



**HOLMBURY**  
**VALVE CATALOGUE**

[www.holmbury.com](http://www.holmbury.com)

# Introducing our Valve Catalogue

The Holmbury Group is a family-run hydraulics company with our head office located in Tonbridge, United Kingdom. Holmbury was established in 1984 by David French and quickly became recognised for our high quality and reliable products. The company is best known for its innovative flat face coupling design, launched in 1984, which became the preferred quick release coupling solution for many heavy construction equipment OEMs. The flat face design limits the inclusion of air and contaminants, whilst preventing fluid loss during disconnection.

Today Holmbury is a global provider of hydraulic quick release couplings, valves and other hydraulic components. In 2003, driven by the need to respond rapidly to worldwide customer demand, Holmbury set up their North American operation, now located in Eastlake, Ohio. In 2021 Holmbury opened up a new warehouse facility, in the Netherlands, to enhance service to their European customers.

## WHY CHOOSE HOLMBURY?



### Design and Engineering

Holmbury's products are designed by engineers with years of experience, insight and know-how. Holmbury maintains strict control of manufacturing function, and meets even the most demanding customer specifications. Holmbury utilises the advantages of global manufacturing expertise to provide customers with timely, precise and cost-effective solutions.



### Quality Certifications

All Holmbury products are subject to rigorous laboratory and field testing, and each product conforms to strict manufacturing standards.



### Delivery

Holmbury is dedicated to supplying quality products to our customers as quickly as possible by offering next-day service domestically and world-wide shipping via our international logistics partners.



### Stock/Inventory

Holmbury prides itself on holding extensive stock of our fast-moving items at sites throughout the world. The global market place has varying and fluctuating demands, therefore, not all products are available from stock and may also be specific to a region.

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# QUICK REFERENCE ICON GLOSSARY

## APPLICATIONS



## PRODUCTS



For further information about Holmbury Quick Release Couplings range contact sales office.

## MATERIALS



## PRESSURE



Colour of icon represents:  
■ MEDIUM PRESSURE

## GLOSSARY TECH



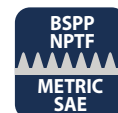
## STANDARD



## BODY



## THREAD



## SIZE

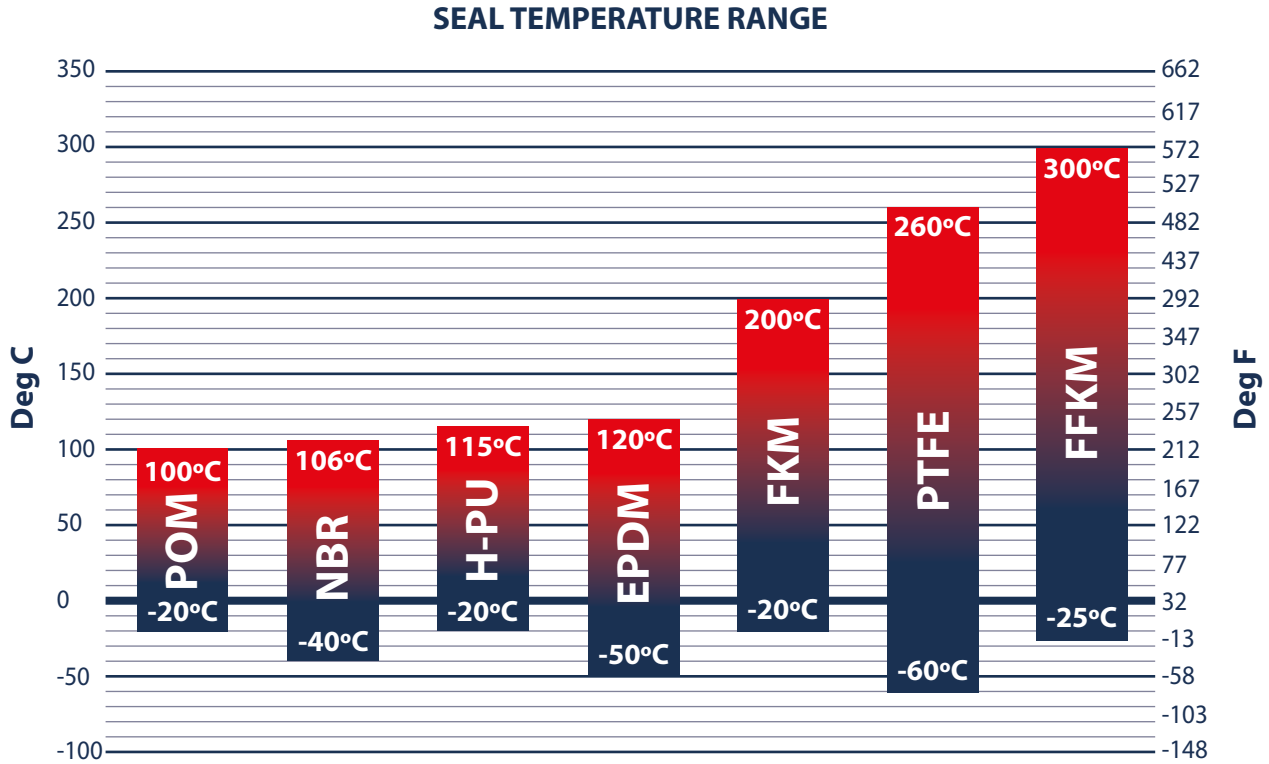


## ACCESSORIES



## AVAILABLE SEALS AND TEMPERATURE RANGE

All carbon steel products have NBR seals fitted as standard.  
 All stainless steel products have FKM seals fitted as standard.



Note: H-PU is Polyurethane

## MATERIALS

Holmbury products are supplied in range of materials proven to meet the demanding environments of our customers and their applications. Exotic materials such as Monel and others available on request (subject to minimum manufacturing quantities).



Carbon steel with trivalent plating provides a wide temperature range, excellent chemical resistance and prevents red rust for up to 100 hours.



Stainless steel has exceptional corrosion resistance, a wide temperature range, excellent chemical resistance and an aesthetically pleasing surface finish.

**ALL PERFORMANCE CHARACTERISTICS STATED ARE IN ACCORDANCE WITH ISO 18869.**

All product images shown in this catalogue are a digital representation and therefore the finished product appearance may differ slightly to that supplied.

# HOLMBURY PART CODING SYSTEM

The Holmbury system for part identification was devised for ease of use and to provide a consistent means of categorizing parts by Product Series within, where possible, the International Standards Organizations' method for identification and sizing of hydraulic components as well as nomenclature used. Primarily devised for quick action couplings the system has been adapted to other product series offered by the Holmbury Group.

This Part Coding System is for standard Materials and Seal type by Product Series.

See the specific Product Series pages for alternatives Materials, Seals and thread types.

The Holmbury system of part identification for quick action couplings adheres to the following format: **PS(B)BS-G-TS-TT-TG**

Product Code Configurator Options						
PS	B	BS	G	TS	TT	TG
Product Series	Body Profile	Body Size / DN *	Connection Type / Gender	Thread Size	Thread Type	Thread Gender
<p><b>Ball Valves</b>                      BVC2 / BVS2: Two way ball valve                      BVC3 / BVS3: Three way ball valve                      BVC2 / BVS2: Two way ball valve (Metric threads / ISO 7-1)                      BVC2 / BVS2: Two way ball valve (Weld ends)                      BVC2 / BVS2: Two way ball valve (SAE Flange head 61/62)                      BVC2 / BVS2: Two way ball valve ISO 6162 (SAE Flange port 61/62)                      VLK / VLKT: Valve locking kit                      BVC2 / BVS2: Limit Switch                      BVC2 / BVS2: Two way ball valve (Pneumatic control hydraulic ball valve)                      BVC2 / BVS2: Two way ball valve (Flanged PN40)                      BVC2 / BVS2: Two way ball valve (Manifold type)                      BVC3 / BVS3: Three way ball valve (Manifold type)                      BVC2 / BVS2: Two way ball valve (Integrated SAE flange)                      BVC2 / BVS2: Two way ball valve (Integrated SAE flange - Split flange)                      BVC4 / BVS4: Four way ball valve</p> <p><b>Throttle Valves</b>                      TV: Throttle valve                      TV-CV: Throttle Valve (One way - Non return)                      TVM: Throttle Valve (Manifold type)                      TVM-CV: Throttle Valve (Manifold type - One way - Non return)</p> <p><b>Speciality Valves</b>                      CV: Check Valve                      CVS: Check Valve                      VPC: Burst Valve &amp; Cartridge                      PC: Pattern Changer</p>	<p>&lt;Blank&gt; = Square body                      (O) = Octagonal body</p>	<p>04=1/8                      06=1/4                      08=5/16                      10=3/8                      12=1/2                      16=5/8                      19=3/4                      25=1                      32=1 1/4                      40=1 1/2                      50=2                      65=2 1/2</p>	<p>&lt;Blank&gt; = Threaded                      WE = Weld end (Diameters)                      FH1 = Flange head type 61                      FH2 = Flange head type 62                      FP1 = Flange port type 61                      FP2 = Flange port type 62                      LS = Limit switch                      PN40 = PN40 Flange                      PN40-F1 = PN40 Flange type F1                      PN40-F4 = PN40 Flange type F4                      FP1-C = Flange port type 61 (Compact)                      FP2-C = Flange port type 62 (Compact)                      PC = Pneumatic control</p>	<p>02=1/8                      04=1/4                      06=3/8                      08=1/2                      10=5/8                      12=3/4                      16=1                      20=1 1/4                      24= 1 1/2                      32=2</p>	<p>G=BSPP                      N=NPTF                      S=SAE                      J=JIC                      FS=ORFS                      R / Rc=BSPT                      M=Metric</p>	<p>F                      M</p>
			Product Series:	See each page for specific product code		
			Body Profile:	Square or octagonal body		
			Body Size / DN:	Specified as a metric value (Equivalent to Imperial Sizing)		
			Connection Type / Gender:	Connection type is dependent on series (See each page for further information)		
			Thread Size:	Specified by numerical characters relating to the thread size which, with the exception of metric threads, is based on the dash system		
			Thread Type:	Specified by characters relating to the thread type		
			Thread Gender:	Specified as Male (M) as the Female is assumed if not specified		

\* Thread size availability is dependent on suitable body size.  
 Square body profile is available in size 32 and above - Please contact our sales office.

Example: BVC3-50-32S						
PS	B	BS	G	TS	TT	TG
Product Series	Body Profile	Body Size / DN *	Connection Type / Gender	Thread Size	Thread Type	Thread Gender
<b>BVC3</b>		50		32	S	



## RECOMMENDED TORQUE SETTINGS

Metric Hydraulic Connections			JIC & SAE Hydraulic Connections		
BSP Size	Tightening Torque		Thread	Tightening Torque	
	Nm	lbs/ft		Nm	lbs/ft
M10	18	13	5/16-24	10	7
M12	20	15	3/8-24	10	7
M14	25	19	7/16-20	14	10
M16	45	33	1/2-20	20	15
M18	50	37	9/16-18	22	20
M20	70	52	5/8-18	27	20
M22	75	55	3/4-16	48	35
M26	110	81	7/8-14	81	60
M27	130	96	1 1/16-12	108	79
M33	220	162	1 3/16-12	136	100
M42	230	170	1 5/16-12	148	108
M48	350	258	1 5/8-12	173	127
-	-	-	1 7/8-12	216	158
-	-	-	2 1/2-12	334	245

BSPP Hydraulic Connections			O.R.F.S Hydraulic Connections				
BSP Size	Tightening Torque		SAE Dash	Thread	Equivalent BSP Size	Tightening Torque	
	Nm	lbs/ft				Nm	lbs/ft
1/8	17	12	-4	9/16-18	1/4	24	18
1/4	34	25	-6	11/16-16	3/8	33	24
3/8	47	35	-8	13/16-16	1/2	44	35
1/2	102	75	-10	1-14	5/8	58	43
5/8	122	90	-12	1 3/16-12	3/4	84	62
3/4	149	110	-16	1 7/16-12	1	115	85
1	203	150	-20	1 11/16-12	1 1/4	189	140
1 1/4	305	225	-24	2-12	1 1/2	244	180
1 1/2	305	225	-	-	-	-	-
2	400	296	-	-	-	-	-

Torque settings stated are for steel components with lightly oiled threads. Figures stated should be used as a guide only. Holmbury Ltd & Holmbury Inc accept no liability with the use of these settings during installation.

# INSTALLATION/REMOVAL AND GUIDELINES



## INTRODUCTION

For use as guidance only, responsibility for the correct selection of a suitable product remains with the user. Please ensure you are fully aware of the application medium, pressure, temperature, and any other installation factors as this may determine the material selection of the seats and seals of the ball valve. Holmbury assumes no liability in the event of any field failure if installation / removal or guidelines are not followed correctly.

- ✔ Qualified personnel should only undertake the installation and removal of ball valves. The system should be fully depressurised prior to fitting. Pipework should be aligned in the correct plane and sufficiently anchored so as not to impose torsional forces or loads. The open / close position of the ball valve must be aligned with the flow path of the hydraulic system.
- ✔ Ball valves are intended for assembly in pipe systems with identical pressure ratings in between the fittings.
- ✔ Ball valves open and close by rotation and, according to EN ISO 5211.8, the handle must be turned clockwise to close the ball valve.
- ✔ Ball valves can be operated either by handle or an actuator.
- ✔ Ball valves must be inspected for damage before installing, damaged ball valves must not be installed. Once in situ they should be periodically checked as part of routine maintenance.
- ✔ Ball valves installed for extended periods without being operated, should be turned every six months in order to prevent seizure.
- ✔ Ball valves are non-serviceable items and should not be disassembled.
- ✔ Ball valves should not be used to control or throttle flow.
- ✔ Ball valves installed in explosive zones are considered as non-electrical equipment, because there is no ignition source acc. to EC directive 94/9EG and therefore are not subject to ATEX.





## BALL VALVES

Ball valves offer a full-bore unrestricted flow with negligible pressure drop. The floating ball design provides effective sealing, with one-piece body delivering both a high-pressure rating and superior strength. 'L' and 'T' port options (on three-way), mounting holes and ergonomically designed handle enhance fitting and clearance.

**BVC2 Series (Common Threads) 10**



**BVS2 Series (Common Threads) 13**



**BVC3 Series (Common Threads) 16**



**BVS3 Series (Common Threads) 19**



**BVC2 Series (Metric Threads/ISO 7-1) 22**



**BVS2 Series (Metric Threads/ISO 7-1) 25**



**BVC2 Series (Weld Ends Rated 160 Bar) 28**



**BVS2 Series (Weld Ends Rated 160 Bar) 30**



**BVC2 Series (SAE Flange Head 61/62) 32**



**BVS2 Series (SAE Flange head 61/62) 34**



**BVC2 Series, ISO 6162 (SAE Flanged Port 61/62) 36**



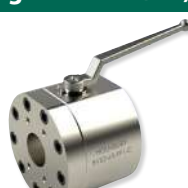
**BVS2 Series, ISO 6162 (SAE Flanged Port 61/62) 38**



**BVC2 ISO 6162 (Integrated SAE Flanged Port 61/62) 40**



**BVS2 ISO 6162 (Integrated SAE Flanged Port 61/62) 42**



**BVC2 (Integrated SAE Flanged Port- Flange Head 61/62) 44**





**BVS2 (Integrated SAE Flanged Port- Flange Head 61/62)** 46



**BVC2 (Flanged PN40)** 48



**BVS2 (Flanged PN40)** 50



**BVC3, BVC4** 52



**BVS3, BVS4** 55



**BVC2 (Manifold Type)** 58



**BVS2 (Manifold Type)** 60



**BVC3 (Manifold Type)** 62



**BVS3 (Manifold Type)** 64



**BVC2 (Limit Switch)** 66



**BVS2 (Limit Switch)** 68



**BVC2 (Pneumatic Control Hydraulic Ball Valve)** 70



**BVS2 (Pneumatic Control Hydraulic Ball Valve)** 72



**VLK Series** 74



**VLKT Series** 76



**Replacement Handles** 78



Full bore ball valves offering strength, flow and high-pressure for multiple applications



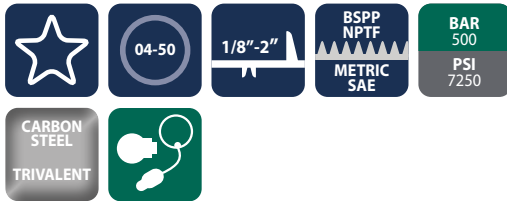
## Two-way high-pressure ball valves

### BVC2 Series



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation



#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC2 Series

#### SPECIFICATIONS

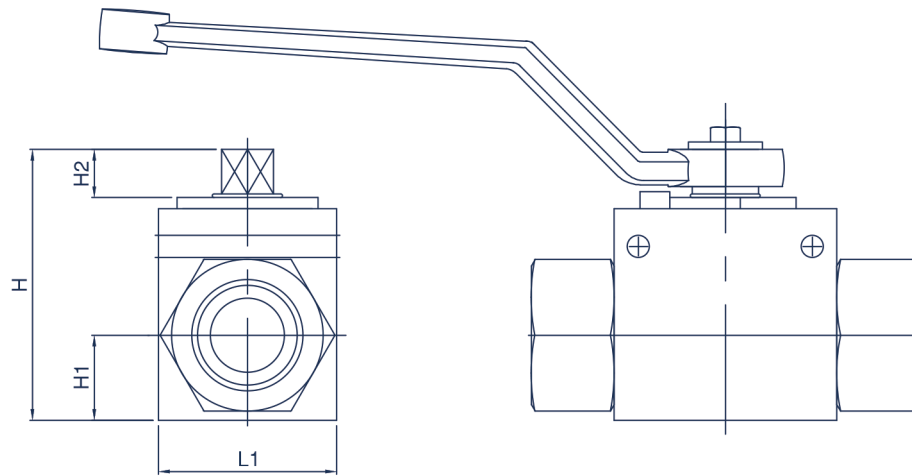
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

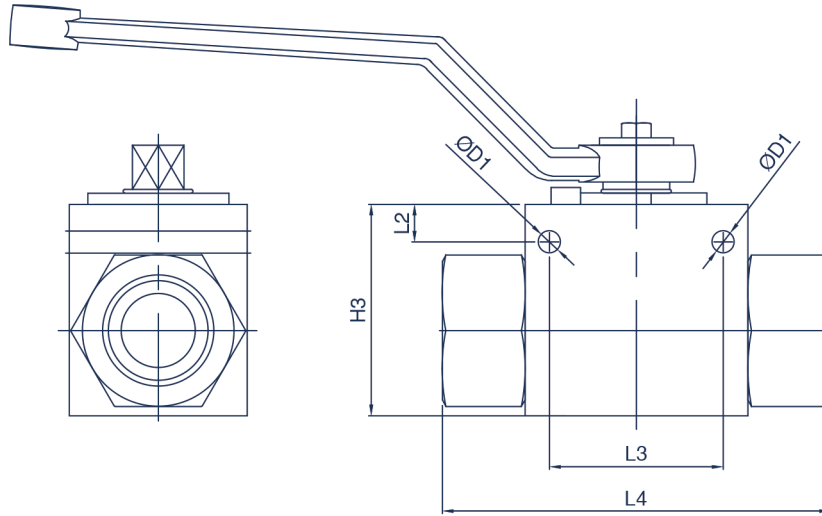
Body Size	BVC204	BVC206	BVC210	BVC212	BVC219	BVC225	BVC232	BVC240	BVC250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM								
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	500 7250	500 7250	350 5075	350 5075	350 5075
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	2000 29000	2000 29000	1400 20300	1400 20300	1400 20300
Rated flow	3 0.8	12 3.2	23 6.1	45 12	100 26.4	189 50	250 66	379 100	757 200



### BVC2 SERIES

Body Size	Part Number	Thread Size	H		H1		H2		L1	
			mm	inch	mm	inch	mm	inch	mm	inch
<b>04 (1/8)</b>	BVC2-04-02G	1/8 BSPP	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
	BVC2-04-02N	1/8 NPTF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
<b>06 (1/4)</b>	BVC2-06-04G	1/4 BSPP	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
	BVC2-06-04N	1/4 NPTF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
	BVC2-06-04S	7/16-20 UNF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
<b>10 (3/8)</b>	BVC2-10-06G	3/8 BSPP	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26
	BVC2-10-06N	3/8 NPTF	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26
	BVC2-10-06S	9/16-18 UNF	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26
<b>12 (1/2)</b>	BVC2-12-08G	1/2 BSPP	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38
	BVC2-12-08N	1/2 NPTF	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38
	BVC2-12-08S	3/4-16 UNF	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38
<b>19 (3/4)</b>	BVC2-19-12G	3/4 BSPP	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89
	BVC2-19-12N	3/4 NPTF	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89
	BVC2-19-12S	1 1/16-12 UN	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89
<b>25 (1)</b>	BVC2-25-16G	1 BSPP	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24
	BVC2-25-16N	1 NPTF	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24
	BVC2-25-16S	1 5/16-12 UN	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24
<b>32 (1 1/4)</b>	BVC2-32-20G	1 1/4 BSPP	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95
	BVC2-32-20N	1 1/4 NPTF	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95
	BVC2-32-20S	1 5/8-12 UN	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95
<b>40 (1 1/2)</b>	BVC2-40-24G	1 1/2 BSPP	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35
	BVC2-40-24N	1 1/2 NPTF	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35
	BVC2-40-24S	1 7/8-12 UN	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35
<b>50 (2)</b>	BVC2-50-32G	2 BSPP	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13
	BVC2-50-32N	2 NPTF	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13
	BVC2-50-32S	2 1/2-12 UN	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13

For all other configurations or thread types please contact the sales office.



### BVC2 SERIES

Body Size	Part Number	Thread Size	H3		L2		D1		L3		L4	
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
<b>04 (1/8)</b>	BVC2-04-02G	1/8 BSPP	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVC2-04-02N	1/8 NPTF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
<b>06 (1/4)</b>	BVC2-06-04G	1/4 BSPP	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVC2-06-04N	1/4 NPTF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVC2-06-04S	7/16-20 UNF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
<b>10 (3/8)</b>	BVC2-10-06G	3/8 BSPP	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
	BVC2-10-06N	3/8 NPTF	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
	BVC2-10-06S	9/16-18 UNF	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
<b>12 (1/2)</b>	BVC2-12-08G	1/2 BSPP	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
	BVC2-12-08N	1/2 NPTF	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
	BVC2-12-08S	3/4-16 UNF	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
<b>19 (3/4)</b>	BVC2-19-12G	3/4 BSPP	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
	BVC2-19-12N	3/4 NPTF	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
	BVC2-19-12S	1 1/16-12 UN	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
<b>25 (1)</b>	BVC2-25-16G	1 BSPP	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
	BVC2-25-16N	1 NPTF	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
	BVC2-25-16S	1 5/16-12 UN	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
<b>32 (1 1/4)</b>	BVC2-32-20G	1 1/4 BSPP	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
	BVC2-32-20N	1 1/4 NPTF	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
	BVC2-32-20S	1 5/8-12 UN	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
<b>40 (1 1/2)</b>	BVC2-40-24G	1 1/2 BSPP	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
	BVC2-40-24N	1 1/2 NPTF	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
	BVC2-40-24S	1 7/8-12 UN	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
<b>50 (2)</b>	BVC2-50-32G	2 BSPP	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51
	BVC2-50-32N	2 NPTF	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51
	BVC2-50-32S	2 1/2-12 UN	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51

For all other configurations or thread types please contact the sales office.



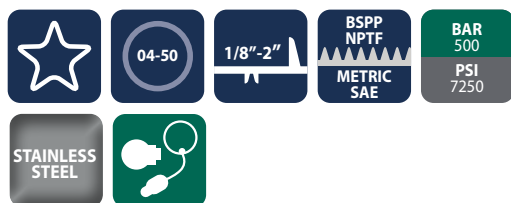
# Stainless steel two-way high-pressure ball valves

## BVS2 Series



### INTRODUCTION

Holmbury's BVS2 Series two-way stainless steel, high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS2 Series

### SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

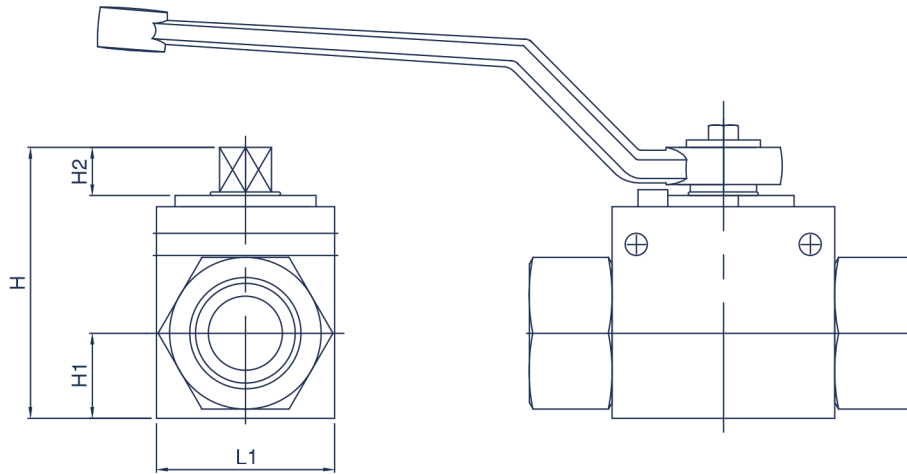
### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS204	BVS206	BVS210	BVS212	BVS219	BVS225	BVS232	BVS240	BVS250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM								
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	3 0.8	12 3.2	23 6.1	45 12	100 26.4	189 50	250 66	379 100	757 200

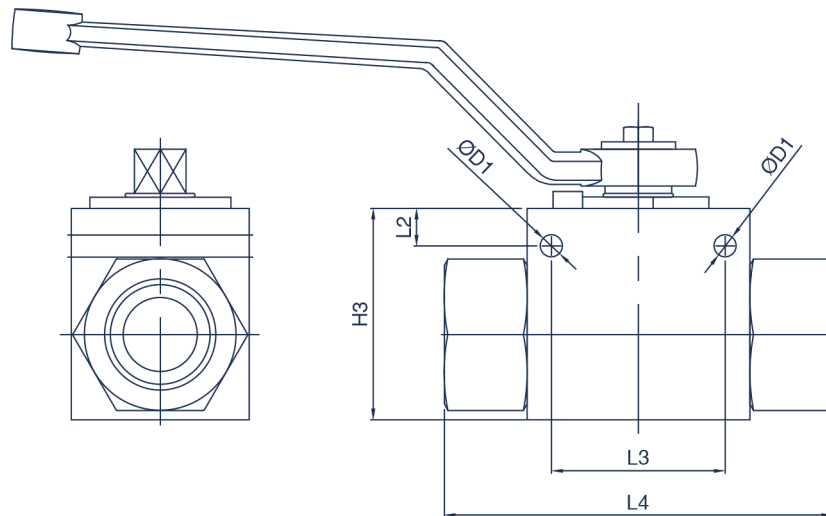




### BVS2 SERIES

Body Size	Part Number	Thread Size	H		H1		H2		L1	
			mm	inch	mm	inch	mm	inch	mm	inch
<b>04 (1/8)</b>	BVS2-04-02G	1/8 BSPP	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
	BVS2-04-02N	1/8 NPTF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
<b>06 (1/4)</b>	BVS2-06-04G	1/4 BSPP	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
	BVS2-06-04N	1/4 NPTF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
	BVS2-06-04S	7/16-20 UNF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10
<b>10 (3/8)</b>	BVS2-10-06G	3/8 BSPP	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26
	BVS2-10-06N	3/8 NPTF	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26
	BVS2-10-06S	9/16-18 UNF	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26
<b>12 (1/2)</b>	BVS2-12-08G	1/2 BSPP	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38
	BVS2-12-08N	1/2 NPTF	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38
	BVS2-12-08S	3/4-16 UNF	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38
<b>19 (3/4)</b>	BVS2-19-12G	3/4 BSPP	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89
	BVS2-19-12N	3/4 NPTF	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89
	BVS2-19-12S	1 1/16-12 UN	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89
<b>25 (1)</b>	BVS2-25-16G	1 BSPP	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24
	BVS2-25-16N	1 NPTF	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24
	BVS2-25-16S	1 5/16-12 UN	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24
<b>32 (1 1/4)</b>	BVS2-32-20G	1 1/4 BSPP	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95
	BVS2-32-20N	1 1/4 NPTF	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95
	BVS2-32-20S	1 5/8-12 UN	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95
<b>40 (1 1/2)</b>	BVS2-40-24G	1 1/2 BSPP	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35
	BVS2-40-24N	1 1/2 NPTF	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35
	BVS2-40-24S	1 7/8-12 UN	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35
<b>50 (2)</b>	BVS2-50-32G	2 BSPP	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13
	BVS2-50-32N	2 NPTF	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13
	BVS2-50-32S	2 1/2-12 UN	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13

For all other configurations or thread types please contact the sales office.



### BVS2 SERIES

Body Size	Part Number	Thread Size	H3		L2		D1		L3		L4	
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
<b>04 (1/8)</b>	BVS2-04-02G	1/8 BSPP	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVS2-04-02N	1/8 NPTF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
<b>06 (1/4)</b>	BVS2-06-04G	1/4 BSPP	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVS2-06-04N	1/4 NPTF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVS2-06-04S	7/16-20 UNF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
<b>10 (3/8)</b>	BVS2-10-06G	3/8 BSPP	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
	BVS2-10-06N	3/8 NPTF	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
	BVS2-10-06S	9/16-18 UNF	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
<b>12 (1/2)</b>	BVS2-12-08G	1/2 BSPP	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
	BVS2-12-08N	1/2 NPTF	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
	BVS2-12-08S	3/4-16 UNF	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
<b>19 (3/4)</b>	BVS2-19-12G	3/4 BSPP	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
	BVS2-19-12N	3/4 NPTF	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
	BVS2-19-12S	1 1/16-12 UN	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
<b>25 (1)</b>	BVS2-25-16G	1 BSPP	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
	BVS2-25-16N	1 NPTF	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
	BVS2-25-16S	1 5/16-12 UN	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
<b>32 (1 1/4)</b>	BVS2-32-20G	1 1/4 BSPP	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
	BVS2-32-20N	1 1/4 NPTF	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
	BVS2-32-20S	1 5/8-12 UN	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
<b>40 (1 1/2)</b>	BVS2-40-24G	1 1/2 BSPP	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
	BVS2-40-24N	1 1/2 NPTF	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
	BVS2-40-24S	1 7/8-12 UN	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
<b>50 (2)</b>	BVS2-50-32G	2 BSPP	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51
	BVS2-50-32N	2 NPTF	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51
	BVS2-50-32S	2 1/2-12 UN	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51

For all other configurations or thread types please contact the sales office.





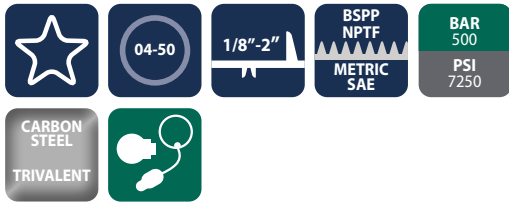
## Three-way high-pressure ball valves

### BVC3 Series



#### INTRODUCTION

Holmbury's BVC3 Series three-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS3 Series)

#### FEATURES

- Available in 'L' port (standard) and 'T' port (optional)
- One piece body design provides additional strength
- Full bore valves provide unrestricted flow path for negligible pressure drop
- 90° operation
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC3 Series

#### SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

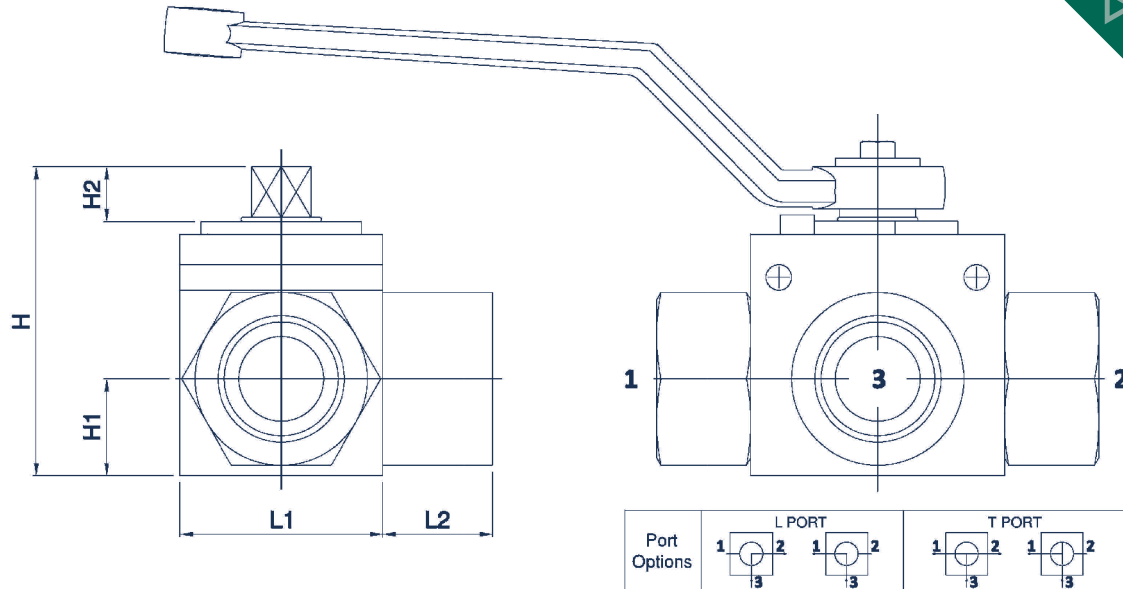
#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC3 PERFORMANCE CHARACTERISTICS

Body Size	BVC304	BVC306	BVC310	BVC312	BVC319	BVC325	BVC332	BVC340	BVC350
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM								
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	500 7250	500 7250	350 5075	350 5075	350 5075
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	2000 29000	2000 29000	1400 20300	1400 20300	1400 20300
Rated flow	3 0.8	12 3.2	23 6.1	45 12	100 26.4	189 50	250 66	379 100	757 200





### BVC3 SERIES

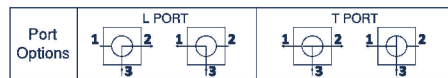
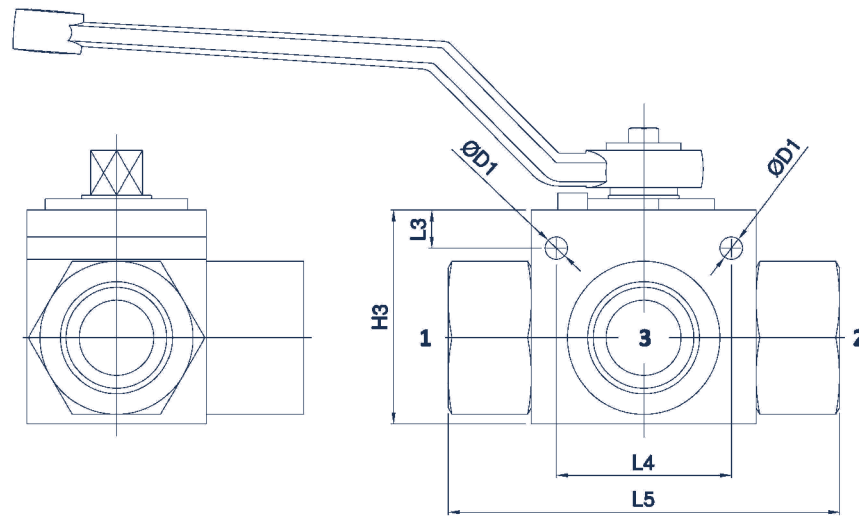
Body Size	Part Number	Thread Size	H		H1		H2		L1		L2	
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
<b>04 (1/8)</b>	BVC3-04-02G	1/8 BSPP	44.2	1.74	13.0	0.51	8.1	0.32	28.0	1.10	21.0	0.83
	BVC3-04-02N	1/8 NPTF	44.2	1.74	13.0	0.51	8.1	0.32	28.0	1.10	21.0	0.83
<b>06 (1/4)</b>	BVC3-06-04G	1/4 BSPP	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10	21.0	0.83
	BVC3-06-04N	1/4 NPTF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10	21.0	0.83
	BVC3-06-04S	7/16-20 UNF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10	21.0	0.83
<b>10 (3/8)</b>	BVC3-10-06G	3/8 BSPP	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26	20.0	0.79
	BVC3-10-06N	3/8 NPTF	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26	20.0	0.79
	BVC3-10-06S	9/16-18 UNF	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26	20.0	0.79
<b>12 (1/2)</b>	BVC3-12-08G	1/2 BSPP	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38	22.5	0.89
	BVC3-12-08N	1/2 NPTF	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38	22.5	0.89
	BVC3-12-08S	3/4-16 UNF	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38	22.5	0.89
<b>19 (3/4)</b>	BVC3-19-12G	3/4 BSPP	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89	25.0	0.98
	BVC3-19-12N	3/4 NPTF	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89	25.0	0.98
	BVC3-19-12S	1 1/16-12 UN	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89	25.0	0.98
<b>25 (1)</b>	BVC3-25-16G	1 BSPP	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24	28.0	1.10
	BVC3-25-16N	1 NPTF	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24	28.0	1.10
	BVC3-25-16S	1 5/16-12 UN	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24	28.0	1.10
<b>32 (1 1/4)</b>	BVC3-32-20G	1 1/4 BSPP	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95	17.5	0.69
	BVC3-32-20N	1 1/4 NPTF	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95	17.5	0.69
	BVC3-32-20S	1 5/8-12 UN	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95	17.5	0.69
<b>40 (1 1/2)</b>	BVC3-40-24G	1 1/2 BSPP	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35	22.5	0.89
	BVC3-40-24N	1 1/2 NPTF	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35	22.5	0.89
	BVC3-40-24S	1 7/8-12 UN	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35	22.5	0.89
<b>50 (2)</b>	BVC3-50-32G	2 BSPP	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13	17.5	0.69
	BVC3-50-32N	2 NPTF	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13	17.5	0.69
	BVC3-50-32S	2 1/2-12 UN	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13	17.5	0.69

For all other configurations or thread types please contact the sales office.





