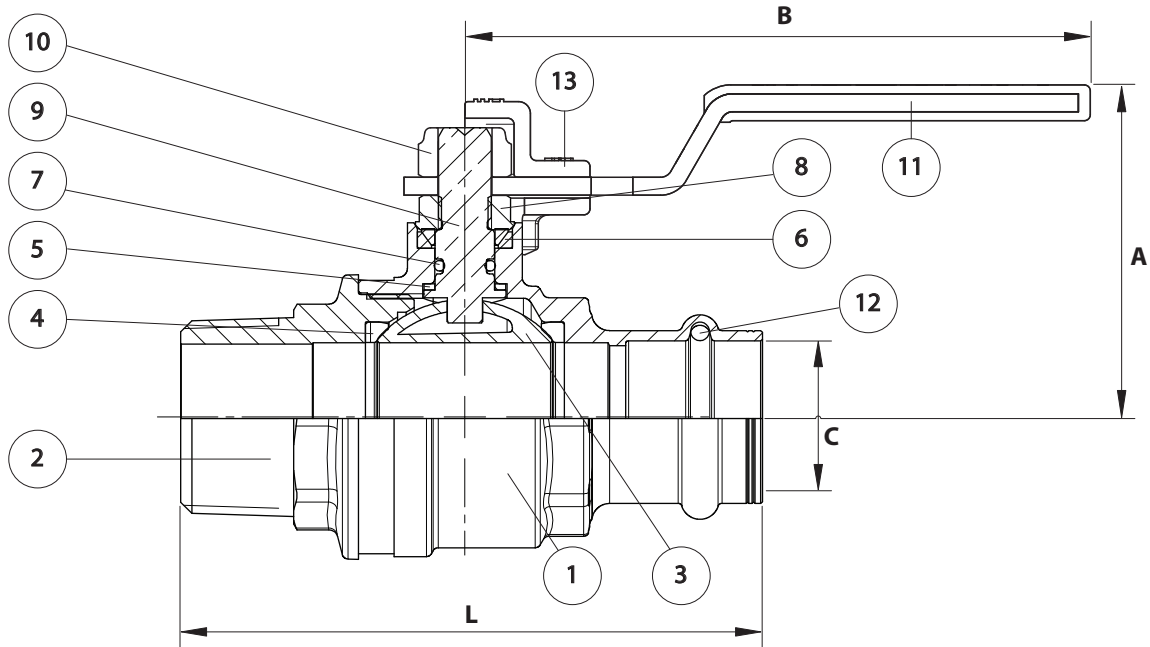
AGA 5301 G
AS 4617

Series 6209

Zetco AGA Approved DZR Brass Ball Valve
Press-fit x MI Lockable



DIMENSIONAL AND COMPONENT DIAGRAM



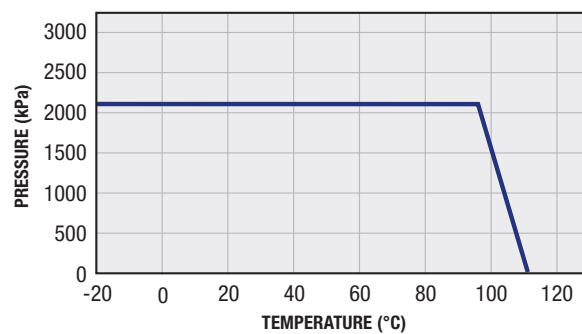
PARTS MATERIALS

POS.	PART	MATERIAL
1	BODY	DZR BRASS
2	END ADAPTOR	DZR BRASS
3	BALL	DZR BRASS (CHROME PLATED)
4	SEAL	PTFE
5	THRUST WASHER	PTFE
6	CONICAL SEAL	PTFE
7	O-RING	HNBR
8	GLAND NUT	DZR BRASS
9	STEM	DZR BRASS
10	NUT	ZINC PLATED STEEL
11	HANDLE	ZINC PLATED STEEL
12	O-RING	HNBR
13	LOCKING MECHANISM	ZINC PLATED STEEL

DIMENSIONS (mm)

Prod. Code	DN	C	A	B	L	Kv	Wgt Kg
6209015	15	12.8	44	85	71	15	0.221
6209020	20	19.2	52	105	88	28	0.387
6208025	25	25.8	56	105	98	39	0.552
6209032	32	32.1	68	130	111	84	0.911
6209040	40	38.5	74	130	134	156	1.33
6209050	50	51.2	88	165	157	243	2.11

PRESSURE/TEMPERATURE GRAPH





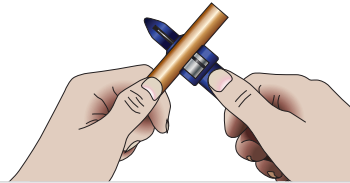
Press-fit Information

For use with Viega®, Rothenberger®, KemPress® V-profile tools only
IMPORTANT INSTALLATION INSTRUCTIONS
 Follow each step carefully



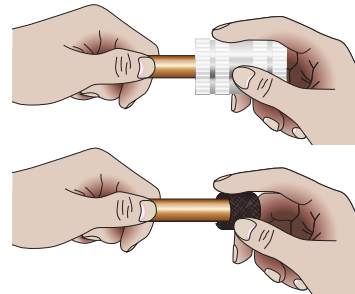
STEP 1

Refer to the design guidelines overleaf for important dimensions which must be considered prior to installation.
 Use only Type A & B copper pipe complying with AS 1432.
 Cut the copper pipe to the required length.



