



Series 6105

Zetco WaterMarked DZR Brass Ball Valve Press-fit x MI T Handle

DESCRIPTION

A WaterMarked ball valve in DZR brass approved to AS 5830.1 (Licence WM-000110) for use in potable water installations. The compact T handle provides easy operation in tight spaces and the body features a male connection and a press-fit connection which can be crimped using a range of popular V profile tools to form a secure o-ring seal against copper pipework.

FEATURES

Design	<ul style="list-style-type: none"> Forged dezincification resistant brass body Blow-out proof stem to prevent leakage Conical PTFE stem sealing system for additional leak protection Compact handle design for applications with limited space
Production	<ul style="list-style-type: none"> Manufactured in Italy under ISO 9001 Quality Management System All valves are pressure tested during production Additional testing to DVGW VP 614
Technical	<ul style="list-style-type: none"> Press-fit connection conforming to AS 3688 Male ISO 7/1 R (BSP) threaded connection Flow control: on/off only, not intended for throttling Flow capacity: Full bore Temperature range: -15°C to 110°C Max. pressure: 2500 kPa (refer to graph) Use with Viega®, Rothenberger® & KemPress® V-profile tools only Must be installed according to accompanying instructions (see p. 3-4)
Options & Variants	<ul style="list-style-type: none"> Size range: DN15 (1/2") to DN25 (1") Series 6102 WaterMarked press-fit x male lever handle Series 6109 WaterMarked press-fit x male lockable lever handle Series 6205 AGA approved press-fit x male T handle

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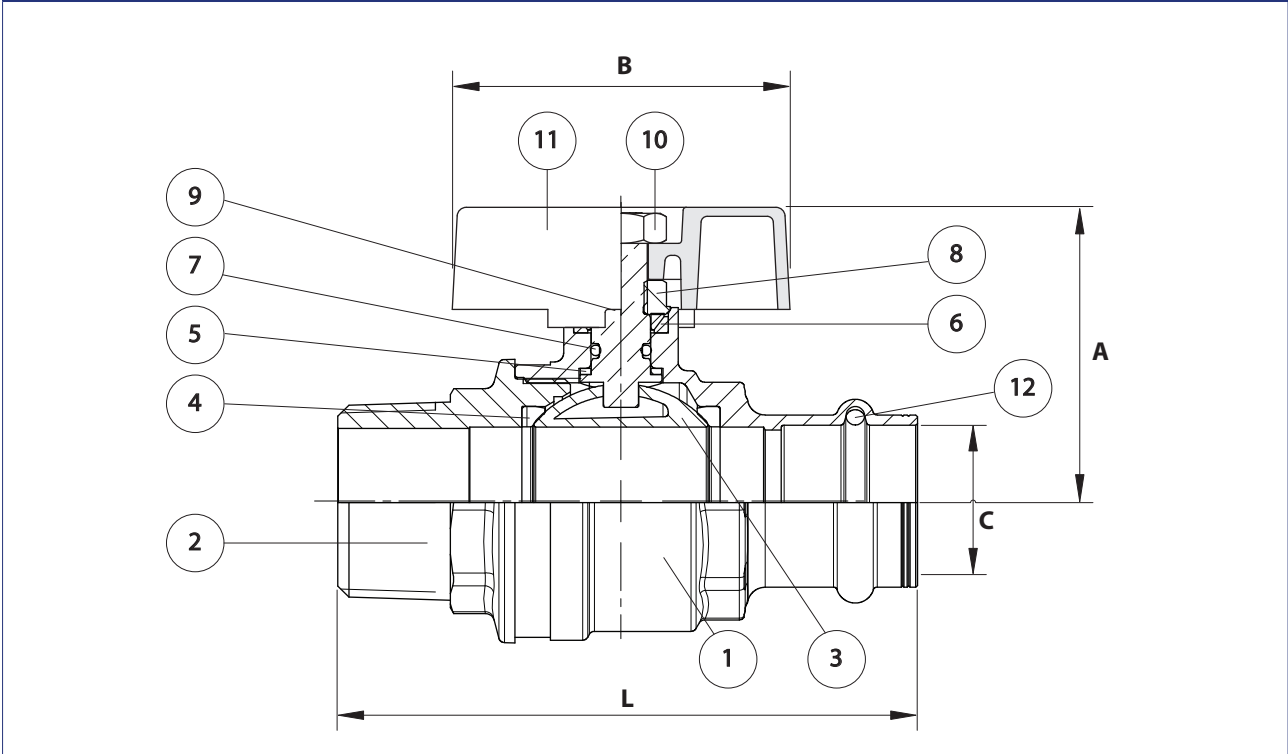
WaterMark
IAPMO WM-000110
AS 5830.1