## Three-way high-pressure ball valves



### BVC3 SERIES

Body Size	Part Number	Thread Size	H3		L3		D1		L4		L5	
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
04 (1/8)	BVC3-04-02G	1/8 BSPP	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVC3-04-02N	1/8 NPTF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
06 (1/4)	BVC3-06-04G	1/4 BSPP	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVC3-06-04N	1/4 NPTF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVC3-06-04S	7/16-20 UNF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
10 (3/8)	BVC3-10-06G	3/8 BSPP	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
	BVC3-10-06N	3/8 NPTF	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
	BVC3-10-06S	9/16-18 UNF	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
12 (1/2)	BVC3-12-08G	1/2 BSPP	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
	BVC3-12-08N	1/2 NPTF	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
	BVC3-12-08S	3/4-16 UNF	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
19 (3/4)	BVC3-19-12G	3/4 BSPP	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
	BVC3-19-12N	3/4 NPTF	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
	BVC3-19-12S	1 1/16-12 UN	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
25 (1)	BVC3-25-16G	1 BSPP	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
	BVC3-25-16N	1 NPTF	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
	BVC3-25-16S	1 5/16-12 UN	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
32 (1 1/4)	BVC3-32-20G	1 1/4 BSPP	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
	BVC3-32-20N	1 1/4 NPTF	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
	BVC3-32-20S	1 5/8-12 UN	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
40 (1 1/2)	BVC3-40-24G	1 1/2 BSPP	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
	BVC3-40-24N	1 1/2 NPTF	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
	BVC3-40-24S	1 7/8-12 UN	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
50 (2)	BVC3-50-32G	2 BSPP	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51
	BVC3-50-32N	2 NPTF	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51
	BVC3-50-32S	2 1/2-12 UN	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51

For all other configurations or thread types please contact the sales office.



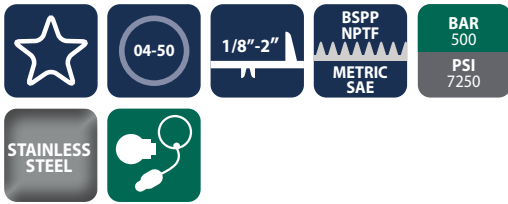
# Stainless steel three-way high-pressure ball valves

## BVS3 Series



### INTRODUCTION

Holmbury's BVS3 Series three-way stainless steel high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC3 Series)

### FEATURES

- Available in 'L' port (standard) and 'T' port (optional)
- One piece body design provides additional strength
- Full bore valves provide unrestricted flow path for negligible pressure drop
- 90° operation
- Offset handle allows clearance for easy operation

### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS3 Series

### SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

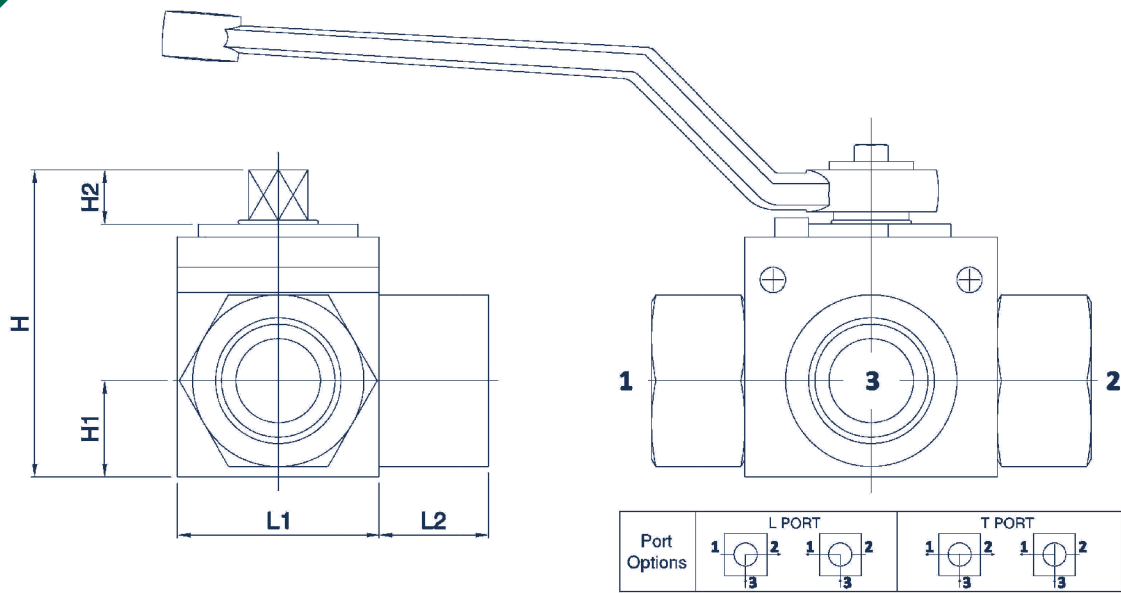
### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

### BVS3 PERFORMANCE CHARACTERISTICS

Body Size	BVS304	BVS306	BVS310	BVS312	BVS319	BVS325	BVS332	BVS340	BVS350
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM								
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	3 0.8	12 3.2	23 6.1	45 12	100 26.4	189 50	250 66	379 100	757 200

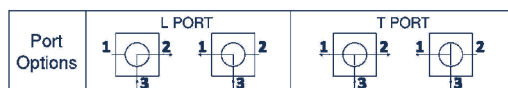
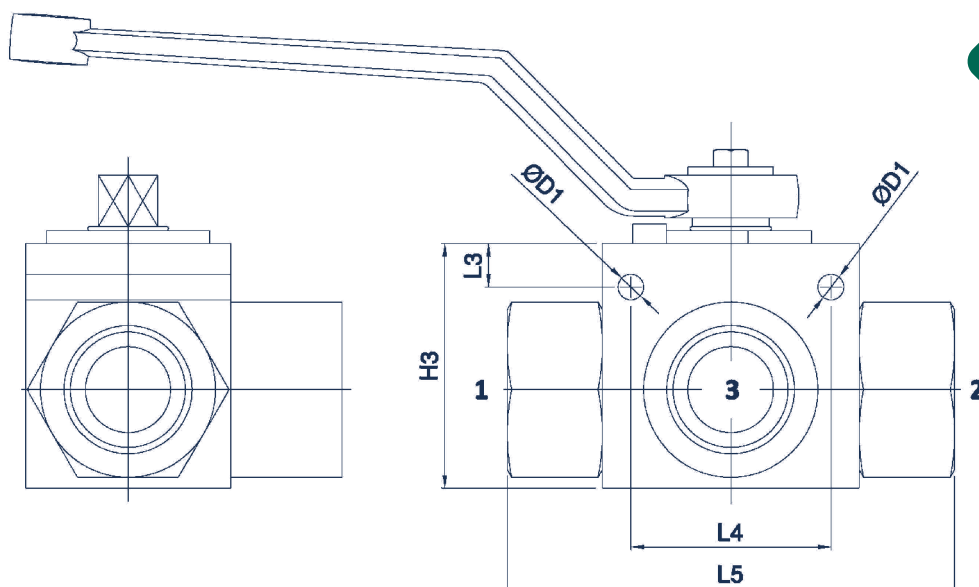




### BVS3 SERIES

Body Size	Part Number	Thread Size	H		H1		H2		L1		L2	
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
<b>04 (1/8)</b>	BVS3-04-02G	1/8 BSPP	44.2	1.74	13.0	0.51	8.1	0.32	28.0	1.10	21.0	0.83
	BVS3-04-02N	1/8 NPTF	44.2	1.74	13.0	0.51	8.1	0.32	28.0	1.10	21.0	0.83
<b>06 (1/4)</b>	BVS3-06-04G	1/4 BSPP	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10	21.0	0.83
	BVS3-06-04N	1/4 NPTF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10	21.0	0.83
	BVS3-06-04S	7/16-20 UNF	44.2	1.74	13.0	0.51	8.7	0.34	28.0	1.10	21.0	0.83
<b>10 (3/8)</b>	BVS3-10-06G	3/8 BSPP	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26	20.0	0.79
	BVS3-10-06N	3/8 NPTF	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26	20.0	0.79
	BVS3-10-06S	9/16-18 UNF	52.2	2.06	17.0	0.67	8.7	0.34	32.0	1.26	20.0	0.79
<b>12 (1/2)</b>	BVS3-12-08G	1/2 BSPP	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38	22.5	0.89
	BVS3-12-08N	1/2 NPTF	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38	22.5	0.89
	BVS3-12-08S	3/4-16 UNF	52.2	2.06	17.0	0.67	8.7	0.34	35.0	1.38	22.5	0.89
<b>19 (3/4)</b>	BVS3-19-12G	3/4 BSPP	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89	25.0	0.98
	BVS3-19-12N	3/4 NPTF	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89	25.0	0.98
	BVS3-19-12S	1 1/16-12 UN	75.2	2.96	24.0	0.94	13.7	0.54	48.0	1.89	25.0	0.98
<b>25 (1)</b>	BVS3-25-16G	1 BSPP	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24	28.0	1.10
	BVS3-25-16N	1 NPTF	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24	28.0	1.10
	BVS3-25-16S	1 5/16-12 UN	82.2	3.24	28.5	1.12	13.7	0.54	57.0	2.24	28.0	1.10
<b>32 (1 1/4)</b>	BVS3-32-20G	1 1/4 BSPP	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95	17.5	0.69
	BVS3-32-20N	1 1/4 NPTF	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95	17.5	0.69
	BVS3-32-20S	1 5/8-12 UN	104.5	4.11	37.5	1.48	16.0	0.63	75.0	2.95	17.5	0.69
<b>40 (1 1/2)</b>	BVS3-40-24G	1 1/2 BSPP	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35	22.5	0.89
	BVS3-40-24N	1 1/2 NPTF	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35	22.5	0.89
	BVS3-40-24S	1 7/8-12 UN	115.5	4.55	42.5	1.67	16.0	0.63	85.0	3.35	22.5	0.89
<b>50 (2)</b>	BVS3-50-32G	2 BSPP	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13	17.5	0.69
	BVS3-50-32N	2 NPTF	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13	17.5	0.69
	BVS3-50-32S	2 1/2-12 UN	133.0	5.24	52.5	2.07	16.0	0.63	105.0	4.13	17.5	0.69

For all other configurations or thread types please contact the sales office.



### BVS3 SERIES

Body Size	Part Number	Thread Size	H3		L3		D1		L4		L5	
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
<b>04 (1/8)</b>	BVS3-04-02G	1/8 BSPP	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVS3-04-02N	1/8 NPTF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
<b>06 (1/4)</b>	BVS3-06-04G	1/4 BSPP	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVS3-06-04N	1/4 NPTF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
	BVS3-06-04S	7/16-20 UNF	32.0	1.26	5.0	0.20	4.5	0.18	26.0	1.02	69.0	2.72
<b>10 (3/8)</b>	BVS3-10-06G	3/8 BSPP	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
	BVS3-10-06N	3/8 NPTF	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
	BVS3-10-06S	9/16-18 UNF	40.0	1.57	5.0	0.20	6.5	0.26	32.0	1.26	72.0	2.83
<b>12 (1/2)</b>	BVS3-12-08G	1/2 BSPP	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
	BVS3-12-08N	1/2 NPTF	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
	BVS3-12-08S	3/4-16 UNF	40.0	1.57	4.8	0.19	6.5	0.26	37.5	1.48	83.0	3.27
<b>19 (3/4)</b>	BVS3-19-12G	3/4 BSPP	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
	BVS3-19-12N	3/4 NPTF	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
	BVS3-19-12S	1 1/16-12 UN	57.0	2.24	6.5	0.26	6.5	0.26	45.0	1.77	95.0	3.74
<b>25 (1)</b>	BVS3-25-16G	1 BSPP	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
	BVS3-25-16N	1 NPTF	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
	BVS3-25-16S	1 5/16-12 UN	64.0	2.52	6.0	0.24	6.7	0.26	55.0	2.17	113.0	4.45
<b>32 (1 1/4)</b>	BVS3-32-20G	1 1/4 BSPP	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
	BVS3-32-20N	1 1/4 NPTF	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
	BVS3-32-20S	1 5/8-12 UN	84.0	3.31	9.0	0.35	10.8	0.43	66.0	2.60	110.0	4.33
<b>40 (1 1/2)</b>	BVS3-40-24G	1 1/2 BSPP	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
	BVS3-40-24N	1 1/2 NPTF	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
	BVS3-40-24S	1 7/8-12 UN	95.0	3.74	9.0	0.35	10.8	0.43	72.0	2.83	130.0	5.12
<b>50 (2)</b>	BVS3-50-32G	2 BSPP	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51
	BVS3-50-32N	2 NPTF	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51
	BVS3-50-32S	2 1/2-12 UN	112.5	4.43	9.0	0.35	10.8	0.43	80.0	3.15	140.0	5.51

For all other configurations or thread types please contact the sales office.





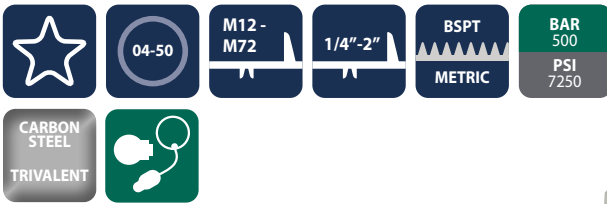
## Two-way high-pressure ball valves

### BVC2 Series (Metric Threads/ISO 7-1)



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC2 Series

#### SPECIFICATIONS

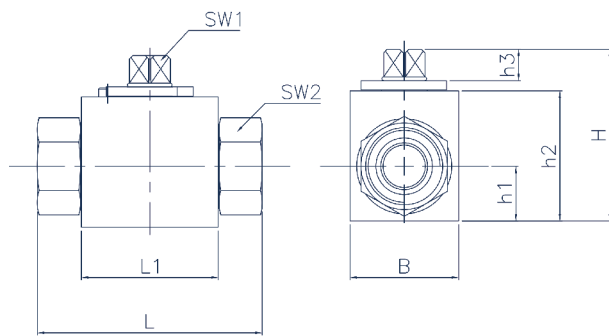
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - Square Body (DN04-25)
- BVC2(O) - Ball Valve - Octagonal Body (DN32-50)

#### APPLICATIONS

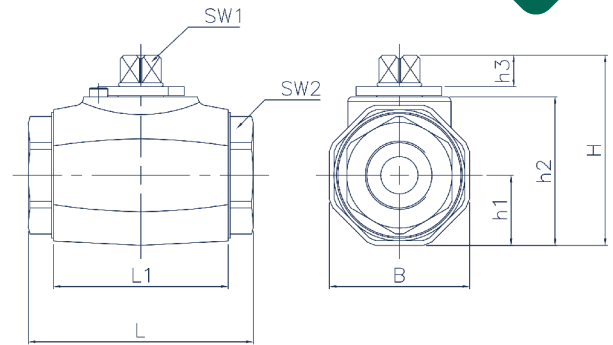
- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

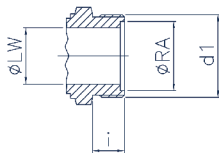
Body Size	BVC204	BVC206	BVC08	BVC210	BVC212	BVC216	BVC219	BVC225	BVC232	BVC240	BVC250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM										
Maximum working pressure	500	500	500	500	500	400	315	315	315	315	315
	7250	7250	7250	7250	7250	5800	4568	4568	4568	4568	4568
Burst pressure	2000	2000	2000	2000	2000	1600	1260	1260	1260	1260	1260
	29000	29000	29000	29000	29000	23200	18270	18270	18270	18270	18270
Rated flow	3	12	18	23	45	74	100	189	250	379	757
	0.8	3.2	4.75	6.1	12	20	26.4	50	66	100	200



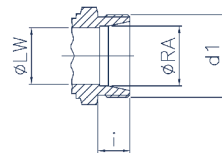
**SQUARE BODY (DN04-25)**



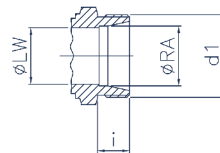
**OCTAGONAL BODY (DN32-50)**



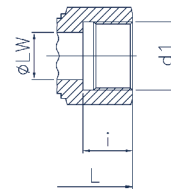
JB984-77



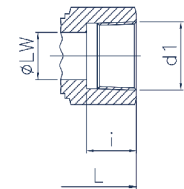
DIN2353  
Light Series



DIN2353  
Heavy Series



Metric  
Female Thread



ISO 7-1  
Female

**JB984-77 MALE FACE SEAL**

Part Number	DN	PN	LW	RA	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVC2-04-M12X1.25	04	500	4	8	M12X1.25	9	61	37	28	44.5	13	32	8	9	22
BVC2-06-M16X1.5	06	500	6	11	M16X1.5	11	69	37	28	44.5	13	32	8	9	22
BVC2-08-M22X1.5	08	500	8	16	M22X1.5	12	76	42	32	52.5	17	40	8	9	27
BVC2-10-M27X1.5	10	500	10	20	M27X1.5	12	76	42	32	52.5	17	40	8	9	30
BVC2-16-M30X1.5	16	400	15	24	M30X1.5	13	84	47	38	63.5	19	46	11	12	32
BVC2-19-M36X2	19	315	20	30	M36X2	15	103	60	48	75	24	57	12	14	41
BVC2-25-M42X2	25	315	25	35	M42X2	18	116	65	57	82	28.5	64	12	14	50
BVC2(O)-32-M52X2	32	315	30	40	M52X2	20	149	84	82	108	41	87.5	14	17	60
BVC2(O)-40-M60X2	40	315	38	50	M60X2	22	174	91	93	119.5	46.5	99	14	17	70
BVC2(O)-50-M72X2	50	315	48	60	M72X2	24	178	100	110	135.5	55	115	14	17	80

**DIN 2353 LIGHT SERIES**

Part Number	DN	PN	LW	RA	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVC2-04-M12X1.5-06L	04	500	4	6	M12X1.5	10	67	37	28	44.5	13	32	8	9	22
BVC2-06-M14X1.5-08L	06	500	6	8	M14X1.5	10	67	37	28	44.5	13	32	8	9	22
BVC2-08-M16X1.5-10L	08	500	8	10	M16X1.5	11	74	42	32	52.5	17	40	8	9	27
BVC2-10-M18X1.5-12L	10	500	10	12	M18X1.5	11	74	42	32	52.5	17	40	8	9	27
BVC2-12-M22X1.5-15L-SW9	12	500	13	15	M22X1.5	12	82	48	35	52.5	17	40	8	9	30
BVC2-12-M22X1.5-15L-SW12	12	400	13	15	M22X1.5	12	82	47	38	63.5	19	46	11	12	32
BVC2-12-M26X1.5-18L-SW9	12	500	13	18	M26X1.5	12	82	48	35	52.5	17	40	8	9	30
BVC2-16-M26X1.5-18L-SW12	16	400	15	18	M26X1.5	12	82	47	38	63.5	19	46	11	12	32
BVC2-20-M30X2-22L	20	315	19	22	M30X2	14	101	60	48	75	24	57	12	14	41
BVC2-25-M36X2-28L	25	315	25	28	M36X2	14	108	65	57	82	28.5	64	12	14	50
BVC2-25-M45X2-35L	25	315	25	35	M45X2	16	112	65	60	82	28.5	64	12	14	50
BVC2(O)-32-M45X2-35L	32	315	30	35	M45X2	16	141	84	82	108	41	87.5	14	17	60
BVC2(O)-40-M52X2-42L	40	315	38	42	M52X2	16	162	91	93	119.5	46.5	99	14	17	70





## DIN 2353 HEAVY SERIES

Part Number	DN	PN	LW	RA	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVC2-04-M16X1.5-08S	04	500	5	8	M16X1.5	12	73	37	28	44.5	13	32	8	9	22
BVC2-06-M18X1.5-10S	06	500	6	10	M18X1.5	12	73	37	28	44.5	13	32	8	9	22
BVC2-08-M20X1.5-12S	08	500	8	12	M20X1.5	12	76	42	32	52.5	17	40	8	9	27
BVC2-10-M22X1.5-14S	10	500	10	14	M22X1.5	14	80	42	32	52.5	17	40	8	9	27
BVC2-12-M24X1.5-16S-SW9	12	500	13	16	M24X1.5	14	86	48	35	52.5	17	40	8	9	30
BVC2-12-M24X1.5-16S-SW12	12	400	13	16	M24X1.5	14	86	47	38	63.5	19	46	11	12	32
BVC2-12-M30X2-20S-SW9	12	500	13	20	M30X2	16	90	48	35	52.5	17	40	8	9	32
BVC2-16-M30X2-20S-SW12	16	400	15	20	M30X2	16	90	47	38	63.5	19	46	11	12	32
BVC2-19-M36X2-25S	19	315	20	25	M36X2	18	109	60	48	75	24	57	12	14	41
BVC2-25-M42X2-30S	25	315	25	30	M42X2	20	120	65	57	82	28.5	64	12	14	50
BVC2-25-M52X2-38S	25	315	25	38	M52X2	22	124	65	60	82	28.5	64	12	14	55
BVC2(O)-32-M52X2-38S	32	315	30	38	M52X2	22	153	84	82	108	41	87.5	14	17	60

## METRIC FEMALE THREAD

Part Number	DN	PN	LW	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVC2-06-M14X1.5	06	500	6	M14X1.5	14	69	37	28	44.5	13	32	8	9	22
BVC2-10-M18X1.5	10	500	10	M18X1.5	13	72	42	32	52.5	17	40	8	9	27
BVC2-12-M22X1.5	12	500	13	M22X1.5	15	83	48	35	52.5	17	40	8	9	30
BVC2-16-M22X1.5	16	400	15	M22X1.5	16	83	47	38	63.5	19	46	11	12	32
BVC2-19-M27X2	19	315	20	M27X2	18	95	60	48	75	24	57	12	14	41
BVC2-25-M33X2	25	315	25	M33X2	20	113	65	57	82	28.5	64	12	14	50
BVC2(O)-32-M42X2	32	315	30	M42X2	22	120	84	82	108	41	87.5	14	17	60
BVC2(O)-40-M48X2	40	315	38	M48X2	24	130	91	93	119.5	46.5	99	14	17	70
BVC2(O)-50-M60X2	50	315	48	M60X2	26	140	100	110	135.5	55	115	14	17	80

## ISO 7-1 FEMALE

Part Number	DN	PN	LW	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVC2-06-04Rc	06	500	6	Rc1/4	14	69	37	28	44.5	13	32	8	9	22
BVC2-10-06Rc	10	500	10	Rc3/8	14	72	42	32	52.5	17	40	8	9	27
BVC2-12-08Rc	12	500	13	Rc1/2	17	83	48	35	52.5	17	40	8	9	30
BVC2-19-12Rc	19	315	20	Rc3/4	20	95	60	48	75	24	57	12	14	41
BVC2-25-16Rc	25	315	25	Rc1	22.5	113	65	57	82	28.5	64	12	14	50
BVC2(O)-32-20Rc	32	315	30	Rc1 1/4	25	120	84	82	108	41	87.5	14	17	60
BVC2(O)-40-24Rc	40	315	38	Rc1 1/2	25	130	91	93	119.5	46.5	99	14	17	70
BVC2(O)-50-32Rc	50	315	48	Rc2	30	140	100	110	135.5	55	115	14	17	80





## Two-way high-pressure ball valves

### BVS2 Series (Metric Threads/ISO 7-1)



#### INTRODUCTION

Holmbury's BVS2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS2 Series

#### SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - Square Body (DN04-25)
- BVS2(O) - Ball Valve - Octagonal Body (DN32-50)

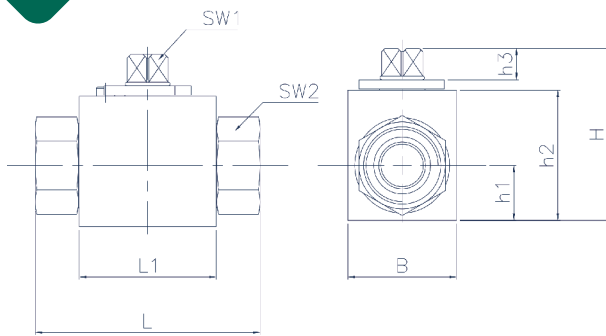
#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

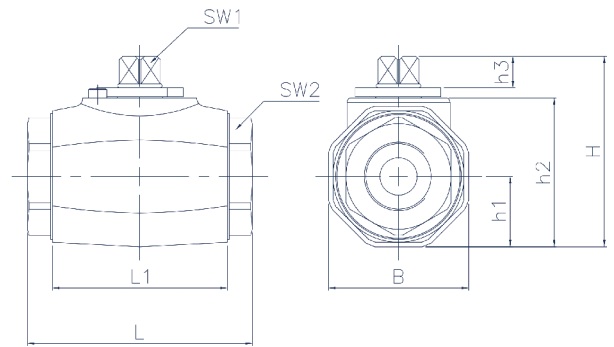
#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS204	BVS206	BVC08	BVS210	BVS212	BVS216	BVS219	BVS225	BVS232	BVS240	BVS250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM										
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	500 7250	400 5800	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	2000 29000	1600 23200	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	3 0.8	12 3.2	18 4.75	23 6.1	45 12	74 20	100 26.4	189 50	250 66	379 100	757 200

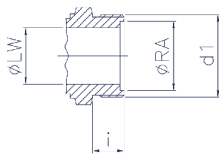




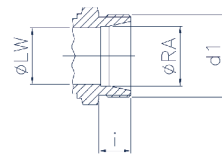
**SQUARE BODY (DN04-25)**



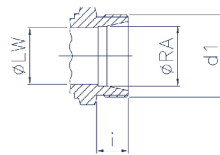
**OCTAGONAL BODY (DN32-50)**



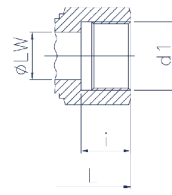
JB984-77



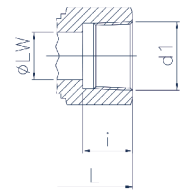
DIN2353  
Light Series



DIN2353  
Heavy Series



Metric  
Female Thread



ISO 7-1  
Female

**JB984-77 MALE FACE SEAL**

Part Number	DN	PN	LW	RA	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVS2-04-M12X1.25	04	500	4	8	M12X1.25	9	61	37	28	44.5	13	32	8	9	22
BVS2-06-M16X1.5	06	500	6	11	M16X1.5	11	69	37	28	44.5	13	32	8	9	22
BVS2-08-M22X1.5	08	500	8	16	M22X1.5	12	76	42	32	52.5	17	40	8	9	27
BVS2-10-M27X1.5	10	500	10	20	M27X1.5	12	76	42	32	52.5	17	40	8	9	30
BVS2-16-M30X1.5	16	400	15	24	M30X1.5	13	84	47	38	63.5	19	46	11	12	32
BVS2-19-M36X2	19	315	20	30	M36X2	15	103	60	48	75	24	57	12	14	41
BVS2-25-M42X2	25	315	25	35	M42X2	18	116	65	57	82	28.5	64	12	14	50
BVS2(O)-32-M52X2	32	315	30	40	M52X2	20	149	84	82	108	41	87.5	14	17	60
BVS2(O)-40-M60X2	40	315	38	50	M60X2	22	174	91	93	119.5	46.5	99	14	17	70
BVS2(O)-50-M72X2	50	315	48	60	M72X2	24	178	100	110	135.5	55	115	14	17	80

**DIN 2353 LIGHT SERIES**

Part Number	DN	PN	LW	RA	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVS2-04-M12X1.5-06L	04	500	4	6	M12X1.5	10	67	37	28	44.5	13	32	8	9	22
BVS2-06-M14X1.5-08L	06	500	6	8	M14X1.5	10	67	37	28	44.5	13	32	8	9	22
BVS2-08-M16X1.5-10L	08	500	8	10	M16X1.5	11	74	42	32	52.5	17	40	8	9	27
BVS2-10-M18X1.5-12L	10	500	10	12	M18X1.5	11	74	42	32	52.5	17	40	8	9	27
BVS2-12-M22X1.5-15L-SW9	12	500	13	15	M22X1.5	12	82	48	35	52.5	17	40	8	9	30
BVS2-12-M22X1.5-15L-SW12	12	400	13	15	M22X1.5	12	82	47	38	63.5	19	46	11	12	32
BVS2-12-M26X1.5-18L-SW9	12	500	13	18	M26X1.5	12	82	48	35	52.5	17	40	8	9	30
BVS2-16-M26X1.5-18L-SW12	16	400	15	18	M26X1.5	12	82	47	38	63.5	19	46	11	12	32
BVS2-19-M30X2-22L	19	315	19	22	M30X2	14	101	60	48	75	24	57	12	14	41
BVS2-25-M36X2-28L	25	315	25	28	M36X2	14	108	65	57	82	28.5	64	12	14	50
BVS2-25-M45X2-35L	25	315	25	35	M45X2	16	112	65	60	82	28.5	64	12	14	50
BVS2(O)-32-M45X2-35L	32	315	30	35	M45X2	16	141	84	82	108	41	87.5	14	17	60
BVS2(O)-40-M52X2-42L	40	315	38	42	M52X2	16	162	91	93	119.5	46.5	99	14	17	70



## DIN 2353 HEAVY SERIES

Part Number	DN	PN	LW	RA	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVS2-04-M16X1.5-08S	04	500	5	8	M16X1.5	12	73	37	28	44.5	13	32	8	9	22
BVS2-06-M18X1.5-10S	06	500	6	10	M18X1.5	12	73	37	28	44.5	13	32	8	9	22
BVS2-08-M20X1.5-12S	08	500	8	12	M20X1.5	12	76	42	32	52.5	17	40	8	9	27
BVS2-10-M22X1.5-14S	10	500	10	14	M22X1.5	14	80	42	32	52.5	17	40	8	9	27
BVS2-12-M24X1.5-16S-SW9	12	500	13	16	M24X1.5	14	86	48	35	52.5	17	40	8	9	30
BVS2-12-M24X1.5-16S-SW12	12	400	13	16	M24X1.5	14	86	47	38	63.5	19	46	11	12	32
BVS2-12-M30X2-20S-SW9	12	500	13	20	M30X2	16	90	48	35	52.5	17	40	8	9	32
BVS2-16-M30X2-20S-SW12	16	400	15	20	M30X2	16	90	47	38	63.5	19	46	11	12	32
BVS2-19-M36X2-25S	19	315	20	25	M36X2	18	109	60	48	75	24	57	12	14	41
BVS2-25-M42X2-30S	25	315	25	30	M42X2	20	120	65	57	82	28.5	64	12	14	50
BVS2-25-M52X2-38S	25	315	25	38	M52X2	22	124	65	60	82	28.5	64	12	14	55
BVS2(O)-32-M52X2-38S	32	315	30	38	M52X2	22	153	84	82	108	41	87.5	14	17	60

## METRIC FEMALE THREAD

Part Number	DN	PN	LW	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVS2-06-M14X1.5	06	500	6	M14X1.5	14	69	37	28	44.5	13	32	8	9	22
BVS2-10-M18X1.5	10	500	10	M18X1.5	13	72	42	32	52.5	17	40	8	9	27
BVS2-12-M22X1.5	12	500	13	M22X1.5	15	83	48	35	52.5	17	40	8	9	30
BVS2-16-M22X1.5	16	400	15	M22X1.5	16	83	47	38	63.5	19	46	11	12	32
BVS2-19-M27X2	19	315	20	M27X2	18	95	60	48	75	24	57	12	14	41
BVS2-25-M33X2	25	315	25	M33X2	20	113	65	57	82	28.5	64	12	14	50
BVS2(O)-32-M42X2	32	315	30	M42X2	22	120	84	82	108	41	87.5	14	17	60
BVS2(O)-40-M48X2	40	315	38	M48X2	24	130	91	93	119.5	46.5	99	14	17	70
BVS2(O)-50-M60X2	50	315	48	M60X2	26	140	100	110	135.5	55	115	14	17	80

