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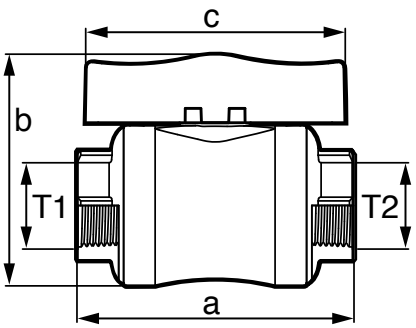
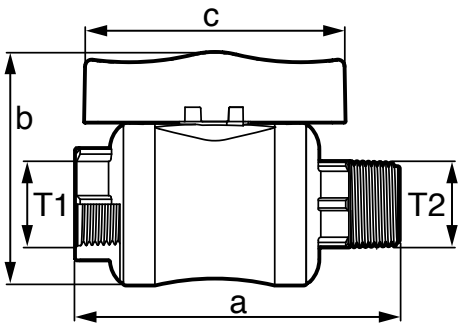
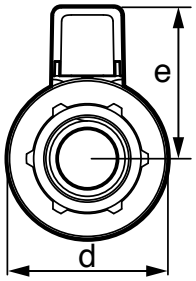
Hansen Ball Valve Dimensions

Product Code	T1 BSPT (DN*)	T2 BSPT (DN*)	a mm	b mm	c mm	d mm	e mm
Female Ball Valve Dimensions							
HBV15	15mm (1/2")	15mm (1/2")	98	82	93	56	54
HBV20	20mm (3/4")	20mm (3/4")	98	82	93	56	54
HBV25	25mm (1")	25mm (1")	111	93	104	65	61
HBV32	32mm (1 1/4")	32mm (1 1/4")	122	107	112	76	69
HBV40	40mm (1 1/2")	40mm (1 1/2")	135	124	123	90	79
HBV50	50mm (2")	50mm (2")	146	140	131	106	89
Male/Female Ball Valve Dimensions							
HBV25MF	25mm (1")	25mm (1")	131	93	104	65	61
HBV32MF	32mm (1 1/4")	32mm (1 1/4")	142	107	112	76	69
HBV40MF	40mm (1 1/2")	40mm (1 1/2")	155	124	123	90	79
HBV50MF	50mm (2")	50mm (2")	170	140	131	106	89

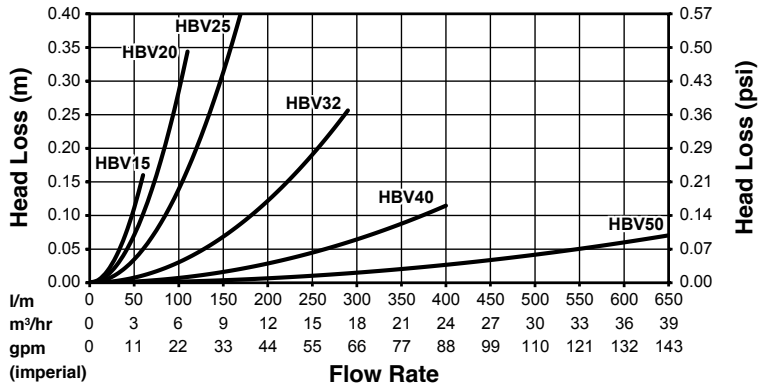
Pressure Rating: 16 Bar/235 PSI @ 20°C







Hansen Ball Valve Flow Chart



Flow Coefficients	HBV15	HBV20	HBV25	HBV32	HBV40	HBV50
Kv value	28.74	35.95	51.37	141.55	225.53	469.48
Cv value (Imp gal)	27.65	34.61	49.42	136.24	217.04	452.05

This chart has been prepared using the results from independent tests carried out by The University of Auckland, New Zealand.

Firstly find your system flow across the bottom of chart, and then take a line vertically up the chart to size a valve with an acceptable head loss for your system.

Standards & Approvals

AS/NZS 4020 Hansen Full Flow Ball Valves meet the requirements for products in contact with drinking water as per AS/NZS 4020 Australia & New Zealand drinking water standard. The equivalent standard to AS/NZS4020 is BS 6920.