STEP 2

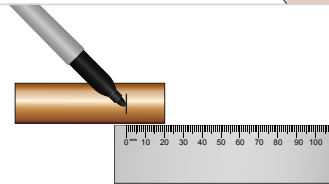
Carefully deburr the end of the pipe;
 - INSIDE to minimise turbulence and pressure loss, and
 - OUTSIDE to avoid damage to the o-ring during insertion.
 For existing installations, ensure that the copper pipe complies with AS 1432 and is free of defects and in good condition.
 Clean the end of the pipe with emery paper or a soft scourer.



STEP 3

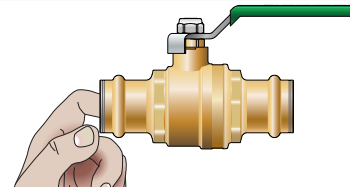
Measure and mark the correct insertion depth on the copper pipe.

Size (mm)	15	20	25	32	40	50
Depth (mm)	17	22	23	25	31	39



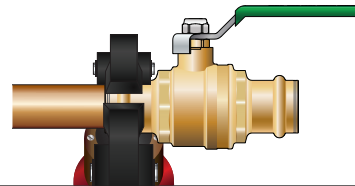
STEP 4

Ensure that you are using the correct valve or fitting for your application (water or gas) and the o-rings are correctly positioned.
 Check that the ends are completely free of swarf, sharp metal or other debris which may cause damage the o-rings.



STEP 5

Push the valve or fitting onto the copper pipe up to the insertion depth. Recheck engagement with the pipe prior to pressing.
 Rest the raised bump in the groove of the press tool and operate press tool according to manufacturer's instructions. Inspect joint.



NOT SUITABLE FOR

Solar hot water systems, medical gases, refrigeration and air-conditioning gases, acetylene, urea solution, glycerin triacetate, coolant inhibitor, sodium hydroxide or ammoniac gases.

WARNING DO NOT USE MINERAL OIL TO LUBRICATE THE O-RINGS

WATER APPLICATIONS

Medium	Potable water
Max. Temp.	110°C
Max. Pressure	2500 kPa

GAS APPLICATIONS

Medium	NG, LPG
Max. Temp.	100°C
Max. Pressure	2100 kPa*

*According to AS 5601 Table 4.1, operating pressure of consumer gas piping systems containing copper tube is limited to 200 kPa.
 Disclaimer: Zetco Valves Pty Ltd will not accept responsibility for damage caused by failure to follow the instructions & warnings provided.

INSTALLATION INSTRUCTION SHEET

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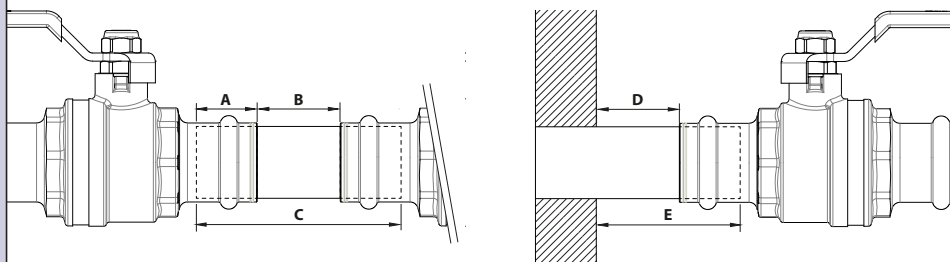
Press-fit Information

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INSTALLATION DESIGN INFORMATION
 Follow carefully to avoid damage



DESIGN GUIDE

SPACE REQUIREMENTS



The table below shows the minimum distances required between a press joint and other objects.

Nom. Size mm	Pipe OD mm	A mm	B mm	C mm	D mm	E mm
DN15	12.70	17	10	50	60	80
DN20	19.05	22	10	60	60	85
DN25	25.40	23	10	62	60	86
DN32	31.75	25	20	76	60	88
DN40	38.10	31	20	88	60	94
DN50	50.80	39	20	110	60	106

BRAZING & SOLDERING

Brazing or soldering close to press joints may result in damage to the o-rings.
 The table below shows the minimum distance required between a press joint and any brazing activity. In cases where this distance cannot be achieved, ensure that the valve or fitting is adequately protected from heat and kept cool during the brazing procedure.

Size (mm)	15	20	25	32	40	50
Min. Clearance	350	500	650	800	1000	1300



WARNING

Unpressed connections may not be detected during post-installation pressure testing due to a temporary sealing effect of the o-rings. To ensure that correct sealing has been achieved, visually inspect every joint to ensure that each one is pressed correctly.

The most recent version of this information sheet, plus additional technical information can be accessed at the Zetco website: www.zetco.com.au

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