## ISO 7-1 FEMALE

Part Number	DN	PN	LW	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
BVS2-06-04Rc	06	500	6	Rc1/4	14	69	37	28	44.5	13	32	8	9	22
BVS2-10-06Rc	10	500	10	Rc3/8	14	72	42	32	52.5	17	40	8	9	27
BVS2-12-08Rc	12	500	13	Rc1/2	17	83	48	35	52.5	17	40	8	9	30
BVS2-19-12Rc	19	315	20	Rc3/4	20	95	60	48	75	24	57	12	14	41
BVS2-25-16Rc	25	315	25	Rc1	22.5	113	65	57	82	28.5	64	12	14	50
BVS2(O)-32-20Rc	32	315	30	Rc1 1/4	25	120	84	82	108	41	87.5	14	17	60
BVS2(O)-40-24Rc	40	315	38	Rc1 1/2	25	130	91	93	119.5	46.5	99	14	17	70
BVS2(O)-50-32Rc	50	315	48	Rc2	30	140	100	110	135.5	55	115	14	17	80





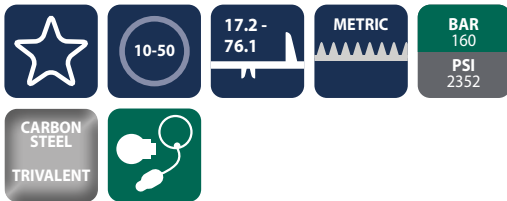
## Two-way high-pressure ball valves

### BVC2 Series (Weld Ends - Rated 160 bar)



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC2 Series



#### SPECIFICATIONS

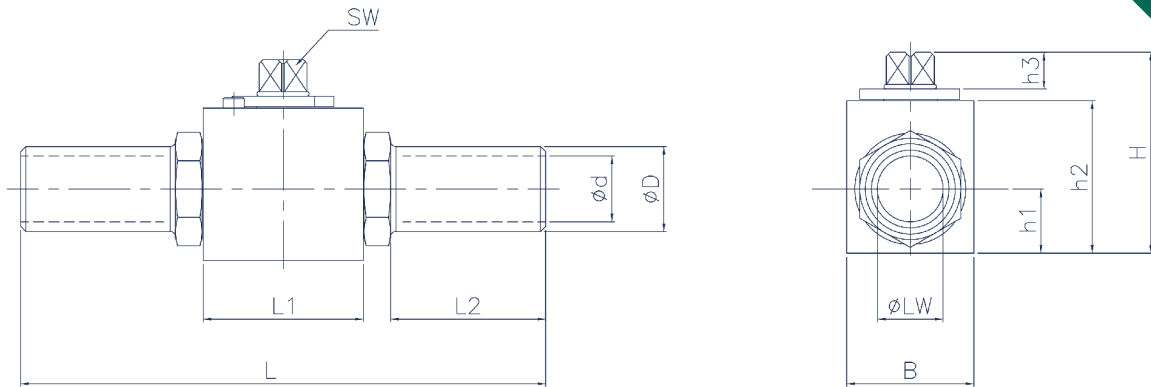
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - Square Body (DN10-25)
- BVC2(O) - Ball Valve - Octagonal Body (DN32-50)

#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

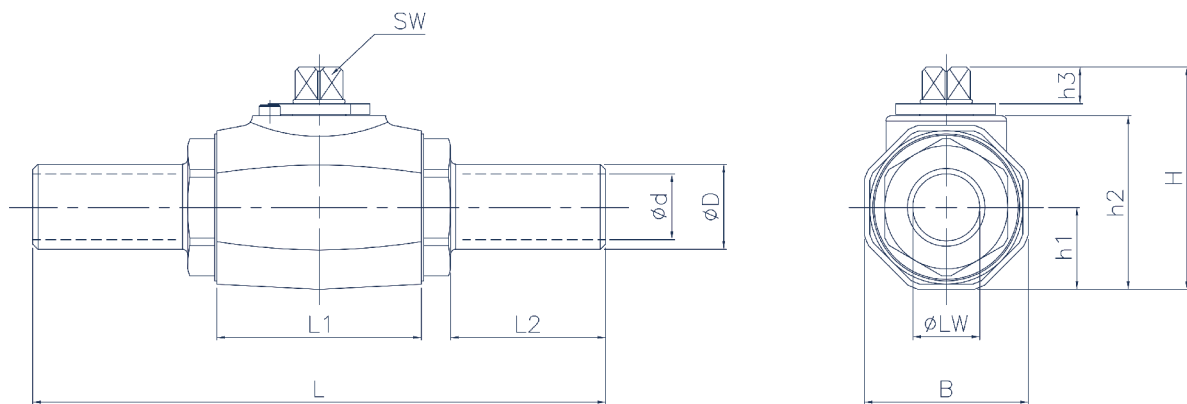
#### BVC2 PERFORMANCE CHARACTERISTICS

Body Size	BVC210	BVC212	BVC216	BVC219	BVC225	BVC232	BVC240	BVC250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM							
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	500 7250	500 7250	400 5800	315 4568
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	2000 29000	2000 29000	1600 23200	1260 18270
Rated flow	3 0.8	12 3.2	18 4.75	23 6.1	45 12	50 13.2	74 20	100 26.4



### WELD ENDS (Rated 160 Bar)

Part Number	DN	PN	LW	L	L1	L2	B	H	h1	h2	h3	d	D	SW
BVC2-10-WE-17.2-10	10	160	10	150	42	42	32	52.5	17	40	8	10	17.2	9
BVC2-12-WE-21.3-13	12	160	13	180	48	51	35	52.5	17	40	8	13	21.3	9
BVC2-16-WE-21.3-15	16	160	15	180	47	55	38	63.5	19	46	11	15	21.3	12
BVC2-19-WE-26.9-20	19	160	20	200	60	50	48	75	24	57	12	20	26.9	14
BVC2-19-WE-33.7-25	19	160	20	200	60	50	48	75	24	57	12	25	33.7	14
BVC2-25-WE-33.7-25	25	160	25	210	65	51	57	82	28.5	64	12	25	33.7	14
BVC2-25-WE-42.2-30	25	160	25	210	65	51	57	82	28.5	64	12	30	42.2	14



### WELD ENDS (Rated 160 Bar)

Part Number	DN	PN	LW	L	L1	L2	B	H	h1	h2	h3	d	D	SW
BVC2(O)-32-WE-42.2-30	32	160	30	260	84	70	82	108	41	87.5	14	30	42.2	17
BVC2(O)-32-WE-48.3-38	32	160	30	260	84	70	82	108	41	87.5	14	38	48.3	17
BVC2(O)-40-WE-48.3-38	40	160	38	270	91	72	93	119.5	46.5	99	14	38	48.3	17
BVC2(O)-40-WE-60.3-48	40	160	38	270	91	72	93	119.5	46.5	99	14	48	60.3	17
BVC2(O)-50-WE-60.3-48	50	160	48	300	100	72	110	135.5	55	115	14	48	60.3	17
BVC2(O)-50-WE-76.1-63	50	160	48	300	100	72	110	135.5	55	115	14	63	76.1	17





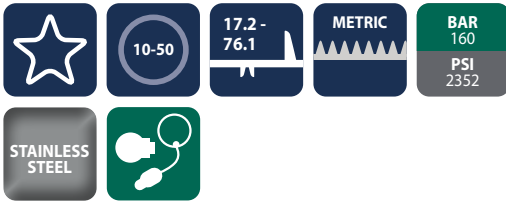
## Two-way high-pressure ball valves

### BVS2 Series (Weld Ends - Rated 160 Bar)



#### INTRODUCTION

Holmbury's BVS2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS2 Series

#### SPECIFICATIONS

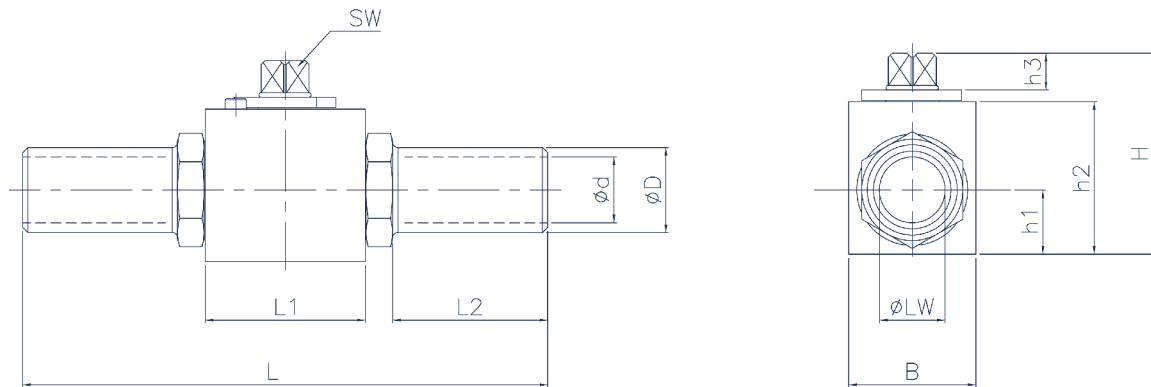
- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - Square Body (DN10-25)
- BVS2(O) - Ball Valve - Octagonal Body (DN32-50)

#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

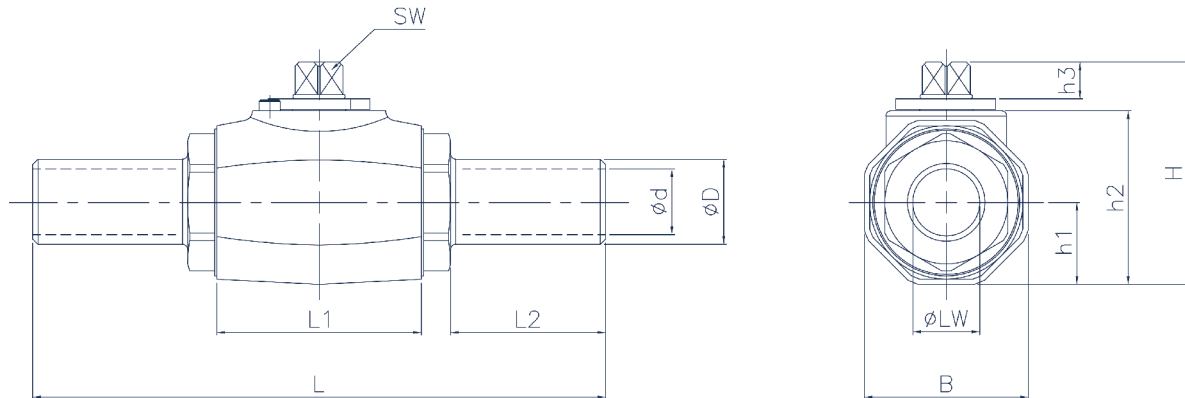
#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS210	BVS212	BVS216	BVS219	BVS225	BVS232	BVS240	BVS250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM							
Maximum working pressure	500 7250	500 7250	400 5800	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	1600 23200	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	23 6.1	45 12	74 20	100 26.4	189 50	250 66	379 100	757 200



### WELD ENDS (Rated 160 Bar)

Part Number	DN	PN	LW	L	L1	L2	B	H	h1	h2	h3	d	D	SW
BVS2-10-WE-17.2-10	10	160	10	150	42	42	32	52.5	17	40	8	10	17.2	9
BVS2-12-WE-21.3-13	12	160	13	180	48	51	35	52.5	17	40	8	13	21.3	9
BVS2-16-WE-21.3-15	16	160	15	180	47	55	38	63.5	19	46	11	15	21.3	12
BVS2-19-WE-26.9-20	19	160	20	200	60	50	48	75	24	57	12	20	26.9	14
BVS2-19-WE-33.7-25	19	160	20	200	60	50	48	75	24	57	12	25	33.7	14
BVS2-25-WE-33.7-25	25	160	25	210	65	51	57	82	28.5	64	12	25	33.7	14
BVS2-25-WE-42.2-30	25	160	25	210	65	51	57	82	28.5	64	12	30	42.2	14



### WELD ENDS (Rated 160 Bar)

Part Number	DN	PN	LW	L	L1	L2	B	H	h1	h2	h3	d	D	SW
BVS2(O)-32-WE-42.2-30	32	160	30	260	84	70	82	108	41	87.5	14	30	42.2	17
BVS2(O)-32-WE-48.3-38	32	160	30	260	84	70	82	108	41	87.5	14	38	48.3	17
BVS2(O)-40-WE-48.3-38	40	160	38	270	91	72	93	119.5	46.5	99	14	38	48.3	17
BVS2(O)-40-WE-60.3-48	40	160	38	270	91	72	93	119.5	46.5	99	14	48	60.3	17
BVS2(O)-50-WE-60.3-48	50	160	48	300	100	72	110	135.5	55	115	14	48	60.3	17
BVS2(O)-50-WE-76.1-63	50	160	48	300	100	72	110	135.5	55	115	14	63	76.1	17





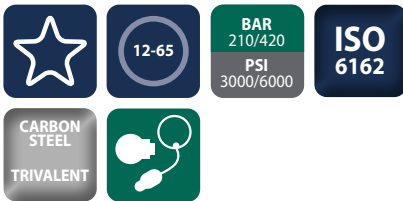
## Two-way high-pressure ball valves

### BVC2 (SAE Flange Head 61/62)



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### SPECIFICATIONS

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC2 Series



#### CONSTRUCTION

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - Square Body (DN12-25)
- BVC2(O) - Ball Valve - Octagonal Body (DN32-65)

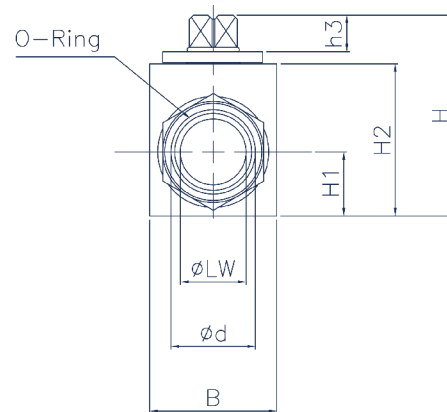
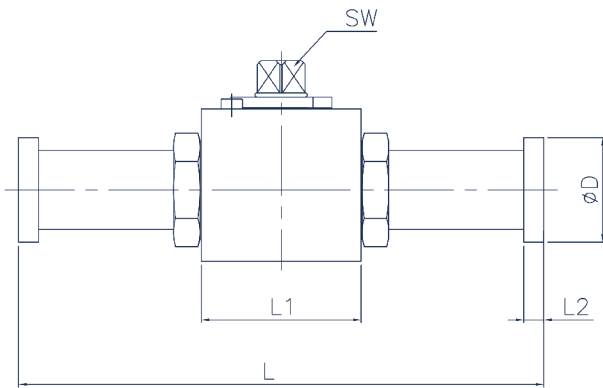
#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

Body Size	BVC212		BVC219		BVC225		BVC232		BVC240		BVC250		BVC265	
	FH1	FH2	FH1	FH2	FH1	FH2	FH1	FH2	FH1	FH2	FH1	FH2	FH1	FH2
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM													
Maximum working pressure	210	420	210	420	210	420	210	420	210	420	210	420	210	420
	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
Burst pressure	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680
	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360
Rated flow	45	45	100	100	189	189	250	250	379	379	757	757	1560	1560
	12	12	26.4	26.4	50	50	66	66	100	100	200	200	416	416



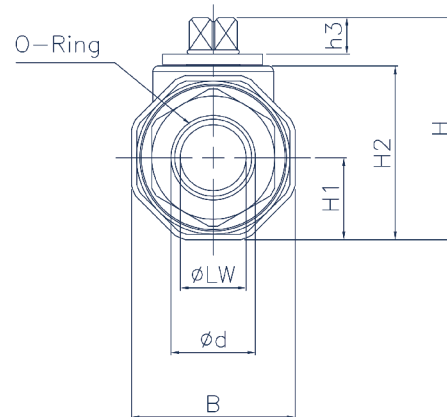
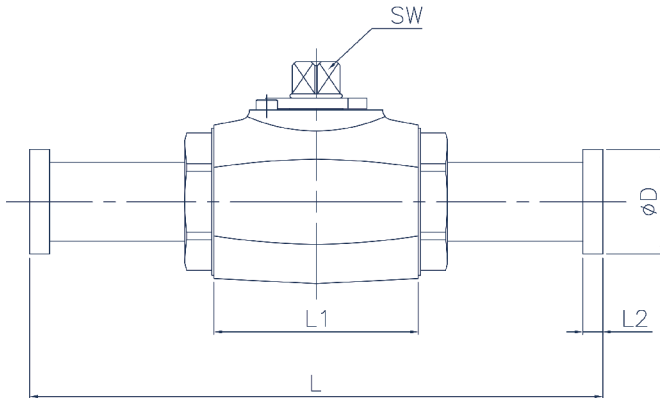


### SAE FLANGE HEAD (Rated 210 Bar)

Part Number	DN	PN	LW	L	L1	L2	H	H1	H2	h3	B	d	D	SW
BVC2-12-FH1	12	210	13	151	48	6.8	52.5	17	40	8	35	25.5	30.2	9
BVC2-19-FH1	19	210	19	162	60	6.8	75	24	57	12	48	31.9	38.1	14
BVC2-25-FH1	25	210	25	178	65	8.1	82	28.5	64	12	57	39.8	44.4	14

### SAE FLANGE HEAD (Rated 420 Bar)

Part Number	DN	PN	LW	L	L1	L2	H	H1	H2	h3	B	d	D	SW
BVC2-12-FH2	12	420	13	151	48	7.9	52.5	17	40	8	35	25.5	25.5	9
BVC2-19-FH2	19	315	19	174	60	8.9	75	24	57	12	48	31.9	41.3	14
BVC2-25-FH2	25	315	25	198	65	9.6	82	28.5	64	12	57	39.8	47.6	14



### SAE FLANGE HEAD (Rated 210 Bar)

Part Number	DN	PN	LW	L	L1	L2	H	H1	H2	h3	B	d	D	SW
BVC2(O)-32-FH1	32	210	30	191	84	8.1	108	41	87.5	14	82	44.5	50.8	17
BVC2(O)-40-FH1	40	210	38	231	91	8.1	119.5	46.5	99	14	93	54.1	60.3	17
BVC2(O)-50-FH1	50	210	48	232	100	9.6	135.5	55	115	14	110	63.6	71.4	17
BVC2(O)-65-FH1	65	175	60	270	110	9.6	154	68.5	133.5	14	137	75.8	84.1	17

### SAE FLANGE HEAD (Rated 420 Bar)

Part Number	DN	PN	LW	L	L1	L2	H	H1	H2	h3	B	d	D	SW
BVC2(O)-32-FH2	32	350	30	223	84	10.4	108	41	87.5	14	82	44.5	54	17
BVC2(O)-40-FH2	40	350	38	281	91	12.7	119.5	46.5	99	14	93	54.1	63.5	17
BVC2(O)-50-FH2	50	350	48	316	100	12.7	135.5	55	115	14	110	63.6	79.4	17
BVC2(O)-65-FH2	65	315	60	370	110	21.2	158	72.5	137.5	14	145	75.8	108.1	17





## Two-way high-pressure ball valves

### BVS2 (SAE Flange Head 61/62)



#### INTRODUCTION

Holmbury's BVS2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS2 Series

#### SPECIFICATIONS

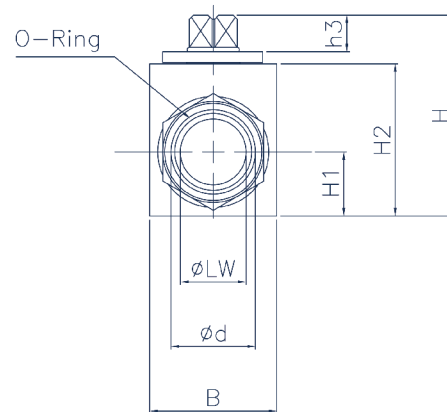
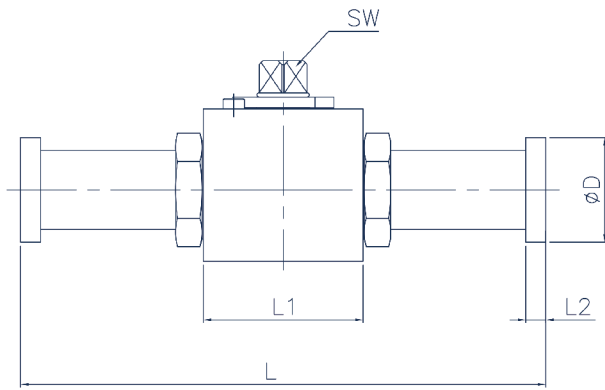
- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - Square Body (DN12-25)
- BVS2(O) - Ball Valve - Octagonal Body (DN32-65)

#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS212		BVS219		BVS225		BVS232		BVS240		BVS250		BVS265	
	FH1	FH2	FH1	FH2	FH1	FH2	FH1	FH2	FH1	FH2	FH1	FH2	FH1	FH2
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM													
Maximum working pressure	210	420	210	420	210	420	210	420	210	420	210	420	210	420
	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
Burst pressure	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680
	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360
Rated flow	45	45	100	100	189	189	250	250	379	379	757	757	1560	1560
	12	12	26.4	26.4	50	50	66	66	100	100	200	200	416	416

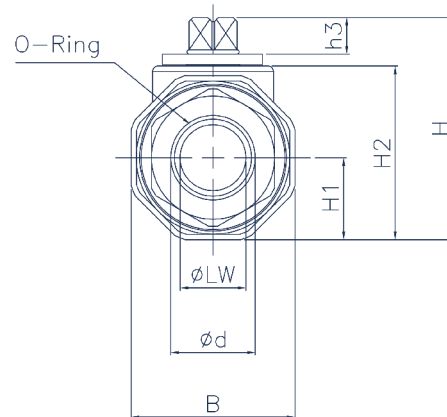
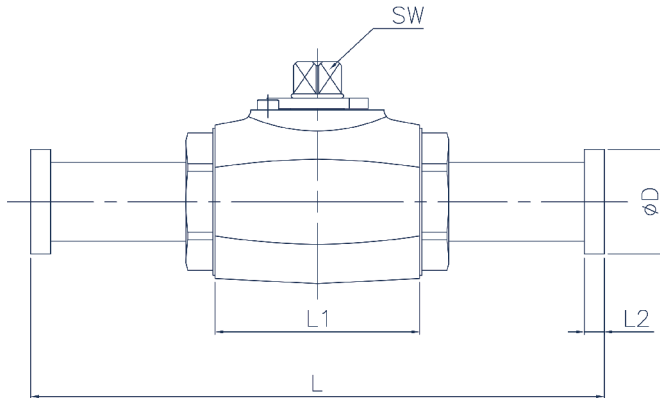


### SAE FLANGE HEAD (Rated 210 Bar)

Part Number	DN	PN	LW	L	L1	L2	H	H1	H2	h3	B	d	D	SW
BVS2-12-FH1	12	210	13	151	48	6.8	52.5	17	40	8	35	25.5	30.2	9
BVS2-19-FH1	19	210	19	162	60	6.8	75	24	57	12	48	31.9	38.1	14
BVS2-25-FH1	25	210	25	178	65	8.1	82	28.5	64	12	57	39.8	44.4	14

### SAE FLANGE HEAD (Rated 420 Bar)

Part Number	DN	PN	LW	L	L1	L2	H	H1	H2	h3	B	d	D	SW
BVS2-12-FH2	12	420	13	151	48	7.9	52.5	17	40	8	35	25.5	25.5	9
BVS2-19-FH2	19	315	19	174	60	8.9	75	24	57	12	48	31.9	41.3	14
BVS2-25-FH2	25	315	25	198	65	9.6	82	28.5	64	12	57	39.8	47.6	14



### SAE FLANGE HEAD (Rated 210 Bar)

Part Number	DN	PN	LW	L	L1	L2	H	H1	H2	h3	B	d	D	SW
BVS2(O)-32-FH1	32	210	30	191	84	8.1	108	41	87.5	14	82	44.5	50.8	17
BVS2(O)-40-FH1	40	210	38	231	91	8.1	119.5	46.5	99	14	93	54.1	60.3	17
BVS2(O)-50-FH1	50	210	48	232	100	9.6	135.5	55	115	14	110	63.6	71.4	17
BVS2(O)-65-FH1	65	175	60	270	110	9.6	154	68.5	133.5	14	137	75.8	84.1	17

### SAE FLANGE HEAD (Rated 420 Bar)

Part Number	DN	PN	LW	L	L1	L2	H	H1	H2	h3	B	d	D	SW
BVS2(O)-32-FH2	32	350	30	223	84	10.4	108	41	87.5	14	82	44.5	54	17
BVS2(O)-40-FH2	40	350	38	281	91	12.7	119.5	46.5	99	14	93	54.1	63.5	17
BVS2(O)-50-FH2	50	350	48	316	100	12.7	135.5	55	115	14	110	63.6	79.4	17
BVS2(O)-65-FH2	65	315	60	370	110	21.2	158	72.5	137.5	14	145	75.8	108.1	17





## Two-way high-pressure ball valves

### BVC2 ISO 6162 (SAE Flanged Port 61/62)



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC2 Series

#### SPECIFICATIONS

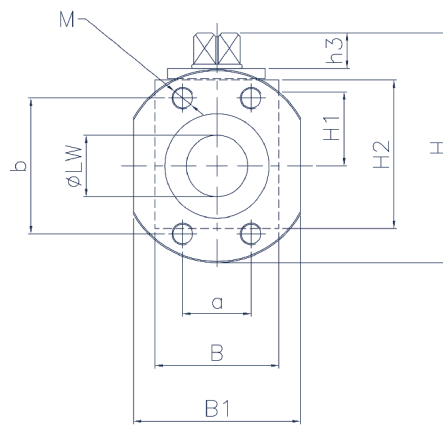
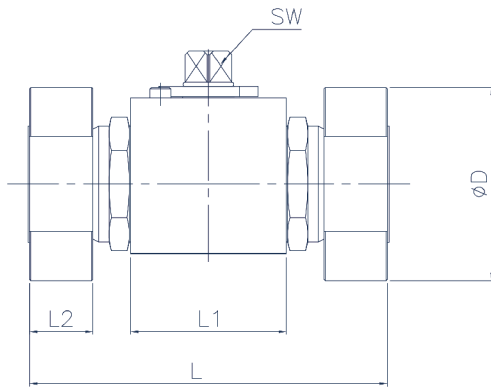
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - Square Body (DN12-25)
- BVC2(O) - Ball Valve - Octagonal Body (DN32-65)

#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

Body Size	BVC212		BVC219		BVC225		BVC232		BVC240		BVC250		BVC265	
	FP1	FP2	FP1	FP2	FP1	FP2	FP1	FP2	FP1	FP2	FP1	FP2	FP1	FP2
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM													
Maximum working pressure	210	420	210	420	210	420	210	420	210	420	210	420	210	420
	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
Burst pressure	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680
	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360
Rated flow	45	45	100	100	189	189	250	250	379	379	757	757	1560	1560
	12	12	26.4	26.4	50	50	66	66	100	100	200	200	416	416

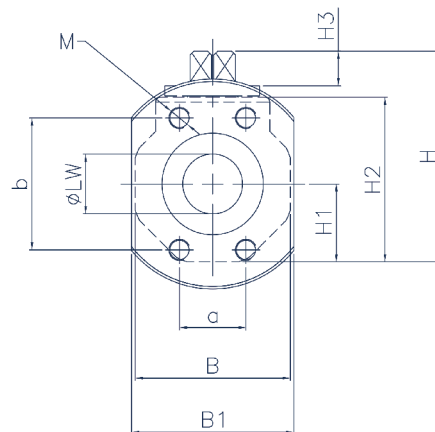
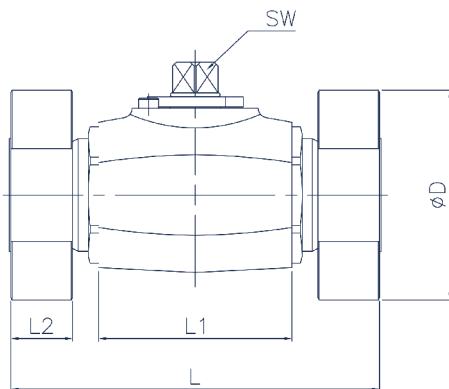


### SAE FLANGED PORT ISO 6162-1

Part Number	PN	LW	L	L1	L2	D	B	B1	H	H1	H2	h3	a	b	M	SW
BVC2-12-FP1	210	12	120	48	16	57	35	46	52.5	17	40	8	17.5	38.1	M8	9
BVC2-19-FP1	210	19	136	60	18	70	48	52	75	24	57	12	22.2	47.6	M10	14
BVC2-25-FP1	210	25	148	65	19	77	57	62	82	28.5	64	12	26.2	52.4	M10	14

### SAE FLANGED PORT ISO 6162-2

Part Number	PN	LW	L	L1	L2	D	B	B1	H	H1	H2	h3	a	b	M	SW
BVC2-12-FP2	420	12	120	48	22	61	35	48	52.5	17	40	8	18.2	40.5	M8	9
BVC2-19-FP2	315	19	136	60	23	76	48	60	75	24	57	12	23.8	50.8	M10	14
BVC2-25-FP2	315	25	148	65	27	86	57	70	82	28.5	64	12	27.8	57.2	M12	14



### SAE FLANGED PORT ISO 6162-1

Part Number	PN	LW	L	L1	L2	D	B	B1	H	H1	H2	h3	a	b	M	SW
BVC2(O)-32-M10-FP1	210	30	172	84	21	87	82	74	108	41	87.5	14	30.2	58.7	M10	17
BVC2(O)-32-M12-FP1	210	30	172	84	21	87	82	74	108	41	87.5	14	30.2	58.7	M12	17
BVC2(O)-40-FP1	210	38	177	91	24	103	93	86	119.5	46.5	99	14	35.7	69.8	M12	17
BVC2(O)-50-FP1	210	48	196	100	25	117	110	98	135.5	55	115	14	42.9	77.8	M12	17
BVC2(O)-50/65-FP1	210	48	196	100	25	128	110	114	135.5	55	115	14	50.8	88.9	M12	17
BVC2(O)-65-FP1	175	60	260	110	25	128	137	114	154	68.5	133.5	14	50.8	88.9	M12	17

### SAE FLANGED PORT ISO 6162-2

Part Number	PN	LW	L	L1	L2	D	B	B1	H	H1	H2	h3	a	b	M	SW
BVC2(O)-32-FP2	350	30	172	84	32	103	82	78	78	41	87.5	14	31.8	66.7	M14	17
BVC2(O)-40-FP2	350	38	177	91	32	120	93	96	96	46.5	99	14	36.5	79.4	M16	17
BVC2(O)-50-FP2	350	48	196	100	34	145	110	114	114	55	115	14	44.5	96.8	M20	17
BVC2(O)-65-FP2	315	60	280	110	45	195	145	150	150	72.5	137.5	14	58.7	123.8	M24	17





## Two-way high-pressure ball valves

### BVS2 ISO 6162 (SAE Flanged Port 61/62)



#### INTRODUCTION

Holmbury's BVS2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS2 Series

#### SPECIFICATIONS

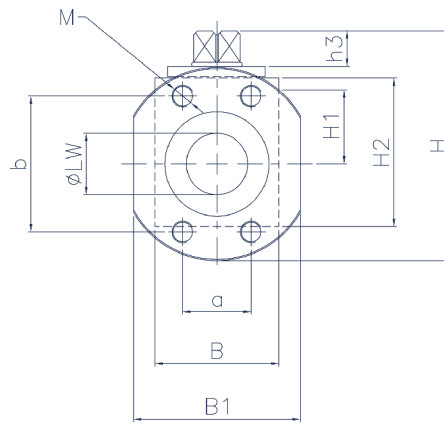
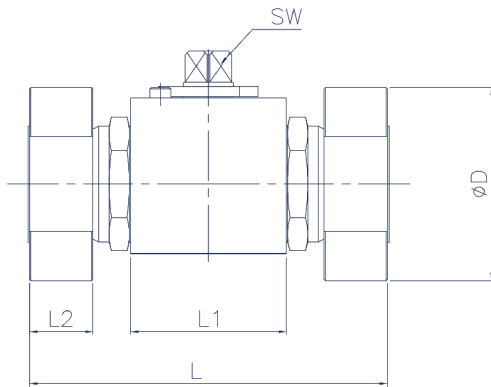
- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - Square Body (DN12-25)
- BVS2(O) - Ball Valve - Octagonal Body (DN32-65)

#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS212		BVS219		BVS225		BVS232		BVS240		BVS250		BVS265	
	FP1	FP2	FP1	FP2	FP1	FP2	FP1	FP2	FP1	FP2	FP1	FP2	FP1	FP2
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM													
Maximum working pressure	210	420	210	420	210	420	210	420	210	420	210	420	210	420
	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
Burst pressure	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680
	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360
Rated flow	45	45	100	100	189	189	250	250	379	379	757	757	1560	1560
	12	12	26.4	26.4	50	50	66	66	100	100	200	200	416	416

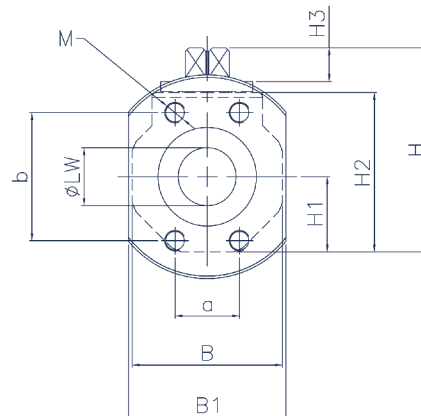
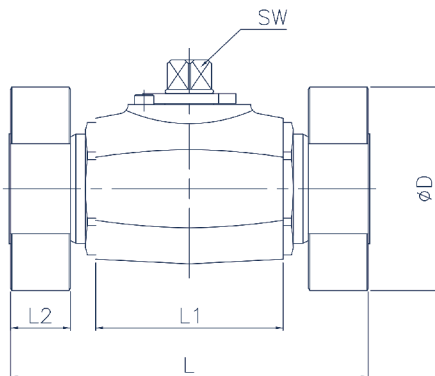


### SAE FLANGED PORT ISO 6162-1

Part Number	PN	LW	L	L1	L2	D	B	B1	H	H1	H2	h3	a	b	M	SW
BVS2-12-FP1	210	12	120	48	16	57	35	46	52.5	17	40	8	17.5	38.1	M8	9
BVS2-19-FP1	210	19	136	60	18	70	48	52	75	24	57	12	22.2	47.6	M10	14
BVS2-25-FP1	210	25	148	65	19	77	57	62	82	28.5	64	12	26.2	52.4	M10	14