Series 6105

Zetco WaterMarked DZR Brass Ball Valve
Press-fit x MI T Handle



DIMENSIONAL AND COMPONENT DIAGRAM



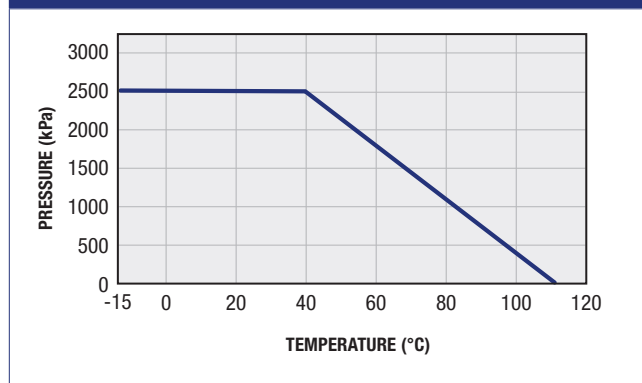
PARTS MATERIALS

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	BRASS
9	STEM	DZR BRASS
10	NUT	ZINC PLATED STEEL
11	HANDLE	POWDER COATED ALUMINIUM
12	O-RING	EPDM PEROXIDE

DIMENSIONS (mm)

Prod. Code	DN	C	A	B	L	Kv	Wgt Kg
6105015	15	12.8	37	47	71	15	0.188
6105020	20	19.2	45	56	88	28	0.332
6105025	25	25.8	49	56	98	39	0.501

PRESSURE/TEMPERATURE GRAPH





Press-fit Information

For use with Viega®, Rothenberger®, KemPress® V-profile tools only

IMPORTANT INSTALLATION INSTRUCTIONS

Follow each step carefully

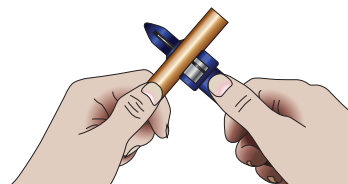


STEP 1

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.



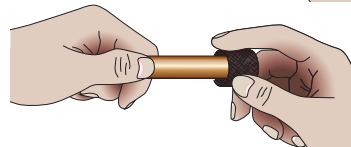
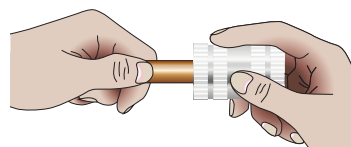
STEP 2

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.

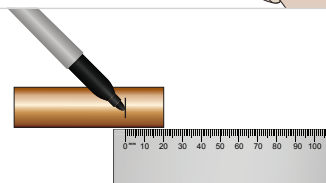
Clean the end of the pipe with emery paper or a soft scourer.



STEP 3

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

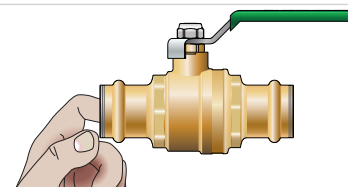
Size (mm)	15	20	25	32	40	50
Depth (mm)	17	22	23	25	31	39



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.

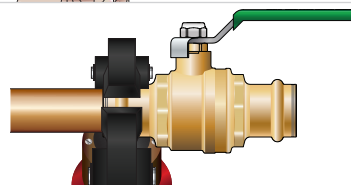
Check that the ends are completely free of swarf, sharp metal or other debris which may cause damage the o-rings.



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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Also available for download at www.zetco.com.au



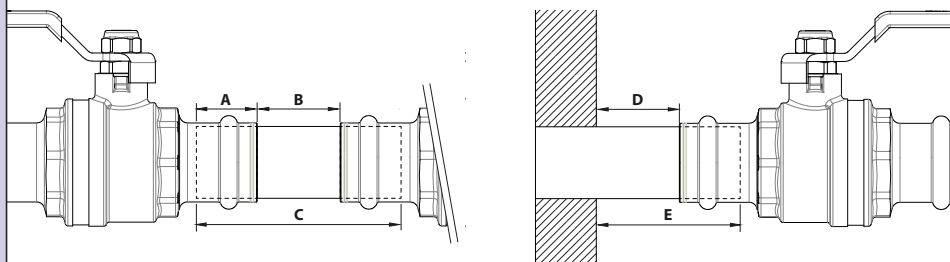
Press-fit Information

For use with Viega®, Rothenberger®, KemPress® V-profile tools only
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

Disclaimer: Zetco Valves Pty Ltd will not accept responsibility for damage caused by failure to follow the instructions & warnings provided.

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