International Marine Certification Approved. Meets the requirements of the Recreational Craft Directive 94/25/EC meaning that it is safe to use in salt water environments.

For further technical information including chemical & temperature specifications, please visit our website: **www.hansenproducts.com**

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Full Flow Ball Valves Installation Steps

- All pipe work must be adequately supported.
- Use a thread sealant on all threaded connections. We recommend Loctite 5331.
- If you are using chemicals or have any special requirements that you wish to use your Ball Valves for, please don't hesitate to contact us or refer to Chemical Resistance chart on previous page

1 (a) Use a teflon tape sealant or

1 (b) thread paste sealant. The right sealant for threaded joints is non-hardening, compatible with plastic and doesn't add slipperiness to encourage over-torquing.

2. Screw pipe or fitting into Ball Valve.

3. Do not over tighten. The recommended way to assemble a Ball Valve is finger tight. Tighten until firm with spanner or pipe grip. One to two turns should be all that is required.

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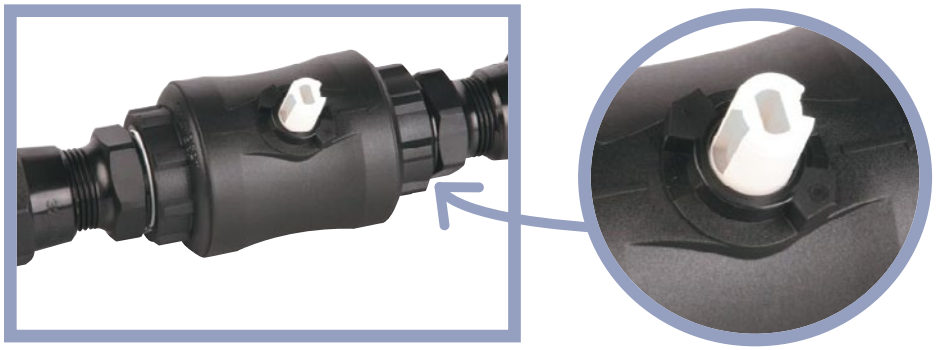
Full Flow Ball Valve Handle Removal Steps

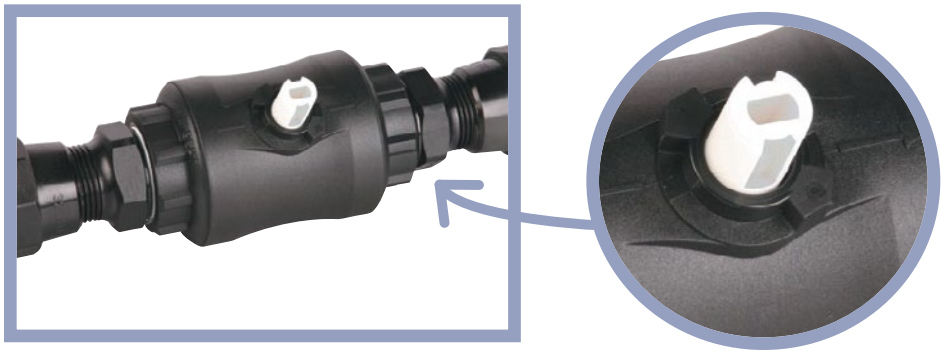
1 Turn handle clockwise slightly.

2 Put fingers under handle and pull whilst pushing with thumbs on body of valve.

Full Flow Ball - Determining is your Valve Open or Closed



Valve is identified as OPEN when centre notch is not parallel with the valve body.



Valve is identified as CLOSED when centre notch is parallel with the valve body.

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Full Flow Ball Valve Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Drinking Water	X		
Sea Water	X		
Bloat Remedies Diluted		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong			X
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel			X
Automotive Lubricants			X
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents			X
Hydrocarbons			X
Halogens			X
Alcohols			X
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide			X
Ozone			X
Phenols			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Calcium Chloride			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.