### SAE FLANGED PORT ISO 6162-2

Part Number	PN	LW	L	L1	L2	D	B	B1	H	H1	H2	h3	a	b	M	SW
BVS2-12-FP1	420	12	120	48	22	61	35	48	52.5	17	40	8	18.2	40.5	M8	9
BVS2-19-FP1	315	19	136	60	23	76	48	60	75	24	57	12	23.8	50.8	M10	14
BVS2-25-FP1	315	25	148	65	27	86	57	70	82	28.5	64	12	27.8	57.2	M12	14



### SAE FLANGED PORT ISO 6162-1

Part Number	PN	LW	L	L1	L2	D	B	B1	H	H1	H2	h3	a	b	M	SW
BVS2(O)-32-M10-FP1	210	30	172	84	21	87	82	74	108	41	87.5	14	30.2	58.7	M10	17
BVS2(O)-32-M12-FP1	210	30	172	84	21	87	82	74	108	41	87.5	14	30.2	58.7	M12	17
BVS2(O)-40-FP1	210	38	177	91	24	103	93	86	119.5	46.5	99	14	35.7	69.8	M12	17
BVS2(O)-50-FP1	210	48	196	100	25	117	110	98	135.5	55	115	14	42.9	77.8	M12	17
BVS2(O)-50/65-FP1	210	48	196	100	25	128	110	114	135.5	55	115	14	50.8	88.9	M12	17
BVS2(O)-65-FP1	175	60	260	110	25	128	137	114	154	68.5	133.5	14	50.8	88.9	M12	17

### SAE FLANGED PORT ISO 6162-2

Part Number	PN	LW	L	L1	L2	D	B	B1	H	H1	H2	h3	a	b	M	SW
BVS2(O)-32-FP2	350	30	172	84	32	103	82	78	78	41	87.5	14	31.8	66.7	M14	17
BVS2(O)-40-FP2	350	38	177	91	32	120	93	96	96	46.5	99	14	36.5	79.4	M16	17
BVS2(O)-50/65-FP2	350	48	196	100	34	145	110	114	114	55	115	14	44.5	96.8	M20	17
BVS2(O)-65-FP2	315	60	280	110	45	195	145	150	150	72.5	137.5	14	58.7	123.8	M24	17





## Two-way high-pressure ball valves

### BVC2 ISO 6162 (Integrated SAE Flanged Port 61/62)



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC2 Series



#### SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - (DN12-125)

#### APPLICATIONS

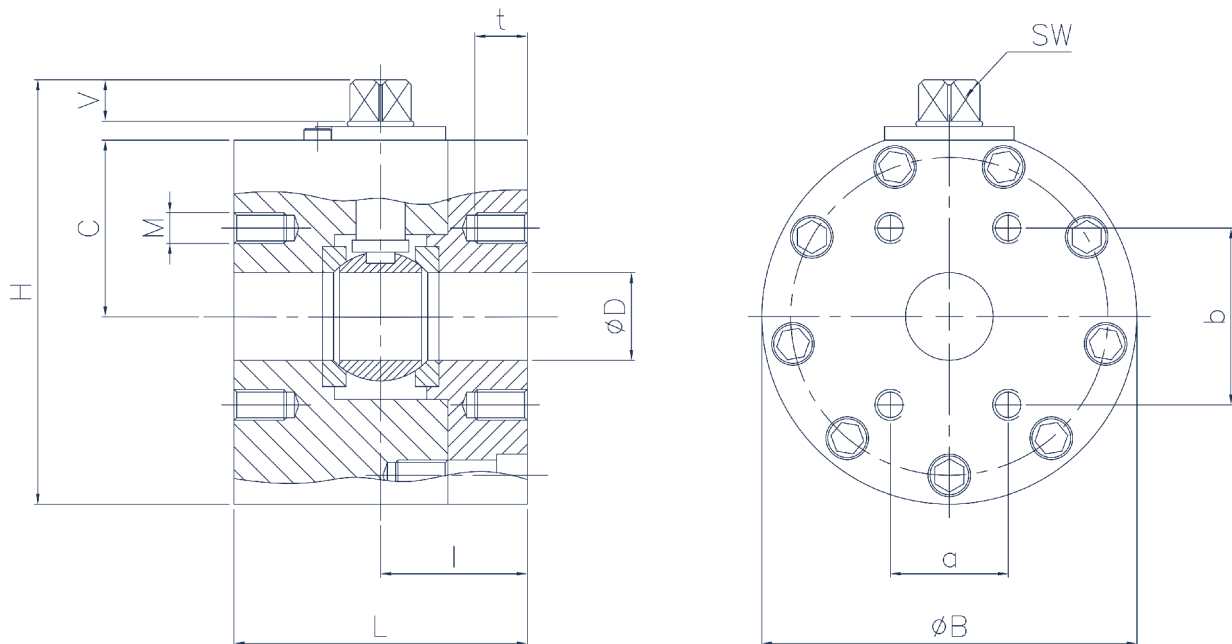
- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

Body Size	BVC212		BVC219		BVC225		BVC232		BVC240		BVC250		BVC265	
	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM													
Maximum working pressure	210	420	210	420	210	420	210	420	210	420	210	420	210	420
	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
Burst pressure	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680
	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360
Rated flow	45	45	100	100	189	189	250	250	379	379	757	757	1560	1560
	12	12	26.4	26.4	50	50	66	66	100	100	200	200	416	416

For larger bore sizes please contact our sales team





### BVC2 (Integrated SAE Flange) 210 Bar

Part Number	DN	D	L	I	B	C	H	V	SW	a	b	M	t
BVC2-12-FP1-C	12	15	75	35	78	31	83	11	12	17.5	38.1	M8	16
BVC2-19-FP1-C	19	20	80	35	98	37	100	12	14	22.2	47.6	M10	18
BVC2-25-FP1-C	25	25	88	38	117	39.5	113	12	14	26.2	52.4	M10	18
BVC2-32-M10-FP1-C	32	30	100	50	145	68	160	14	17	30.2	58.7	M10	20
BVC2-32-M12-FP1-C	32	30	100	50	145	68	160	14	17	30.2	58.7	M12	20
BVC2-40-FP1-C	40	38	110	55	165	78	180	14	17	35.7	69.8	M12	20
BVC2-50-FP1-C	50	48	116	58	197	94	213	14	17	42.9	77.8	M12	20
BVC2-65-FP1-C	65	60	150	75	197	92	209	14	17	50.8	88.9	M12	20

### BVC2 (Integrated SAE Flange) 420 Bar

Part Number	DN	D	L	I	B	C	H	V	SW	a	b	M	t
BVC2-12-FP2-C	12	15	75	35	78	31	83	11	12	18.2	40.5	M8	16
BVC2-19-FP2-C	19	20	80	35	98	37	100	12	14	23.8	50.8	M10	18
BVC2-25-FP2-C	25	25	88	38	117	39.5	113	12	14	27.8	57.2	M12	20
BVC2-32-FP2-C	32	30	100	50	145	68	160	14	17	31.8	66.7	M14	22
BVC2-40-FP2-C	40	38	110	55	165	78	180	14	17	36.5	79.4	M16	24
BVC2-50-FP2-C	50	48	116	58	197	94	213	14	17	44.5	96.8	M20	28



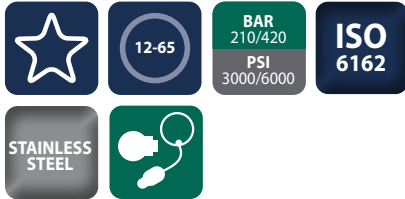
## Two-way high-pressure ball valves

### BVS2 ISO 6162 (Integrated SAE Flanged Port 61/62)



#### INTRODUCTION

Holmbury's BVS2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS2 Series



#### SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - (DN12-125)

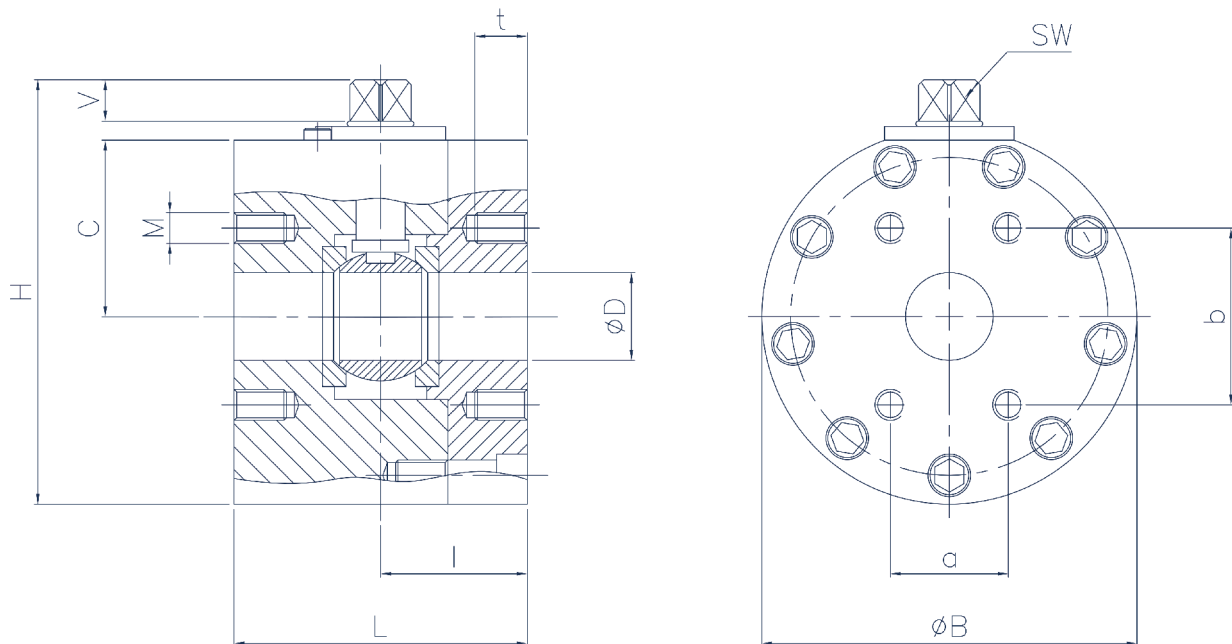
#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS212		BVS219		BVS225		BVS232		BVS240		BVS250		BVS265	
	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C	FP1-C	FP2-C
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM													
Maximum working pressure	210	420	210	420	210	420	210	420	210	420	210	420	210	420
	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
Burst pressure	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680
	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360
Rated flow	45	45	100	100	189	189	250	250	379	379	757	757	1560	1560
	12	12	26.4	26.4	50	50	66	66	100	100	200	200	416	416

For larger bore sizes please contact our sales team



### BVS2 (Integrated SAE Flange) 210 Bar

Part Number	DN	D	L	I	B	C	H	V	SW	a	b	M	t
BVS2-12-FP1-C	12	15	75	35	78	31	83	11	12	17.5	38.1	M8	16
BVS2-19-FP1-C	19	20	80	35	98	37	100	12	14	22.2	47.6	M10	18
BVS2-25-FP1-C	25	25	88	38	117	39.5	113	12	14	26.2	52.4	M10	18
BVS2-32-M10-FP1-C	32	30	100	50	145	68	160	14	17	30.2	58.7	M10	20
BVS2-32-M12-FP1-C	32	30	100	50	145	68	160	14	17	30.2	58.7	M12	20
BVS2-40-FP1-C	40	38	110	55	165	78	180	14	17	35.7	69.8	M12	20
BVS2-50-FP1-C	50	48	116	58	197	94	213	14	17	42.9	77.8	M12	20
BVS2-65-FP1-C	65	60	150	75	197	92	209	14	17	50.8	88.9	M12	20

### BVS2 (Integrated SAE Flange) 420 Bar

Part Number	DN	D	L	I	B	C	H	V	SW	a	b	M	t
BVS2-12-FP2-C	12	15	75	35	78	31	83	11	12	18.2	40.5	M8	16
BVS2-19-FP2-C	19	20	80	35	98	37	100	12	14	23.8	50.8	M10	18
BVS2-25-FP2-C	25	25	88	38	117	39.5	113	12	14	27.8	57.2	M12	20
BVS2-32-FP2-C	32	30	100	50	145	68	160	14	17	31.8	66.7	M14	22
BVS2-40-FP2-C	40	38	110	55	165	78	180	14	17	36.5	79.4	M16	24
BVS2-50-FP2-C	50	48	116	58	197	94	213	14	17	44.5	96.8	M20	28



## Two-way high-pressure ball valves

### BVC2 (Integrated SAE Flanged Port - Flange Head 61/62)



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation
- Rotating flange

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC2 Series



#### SPECIFICATIONS

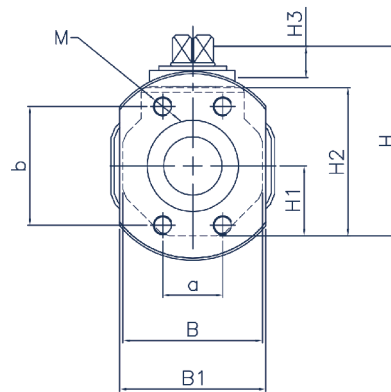
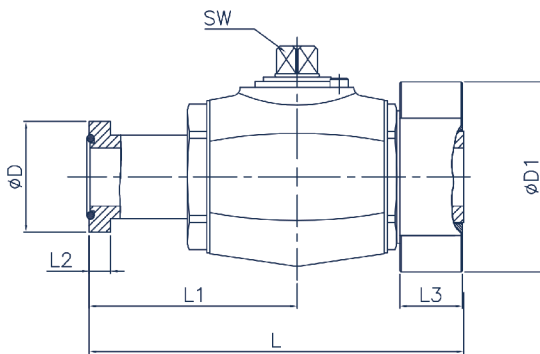
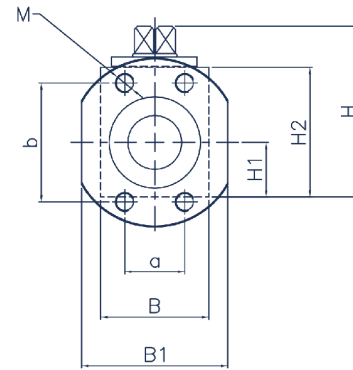
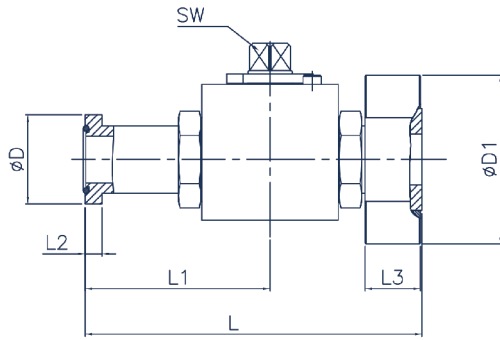
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - Square Body (DN12-25)
- BVC2(O) - Ball Valve - Octagonal Body (DN32-50)

#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

Body Size	BVC212		BVC219		BVC225		BVC232		BVC240		BVC250	
	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM											
Maximum working pressure	210	420	210	420	210	420	210	420	210	420	210	420
	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
Burst pressure	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680
	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360
Rated flow	45	45	100	100	189	189	250	250	379	379	757	757
	12	12	26.4	26.4	50	50	66	66	100	100	200	200



### BVC2 (SAE Integrated Flanged - Flange Head)

Part Number	DN	PN	L	L1	L2	L3	D	D1	a	b	M	B	B1	H	H1	H2	SW
BVC2-12-FP1-FH1	12	210	135.5	75.5	6.8	16	30.2	57	17.5	38.1	M8	35	46	52.5	17	40	9
BVC2-19-FP1-FH1	19	210	149	81	6.8	18	38.1	70	22.2	47.6	M10	48	52	75	14	57	14
BVC2-25-FP1-FH1	25	210	163	89	8.1	19	44.4	77	26.2	52.4	M10	57	62	82	28.5	64	14

### BVC2 (SAE Integrated Flanged - Flange Head)

Part Number	DN	PN	L	L1	L2	L3	D	D1	a	b	M	B	B1	H	H1	H2	SW
BVC2-12-FP2-FH2	12	420	135.5	75.5	7.9	22	31.8	61	18.2	40.5	M8	35	48	52.5	17	40	9
BVC2-19-FP2-FH2	19	315	155	87	8.9	23	41.3	76	23.8	50.8	M10	48	60	75	24	57	14
BVC2-25-FP2-FH2	25	315	173	99	9.6	27	47.6	86	27.8	57.2	M12	57	70	82	28.5	64	14

### BVC2 (SAE Integrated Flanged - Flange Head)

Part Number	DN	PN	L	L1	L2	L3	D	D1	a	b	M	B	B1	H	H1	H2	SW
BVC2(O)-32-M10-FP1-FH1	32	210	181.5	95.5	8.1	21	50.8	87	30.2	58.7	M10	82	74	108	41	87.5	17
BVC2(O)-32-M12-FP1-FH1	32	210	181.5	95.5	8.1	21	50.8	87	30.2	58.7	M12	82	74	108	41	87.5	17
BVC2(O)-40-FP1-FH1	40	210	204	115.5	8.1	24	60.3	103	35.7	69.8	M12	93	86	119.5	46.5	99	17
BVC2(O)-50-FP1-FH1	50	210	214	116	9.6	25	71.4	117	42.9	77.8	M12	110	98	135.5	55	115	17

### BVC2 (SAE Integrated Flanged - Flange Head)

Part Number	DN	PN	L	L1	L2	L3	D	D1	a	b	M	B	B1	H	H1	H2	SW
BVC2(O)-32-FP2-FH2	32	350	197.5	111.5	10.4	32	54	103	31.8	66.7	M14	82	78	108	41	87.5	17
BVC2(O)-40-FP2-FH2	40	350	229	140.5	12.7	32	63.5	120	36.5	79.4	M16	93	96	119.5	46.5	99	17
BVC2(O)-50-FP2-FH2	50	350	256	158	12.7	34	79.4	145	44.5	96.8	M20	110	114	135.5	55	115	17





## Two-way high-pressure ball valves

### BVS2 (Integrated SAE Flanged Port - Flange Head 61/62)



#### INTRODUCTION

Holmbury's BVS2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation
- Rotating flange

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS2 Series



#### SPECIFICATIONS

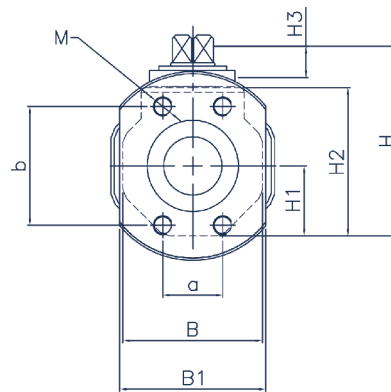
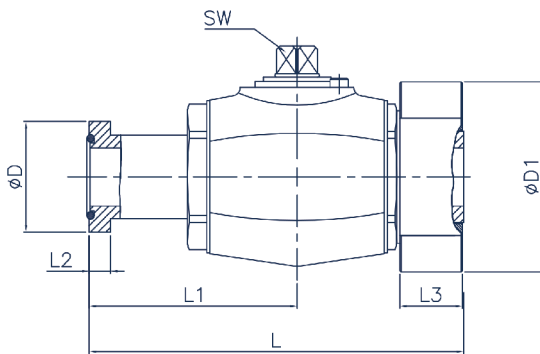
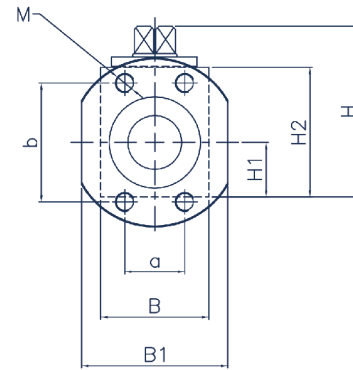
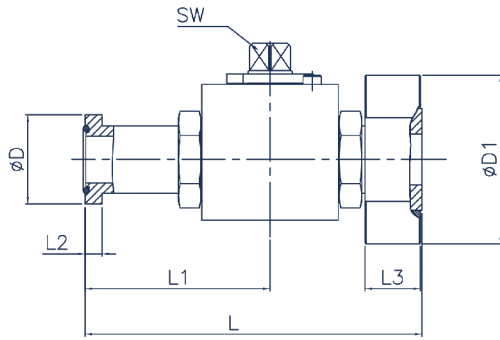
- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - Square Body (DN12-25)
- BVS2(O) - Ball Valve - Octagonal Body (DN32-50)

#### SPECIFICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS212		BVS219		BVS225		BVS232		BVS240		BVS250	
	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2	FP1-FH1	FP2-FH2
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM											
Maximum working pressure	210	420	210	420	210	420	210	420	210	420	210	420
	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000	3000	6000
Burst pressure	840	1680	840	1680	840	1680	840	1680	840	1680	840	1680
	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360	12180	24360
Rated flow	45	45	100	100	189	189	250	250	379	379	757	757
	12	12	26.4	26.4	50	50	66	66	100	100	200	200



### BVS2 (SAE Integrated Flanged - Flange Head)

Part Number	DN	PN	L	L1	L2	L3	D	D1	a	b	M	B	B1	H	H1	H2	SW
BVS2-12-FP1-FH1	12	210	135.5	75.5	6.8	16	30.2	57	17.5	38.1	M8	35	46	52.5	17	40	9
BVS2-19-FP1-FH1	19	210	149	81	6.8	18	38.1	70	22.2	47.6	M10	48	52	75	14	57	14
BVS2-25-FP1-FH1	25	210	163	89	8.1	19	44.4	77	26.2	52.4	M10	57	62	82	28.5	64	14

### BVS2 (SAE Integrated Flanged - Flange Head)

Part Number	DN	PN	L	L1	L2	L3	D	D1	a	b	M	B	B1	H	H1	H2	SW
BVS2-12-FP2-FH2	12	420	135.5	75.5	7.9	22	31.8	61	18.2	40.5	M8	35	48	52.5	17	40	9
BVS2-19-FP2-FH2	19	315	155	87	8.9	23	41.3	76	23.8	50.8	M10	48	60	75	24	57	14
BVS2-25-FP2-FH2	25	315	173	99	9.6	27	47.6	86	27.8	57.2	M12	57	70	82	28.5	64	14

### BVS2 (SAE Integrated Flanged - Flange Head)

Part Number	DN	PN	L	L1	L2	L3	D	D1	a	b	M	B	B1	H	H1	H2	SW
BVS2(O)-32-M10-FP1-FH1	32	210	181.5	95.5	8.1	21	50.8	87	30.2	58.7	M10	82	74	108	41	87.5	17
BVS2(O)-32-M12-FP1-FH1	32	210	181.5	95.5	8.1	21	50.8	87	30.2	58.7	M12	82	74	108	41	87.5	17
BVS2(O)-40-FP1-FH1	40	210	204	115.5	8.1	24	60.3	103	35.7	69.8	M12	93	86	119.5	46.5	99	17
BVS2(O)-50-FP1-FH1	50	210	214	116	9.6	25	71.4	117	42.9	77.8	M12	110	98	135.5	55	115	17

### BVS2 (SAE Integrated Flanged - Flange Head)

Part Number	DN	PN	L	L1	L2	L3	D	D1	a	b	M	B	B1	H	H1	H2	SW
BVS2(O)-32-FP2-FH2	32	350	197.5	111.5	10.4	32	54	103	31.8	66.7	M14	82	78	108	41	87.5	17
BVS2(O)-40-FP2-FH2	40	350	229	140.5	12.7	32	63.5	120	36.5	79.4	M16	93	96	119.5	46.5	99	17
BVS2(O)-50-FP2-FH2	50	350	256	158	12.7	34	79.4	145	44.5	96.8	M20	110	114	135.5	55	115	17





## Two-way high-pressure ball valves

### BVC2 (Flanged PN40)



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC2 Series



#### SPECIFICATIONS

- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - Square Body (DN16-25)
- BVC2(O) - Ball Valve - Octagonal Body (DN32-50)

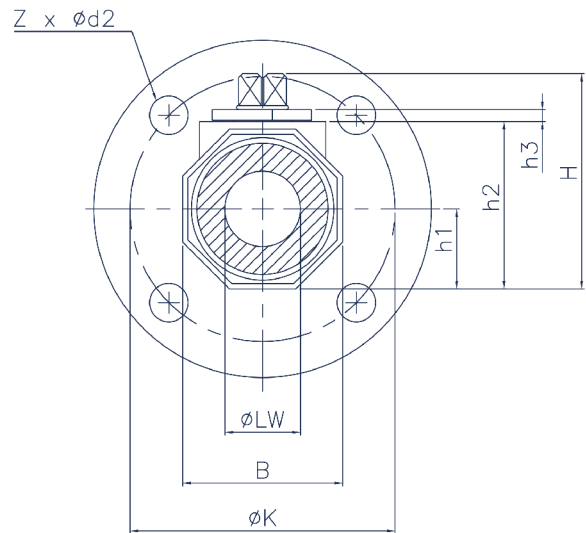
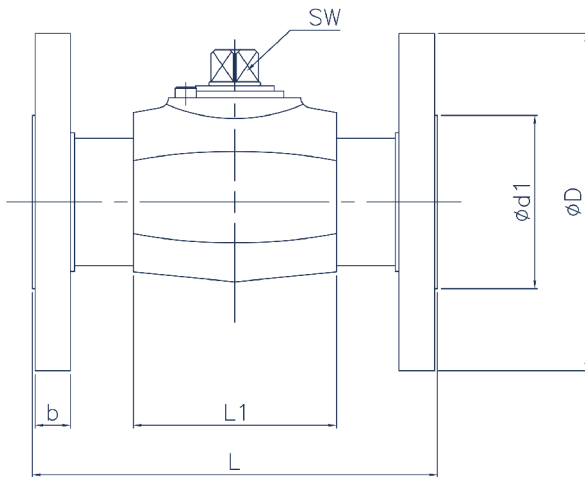
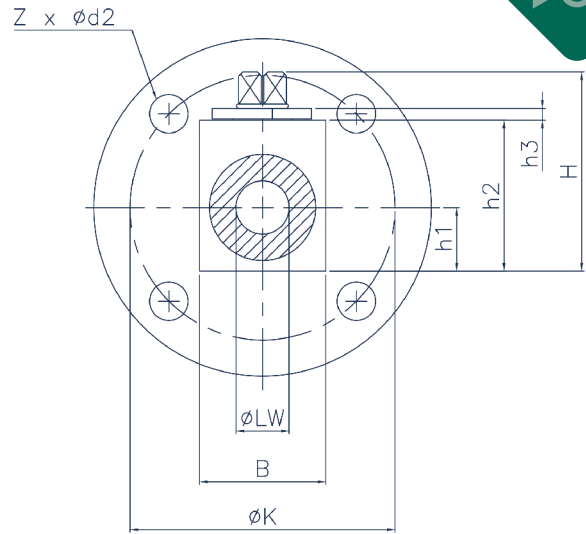
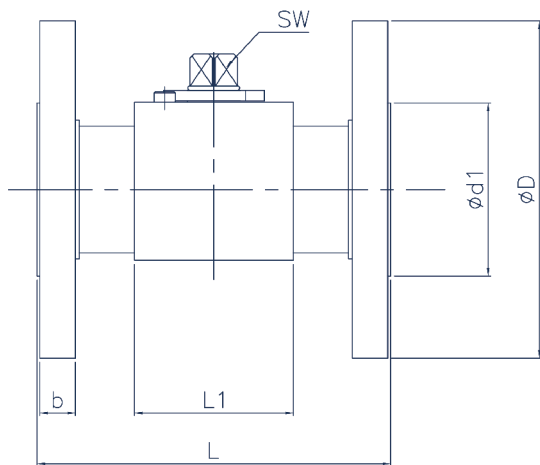
#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

Body Size	BVC216	BVC219	BVC225	BVC232	BVC240	BVC250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM					
Maximum working pressure	40 580	40 580	40 580	40 580	40 580	40 580
Burst pressure	160 2320	160 2320	160 2320	160 2320	160 2320	160 2320
Rated flow	74 20	100 26.4	189 50	250 66	379 100	757 200





### BVC2 (Flanged PN40)

Part Number	PN	LW	L	L1	D	d1	d2	Z	K	b	B	H	h1	h2	h3	SW
BVC2-16-PN40	40	15	130	47	95	45	14	4	65	14	38	63.5	19	46	11	12
BVC2-19-PN40	40	20	150	60	105	55	14	4	75	16	48	75	24	57	12	14
BVC2-25-PN40	40	25	160	65	115	65	14	4	85	16	57	82	28.5	64	12	14

### BVC2(O) (Flanged PN40)

Part Number	PN	LW	L	L1	D	d1	d2	Z	K	b	B	H	h1	h2	h3	SW
BVC2(O)-32-PN40-F1	40	30	180	84	138	78	18	4	100	16	75	104.5	37.5	84	14	17
BVC2(O)-40-PN40-F1	40	38	200	91	148	88	18	4	110	16	85	115.5	42.5	95	14	17
BVC2(O)-50-PN40-F1	40	48	230	100	165	102	18	4	125	18	105	133	52.5	112.5	14	17
BVC2(O)-32-PN40-F4	40	30	130	84	138	78	18	4	100	16	75	104.5	37.5	84	14	17
BVC2(O)-40-PN40-F4	40	38	140	91	148	88	18	4	110	16	85	115.5	42.5	95	14	17

F1 Denotes : DIN-EN558-1, FTF, Basic Range 1, Long Type DIN 3202-F1  
 F4 Denotes : DIN-EN558-1, FTF, Basic Range 14, Short Type DIN 3202-F4





## Two-way high-pressure ball valves

### BVS2 (Flanged PN40)



#### INTRODUCTION

Holmbury's BVS2 Series two-way high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS2 Series



#### SPECIFICATIONS

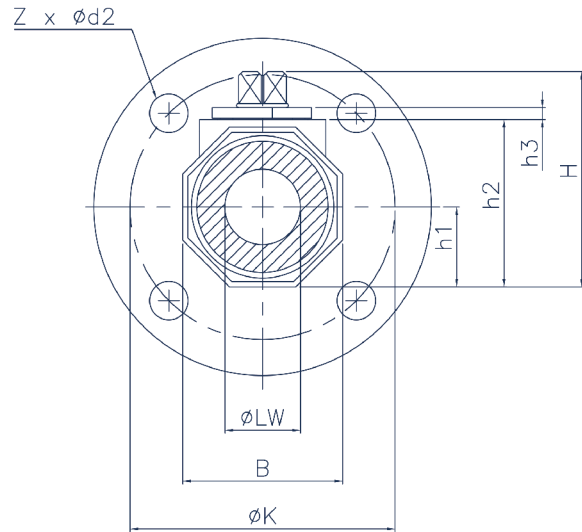
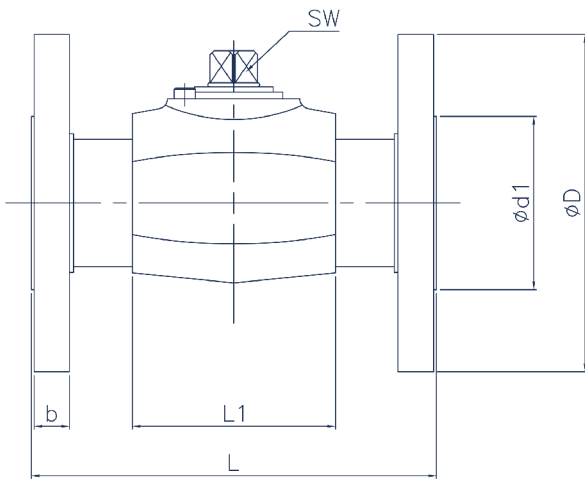
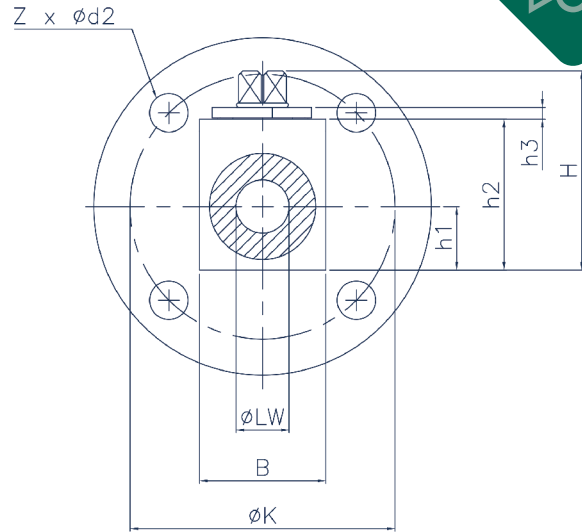
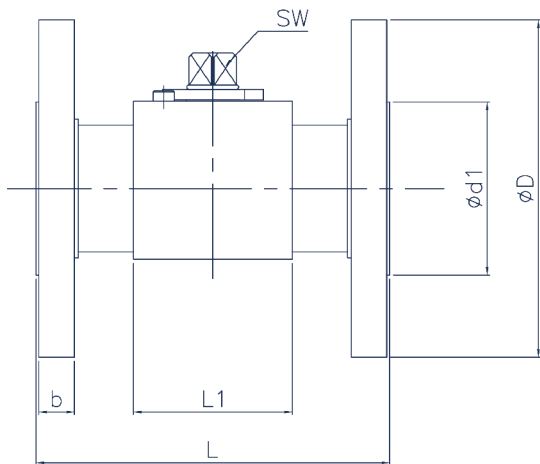
- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - Square Body (DN16-25)
- BVS2(O) - Ball Valve - Octagonal Body (DN32-50)

#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS216	BVS219	BVS225	BVS232	BVS240	BVS250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM					
Maximum working pressure	40 580	40 580	40 580	40 580	40 580	40 580
Burst pressure	160 2320	160 2320	160 2320	160 2320	160 2320	160 2320
Rated flow	74 20	100 26.4	189 50	250 66	379 100	757 200



**BVS2 (Flanged PN40)**

Part Number	PN	LW	L	L1	D	d1	d2	Z	K	b	B	H	h1	h2	h3	SW
BVS2-16-PN40	40	15	130	47	95	45	14	4	65	14	38	63.5	19	46	11	12
BVS2-19-PN40	40	20	150	60	105	55	14	4	75	16	48	75	24	57	12	14
BVS2-25-PN40	40	25	160	65	115	65	14	4	85	16	57	82	28.5	64	12	14

**BVS2(O) (Flanged PN40)**

Part Number	PN	LW	L	L1	D	d1	d2	Z	K	b	B	H	h1	h2	h3	SW
BVS2(O)-32-PN40-F1	40	30	180	84	138	78	18	4	100	16	75	104.5	37.5	84	14	17
BVS2(O)-40-PN40-F1	40	38	200	91	148	88	18	4	110	16	85	115.5	42.5	95	14	17
BVS2(O)-50-PN40-F1	40	48	230	100	165	102	18	4	125	18	105	133	52.5	112.5	14	17
BVS2(O)-32-PN40-F4	40	30	130	84	138	78	18	4	100	16	75	104.5	37.5	84	14	17
BVS2(O)-40-PN40-F4	40	38	140	91	148	88	18	4	110	16	85	115.5	42.5	95	14	17

F1 Denotes : DIN-EN558-1, FTF, Basic Range 1, Long Type DIN 3202-F1  
 F4 Denotes : DIN-EN558-1, FTF, Basic Range 14, Short Type DIN 3202-F4





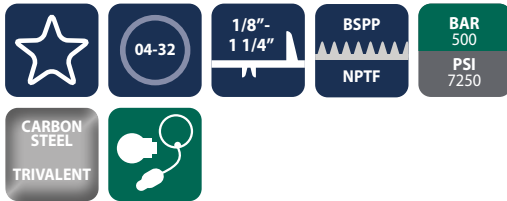
## Three and four way high-pressure ball valves

### BVC3, BVC4



#### INTRODUCTION

Holmbury's BVC3 and BVC4 Series high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS3, BVS4 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC3, BVC4 Series



#### SPECIFICATIONS

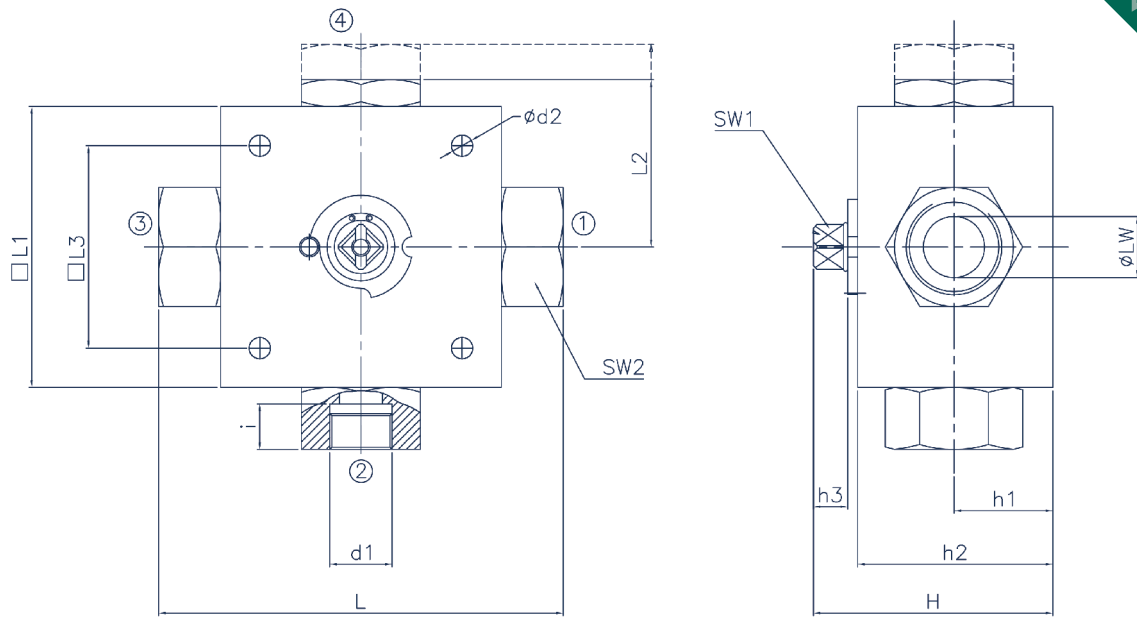
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC3 - Ball Valve - Square Body (DN04-32)
- BVC4 - Ball Valve - Square Body (DN04-32)

#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC3/4 PERFORMANCE CHARACTERISTICS

Body Size	BVC304 BVC404	BVC306 BVC406	BVC310 BVC410	BVC312 BVC412	BVC319 BVC419	BVC325 BVC425	BVC332 BVC432
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM						
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	1260 18270	1260 18270	1260 18270
Rated flow	3 0.8	12 3.2	23 6.1	45 12	100 26.4	189 50	250 66



### Part Number Example

Part Number Example	
BVC3D-12-08G-T	Configuration: 3 Way Ball Valve
	Pattern Type: 3D
	DN: 12
	Thread: 1/2 BSPP
	Ball Symbol: T

Ball Symbol
L
T
X

### Pattern Type

Pattern Type (See Drawing)	Description
3A	3 Way Ball Valve L Type - Reversing - 45 Deg Closure
3B	3 Way Ball Valve T Type - Reversing - 45 Deg Closure
3C	3 Way Ball Valve T Type 90 Deg - Reversing
3D	3 Way Ball Valve T Type 180 Deg - Reversing
3E	3 Way Ball Valve T Type 180 Deg - Reversing
3F	3 Way Ball Valve T Type 180 Deg - Reversing
4A	4 Way Ball Valve L Type 180 Deg - Reversing
4B	4 Way Ball Valve T Type 90 Deg - Reversing
4C	4 Way Ball Valve T Type 180 Deg - Reversing
4D	4 Way Ball Valve X Type 90 Deg - Reversing

### ISO 228/ Female

Part Number * add Pattern Type and Ball Symbol (See Above)	DN	LW			d1	d2	i	L	L1	L2	L3	H	h1	h2	h3	SW1	SW2
		L	T	X													
BVC_-04-02G-__	04	5	5	4.5	G1/8	6.5	10	100	70	42.5	55	57	22	40	11	12	24
BVC_-06-04G-__	06	5	5	4.5	G1/4	6.5	14	100	70	42.5	55	57	22	40	11	12	24
BVC_-10-06G-__	10	9	9	7	G3/8	6.5	14	115	80	46	65	68	27	50	12	14	30
BVC_-12-08G-__	12	12	12	10	G1/2	9	16	135	100	56	80	78	31	60	12	14	36
BVC_-19-12G-__	19	18	18	14	G3/4	9	18	144	100	58	85	93.5	36	73	14	17	46
BVC_-25-16G-__	25	23	23	17	G1	9	20.5	172	118	68.5	85	102.5	47.5	82	14	17	50
BVC_-32-20G-__	32	23	23	17	G1 1/4	9	22	180	118	68.5	85	102.5	47.5	82	14	17	55

For all other configurations or thread types please contact the sales office.  
Further technical information and 3D CAD models available from our sales office.

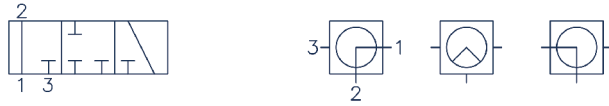




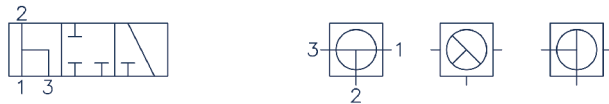
## Three and four way high-pressure ball valves

### Pattern Type

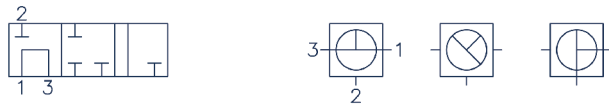
Pattern Type 3A : 3 Way Ball Valve L Type – Reversing – 45 Deg Closure



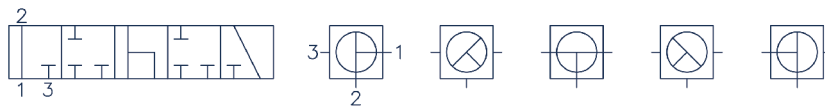
Pattern Type 3B : 3 Way Ball Valve T Type – Reversing – 45 Deg Closure



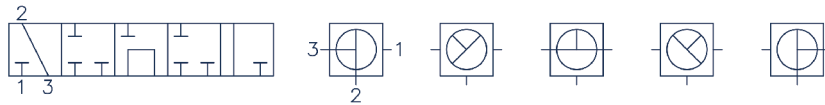
Pattern Type 3C : 3 Way Ball Valve T Type 90 Deg – Reversing



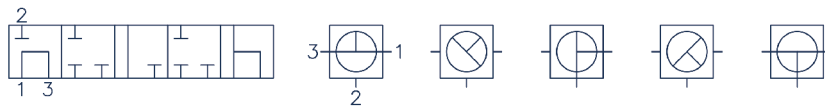
Pattern Type 3D : 3 Way Ball Valve T Type 180 Deg – Reversing



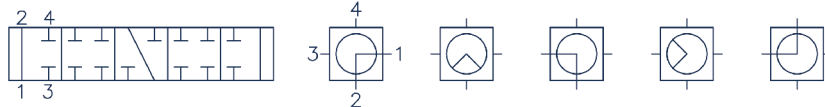
Pattern Type 3E : 3 Way Ball Valve T Type 180 Deg – Reversing



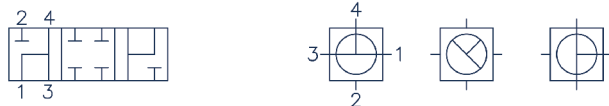
Pattern Type 3F : 3 Way Ball Valve T Type 180 Deg – Reversing



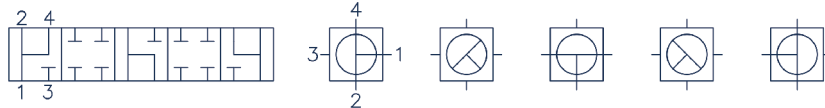
Pattern Type 4A : 4 Way Ball Valve L Type 180 Deg – Reversing



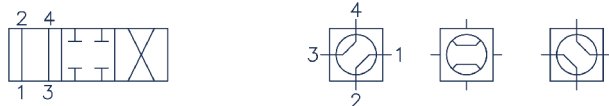
Pattern Type 4B : 4 Way Ball Valve T Type 90 Deg – Reversing



Pattern Type 4C : 4 Way Ball Valve T Type 180 Deg – Reversing



Pattern Type 4D : 4 Way Ball Valve X Type 90 Deg – Reversing





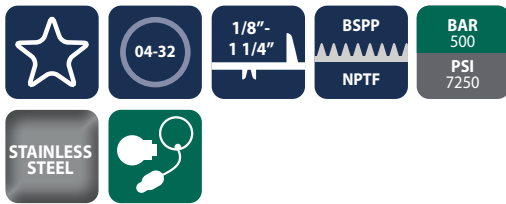
## Three and four way high-pressure ball valves

### BVS3, BVS4



#### INTRODUCTION

Holmbury's BVS3 and BVS4 Series high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC3, BVC4 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS3, BVS4 Series



#### SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS3 - Ball Valve - Square Body (DN04-32)
- BVS4 - Ball Valve - Square Body (DN04-32)

#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

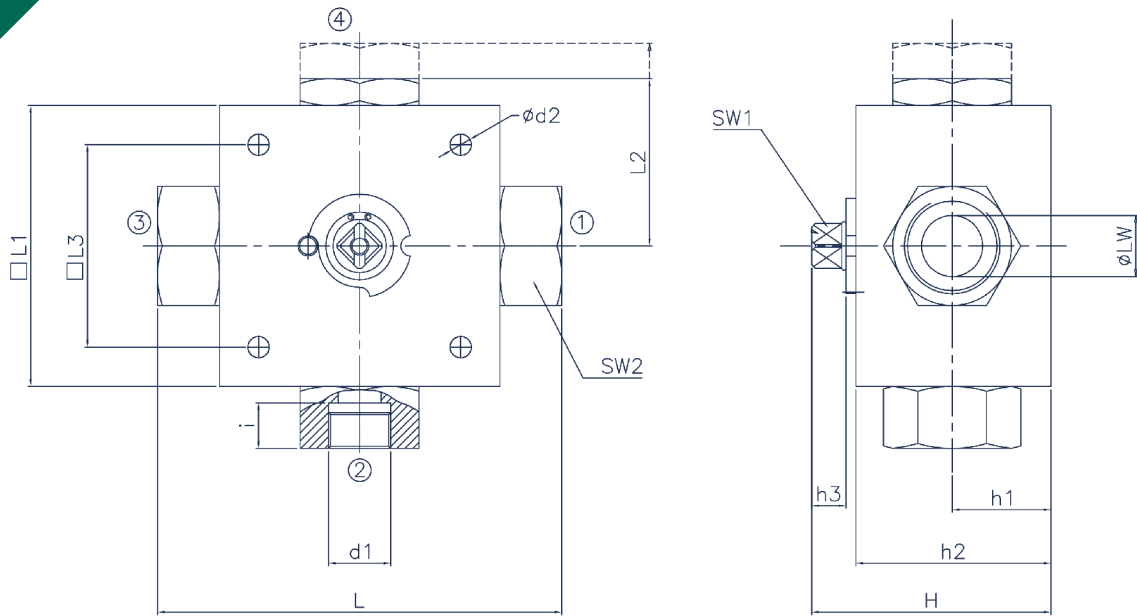
#### BVS3/4 PERFORMANCE CHARACTERISTICS

Body Size	BVS304 BVS404	BVS306 BVS406	BVS310 BVS410	BVS312 BVS412	BVS319 BVS419	BVS325 BVS425	BVS332 BVS432
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM						
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	1260 18270	1260 18270	1260 18270
Rated flow	3	12	23	45	100	189	250
	0.8	3.2	6.1	12	26.4	50	66





# Three and four way high-pressure ball valves



## Part Number Example

Part Number Example	
BVS3D-12-08G-T	Configuration: 3 Way Ball Valve
	Pattern Type: 3D
	DN: 12
	Thread: 1/2 BSPP
	Ball Symbol: T

Ball Symbol
L
T
X

## Pattern Type

Pattern Type (See Drawing)	Description
3A	3 Way Ball Valve L Type - Reversing - 45 Deg Closure
3B	3 Way Ball Valve T Type - Reversing - 45 Deg Closure
3C	3 Way Ball Valve T Type 90 Deg - Reversing
3D	3 Way Ball Valve T Type 180 Deg - Reversing
3E	3 Way Ball Valve T Type 180 Deg - Reversing
3F	3 Way Ball Valve T Type 180 Deg - Reversing
4A	4 Way Ball Valve L Type 180 Deg - Reversing
4B	4 Way Ball Valve T Type 90 Deg - Reversing
4C	4 Way Ball Valve T Type 180 Deg - Reversing
4D	4 Way Ball Valve X Type 90 Deg - Reversing

## ISO 228/ Female

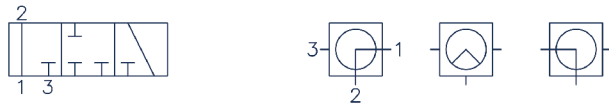
Part Number *add Pattern Type and Ball Symbol (See Above)	DN	LW			d1	d2	i	L	L1	L2	L3	H	h1	h2	h3	SW1	SW2
		L	T	X													
BVS_-04-02G-__	04	5	5	4.5	G1/8	6.5	10	100	70	42.5	55	57	22	40	11	12	24
BVS_-06-04G-__	06	5	5	4.5	G1/4	6.5	14	100	70	42.5	55	57	22	40	11	12	24
BVS_-10-06G-__	10	9	9	7	G3/8	6.5	14	115	80	46	65	68	27	50	12	14	30
BVS_-12-08G-__	12	12	12	10	G1/2	9	16	135	100	56	80	78	31	60	12	14	36
BVS_-19-12G-__	19	18	18	14	G3/4	9	18	144	100	58	85	93.5	36	73	14	17	46
BVS_-25-16G-__	25	23	23	17	G1	9	20.5	172	118	68.5	85	102.5	47.5	82	14	17	50
BVS_-32-20G-__	32	23	23	17	G1 1/4	9	22	180	118	68.5	85	102.5	47.5	82	14	17	55

For all other configurations or thread types please contact the sales office.  
Further technical information and 3D CAD models available from our sales office.

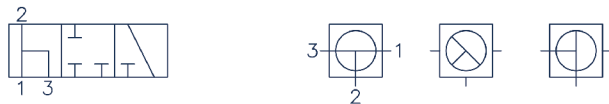


## Pattern Type

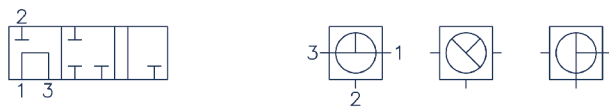
Pattern Type 3A : 3 Way Ball Valve L Type – Reversing – 45 Deg Closure



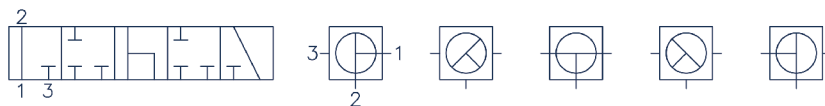
Pattern Type 3B : 3 Way Ball Valve T Type – Reversing – 45 Deg Closure



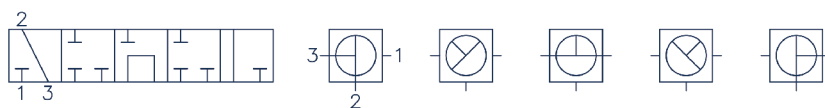
Pattern Type 3C : 3 Way Ball Valve T Type 90 Deg – Reversing



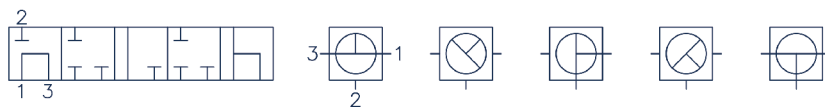
Pattern Type 3D : 3 Way Ball Valve T Type 180 Deg – Reversing



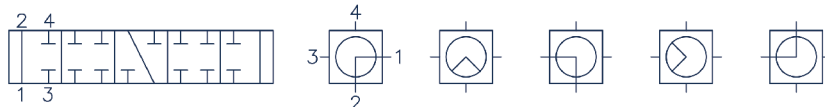
Pattern Type 3E : 3 Way Ball Valve T Type 180 Deg – Reversing



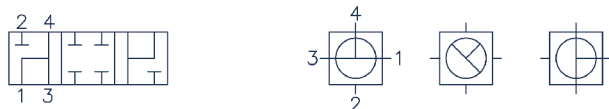
Pattern Type 3F : 3 Way Ball Valve T Type 180 Deg – Reversing



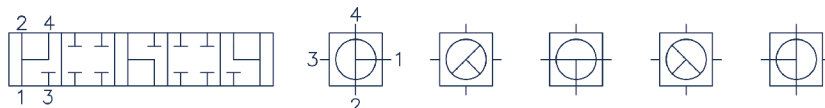
Pattern Type 4A : 4 Way Ball Valve L Type 180 Deg – Reversing



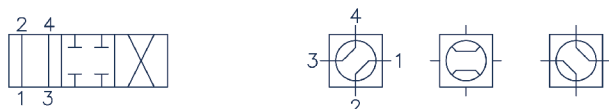
Pattern Type 4B : 4 Way Ball Valve T Type 90 Deg – Reversing



Pattern Type 4C : 4 Way Ball Valve T Type 180 Deg – Reversing



Pattern Type 4D : 4 Way Ball Valve X Type 90 Deg – Reversing





## Two-way high-pressure ball valves

### BVC2 (Manifold Type)



#### INTRODUCTION

Holmbury's BVC2 Series two-way manifold type high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC2 Series

#### SPECIFICATIONS

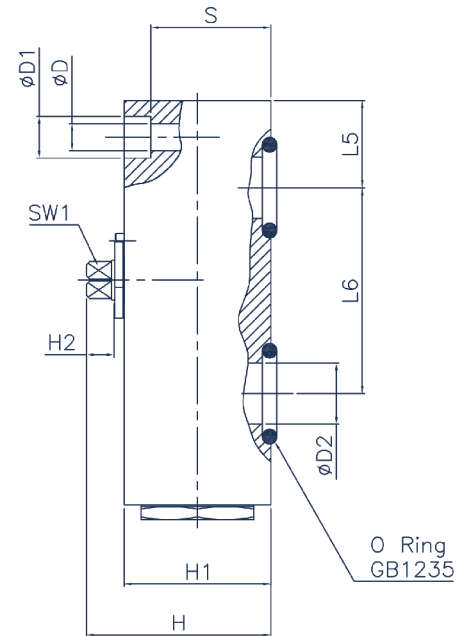
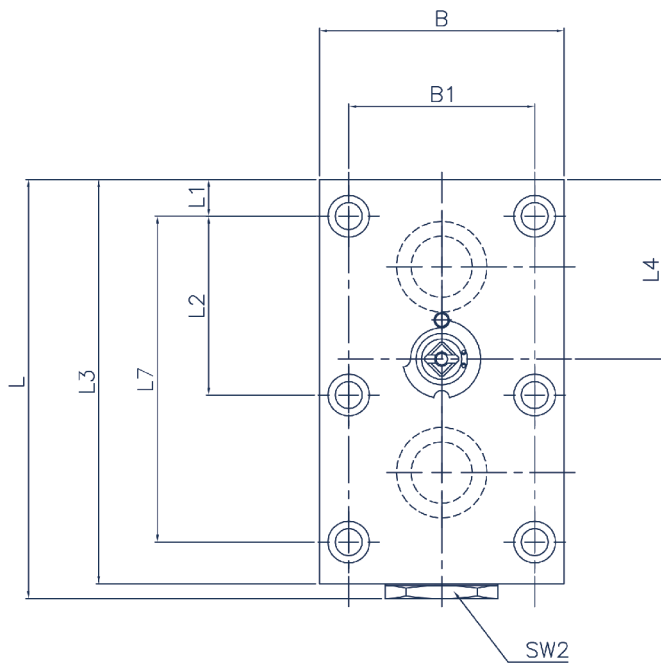
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - Square Body (DN06-50)

#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

Body Size	BVC2M06	BVC2M10	BVC2M16	BVC2M19	BVC2M25	BVC2M32	BVC2M40	BVC2M50
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM							
Maximum working pressure	500 7250	500 7250	400 5800	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	1600 23200	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	12 3.2	23 6.1	74 20	100 26.4	189 50	250 66	379 100	757 200



### BVC2 (Manifold Type)

Part Number	DN	PN	L	L1	L2	L3	L4	L5	L6	L7	B	B1	SW1	SW2	H	H1	H2	D	D1	D2	S	Ring GB1235
BVC2M-06	06	500	64	8.5	N/A	59	25	8.5	35	35	40	27	9	22	39	30	6	6.6	11	6	23	12x1.9
BVC2M-10	10	315	80	8	27.5	71	29.5	10.5	44	55	56	40	9	30	54.5	42	8	9	13.5	9.5	33	16x2.4
BVC2M-16	16	315	110	8.5	41.5	100	43.5	17	58	83	62	45	12	36	67.5	50	11	9	13.5	16	41	25x2.4
BVC2M-19	19	315	127	10	48.5	117	51	20	69	97	70	51	14	41	80	62	12	10.5	16.5	20	51	30x3.1
BVC2M-25	25	315	145	10	57.5	135	62	24	81	115	80	60	14	50	86	67	12	10.5	16.5	25	56	35x3.1
BVC2M-32	32	315	177	12	68	165	75	29	96	136	100	78	17	65	110	90	14	13	19	32	77	40x3.1
BVC2M-40	40	315	192	28.5	56	180	85.5	28.5	112	112	130	95	17	75	120	100	14	17.5	26	38	82	50x3.1
BVC2M-50	50	315	245	38	58	220	106	38	136	136	149	112	17	75	130	110	14	22	33	48	88	60x3.1



## Two-way high-pressure ball valves

### BVS2 (Manifold Type)



#### INTRODUCTION

Holmbury's BVS2 Series two-way manifold type high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS2 Series

#### SPECIFICATIONS

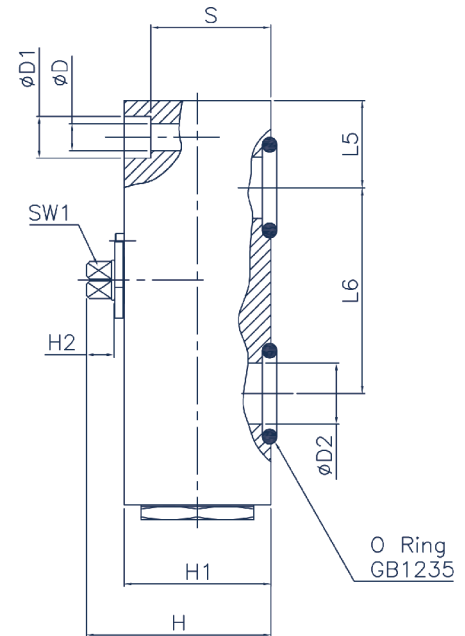
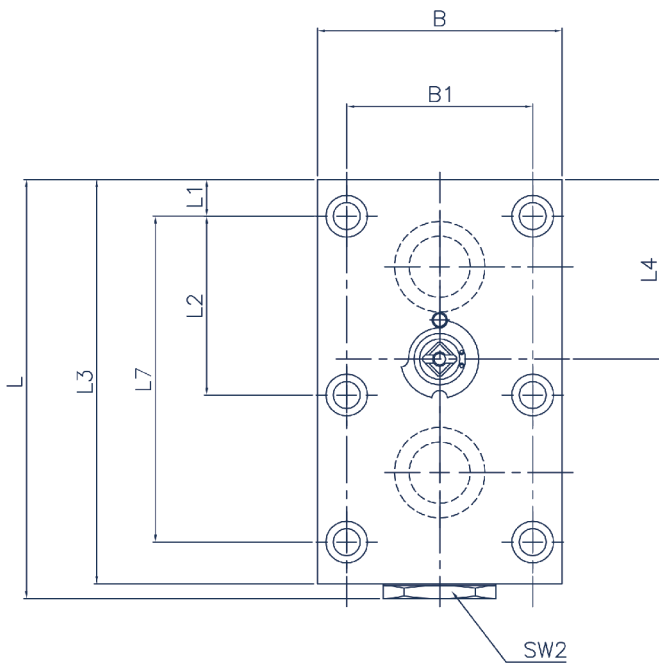
- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - Square Body (DN06-50)

#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS2M06	BVS2M10	BVS2M16	BVS2M19	BVS2M25	BVS2M32	BVS2M40	BVS2M50
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM							
Maximum working pressure	500 7250	500 7250	400 5800	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	1600 23200	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	12 3.2	23 6.1	74 20	100 26.4	189 50	250 66	379 100	757 200



### BVS2 (Manifold Type)

Part Number	DN	PN	L	L1	L2	L3	L4	L5	L6	L7	B	B1	SW1	SW2	H	H1	H2	D	D1	D2	S	Ring GB1235
BVS2M-06	06	500	64	8.5	N/A	59	25	8.5	35	35	40	27	9	22	39	30	6	6.6	11	6	23	12x1.9
BVS2M-10	10	315	80	8	27.5	71	29.5	10.5	44	55	56	40	9	30	54.5	42	8	9	13.5	9.5	33	16x2.4
BVS2M-16	16	315	110	8.5	41.5	100	43.5	17	58	83	62	45	12	36	67.5	50	11	9	13.5	16	41	25x2.4
BVS2M-19	19	315	127	10	48.5	117	51	20	69	97	70	51	14	41	80	62	12	10.5	16.5	20	51	30x3.1
BVS2M-25	25	315	145	10	57.5	135	62	24	81	115	80	60	14	50	86	67	12	10.5	16.5	25	56	35x3.1
BVS2M-32	32	315	177	12	68	165	75	29	96	136	100	78	17	65	110	90	14	13	19	32	77	40x3.1
BVS2M-40	40	315	192	28.5	56	180	85.5	28.5	112	112	130	95	17	75	120	100	14	17.5	26	38	82	50x3.1
BVS2M-50	50	315	245	38	58	220	106	38	136	136	149	112	17	75	130	110	14	22	33	48	88	60x3.1



## Three-way high-pressure ball valves

### BVC3 (Manifold Type)



#### INTRODUCTION

Holmbury's BVC3 Series three-way manifold type high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS3 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

#### ACCESSORIES

- Valve locking kits and valve handles are available for the BVC3 Series

#### SPECIFICATIONS

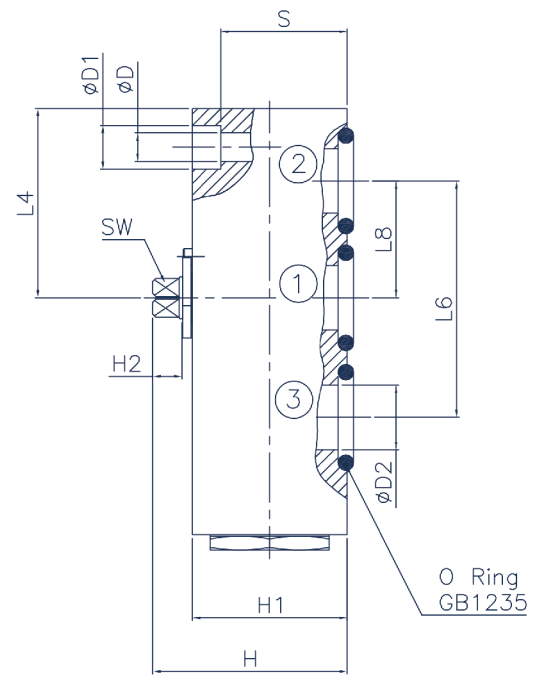
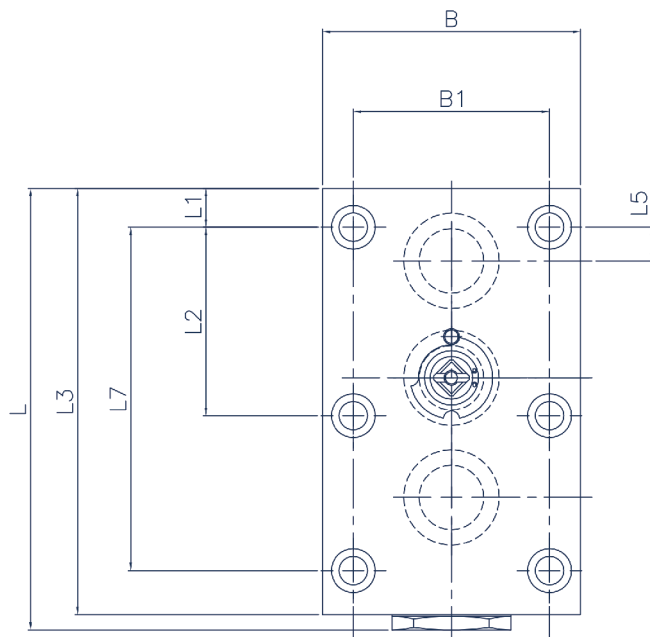
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC3 - Ball Valve - Square Body (DN06-50)

#### APPLICATIONS

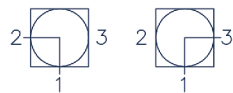
- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC3 PERFORMANCE CHARACTERISTICS

Body Size	BVC3M06	BVC3M10	BVC3M16	BVC3M19	BVC3M25	BVC3M32	BVC3M40	BVC3M50
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM							
Maximum working pressure	500 7250	500 7250	400 5800	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	1600 23200	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	12 3.2	23 6.1	74 20	100 26.4	189 50	250 66	379 100	757 200



L Type  
(90° Reversing)



### BVC3 (Manifold Type)

Part Number	DN	PN	L	L1	L2	L3	L4	L5	L6	L7	L8	B	B1	H	H1	H2	D	D1	D2	S	SW	O Ring GB1235
BVC3M-06	06	315	64	8.5	0	59	25	0	35	35	17.5	40	27	39	30	6	6.6	11	6	23	9	12x1.9
BVC3M-10	10	315	80	8	27.5	71	29.5	2.5	44	55	19	56	40	54.5	42	8	9	13.5	9.5	33	9	16x2.4
BVC3M-16	16	315	110	8.5	41.5	100	43.5	8.5	58	83	26.5	62	45	67.5	50	11	9	13.5	16	41	12	25x2.4
BVC3M-19	19	315	127	10	48.5	117	51	10	69	97	32	70	51	80	62	12	10.5	16.5	20	51	14	30x3.1
BVC3M-25	25	315	145	10	57.5	135	62	14	81	115	38	80	60	85	67	12	10.5	16.5	25	56	14	35x3.1
BVC3M-32	32	315	177	12	68	165	75	17	96	136	46	100	78	110	90	14	13	19	32	77	17	40x3.1
BVC3M-40	40	315	192	28.5	56	180	85.5	0	112	112	56	130	95	120	100	14	17.5	26	38	82	17	50x3.1
BVC3M-50	50	315	245	38	68	220	106	0	136	136	58	149	112	130	110	14	22	33	48	88	17	60x3.1



# Three-way high-pressure ball valves

## BVS3 (Manifold Type)



### INTRODUCTION

Holmbury's BVS3 Series three-way manifold type high-pressure ball valves are designed to suit a wide range of applications. These valves should not be used as flow control valves and should therefore always be fully open or closed.



### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC3 Series)

### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation

### ACCESSORIES

- Valve locking kits and valve handles are available for the BVS3 Series

### SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - Square Body (DN06-50)

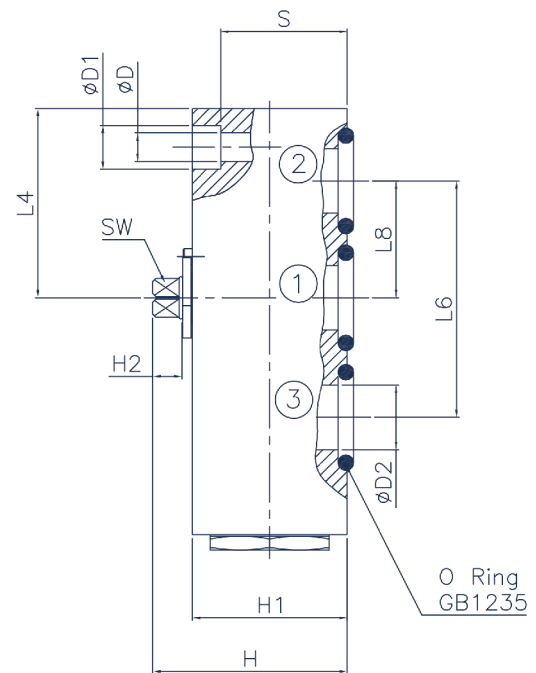
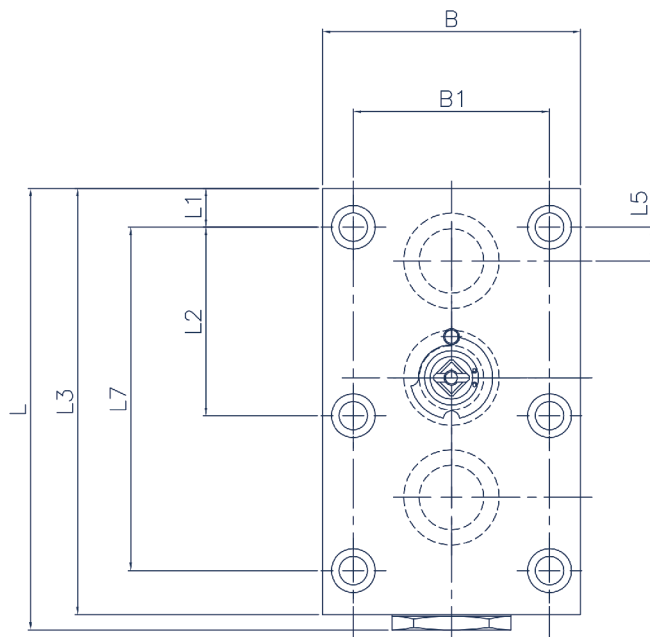
### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

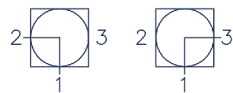
### BVS3 PERFORMANCE CHARACTERISTICS

Body Size	BVS3M06	BVS3M10	BVS3M16	BVS3M19	BVS3M25	BVS3M32	BVS3M40	BVS3M50
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM							
Maximum working pressure	500 7250	500 7250	400 5800	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	1600 23200	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	12 3.2	23 6.1	74 20	100 26.4	189 50	250 66	379 100	757 200





L Type  
(90° Reversing)



### BVS3 (Manifold Type)

Part Number	DN	PN	L	L1	L2	L3	L4	L5	L6	L7	L8	B	B1	H	H1	H2	D	D1	D2	S	SW	O Ring GB1235
BVS3M-06	06	315	64	8.5	0	59	25	0	35	35	17.5	40	27	39	30	6	6.6	11	6	23	9	12x1.9
BVS3M-10	10	315	80	8	27.5	71	29.5	2.5	44	55	19	56	40	54.5	42	8	9	13.5	9.5	33	9	16x2.4
BVS3M-16	16	315	110	8.5	41.5	100	43.5	8.5	58	83	26.5	62	45	67.5	50	11	9	13.5	16	41	12	25x2.4
BVS3M-19	19	315	127	10	48.5	117	51	10	69	97	32	70	51	80	62	12	10.5	16.5	20	51	14	30x3.1
BVS3M-25	25	315	145	10	57.5	135	62	14	81	115	38	80	60	85	67	12	10.5	16.5	25	56	14	35x3.1
BVS3M-32	32	315	177	12	68	165	75	17	96	136	46	100	78	110	90	14	13	19	32	77	17	40x3.1
BVS3M-40	40	315	192	28.5	56	180	85.5	0	112	112	56	130	95	120	100	14	17.5	26	38	82	17	50x3.1
BVS3M-50	50	315	245	38	68	220	106	0	136	136	58	149	112	130	110	14	22	33	48	88	17	60x3.1



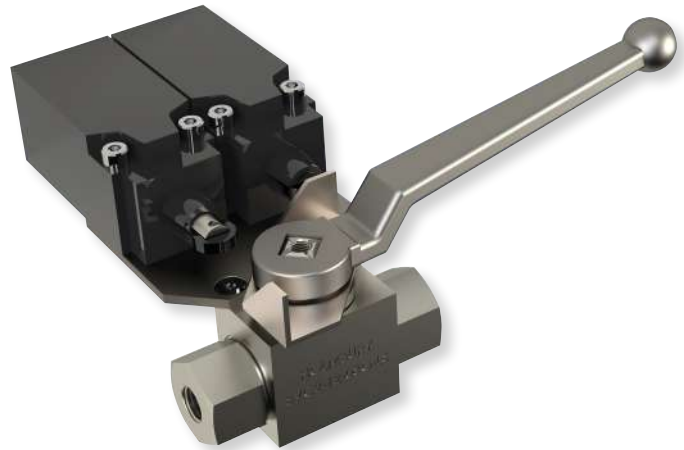
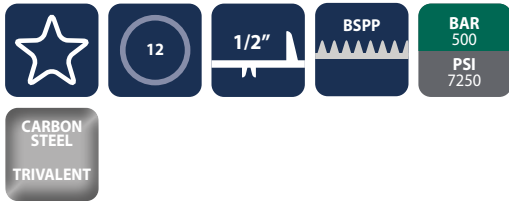
## Ball Valve with Limit Switch

### BVC2 (Limit Switch)



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valve with an integrated positional detection device. When closed, a limit switch will send an electrical signal to a remote display to monitor the "open" or "closed" state.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation
- Positional Switch: AC 380V DC 220V 5A

#### SPECIFICATIONS

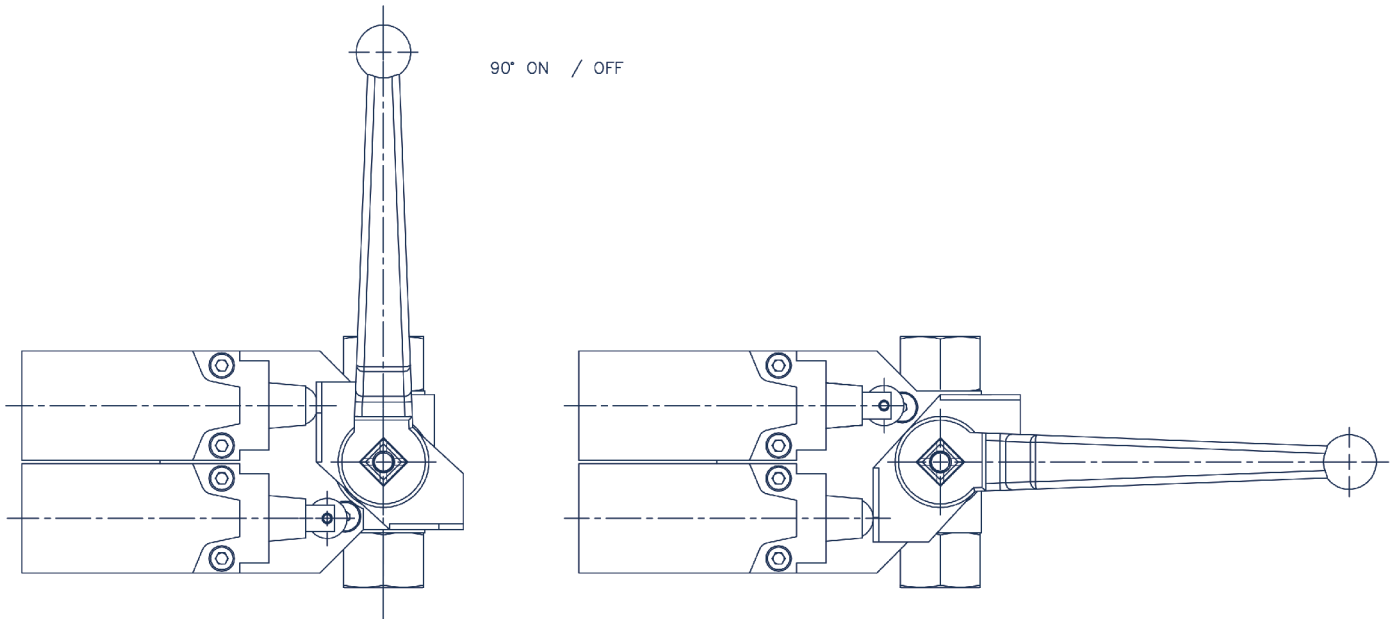
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - Square Body (DN12)

#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

Body Size	BVC212
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure	500 7250
Burst pressure	2000 29000
Rated flow	45 12



### BVC2 SERIES (Limit Switch)

Body Size	Part Number	Thread Size
12 (1/2)	BVC2-12-08G-LS	1/2 BSPP

For all other configurations or thread types please contact the sales office.





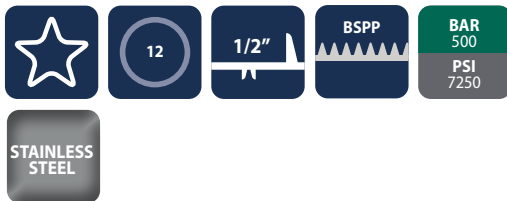
## Ball Valve with Limit Switch

### BVS2 (Limit Switch)



#### INTRODUCTION

Holmbury's BVS2 Series two-way high-pressure ball valve with an integrated positional detection device. When closed, a limit switch will send an electrical signal to a remote display to monitor the "open" or "closed" state.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn
- Offset handle allows clearance for easy operation
- Positional Switch: AC 380V DC 220V 5A



#### SPECIFICATIONS

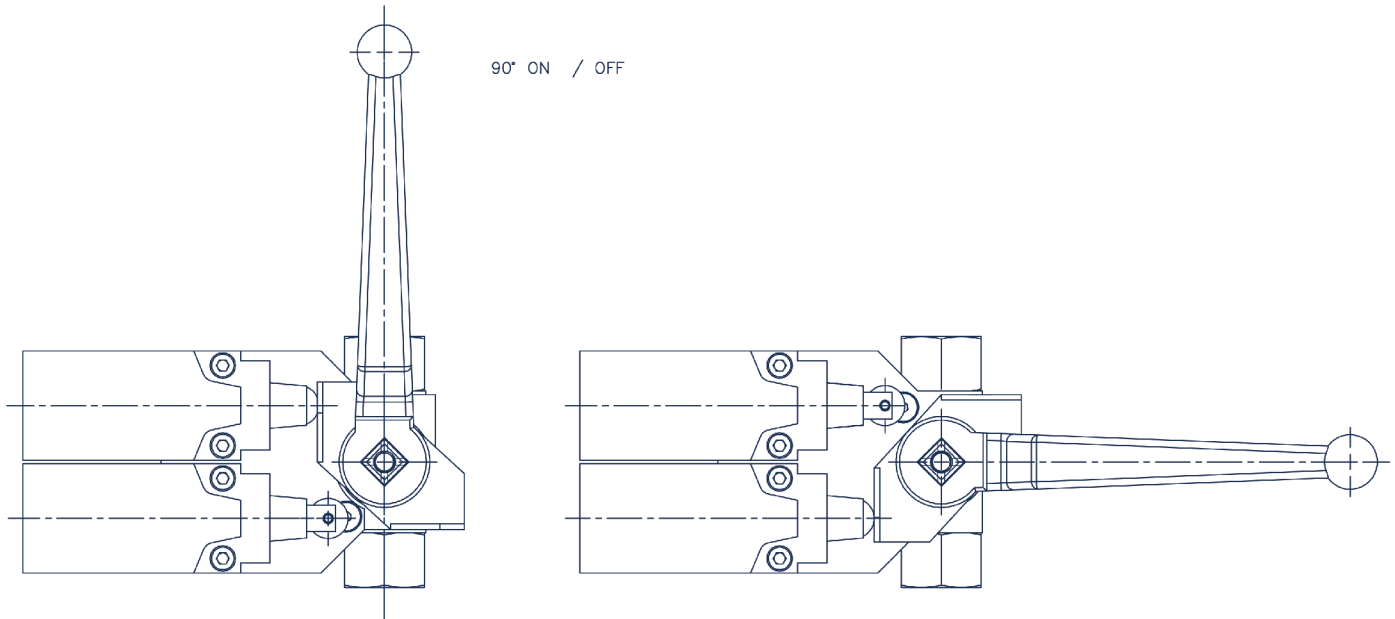
- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS212
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure	500 7250
Burst pressure	2000 29000
Rated flow	45 12



### BVS2 SERIES (Limit Switch)

Body Size	Part Number	Thread Size
12 (1/2)	BVS2-12-08G-LS	1/2 BSPP

For all other configurations or thread types please contact the sales office.





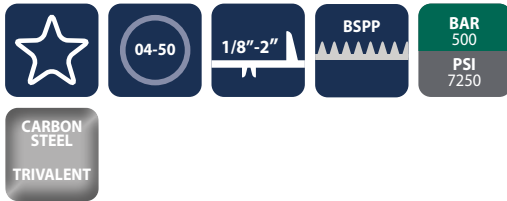
## Two-way high-pressure ball valves

### BVC2 (Pneumatic Control Hydraulic Ball Valve)



#### INTRODUCTION

Holmbury's BVC2 Series two-way high-pressure ball valve with pneumatic control. Flow direction can be remotely controlled via pneumatic ports mounted on the unit.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Zinc alloy handle
- Forged steel option available
- Fitted with NBR and POM seals as standard
- Also available in AISI 316 stainless steel (See BVS2 Series)

#### FEATURES

- Pneumatically controlled flow direction
- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn



#### SPECIFICATIONS

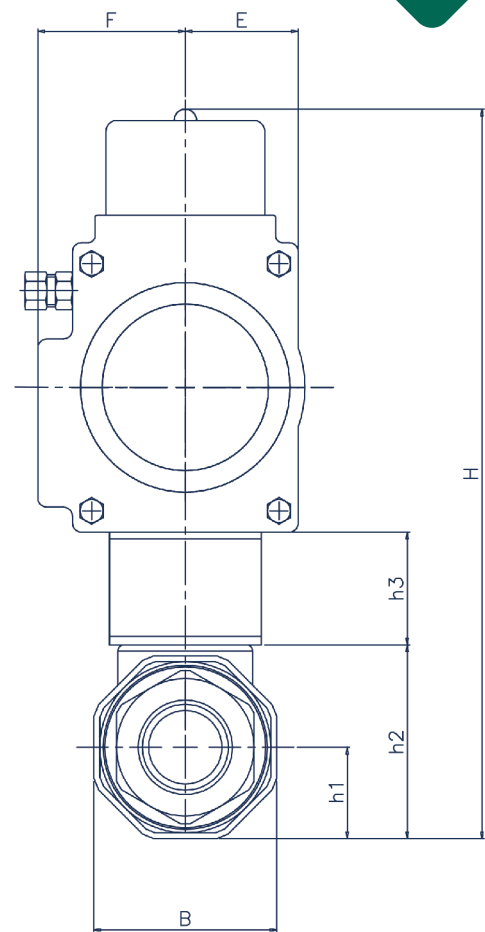
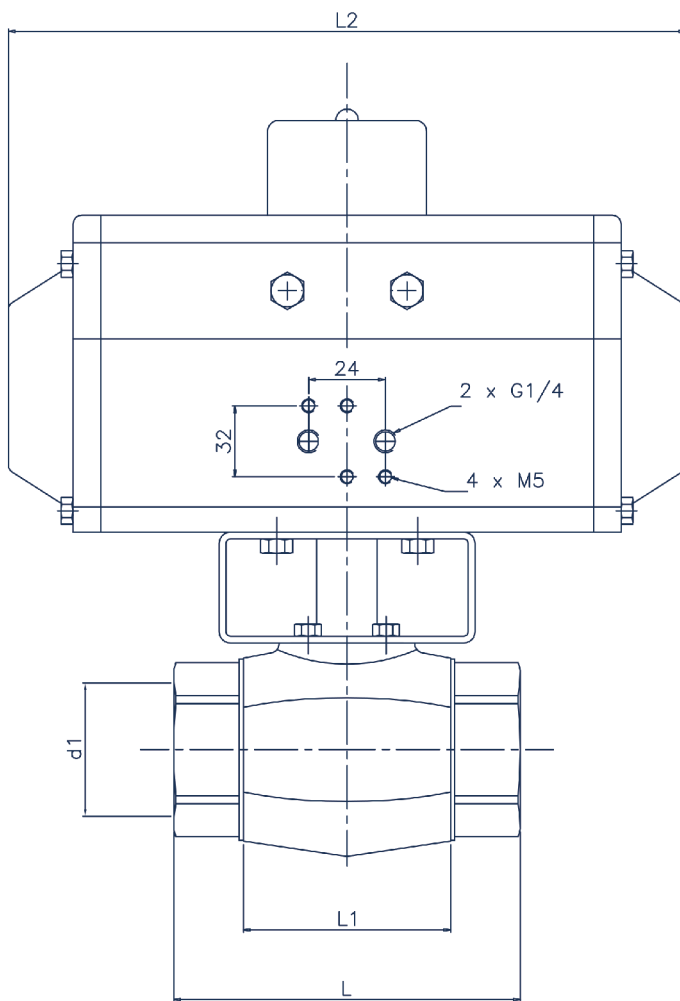
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)
- BVC2 - Ball Valve - Square Body (DN04-25)
- BVC2(O) - Ball Valve - Octagonal Body (DN32-50)

#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### BVC2 PERFORMANCE CHARACTERISTICS

Body Size	BVC204	BVC206	BVC210	BVC212	BVC216	BVC219	BVC225	BVC232	BVC240	BVC250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM									
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	400 5800	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	1600 23200	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	3 0.8	12 3.2	23 6.1	45 12	74 20	100 26.4	189 50	250 66	379 100	757 200



### BVC2 (Pneumatic Control Hydraulic Ball Valve)

Part Number	DN	PN	d1	L	L1	L2	B	H	h1	h2	h3	E	F	Actuator Model
BVC2-04-02G-PC	04	500	1/8 BSPP	69	37	164	28	169.5	13	32	40	25	42	AT052-A
BVC2-06-04G-PC	06	500	1/4 BSPP	69	37	164	28	169.5	13	32	40	25	42	AT052-A
BVC2-10-06G-PC	10	500	3/8 BSPP	72	42	181	32	195	17	40	40	35.5	45.5	AT063-A
BVC2-12-08G-PC	12	500	1/2 BSPP	83	48	181	35	195	17	40	40	35.5	45.5	AT063-A
BVC2-16-08G-PC	16	400	1/2 BSPP	83	47	207	38	222	19	46	50	38.5	52.5	AT075-A
BVC2-19-12G-PC	19	315	3/4 BSPP	95	60	212	48	251.5	24	57	60	46	56.5	AT083-A
BVC2-25-16G-PC	25	315	1 BSPP	113	65	212	57	258.5	28.5	64	60	46	56.5	AT083-A
BVC2-25-20G-PC	25	315	1 1/4 BSPP	120	65	212	60	258.5	28.5	64	60	46	56.5	AT083-A
BVC2-25-24G-PC	25	315	1 1/2 BSPP	130	65	212	60	258.5	28.5	64	60	46	56.5	AT083-A
BVC2(O)-32-20G-PC	32	315	1 1/4 BSPP	110	84	287	82	305.5	41	87.5	60	52	64	AT0105-A
BVC2(O)-40-24G-PC	40	315	1 1/2 BSPP	130	91	287	93	317	46.5	99	60	52	64	AT0105-A
BVC2(O)-50-32G-PC	50	315	2 BSPP	140	100	312.5	110	355	55	115	60	60	73.5	AT0105-A

For all other configurations or thread types please contact the sales office.





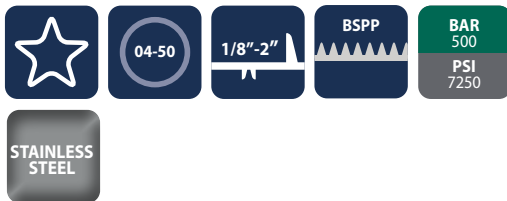
## Two-way high-pressure ball valves

### BVS2 (Pneumatic Control Hydraulic Ball Valve)



#### INTRODUCTION

Holmbury's BVS2 Series two-way high-pressure ball valve with pneumatic control. Flow direction can be remotely controlled via pneumatic ports mounted on the unit.



#### CONSTRUCTION

- AISI 316 stainless steel body (Some internal components carbon steel)
- Zinc alloy handle
- Forged steel option available
- Fitted with FKM and POM seals as standard
- Also available in carbon steel (See BVC2 Series)

#### FEATURES

- Pneumatically controlled flow direction
- Floating ball design maximises sealing
- Full bore valves provide unrestricted flow path for negligible pressure drop
- Open to close in 1/4 turn



#### SPECIFICATIONS

- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)
- BVS2 - Ball Valve - Square Body (DN04-25)
- BVS2(O) - Ball Valve - Octagonal Body (DN32-50)

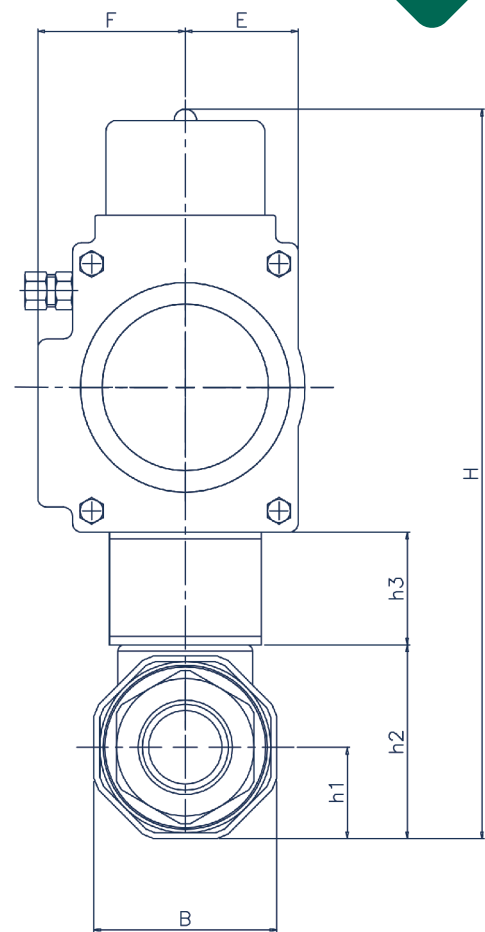
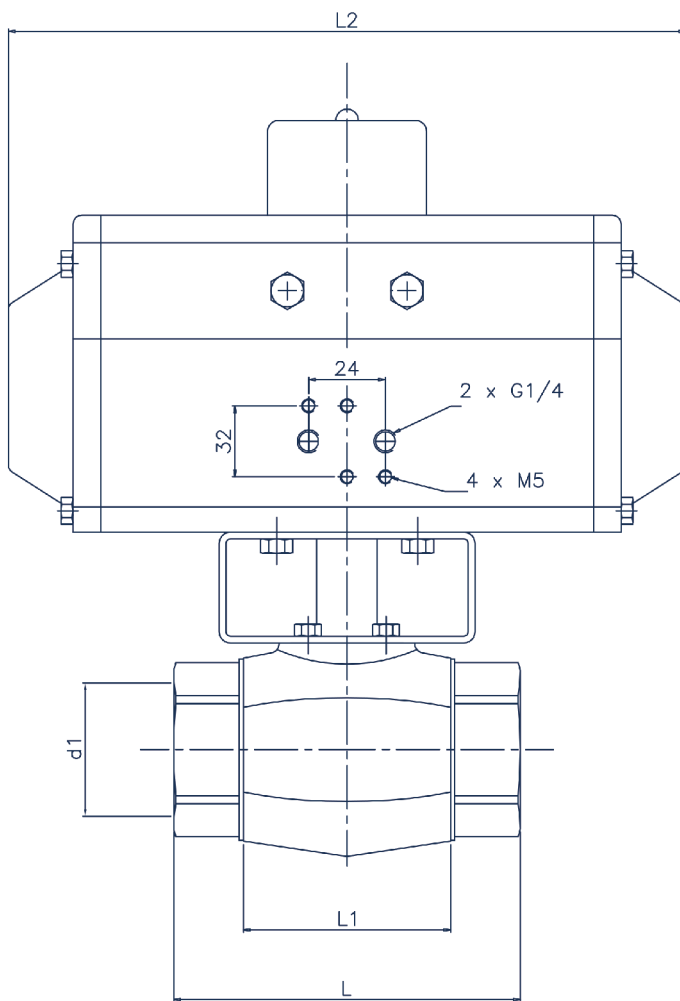
#### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

#### BVS2 PERFORMANCE CHARACTERISTICS

Body Size	BVS204	BVS206	BVS210	BVS212	BVS216	BVS219	BVS225	BVS232	BVS240	BVS250
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM									
Maximum working pressure	500 7250	500 7250	500 7250	500 7250	400 5800	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	2000 29000	2000 29000	2000 29000	2000 29000	1600 23200	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	3 0.8	12 3.2	23 6.1	45 12	74 20	100 26.4	189 50	250 66	379 100	757 200





### BVS2 (Pneumatic Control Hydraulic Ball Valve)

Part Number	DN	PN	d1	L	L1	L2	B	H	h1	h2	h3	E	F	Actuator Model
BVS2-04-02G-PC	04	500	1/8 BSPP	69	37	164	28	169.5	13	32	40	25	42	AT052-A
BVS2-06-04G-PC	06	500	1/4 BSPP	69	37	164	28	169.5	13	32	40	25	42	AT052-A
BVS2-10-06G-PC	10	500	3/8 BSPP	72	42	181	32	195	17	40	40	35.5	45.5	AT063-A
BVS2-12-08G-PC	12	500	1/2 BSPP	83	48	181	35	195	17	40	40	35.5	45.5	AT063-A
BVS2-16-08G-PC	16	400	1/2 BSPP	83	47	207	38	222	19	46	50	38.5	52.5	AT075-A
BVS2-19-12G-PC	19	315	3/4 BSPP	95	60	212	48	251.5	24	57	60	46	56.5	AT083-A
BVS2-25-16G-PC	25	315	1 BSPP	113	65	212	57	258.5	28.5	64	60	46	56.5	AT083-A
BVS2-25-20G-PC	25	315	1 1/4 BSPP	120	65	212	60	258.5	28.5	64	60	46	56.5	AT083-A
BVS2-25-24G-PC	25	315	1 1/2 BSPP	130	65	212	60	258.5	28.5	64	60	46	56.5	AT083-A
BVS2(O)-32-20G-PC	32	315	1 1/4 BSPP	110	84	287	82	305.5	41	87.5	60	52	64	AT0105-A
BVS2(O)-40-24G-PC	40	315	1 1/2 BSPP	130	91	287	93	317	46.5	99	60	52	64	AT0105-A
BVS2(O)-50-32G-PC	50	315	2 BSPP	140	100	312.5	110	355	55	115	60	60	73.5	AT0105-A

For all other configurations or thread types please contact the sales office.





## Valve Locking Kit

### VLK Series

#### INTRODUCTION

Holmbury's VLK Series are designed to suit a wide range of Ball Valve applications.

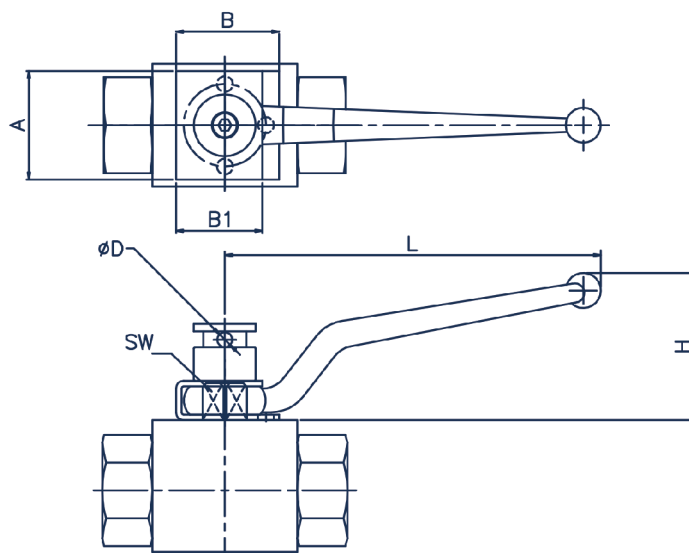


CARBON  
STEEL  
TRIVALENT

#### SPECIFICATIONS

- To suit Holmbury Ball Valve Range with Ball Valve Stem SW (A/F) 9, 14 & 17





### VLK Series

Part Number	DN	SW (Ball Valve Stem)	A	B	B1	D	H	L
VLK-9	4 - 12	9	32	34	28	6	28	6
VLK-14	20 - 25	14	50	50	41	8	41	8
VLK-17	32 - 50	17	58	55	46	8	46	8

## Locking Device Assembly Instructions



#### STEP 1.

Remove the retaining screw / washer, handle, spring retainer ring / clip and cam plate from the ball valve.

#### STEP 2.

Insert the ball valve handle into the locking bracket.

#### STEP 3.

Place the ball valve handle and locking bracket onto the ball valve.

#### STEP 4.

Add the locking mechanism onto the ball valve and tighten with a hex key.

Further technical information and 3D CAD models available from our sales office.





## Valve Locking Kit

### VLKT Series

#### INTRODUCTION

Holmbury's VLKT Series are designed to suit a wide range of Ball Valve applications.

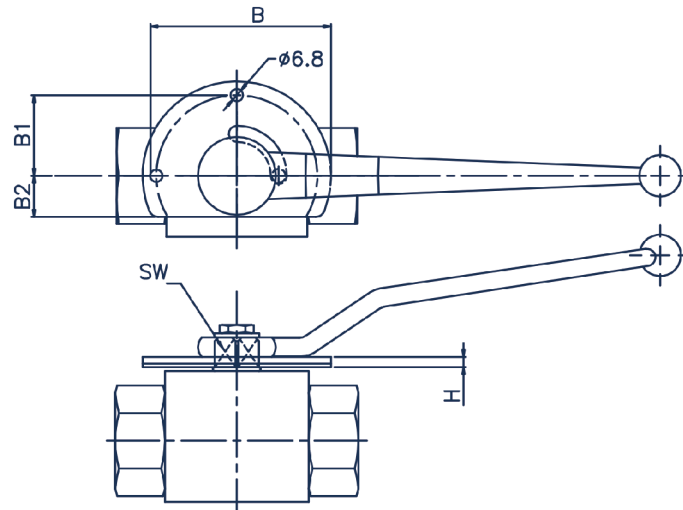


CARBON  
STEEL  
TRIVALENT

#### SPECIFICATIONS

- To suit Holmbury Ball Valve Range with Ball Valve Stem SW (A/F) 9, 14 & 17

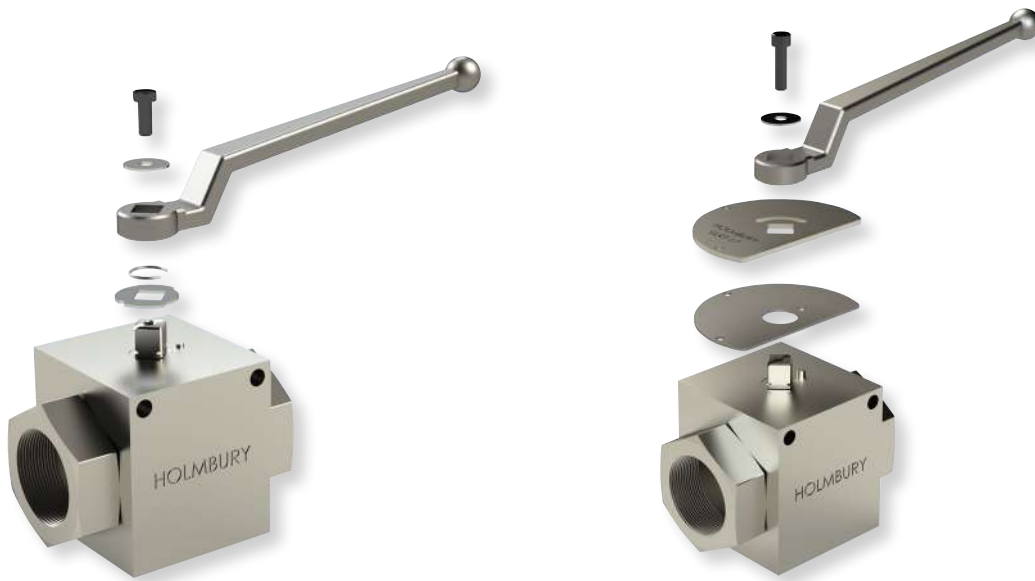




### VLKT Series

Part Number	DN	SW (Ball Valve Stem)	B	B1	B2	H
VLKT-9	4 - 12	9	61	24	10	3.5
VLKT-14	20 - 25	14	84	35.5	14	4.5
VLKT-17	32 - 50	17	136	61.5	18	4.5

## Locking Device Assembly Instructions



#### STEP 1.

Remove the retaining screw / washer, handle, spring retainer ring / clip and cam plate from the ball valve

#### STEP 2.

Place the lower positioning plate onto the ball valve.

#### STEP 3.

Place the lockable positioning plate onto the ball valve.

#### STEP 4.

Add the handle and washer and tighten with a hex key.

Further technical information and 3D CAD models available from our sales office.





## Replacement handles

### Replacement Handles

#### INTRODUCTION

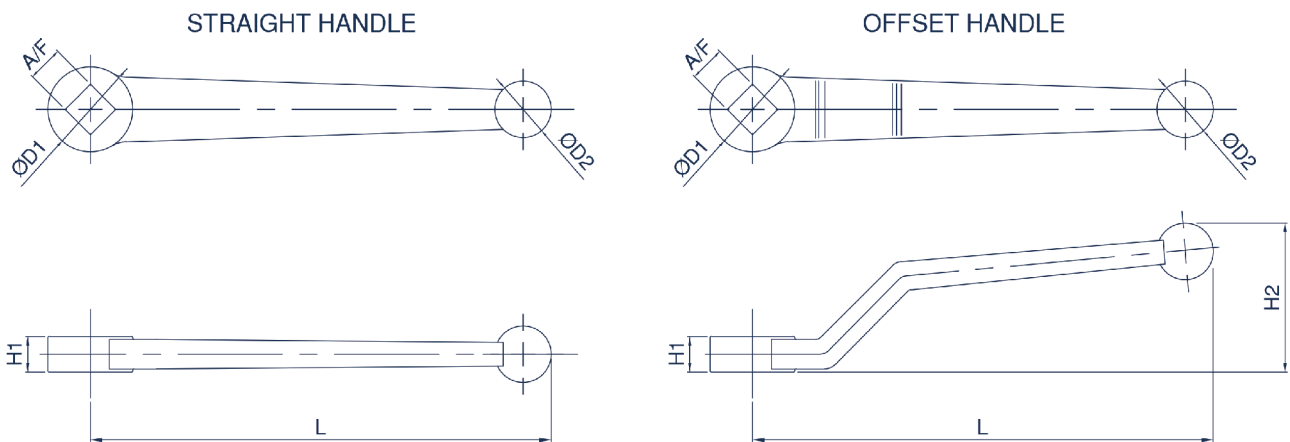
Holmbury offers a range of replacement handles in various configurations and materials.



#### SPECIFICATIONS

- To suit Holmbury Ball Valve Range with Ball Valve Stem SW (A/F) 9, 14 & 17





### REPLACEMENT VALVE HANDLE OPTIONS

Valve Size	Replacement Handle Option	D1		A/F		D2		H1		L		H2	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
4-12	SW9 Code 04	25.0	0.98	9.0	0.35	15.0	0.59	8.5	0.33	120.0	4.72	35.0	1.38
	SW9 Code 05	24.0	0.94	9.0	0.35	16.0	0.63	8.5	0.33	145.0	5.71	NA	NA
	SW9 Code 06	26.0	1.02	9.0	0.35	16.0	0.63	8.5	0.33	130.0	5.12	38.0	1.50
19-40	SW14 Code 04	32.0	1.26	14.0	0.55	20.5	0.81	13.0	0.51	170.0	6.69	55.0	2.17
	SW14 Code 05	32.0	1.26	14.0	0.55	21.0	0.83	13.0	0.51	200.0	7.87	NA	NA
	SW14 Code 06	33.0	1.30	14.0	0.55	21.0	0.83	13.0	0.51	181.0	7.13	61.0	2.40
50	SW17 Code 05	36.0	1.42	17.0	0.67	24.0	0.94	15.0	0.59	260.0	10.24	NA	NA
	SW17 Code 06	36.0	1.42	17.0	0.67	24.0	0.94	15.0	0.59	235.0	9.25	75.0	2.95

### OPTIONAL HANDLES

	Part number	Material
A/F 9	SW9 Code 04	Zinc Alloy, Offset Handle
	SW9 Code 05	Forged Steel, Straight Handle
	SW9 Code 06	Forged Steel, Offset Handle
A/F 14	SW14 Code 04	Zinc Alloy, Offset Handle
	SW14 Code 05	Forged Steel, Straight Handle
	SW14 Code 06	Forged Steel, Offset Handle
A/F 17	SW17 Code 05	Forged Steel, Straight Handle
	SW17 Code 06	Forged Steel, Offset Handle

Handles are also available in stainless steel 316.



## THROTTLE VALVES

Throttle Valves are used to start / stop or regulate the fluid in a hydraulic system. They are fully adjustable and lockable.

Est.

1984





TV Series

82



TVM Series

84



Adjustable flow control throttle valves



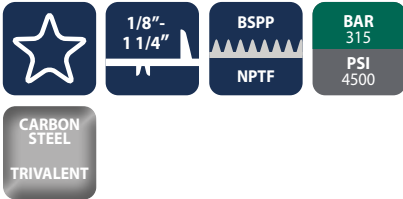
# Adjustable flow control throttle valves

## TV Series



### INTRODUCTION

Holmbury's TV Throttle valves are designed to control the flow rate in a system. Adjusting the rotary handle (lockable) to open or restrict the thru bore accurately controls the flow.



### CONSTRUCTION

- Carbon steel body with trivalent plating
- Fitted with NBR seals as standard

### FEATURES

- Flow Control
- Adjustable lockable handle
- TV - Bi-directional flow
- TV-CV - One way flow (Non-return)

### SPECIFICATIONS

- Operating temperature : -20°C (-4°F) to 70°C (158°F)

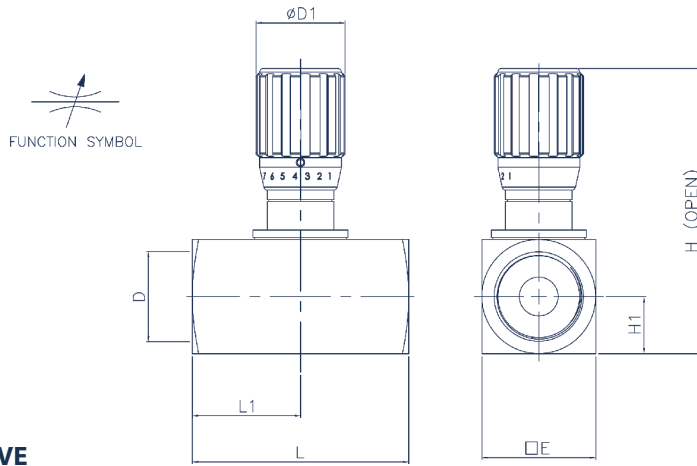
### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural



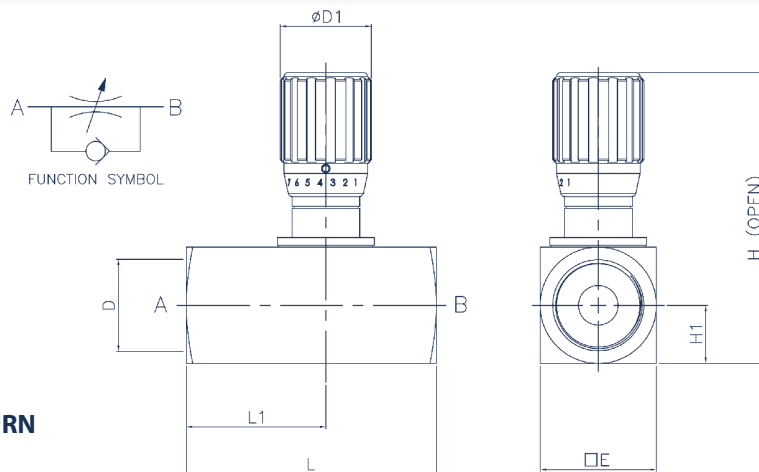
### TV PERFORMANCE CHARACTERISTICS

Body Size	TV02	TV04	TV06	TV08	TV12	TV16	TV20
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM						
Maximum working pressure	315 4568	315 4568	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	14 3.7	40 10.5	60 15.8	85 22.4	185 48.8	200 52.8	300 79.2



### THREADED TYPE THROTTLE VALVE

Part Number	L	L1	D	D1	E	H	H1
TV02G	48	24	1/8 BSPP	30	28	82	14
TV02N	48	24	1/8 NPTF	30	28	82	14
TV04G	54	27	1/4 BSPP	30	28	82	14
TV04N	54	27	1/4 NPTF	30	28	82	14
TV06G	54	27	3/8 BSPP	30	28	82	14
TV06N	54	27	3/8 NPTF	30	28	82	14
TV08G	68	34	1/2 BSPP	38	38	108	19
TV08N	68	34	1/2 NPTF	38	38	108	19
TV12G	78	39	3/4 BSPP	38	38	108	19
TV12N	78	39	3/4 NPTF	38	38	108	19
TV16G	92	46	1 BSPP	47	48	138	24
TV16N	92	46	1 NPTF	47	48	138	24
TV20G	114	57	1 1/4 BSPP	47	60	150	30
TV20N	114	57	1 1/4 NPTF	47	60	150	30



### THREADED TYPE NON-RETURN THROTTLE VALVE

Part Number	L	L1	D	D1	E	H	H1
TV02G-CV	58	36	1/8 BSPP	30	28	82	14
TV02N-CV	58	36	1/8 NPTF	30	28	82	14
TV04G-CV	64	39	1/4 BSPP	30	28	82	14
TV04N-CV	64	39	1/4 NPTF	30	28	82	14
TV06G-CV	70	43	3/8 BSPP	30	28	82	14
TV06N-CV	70	43	3/8 NPTF	30	28	82	14
TV08G-CV	83	52	1/2 BSPP	38	38	108	19
TV08N-CV	83	52	1/2 NPTF	38	38	108	19
TV12G-CV	89	55.5	3/4 BSPP	38	38	108	19
TV12N-CV	89	55.5	3/4 NPTF	38	38	108	19
TV16G-CV	117	72	1 BSPP	47	48	138	24
TV16N-CV	117	72	1 NPTF	47	48	138	24
TV20G-CV	154	97	1 1/4 BSPP	47	60	150	30
TV20N-CV	154	97	1 1/4 NPTF	47	60	150	30



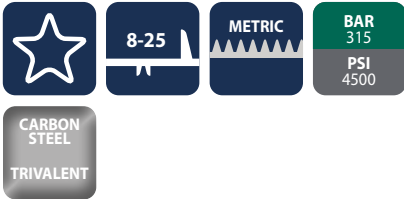
## Adjustable flow control throttle valves

### TVM Series



#### INTRODUCTION

Holmbury's TV Throttle valves (manifold type) are designed to control the flow rate in a system. Adjusting the rotary handle (lockable) to open or restrict the thru bore accurately controls the flow.



#### CONSTRUCTION

- Carbon steel body with trivalent plating
- Fitted with NBR seals as standard

#### FEATURES

- Flow Control
- Adjustable lockable handle
- TVM - Bi-directional flow
- TVM-CV - One way flow (Non-return)

#### SPECIFICATIONS

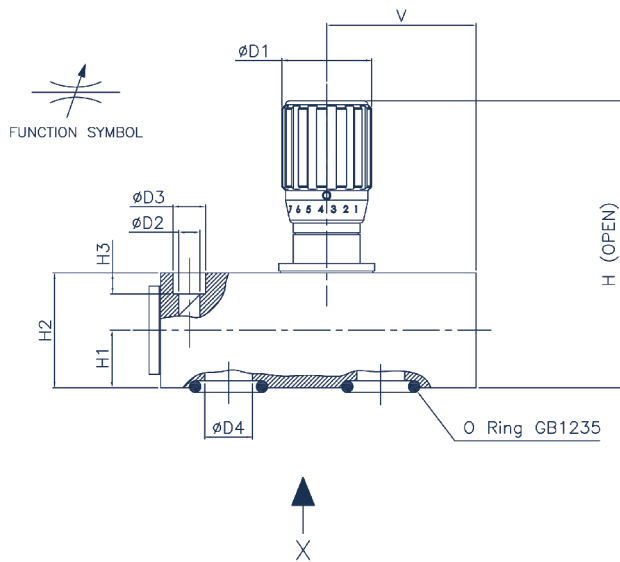
- Operating temperature : -20°C (-4°F) to 70°C (158°F)

#### APPLICATIONS

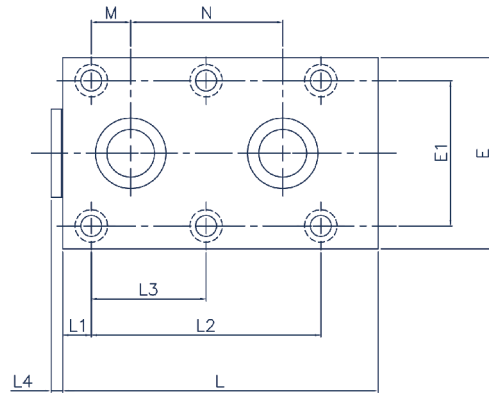
- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### TVM PERFORMANCE CHARACTERISTICS

Body Size	TVM08	TVM10	TVM12	TVM16	TVM20	TVM25
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM					
Maximum working pressure	315 4568	315 4568	315 4568	315 4568	315 4568	315 4568
Burst pressure	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270	1260 18270
Rated flow	40 10.5	60 15.8	85 22.4	185 48.8	200 52.8	300 79.2

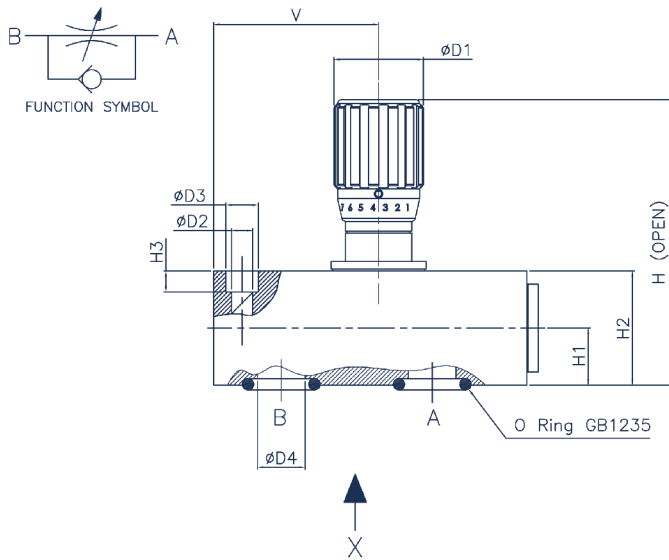


VIEW ON X

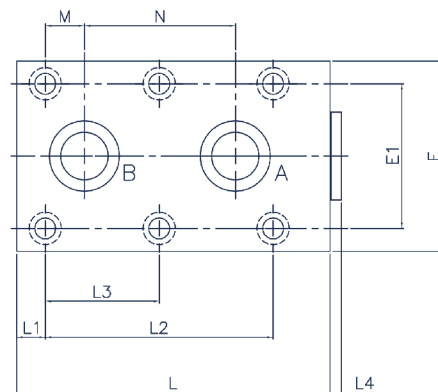


### MANIFOLD TYPE THROTTLE VALVE

Part Number	H	H1	H2	H3	D1	D2	D3	D4	E	E1	L	L1	L2	L3	L4	M	N	V	O Ring
TVM08	85	11	24	7	30	6.5	10.5	8	46	33.5	48.5	6.8	35	N/A	4.5	4.5	24.5	24.5	16x2.4
TVM10	88	14	28	7	30	6.5	10.5	10	51	38	51	8.5	33.5	N/A	4.5	4	25.5	25.5	18x2.4
TVM12	105	16	35	7	38	6.5	10.5	12	58	44.5	75	18.5	38	N/A	4.5	4	30	37.5	20x2.4
TVM16	123	22.5	45	9	38	9	14	16	70	54	93	8.5	76	38	4.5	11.4	54	41	25x2.4
TVM20	151	25	50	9	47	9	14	20	77	60	112	8.5	95	47.5	5.5	19	57	41	30x3.1
TVM25	161	30	60	11	47	11	17	25	100	76	144	12	120	60	6	19.9	79.5	61	35x3.1



VIEW ON X



### MANIFOLD TYPE NON-RETURN THROTTLE VALVE

Part Number	H	H1	H2	H3	D1	D2	D3	D4	E	E1	L	L1	L2	L3	L4	M	N	V	O Ring
TVM08-CV	85	11	24	7	30	6.5	10.5	8	46	33.5	63	14	35	N/A	4.5	4.5	25.5	30.5	16x2.4
TVM10-CV	88	14	28	7	30	6.5	10.5	10	51	38	70	18	33.5	N/A	4.5	4	25.5	31	18x2.4
TVM12-CV	105	16	35	7	38	6.5	10.5	12	58	44.5	80	24	38	N/A	4.5	4	30	36	20x2.4
TVM16-CV	123	22.5	45	9	38	9	14	16	70	54	104	14	76	38	6.5	11.4	54	49	25x2.4
TVM20-CV	151	25	50	9	47	9	14	20	77	60	127	16	95	47.5	6	19	57	49	30x3.1
TVM25-CV	161	30	60	11	47	11	17	25	100	76	165	15	120	60	6	20.6	79.5	77	35x3.1





## SPECIALITY VALVES

Check valves allow flow to move in one direction once pre-set 'cracking' pressure is achieved. Hose burst valves allow flow in both directions but stop reverse flow completely at the valve in the event of a surge flow. Cartridge can be set for variable flow rate.

PC Series pattern changer spool valve is designed to switch joystick functionality on equipment such as excavators.

Est.

1984



CV Series

88



CVS Series

90



VPC Series

92



PC Series

94



Est.

1984



Valves are used for restricting or changing direction of flow in multiple applications.



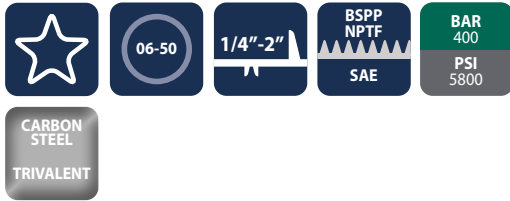
## In-line check valves

### CV Series



#### INTRODUCTION

Holmbury's CV Series in-line check valves are designed to suit a wide range of applications. The CV Series check valve allows flow in one direction and blocks it in the opposite direction. The flow is only allowed once a pre-set cracking pressure is reached.



#### CONSTRUCTION

- Carbon steel with trivalent plating
- Metal to metal sealing
- Also available in AISI 316 stainless steel (See CVS Series)

#### FEATURES

- Various cracking pressures are available
- Single directional flow
- Bleed hole can be provided to allow gradual dissipation of the pressure in the hydraulic circuit, beyond the check, once the primary valve is opened to tank

#### SPECIFICATIONS

- Operating temperatures : -40°C (-40°F) to 150°C (302°F)

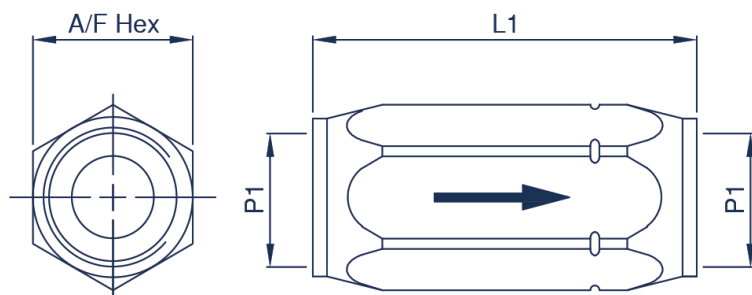
#### APPLICATIONS

- Construction
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

#### CV PERFORMANCE CHARACTERISTICS

Body Size	CV06	CV10	CV12	CV19	CV25	CV32	CV40	CV50
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM							
Maximum working pressure	400	400	350	350	350	250	250	250
	5800	5800	5075	5075	5075	3625	3625	3625
Burst pressure	1200	1200	1050	1050	1050	750	750	750
	17400	17400	15225	15225	15225	10875	10875	10875
Rated flow	12	23	45	100	189	250	379	757
	3.2	6.1	12	26.4	50	66	100	200





### CRACKING PRESSURE OPTIONS

Value / Unit	*Cracking pressure code
0.35 Bar	0.35
4.5 Bar	4.50
8.3 Bar	8.30
7 PSI	007
58 PSI	058
116 PSI	116

When ordering these parts add the cracking pressure option code number to the part number detailed in the table below.

### CV SERIES VALVES

Body Size	Part Number *add cracking pressure code	A/F		P1 thread	L1	
		mm	inch		mm	inch
<b>06 (1/4)</b>	CV06-04G-04G-	19.0	0.75	1/4 BSPP	58.0	2.28
	CV06-04N-04N-	19.0	0.75	1/4 NPTF	58.0	2.28
	CV06-04S-04S-	19.0	0.75	7/16-20 UNF	58.0	2.28
<b>10 (3/8)</b>	CV10-06G-06G-	24.0	0.94	3/8 BSPP	62.2	2.45
	CV10-06N-06N-	24.0	0.94	3/8 NPTF	62.2	2.45
	CV10-06S-06S-	24.0	0.94	9/16-18 UNF	62.2	2.45
<b>12 (1/2)</b>	CV12-08G-08G-	30.0	1.18	1/2 BSPP	79.2	3.12
	CV12-08N-08N-	30.0	1.18	1/2 NPTF	79.2	3.12
	CV12-08S-08S-	30.0	1.18	3/4-16 UNF	79.2	3.12
<b>19 (3/4)</b>	CV19-12G-12G-	36.0	1.42	3/4 BSPP	83.1	3.27
	CV19-12N-12N-	36.0	1.42	3/4 NPTF	83.1	3.27
	CV19-12S-12S-	36.0	1.42	1 1/16-12 UN	83.1	3.27
<b>25 (1)</b>	CV25-16G-16G-	45.0	1.77	1 BSPP	106.2	4.18
	CV25-16N-16N-	45.0	1.77	1 NPTF	106.2	4.18
	CV25-16S-16S-	45.0	1.77	1 5/16-12 UN	106.2	4.18
<b>32 (1 1/4)</b>	CV32-20G-20G-	55.0	2.17	1 1/4 BSPP	127.0	5.00
	CV32-20N-20N-	55.0	2.17	1 1/4 NPTF	127.0	5.00
	CV32-20S-20S-	55.0	2.17	1 5/8-12 UN	127.0	5.00
<b>40 (1 1/2)</b>	CV40-24G-24G-	65.0	2.56	1 1/2 BSPP	138.0	5.43
	CV40-24N-24N-	65.0	2.56	1 1/2 NPTF	138.0	5.43
	CV40-24S-24S-	65.0	2.56	1 7/8-12 UN	138.0	5.43
<b>50 (2)</b>	CV50-32G-32G-	75.0	2.95	2 BSPP	160.0	6.30
	CV50-32N-32N-	75.0	2.95	2 NPTF	160.0	6.30
	CV50-32S-32S-	75.0	2.95	2 1/2-12 UN	160.0	6.30

Parts listed are standard stock items. Other thread type, size, gender and cracking pressures are available upon request.

For all other configurations or thread types please contact the sales office.





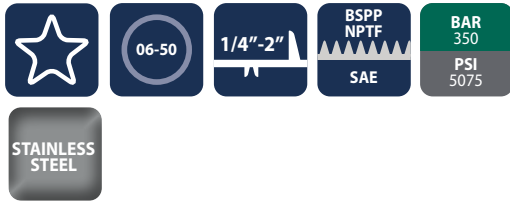
# Stainless steel in-line check valves

## CVS Series



### INTRODUCTION

Holmbury's CVS Series stainless steel in-line check valves are designed to suit a wide range of applications. The CVS Series check valve allows flow in one direction and blocks it in the opposite direction. The flow is only allowed once a pre-set cracking pressure is reached.



### CONSTRUCTION

- AISI 316 stainless steel
- Fitted with Viton seals (Other seals available on request)
- Also available in carbon steel (See CV Series)

### FEATURES

- Various cracking pressures are available
- Single directional flow
- Bleed hole can be provided to allow gradual dissipation of the pressure in the hydraulic circuit, beyond the check, once the primary valve is opened to tank

### SPECIFICATIONS

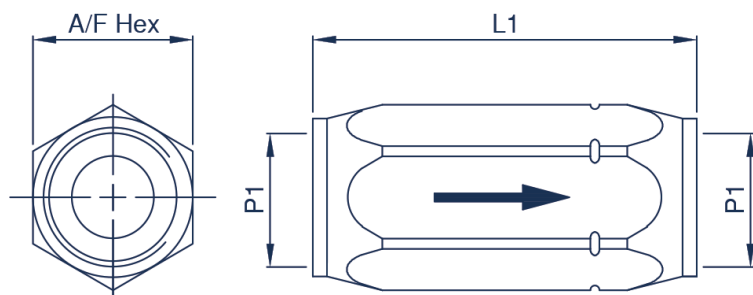
- Operating temperatures : -40°C (-40°F) to 150°C (302°F)

### APPLICATIONS

- Marine
- Offshore
- Pharmaceutical
- Power Generation

### CVS PERFORMANCE CHARACTERISTICS

Body Size	CVS06	CVS10	CVS12	CVS19	CVS25	CVS32	CVS40	CVS50
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM							
Maximum working pressure	350 5075	350 5075	350 5075	300 4350	250 3625	250 3625	250 3625	200 2900
Burst pressure	1225 17763	1225 17763	1225 17763	1050 15225	875 12688	875 12688	875 12688	700 10150
Rated flow	12 3.2	23 6.1	45 12	100 26.4	189 50	250 66	379 100	757 200



### CRACKING PRESSURE OPTIONS

Value / Unit	*Cracking pressure code
0.35 Bar	0.35
4.5 Bar	4.50
8.3 Bar	8.30
7 PSI	007
58 PSI	058
116 PSI	116

When ordering these parts add the cracking pressure option code number to the part number detailed in the table below.

### CVS SERIES VALVES

Body Size	Part Number *add cracking pressure code	A/F		P1	L1	
		mm	inch	thread	mm	inch
<b>06 (1/4)</b>	CVS06-04G-04G-	19.0	0.75	1/4 BSPP	58.0	2.28
	CVS06-04N-04N-	19.0	0.75	1/4 NPTF	58.0	2.28
	CVS06-04S-04S-	19.0	0.75	7/16-20 UNF	58.0	2.28
<b>10 (3/8)</b>	CVS10-06G-06G-	24.0	0.94	3/8 BSPP	62.2	2.45
	CVS10-06N-06N-	24.0	0.94	3/8 NPTF	62.2	2.45
	CVS10-06S-06S-	24.0	0.94	9/16-18 UNF	62.2	2.45
<b>12 (1/2)</b>	CVS12-08G-08G-	30.0	1.18	1/2 BSPP	79.2	3.12
	CVS12-08N-08N-	30.0	1.18	1/2 NPTF	79.2	3.12
	CVS12-08S-08S-	30.0	1.18	3/4-16 UNF	79.2	3.12
<b>19 (3/4)</b>	CVS19-12G-12G-	36.0	1.42	3/4 BSPP	83.1	3.27
	CVS19-12N-12N-	36.0	1.42	3/4 NPTF	83.1	3.27
	CVS19-12S-12S-	36.0	1.42	1 1/16-12 UN	83.1	3.27
<b>25 (1)</b>	CVS25-16G-16G-	45.0	1.77	1 BSPP	106.2	4.18
	CVS25-16N-16N-	45.0	1.77	1 NPTF	106.2	4.18
	CVS25-16S-16S-	45.0	1.77	1 5/16-12 UN	106.2	4.18
<b>32 (1 1/4)</b>	CVS32-20G-20G-	55.0	2.17	1 1/4 BSPP	127.0	5.00
	CVS32-20N-20N-	55.0	2.17	1 1/4 NPTF	127.0	5.00
	CVS32-20S-20S-	55.0	2.17	1 5/8-12 UN	127.0	5.00
<b>40 (1 1/2)</b>	CVS40-24G-24G-	65.0	2.56	1 1/2 BSPP	138.0	5.43
	CVS40-24N-24N-	65.0	2.56	1 1/2 NPTF	138.0	5.43
	CVS40-24S-24S-	65.0	2.56	1 7/8-12 UN	138.0	5.43
<b>50 (2)</b>	CVS50-32G-32G-	75.0	2.95	2 BSPP	160.0	6.30
	CVS50-32N-32N-	75.0	2.95	2 NPTF	160.0	6.30
	CVS50-32S-32S-	75.0	2.95	2 1/2-12 UN	160.0	6.30

Parts listed are standard stock items. Other thread type, size, gender and cracking pressures are available upon request.

For all other configurations or thread types please contact the sales office.





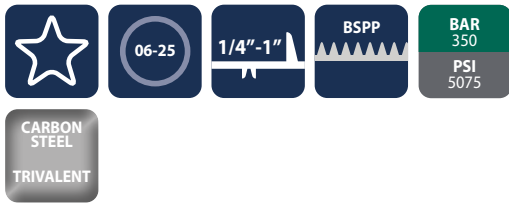
# Hose burst valves and cartridges

## VPC Series



### INTRODUCTION

Holmbury's VPC Series bidirectional hose burst valves allows free flow under normal working conditions. Flow will immediately cease in the event of a catastrophic hose failure. The burst flow can be set by increasing or decreasing the cartridge setting (dimension 'S').



### CONSTRUCTION

- Carbon steel with trivalent plating
- Metal to metal sealing

### FEATURES

- Can be retrofitted to existing systems
- Male thread designed to be screwed into female threaded port
- Valves need to be manually set to alter the flow at which the valve shuts
- Replacement cartridges are available for the VPC Series
- Bidirectional flow

### SPECIFICATIONS

- Operating temperatures : -20°C (-4°F) to 120°C (248°F)

### APPLICATIONS

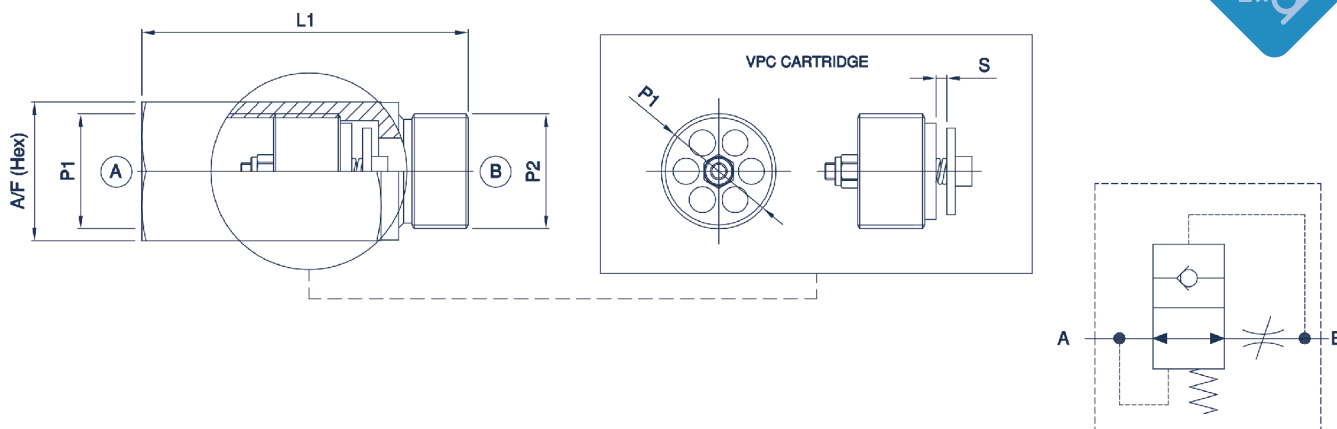
- Construction
- Lifting Equipment
- Mobile Hydraulics
- Test Equipment
- Machine Tools
- General Hydraulics
- Agricultural

### VPC PERFORMANCE CHARACTERISTICS

Body Size	VPC06	VPC10	VPC12	VPC19	VPC25
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM				
Maximum working pressure	350 5075	350 5075	350 5075	350 5075	350 5075
Rated Flow	18.5	35.5	60	149	190
	4.89	9.38	15.85	39.36	50.19
Maximum flow	30	45	65	170	225
	7.9	11.9	17.2	44.9	59.4

Body Size	VPC06	VPC10	VPC12	VPC19	VPC25
Thread	1/4	3/8	1/2	3/4	1
Viscosity	10-200 cSt				
Max Level of Contamination	18 / 16 / 13 (ISO 4406)				
Fluid Temperature	With NBR Seals : -20 Deg C (-4 Deg F) to 80 Deg C (176 Deg F)				
Environmental temperature for conditions	From -40 Deg C (-40 Deg F) to 100 Deg C (212 Deg F)				

IMPORTANT: Replace the valve after each operation. Contact our sales office for different conditions.



## VPC SERIES VALVES

Body Size	Part Number	A/F		P1 thread	L1		P2 thread	Factory Setting S	
		mm	inch		mm	inch		mm	inch
06 (1/4)	VPC06-04G-04G	19.0	0.75	1/4 BSPP	50.0	1.97	1/4 BSPP	1.0	0.04
	VPC06-04G-04GM	19.0	0.75	1/4 BSPP	50.0	1.97	1/4 BSPP Male	1.0	0.04
10 (3/8)	VPC10-06G-06G	22.0	0.87	3/8 BSPP	58.0	2.28	3/8 BSPP	1.5	0.06
	VPC10-06G-06GM	22.0	0.87	3/8 BSPP	60.0	2.36	3/8 BSPP Male	1.5	0.06
12 (1/2)	VPC12-08G-08G	27.0	1.06	1/2 BSPP	60.0	2.36	1/2 BSPP	1.9	0.08
	VPC12-08G-08GM	27.0	1.06	1/2 BSPP	63.0	2.48	1/2 BSPP Male	1.9	0.08
19 (3/4)	VPC19-12G-12G	32.0	1.26	3/4 BSPP	76.0	2.99	3/4 BSPP	2.2	0.09
	VPC19-12G-12GM	32.0	1.26	3/4 BSPP	75.0	2.95	3/4 BSPP Male	2.2	0.09
25 (1)	VPC25-16G-16G	41.0	1.61	1 BSPP	85.0	3.35	1 BSPP	2.6	0.10
	VPC25-16G-16GM	41.0	1.61	1 BSPP	88.0	3.46	1 BSPP Male	2.6	0.10

For all other configurations or thread types please contact the sales office.

### To set distance S : Example.

VPC12 - Body Size 12 - 1/2 BSPP

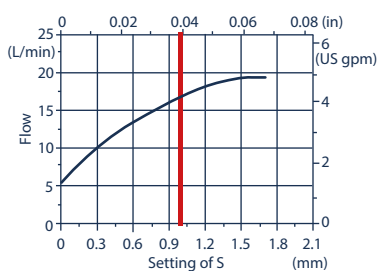
Target closure flow rate: 30 l/min

Adjust for spikes in flow during normal use  
(Multiply target closure flow rate by 1.5) : 45 l/min

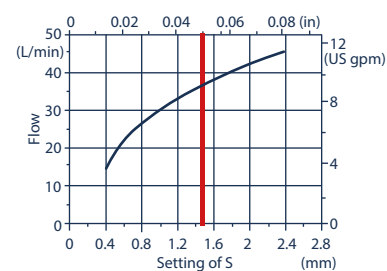
Locate adjusted target closure flow rate on relevant graph (Y Axis) and read off S distance  
(X Axis) : 1.25 mm

Set distance S at 1.25 mm

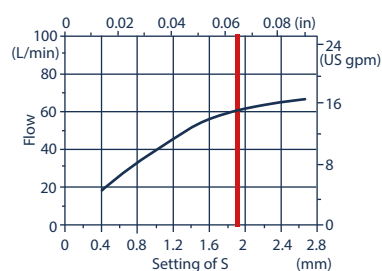
### Body Size 06 (1/4 BSPP)



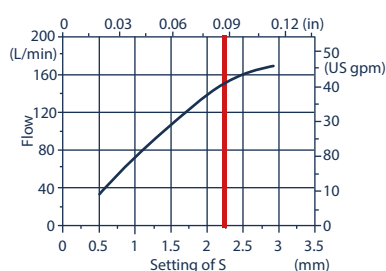
### Body Size 10 (3/8 BSPP)



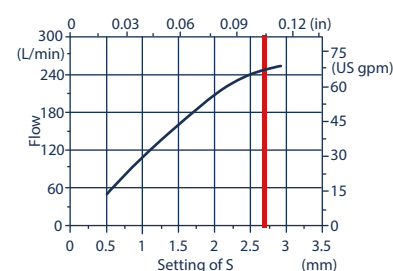
### Body Size 12 (1/2 BSPP)



### Body Size 19 (3/4 BSPP)



### Body Size 25 (1 BSPP)



Technical specification and diagrams are measured with ISO VG32 Oil at 40 Deg C (104 Deg F).  
The red vertical lines on the graphs denote the factory setting.





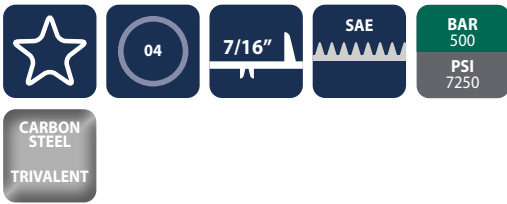
# Spool valve to change or control joystick operation

## PC Series Pattern Changer



### INTRODUCTION

Holmbury's PC Series pattern changer spool valve is designed to switch joystick functionality on equipment such as excavators. When operators move from one machine to another, they can set-up the joystick controls to function in a familiar format.



### CONSTRUCTION

- Carbon steel with trivalent plating
- Fitted with NBR seals

### FEATURES

- Operated by turning the handle 90 degrees to change the joystick pattern
- Reduction in training time when switching between machines made by different manufacturers
- Compact design
- Simple, reliable operations with no electronic components
- Quick and easy to install

### SPECIFICATIONS

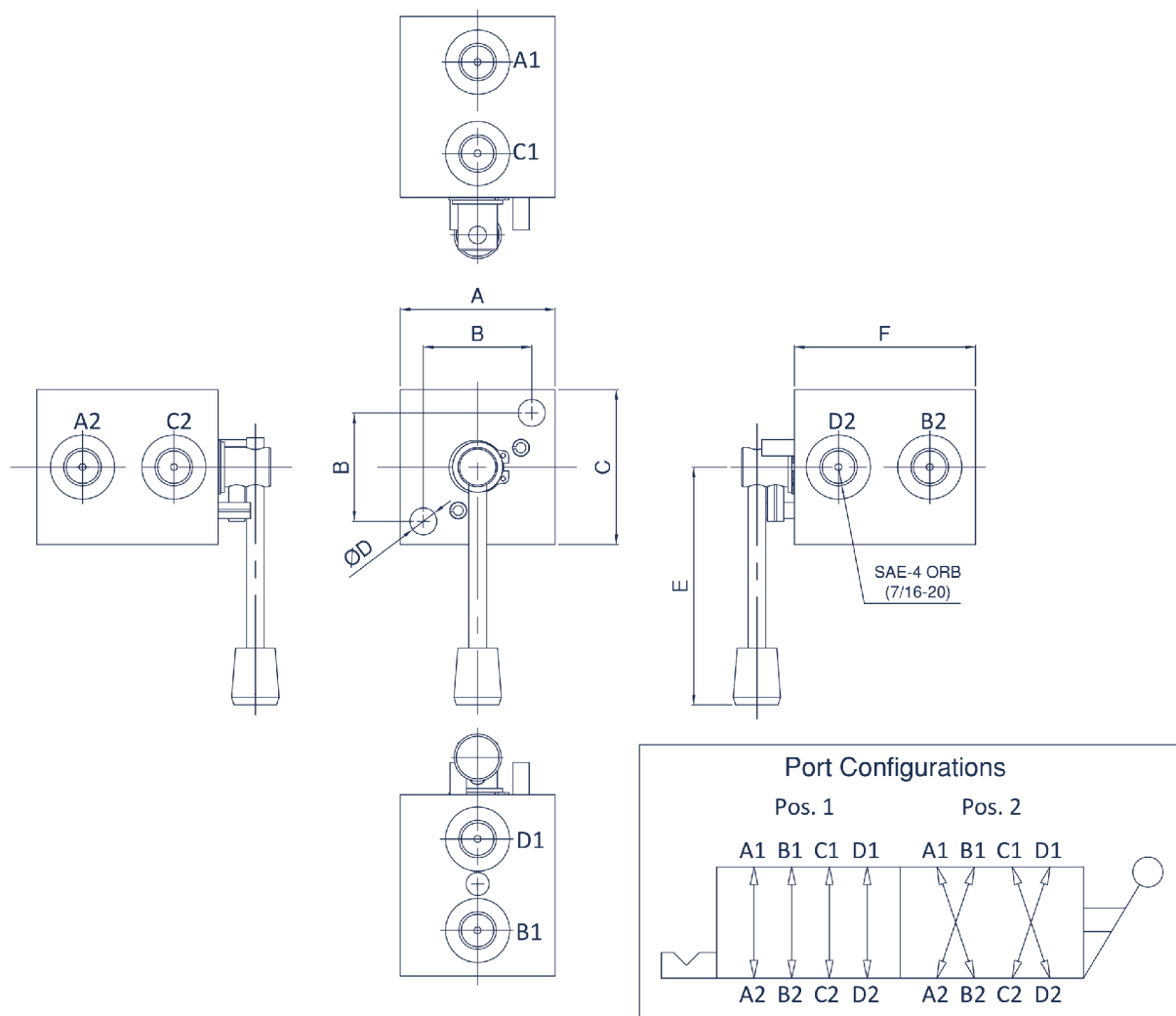
- Operating temperatures (With NBR seals): -40°C (-40°F) to 106°C (223°F)

### APPLICATIONS

- Switching joystick functionality between machines made by different manufacturers

### PC PERFORMANCE CHARACTERISTICS

Body Size	PC-04-04S
	Pressure in bar - Flow in LPM Pressure in PSI - Flow in GPM
Maximum working pressure	500 7250
Burst pressure	2000 29000
Rated flow	23 6.1



## PC SERIES VALVES

Part Number	Thread Sizes	A		B		C		D		E		F	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
PC-04-04S	7/16-20 ORB	50.8	2.00	35.6	1.40	50.8	2.00	5.1	0.20	73.7	2.90	61.0	2.40

For all other configurations or thread types please contact the sales office.  
Please refer to the resource section of our website for an installation guide of our PC Valve.

# BRITISH ENGINEERING - GLOBAL PRODUCTION - WORLD CLASS

## HOLMBURY LTD, TERMS & CONDITIONS OF SALE

**1. DEFINITIONS:** In these Conditions "Holmbury" shall mean Holmbury Limited., "The Customer" shall mean the person or persons or firm or company to whom any quotation is addressed or with whom any contract is made and "the Goods" shall mean the goods or any part thereof, agreed to be sold as described on the face hereof, and any repaired, replaced or spare part. "The Delivery Date" shall mean the date notified to the Customer by Holmbury under Clause 4 (c) hereof. **2. CONTRACT:** (a) All quotations given and all contracts made by Holmbury are subject to these terms, conditions and exceptions contained herein, and all conditions and exceptions referred to by the Customer or contained in any order, acceptance of estimate or quotation, or otherwise brought to Holmbury's notice are hereby excluded. (b) Quotations issued by Holmbury are not offers capable of acceptance so as to make a binding contract. All orders placed with Holmbury require its acceptance before any contract arises. Any delivery period shall run from the date of such acceptance. (c) No servant or agent of Holmbury has any authority to make any representation, or to give any warranty relating to the Goods or to agree to any variation of, or addition to these conditions, unless such representation, warranty, variation or addition is expressed in writing and signed on behalf of Holmbury by a Director and is incorporated or referred to in Holmbury's quotation or acceptance of order. (d) These conditions, together with any special terms and conditions specified on the quotation or acceptance of order issued by Holmbury and any drawings plans or other documents referred to therein, shall on acceptance by Holmbury of the Customer's order constitute the entire agreement between Holmbury and the Customer to the exclusion of any antecedent or contemporaneous written or oral understandings, agreements or representations in respect of the supply of the Goods. **3. PRICES AND PAYMENT:** (a) All prices quoted in the contract are F.O.B the port of shipment selected by Holmbury or ex Holmbury's warehouse or otherwise as may be specified in Holmbury's quotation or acceptance of order and are those prevailing at the time of the contract, but the prices ruling at the date of delivery shall apply and shall be paid by the Customer. (b) Holmbury may add to the prices quoted in the contract a sum sufficient to compensate Holmbury for any increase in the cost to Holmbury of producing the Goods occurring after the date of the quotation (including, but not limited to increases in the costs of labour, raw materials, bought in parts, transport and overheads) and to preserve Holmbury's profit margin. (c) If work is suspended or slowed down because of the Customer's instructions, lack of instructions or failure to supply specifications or parts, additional charges may be made. (d) Unless the prices quoted in the contract are expressly shown to include Value Added Tax, all prices are subject to the addition of such Tax, where applicable. (e) Unless otherwise agreed in writing with the Customer or stated on the face hereof the price of the Goods shall be paid to Holmbury in full in cash not later than the tenth day of the month following the date of Holmbury's invoice in respect of the Goods. Interest shall be due and payable to Holmbury for late payment at the rate of 6% per annum from the due date of payment of Holmbury's invoice (As well as before any judgement) until payment is actually received by Holmbury. (f) All amounts due to Holmbury in respect of the supply of the Goods shall be paid at the offices of Holmbury Ltd at Premier House, 1 Vale Rise, Tonbridge, Kent TN9 1TB. (g) If where the price payable in respect of the Goods is due otherwise than in advance of or on delivery of the Goods, in the reasonable opinion of Holmbury the credit rating of the Customer becomes unsatisfactory prior to delivery, or if the Customer fails to perform or observe any obligations on his part to be performed or observed under this or any other contract made with Holmbury, Holmbury shall be entitled at its discretion to delay delivery of the Goods until payment therefore is rendered by the Customer or until such obligations are duly performed or observed or by notice in writing to the Customer unilaterally to cancel the contract for the supply of Goods. **4. DELIVERY AND RISKS:** (a) Delivery is to take place F.O.B the port of shipment selected by Holmbury or ex Holmbury's warehouse as may be specified in Holmbury's quotation or acceptance of order, unless otherwise specified by Holmbury and the risks of damage to or destruction of the Goods shall thereupon pass to the Customer. Where delivery is delayed due to any act of the Customer for whatever reason, such risk shall pass on the date on which delivery would have taken place for such act. (b) Any delivery date or delivery period, whether stated in the contract or otherwise notified to the Customer is an estimate only and Holmbury shall not be liable for any loss or damage whatsoever caused by the failure to make delivery on such date or within such period. **5. PROPERTY:** (a) Although risk in Goods shall pass to the Customer, as provided in Clause 4 above, property in the Goods shall not then pass to the Customer but shall remain in Holmbury until the Customer has paid to Holmbury all sums owing or due to Holmbury on any account whatsoever and has duly performed or observed all obligations of whatsoever kind on his part to be performed or observed under this or any other contract made with Holmbury provided that always that the Customer shall indemnify Holmbury against all claims, demands, damages, penalties, costs, expenses or liabilities arising out of or in connection with Holmbury's continued ownership of the Goods. (b) Whilst the Goods remain the property of Holmbury, Holmbury may retake possession of them at any time without notice to the Customer and for this purpose Holmbury may be its servants or agents enter upon any land or premises where it believes the Goods may be. (c) The Customer may sell the Goods and deliver them to the purchaser thereof provide that the Customer does so in the ordinary course of its business. Notwithstanding any agreement or provision for the granting of credit by Holmbury to the Customer, the Customer shall account to Holmbury for the proceeds of such sale, and pending such accounting shall hold such proceeds of sale as fiduciary for Holmbury. If Holmbury so requires, the Customer will assign any debt due from such purchaser to Holmbury. (d) The provision of Clause 5(A), (B) and (C) above shall continue to apply to the Goods notwithstanding any admixture with other Goods or other use or transformation of the Goods by any process of manufacture. **6. STORAGE:** Holmbury shall be entitled to store the Goods, either at their own premises or elsewhere at the Customer's expense in the following circumstances: (A) If the Goods are delivered F.O.B or ex Holmbury's warehouse, where the Customer fails to take delivery on the due date: or (b) If the Goods are delivered by the Customer to a specified place: (i) Where Holmbury is ready to despatch the Goods, but needs delivery instructions and such instructions have not been provided by the Customer; or (ii) Where Holmbury is ready to despatch the Goods and the Customer is or will be unable to accept delivery when tendered. **7. ALTERATIONS AND IMPROVEMENTS:** (a) Holmbury or its sub-contractors may carry out without notice to the Customer alterations or improvements in design, materials, or methods of manufacture from time to time, and may substitute other reasonably similar parts for any proprietary or special part ordered by the Customer, which Holmbury or its sub-contractors considers to be unprocurable, or unprocurable in sufficient quantities or unprocurable in sufficient time or procurable with difficulty or at an excessive cost. (b) Further Holmbury may supersede, materially alter or abandon the design or type of the Goods contracted for, and may substitute another design or type. In exercising this right, Holmbury shall give written notice to the Customer and the Customer may within 14 days after such notice is given, terminate the contract by giving notice to Holmbury. If the contract is so terminated, the deposit, if any, shall be returned to the Customer, but no other claim for loss or damage may be made. (c) If, in the opinion of Holmbury, there is no design or type which could reasonably be substituted under sub-clause (b) of this clause Holmbury's obligation to complete performance or the contract shall be suspended until such time as a substitute therefore can be found and becomes available. **8. LIABILITY FOR DEFECTS:** (a) If any defect is discovered in the Goods within twelve months of their delivery or the date up to which delivery could have been made to the customer, and is shown to be due solely to defective materials or workmanship or to the failure of the Goods to perform in accordance with any plans or specifications referred to in Holmbury's quotation or acceptance of order (subject to customarily accepted tolerance) then Holmbury will at its own option, either repair or replace the defective part or parts of the Goods (or will allow the Customer credit for the price paid in respect of the Goods), and Holmbury will make no charge for any such repair or replacement. These conditions shall apply to repaired or replaced parts. (b) The undertaking given in sub-clause (a) of this clause is subject to the provisions of Clause 9 and 10 below and to the following conditions: (i) That the Customer shall return the defective part or parts of the Goods to Holmbury's works (or to such other place as Holmbury may specify), as soon as after discovery of the defect as is reasonably practicable, and in any event not later than 28 days after discovery of the defect; (ii) That the cost of transporting the defective part or parts of the Goods to and from Holmbury's works shall be paid by the Customer; (iii) That the Customer shall give written notice to Holmbury specifying the nature of the defects in the part or parts of the Goods so returned; (iv) That the Goods had been used and maintained properly and carefully and in accordance with any instruction issued by Holmbury. (c) The undertaking contained in sub-clause (a) does not apply to goods or any part of goods not manufactured by Holmbury. In the case of such goods, Holmbury will use its best endeavours to pass on to the Customer the benefit of any guarantee, condition, warranty or servicing arrangement received by Holmbury from the manufacturer of such goods, but Holmbury shall be under no liability whatsoever, for any defect in such goods. (d) In the case of a part or parts being replaced under the provisions of this clause, the original of such part or parts shall become the property of Holmbury without payment. (e) Save as above provided, Holmbury shall be under no liability by reason of the manufacture, sale or delivery of any goods which do not comply with or have not been made to comply with, the specification or description applicable to this contract, and the Customer accepts Holmbury's obligation above in lieu of any remedy or right he might otherwise have in respect of such delivery, notwithstanding that failure to provide goods which comply with the contract, or which have been made so to comply, be due to negligence on the part of Holmbury, its servants, agent, sub-contractors or others. **9. EXCLUSIONS:** (a) subject to clause 8 hereof, all conditions and warranties in respect of the Goods relating to quality, fitness for purpose, merchantability or otherwise, whether implied by statute or by common law or otherwise, are hereby excluded. (b) Without prejudice to the generality of the foregoing, any warranty or condition as to performance or suitability for any particular purpose of the Goods, and in particular any warrant or condition that the specification design or other details of the Goods will meet any particular requirement of any national or local authority or regulations or by-laws affecting the same, except as agreed in writing with the customer, in respect of any such requirements regulations or by-laws notified to Holmbury by the Customer on or before the making of the contract is hereby excluded. **10. PRODUCT LIABILITY AND CONSEQUENTIAL LOSS:** (a) The Customers will, on or before delivery of the Goods as herein provided, if so requested by Holmbury, enter into a written undertaking to take such steps as may be specified to the Customer by Holmbury, and set out in such undertaking relating to the safe and proper use of the Goods, without risk to health. The Customer shall indemnify Holmbury in respect of any liability, monetary penalty, or fine in respect of, or in connection with, the Goods incurred by Holmbury under the Health and Safety at Work Act 1974 or any statutory modification or re-enactment thereof or any regulations orders or directions made thereunder. (b) In no circumstances, whatsoever shall Holmbury be liable in contract or tort or otherwise for any consequential or indirect damage or loss, howsoever caused. **11. DAMAGES:** In the event, Holmbury's liability to the customer in respect of the consequences of any breach or non-performance of this contract however caused or arising, shall be limited to the price of the goods. **12. DRAWINGS, DESCRIPTION, ETC.:** All drawings, photographs, illustrations, specifications, performance data, dimensions, weights and all the like, whether contained in the contract or made by way of representation, have been provided by Holmbury in the belief that they are as accurate as reasonably possible, but they do not constitute a description of the Goods, shall not be taken to be representations made by Holmbury, and are not warranted to be accurate. **13. TERMINATION OF THE CONTRACT:** (a) Without prejudice to any other rights which Holmbury may have, Holmbury shall be entitled, on giving written notice to the Customer, to determine any contract forthwith demand immediate payment of any amount due or accruing due to Holmbury thereunder, and to retain any deposits if any of the following circumstances occur; (i) The Customer, not being a body corporate, becomes bankrupt or compounds or makes any arrangements with his creditors or commits any act of bankruptcy; (ii) The Customer, being a body corporate goes into liquidation whether compulsory or voluntary (save for the purpose of reconstruction or amalgamation) or has a receiver appointed, of its undertaking or assets or any part thereof. (b) On termination of the contract by Holmbury under sub-clause (a) of this clause, Holmbury shall have a general lien over all materials and property belonging to the Customer, which are in the possession of Holmbury for any sum due under, or in connection with, this contract or any other contract. Holmbury shall be entitled to sell such materials or property and to re-sell the Goods. **14. FORCE MAJEURE:** In the event of any delay affecting the performance of this contract by reason of any cause arising from, or attributable to acts, events, the non-occurrence of events, omissions or other accidents or matters beyond the reasonable control of Holmbury, including but not limited to the following matters, whether affecting Holmbury's own operation or those of any supplier, sub-contractor or transport contractor: (i) Strikes, lockouts or any other labour disputes (regardless of the reasonableness of the demands of labour or management's or shortage of labour); (ii) Civil commotion, riots, invasion, war or warlike state (Whether war be declared or not) or the breaking off of diplomatic relations or sabotage; (iii) Fire, explosion, storm, flood, earthquake, fog, subsidence, epidemics; (iv) Voluntary or mandatory compliance with any directions or order of any person having or appearing to have authority of the Government, whether local or national, for defence or other statutory or national purposes; (v) Inability, difficulty or delay in obtaining, or shortages of suitable raw materials, equipment, fuel, power, components or transportation. Holmbury shall be under no liability for loss or injury suffered by the Customer thereby; and the contract shall be suspended during such delay, upon the cessation of the cause of the delay, the contract shall again become operative, provided that, if as a result of such delay, a modification of the terms of the contract or cancellation thereof is requested by one party, and it is reasonable that such modification or cancellation should be made, the contract shall be so modified or cancelled, and the in the case of cancellation a proper proportion of the price shall be paid for any expenditure incurred by Holmbury or any benefit conferred upon the Customer. **15. INDUSTRIAL PROPERTY:** The Customer shall indemnify Holmbury from all claims, demands, damage, penalties, costs, expenses or liability in respect of the infringement of any letters patent, registered design, design copyright, copyright or other industrial property right or breach of confidence (not being a breach by Holmbury), resulting from or arising in the performance of this contract or of any contract in accordance with the terms of this contract. Holmbury does not warrant that the supply or use of the Goods in the United Kingdom or elsewhere is not an infringement of the rights of third parties in industrial property. **16. MISCELLANEOUS:** If any of these conditions, or any part of one of these Conditions is rendered void by any legislation to which it is subject, it shall be void to the extent and no further. If any of these Conditions or any part of one of these Conditions is rendered unenforceable by any legislation to which it is subject, it shall be enforceable to the extent that it is not a fair or reasonable one to be included but no further. **17. LEGAL CONSTRUCTION:** Unless otherwise agreed in writing, this contract shall in all respects be construed and governed by the Law of England, and the Customer submits to the jurisdiction of the Courts of England.



## HOLMBURY, INC. TERMS & CONDITIONS OF SALE

**1: DEFINITIONS** In these Terms and Conditions "Holmbury" shall mean Holmbury Inc. a Delaware Corporation, "the Customer" shall mean the person or persons or firm or company to whom any quotation is addressed or with whom any contract is made and "the Goods" shall mean the goods or any part thereof, agreed to be sold as described on the face hereof, and any repaired, replaced or spare part. "The Delivery Date" shall mean the date notified to the Customer by Holmbury under Clause 4 hereof. **2: CONTRACT** (a) All quotations given, and all contracts made by Holmbury are subject to these terms, conditions, and exceptions contained herein, and all conditions and exceptions referred to by the Customer or contained in any order, acceptance of estimate or quotation, or otherwise brought to Holmbury's notice are hereby excluded. (b) Quotations issued by Holmbury are not offers capable of acceptance so as to make a binding contract. All orders placed with Holmbury require its acceptance before any contract arises. Any delivery period shall run from the date of such acceptance. (c) No servant or agent of Holmbury has any authority to make any representation, or to give any warranty relating to the Goods or to agree to any variation of, or addition to these conditions, unless such representation, warranty, variation, or addition is expressed in writing and signed on behalf of Holmbury by a duly appointed officer and is incorporated or referred to in Holmbury's quotation or acceptance of order. (d) These conditions, together with any special terms and conditions specified on the quotation, or acceptance of order issued by Holmbury and any drawings plans, or other documents referred to therein, shall on acceptance by Holmbury of the Customer's order constitute the entire agreement between Holmbury and the Customer to the exclusion of any antecedent or contemporaneous written or oral understandings, agreements, or representations in respect of the supply of the Goods. **3: PRICES AND PAYMENT** (a) All prices quoted in the contract are F.O.B. the port of shipment selected by Holmbury or ex Holmbury's warehouse or otherwise as may be specified in Holmbury's quotation or acceptance of order and are those prevailing at the time of the contract, but the prices ruling at the date of delivery shall apply and shall be paid by the Customer. Holmbury may add to the prices quoted in the contract a sum sufficient to compensate Holmbury for any increase in the cost to Holmbury of producing the Goods occurring after the date of the quotation (including, but not limited to increases in the costs of labor, raw materials, bought in parts, transport and overheads) and to preserve Holmbury's profit margin. (b) If work is suspended or slowed down because of the Customer's instructions, lack of instructions, or failure to supply specifications or parts, additional charges may be made. (c) Unless the prices quoted in the contract are expressly shown to include Sales Tax, all prices are subject to the addition of such Tax (where applicable). (d) Unless otherwise agreed in writing with the Customer or stated on the face of any Quotation, Purchase Order, Acknowledgment or Invoice, the price of the Goods shall be paid to Holmbury in full in cash not later than thirty (30) days following the date of Holmbury's invoice in respect of the Goods. Interest shall be due and payable to Holmbury for late payment at the rate of 6% per annum from the due date of payment of Holmbury's invoice (as well as before any judgement) until payment is actually received by Holmbury. (e) All amounts due to Holmbury in respect of the supply of the Goods shall be paid at the offices of Holmbury, Inc. at 33801 Curtis Boulevard, Suite 104, Eastlake, Ohio 44095. (f) If where the price payable in respect of the Goods is due otherwise than in advance of or on delivery of the Goods, in the reasonable opinion of Holmbury, the credit rating of the Customer becomes unsatisfactory prior to delivery, or if the Customer fails to perform or observe any obligations on his part to be performed or observed under this or any other contract made with Holmbury, Holmbury shall be entitled at its discretion to delay delivery of the Goods until payment therefore is rendered by the Customer or until such obligations are duly performed or observed or by notice in writing to the Customer unilaterally to cancel the contract for the supply of Goods. **4: DELIVERY AND RISKS** (a) Delivery is to take place F.O.B. the port of shipment selected by Holmbury or ex Holmbury's warehouse as may be specified in Holmbury's quotation or acceptance of order, unless otherwise specified by Holmbury, and the risks of damage to or destruction of the Goods shall thereupon pass to the Customer. If delivery is delayed due to any act of the Customer for whatever reason, such risk shall pass on the date on which delivery would have taken place but for such act. (b) Any delivery date or delivery period, whether stated in the contract or otherwise notified to the Customer is an estimate only and Holmbury shall not be liable for any loss or damage whatsoever caused by the failure to make delivery on such date or within such period. **5: PROPERTY** (a) Although risk in Goods shall pass to the Customer, as provided in Clause 4 above, title to the Goods shall not then pass to the Customer, but shall remain in Holmbury until the Customer has paid to Holmbury all sums owing or due to Holmbury on any account whatsoever and has duly performed or observed all obligations of whatsoever kind on Customer's part to be performed or observed under this or any other contract made with Holmbury provided always that the Customer shall indemnify Holmbury against all claims, demands, damages, penalties, costs, expenses or liabilities arising out of or in connection with Holmbury's continued ownership of the Goods. (b) While the Goods remain the property of Holmbury, Holmbury may retake possession of them at any time without notice to the Customer and for this purpose Holmbury may by its servants or agents enter upon any land or premises where it believes the Goods may be in order to possess such Goods. (c) The Customer may sell the Goods and deliver them to the purchaser thereof provided that the Customer does so in the ordinary course of its business. Notwithstanding any agreement or provision for the granting of credit by Holmbury to the Customer, the Customer shall account to Holmbury for the proceeds of such sale, and pending such accounting, shall hold such proceeds of sale as fiduciary for Holmbury. If Holmbury so requires, the Customer will assign any debt due from such purchaser to Holmbury. (d) The provision of Clause 5(a), (b) and (c) above shall continue to apply to the Goods notwithstanding any admixture with other Goods or other use or transformation of the Goods by any process of manufacture. **6: STORAGE** Holmbury shall be entitled to store the Goods, either at their own premises or elsewhere at the Customer's expense, in the following circumstances: (a) if the Goods are delivered F.O.B. ex Holmbury's warehouse, where the Customer fails to take delivery on the due date: or (b) if the Goods are delivered by the Customer to a specified place: (i) where Holmbury is ready to transport the Goods, but needs delivery instructions and such instructions have not been provided by the Customer; or (ii) where Holmbury is ready to transport the Goods and the Customer is or will be unable to accept delivery when tendered. **7: ALTERATIONS AND IMPROVEMENTS** (a) Holmbury or its sub-contractors may carry out without notice to the Customer alterations or improvements in design, materials, or methods of manufacture from time to time, and may substitute other reasonably similar parts for any proprietary or special part ordered by the Customer, which Holmbury or its sub-contractors considers to be unobtainable, or unobtainable in sufficient quantities or unobtainable in sufficient time or procurable with difficulty or at an excessive cost. (b) Further, Holmbury may supersede, materially alter, or abandon the design or type of the Goods contracted for and may substitute another design or type. In exercising this right, Holmbury shall give written notice to the Customer and the Customer may within 14 days after such notice is given, terminate the contract by giving notice to Holmbury. If the contract is so terminated, the deposit, if any, shall be returned to the Customer, but no other claim for loss or damage may be made. (c) If, in the opinion of Holmbury, there is no design or type which could reasonably be substituted under sub-clause (b) of this clause Holmbury's obligation to complete performance or the contract shall be suspended until such time as a substitute therefore can be found and becomes available. **8: WARRANTY** (a) If any defect is discovered in the Goods within twelve months of their delivery or the date up to which delivery could have been made to the customer, and is shown to be due solely to defective materials or workmanship or to the failure of the Goods to perform in accordance with any plans or specifications referred to in Holmbury's quotation or acceptance of order (subject to customarily accepted tolerance) then Holmbury will at its own option, either repair or replace the defective part or parts of the Goods (or will allow the Customer credit for the price paid in respect of the Goods), and Holmbury will make no charge for any such repair or replacement. These conditions shall apply to repaired or replaced parts. EXCEPT AS SPECIFICALLY STATED IN THIS SECTION, THE SALE SHALL BE "AS-IS" AND HOLMBURY MAKES NO OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES AS TO THE NON-INFRINGEMENT, MERCHANTABILITY OR AS TO THE FITNESS OF THE GOODS FOR ANY PARTICULAR USE OR PURPOSE, AND HOLMBURY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECTLY OR INDIRECTLY, ARISING FROM THE USE OF SUCH GOODS. (b) The undertaking given in sub-clause (a) of this clause is subject to the provisions of Clause 9 and 10 below and to the following conditions: (i) That the Customer shall return the defective part or parts of the Goods to Holmbury's works (or to such other place as Holmbury may specify), as soon as after discovery of the defect as is reasonably practicable, and in any event not later than 28 days after discovery of the defect; (ii) that the cost of transporting the defective part or parts of the Goods to and from Holmbury's works shall be paid by the Customer; (iii) that the Customer shall give written notice to Holmbury specifying the nature of the defects in the part or parts of the Goods so returned; (iv) that the Goods had been used and maintained properly and carefully and in accordance with any instruction issued by Holmbury. (c) The undertaking contained in sub-clause (a) does not apply to goods or any part of goods not manufactured by Holmbury. In the case of such goods, Holmbury will use its best efforts to pass on to the Customer the benefit of any guarantee, condition, warranty or servicing arrangement received by Holmbury from the manufacturer of such goods, but Holmbury shall be under no liability whatsoever, for any defect in such goods. (d) In the case of a part or parts being replaced under the provisions of this clause, the original of such part or parts shall become the property of Holmbury without payment. **9: EXCLUSIONS** (a) Subject to clause 8 hereof, all conditions and warranties in respect of the Goods relating to quality, fitness for purpose, merchantability or otherwise, whether implied by statute or by common law or otherwise, are hereby excluded. (b) Without prejudice to the generality of the foregoing, any warranty or condition as to performance or suitability for any particular purpose of the Goods, and in particular any warrant or condition that the specification design or other details of the Goods will meet any particular requirement of any national or local authority or regulations or bye-laws affecting the same, except as agreed in writing with the customer, in respect of any such requirements regulations or bye-laws notified to Holmbury by the Customer on or before the making of the contract is hereby excluded. **10: PRODUCT LIABILITY AND DISCLAIMER OF CONSEQUENTIAL DAMAGES** (a) The Customer will, on or before delivery of the Goods as herein provided, if so requested by Holmbury, enter into a written undertaking to take such steps as may be specified to the Customer by Holmbury, and set out in such undertaking relating to the safe and proper use of the Goods, without risk to health. The Customer shall indemnify Holmbury in respect of any liability, monetary penalty, or fine in respect of, or in connection. (b) IN NO EVENT SHALL HOLMBURY BE LIABLE FOR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT AND/OR ANY SALE OF GOODS TO CUSTOMER, INCLUDING, WITHOUT LIMITATION, BREACH OF ANY OBLIGATION IMPOSED ON HOLMBURY HEREUNDER OR IN CONNECTION HERewith. CONSEQUENTIAL DAMAGES FOR PURPOSES HEREOF SHALL INCLUDE, WITHOUT LIMITATION, LOSS OF USE, INCOME OR PROFIT, OR LOSSES SUSTAINED AS THE RESULT OF INJURY; INCLUDING DEATH TO ANY PERSON, OR LOSS OF OR DAMAGE TO PROPERTY (INCLUDING, WITHOUT LIMITATION, PROPERTY HANDLED OR PROCESSED BY THE USE OF THE GOODS). CUSTOMER SHALL INDEMNIFY HOLMBURY AGAINST ALL LIABILITY, COST OR EXPENSE WHICH MAY BE SUSTAINED BY SELLER ON ACCOUNT OF ANY SUCH LOSS, DAMAGE OR INJURY. **11: LIMITATION OF LIABILITY** HOLMBURY'S LIABILITY (WHETHER UNDER THE THEORIES OF BREACH OF CONTRACT OR WARRANTY, NEGLIGENCE, OR STRICT LIABILITY) FOR ITS GOODS SHALL BE LIMITED TO REPAIRING OR REPLACING PARTS FOUND BY HOLMBURY TO BE DEFECTIVE OR AT HOLMBURY'S OPTION, TO REFUNDING THE PURCHASE PRICE OF SUCH GOODS OR PARTS THEREOF. CUSTOMER WILL SEND, AT HOLMBURY'S SOLE EXPENSE, ANY ALLEGEDLY DEFECTIVE PARTS AS INSTRUCTED BY HOLMBURY. **12: DRAWINGS, DESCRIPTION, ETC** All drawings, photographs, illustrations, specifications, performance data, dimensions, weights and all the like, whether contained in the contract or made by way of representation, have been provided by Holmbury in the belief that they are as accurate as reasonably possible, but they do not constitute a description of the Goods, shall not be taken to be representations made by Holmbury, and are not warranted to be accurate. **13: TERMINATION OF THE CONTRACT** (a) Without prejudice to any other rights which Holmbury may have, Holmbury shall be entitled, on giving written notice to the Customer, to determine any contract forthwith demand immediate payment of any amount due or accruing due to Holmbury thereunder, and to retain any deposits if any of the following circumstances occur: (i) The Customer becomes bankrupt or compounds or makes any arrangements with his creditors or commits any act of bankruptcy; (ii) The Customer goes into liquidation whether compulsory or voluntary (save for the purpose of reconstruction or amalgamation) or has a receiver appointed, of its undertaking or assets or any part thereof. (b) On termination of the contract by Holmbury under sub-clause (a) of this clause, Holmbury shall have a general lien over all materials and property belonging to the Customer, which are in the possession of Holmbury for any sum due under, or in connection with, this contract or any other contract. Holmbury shall be entitled to sell such materials or property and to re-sell the Goods. **14: FORCE MAJEURE** In the event of any delay affecting the performance of this contract by reason of any cause arising from, or attributable to acts, events, the non-occurrence of events, omissions or other accidents or matters beyond the reasonable control of Holmbury, including but not limited to the following matters, whether affecting Holmbury's own operation or those of any supplier, sub-contractor or transport contractor; (i) strikes, lockouts or any other labor disputes (regardless of the reasonableness of the demands of labor or management or shortage of labor); (ii) civil commotion, riots, invasion, war or warlike state (whether war be declared or not) or the breaking off of diplomatic relations or sabotage; (iii) fire, explosion, storm, flood, earthquake, fog, subsidence, epidemics and/or pandemics; (iv) voluntary or mandatory compliance with any directions or order of any person having or appearing to have authority of the Government, whether local or national, for defense or other statutory or national purposes; (v) inability, difficulty or delay in obtaining, or shortages of suitable raw materials, equipment, fuel, power, components or transportation. Holmbury shall be under no liability for loss or injury suffered by the Customer thereby; and the contract shall be suspended during such delay, upon the cessation of the cause of the delay, the contract shall again become operative, provided that, if as a result of such delay, a modification of the terms of the contract or cancellation thereof is requested by one party, and it is reasonable that such modification or cancellation should be made, the contract shall be so modified or cancelled, and in the case of cancellation a proper proportion of the price shall be paid for any expenditure incurred by Holmbury or any benefit conferred upon the Customer. **15: INDUSTRIAL PROPERTY** The Customer shall indemnify Holmbury from all claims, demands, damage, penalties, costs, expenses or liability in respect of the infringement of any letters patent, registered design, design copyright, copyright or other industrial property right or breach of confidence (not being a breach by Holmbury), resulting from or arising in the performance of this contract or of any contract in accordance with the terms of this contract. Holmbury does not warrant that the supply or use of the Goods in the United States of America or elsewhere is not an infringement of the rights of third parties in industrial property. **16: MISCELLANEOUS** If any of these conditions, or any part of one of these Conditions is rendered void by any legislation to which it is subject, it shall be void to the extent and no further. If any of these Conditions or any part of one of these Conditions is rendered unenforceable by any legislation to which it is subject, it shall be enforceable to the extent that it is not a fair or reasonable one to be included but no further. **17: LEGAL CONSTRUCTION** Ohio Law Applies. The laws of the State of Ohio, without giving effect to its principles of conflicts of law, govern all proceedings arising out of these Terms and Conditions. The parties agree that any litigation arising out of these Terms and Conditions or concerning the rights and obligations hereunder, shall be commenced and maintained in the appropriate court located in and having jurisdiction over Cuyahoga County, Ohio. **18: PRIVACY POLICY** The Customer has read and agrees to the information contained in our Privacy Policy (which can be found on our website or provided upon request).



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