

B6M SERIES

3/2 NORMALLY CLOSED OR NORMALLY OPEN 2/2 NORMALLY OPEN

Valves are actuated by a direct solenoid. Maximum operating pressure is proportional to the orifice size. A smaller orifice enables a higher operating pressure. They are suitable for use with air, water or light oil. The B6M3 valves have a threaded exhaust port and are configured either normally open or normally closed. 2-port normally open valves are also available.

SPECIFICATIONS

Pressure

Operating pressure range:

Refer to Table.

Minimum pressure differential:

0 kPa (0 psi)

Ambient Temperatures

-34°C to +40°C (-29°F to +104°F)

Fluid Temperatures

Nitrile and Viton seals:

Fluid temperature range

-34°C to +82°C (-29°F to +180°F)

EPDM seals:

Fluid temperature range

0°C to +95°C (+32°F to +203°F)

Approvals and Standards

ISO 9001 Quality Management System, Certificate: QEC0366

Watermark certificate number: WMKA00172

C-Tick Mark, Supplier Code: N282

UL Listing: File YIOZ.MH9011

CE Compliance to Directives

2006/95/EC and 2004/108/EC

RoHS Compliance to Directive

2002/95/EC

Part Number Code:

1 B 6 M 3 - B N B N T - 6 0 4 3

Orifice Size

1	1.6 mm (0.062")
2	2.4 mm (0.093")
4	3.2 mm (0.125")

Valve Size

B6M 1/4" pipe thread

Number of Ports

Blank 2 ports (normally open)
3 3 ports

Internal Construction

A Normally closed, 3/2 valves only
B Normally open, 2/2 and 3/2 valves

Special Features

N No special features
U UL Listed (for AC coils only)
W Australian Watermark Approval (Brass with EPDM only)
X Cleaned for Oxygen service (Viton seals only)

Body Material

B Brass - Alloy 352 (DR - Dezincification Resistant)
N Brass with electroless nickel plating
S Stainless Steel - Alloy 303

Seal Material

E EPDM
N Nitrile
V Viton

Port Thread

T RC Thread (BSPT) - brass and nickel-plated bodies only
P RP Thread (BSPP) - stainless steel bodies only

Coil Options
See page 32.



OPERATING PRESSURE RANGE

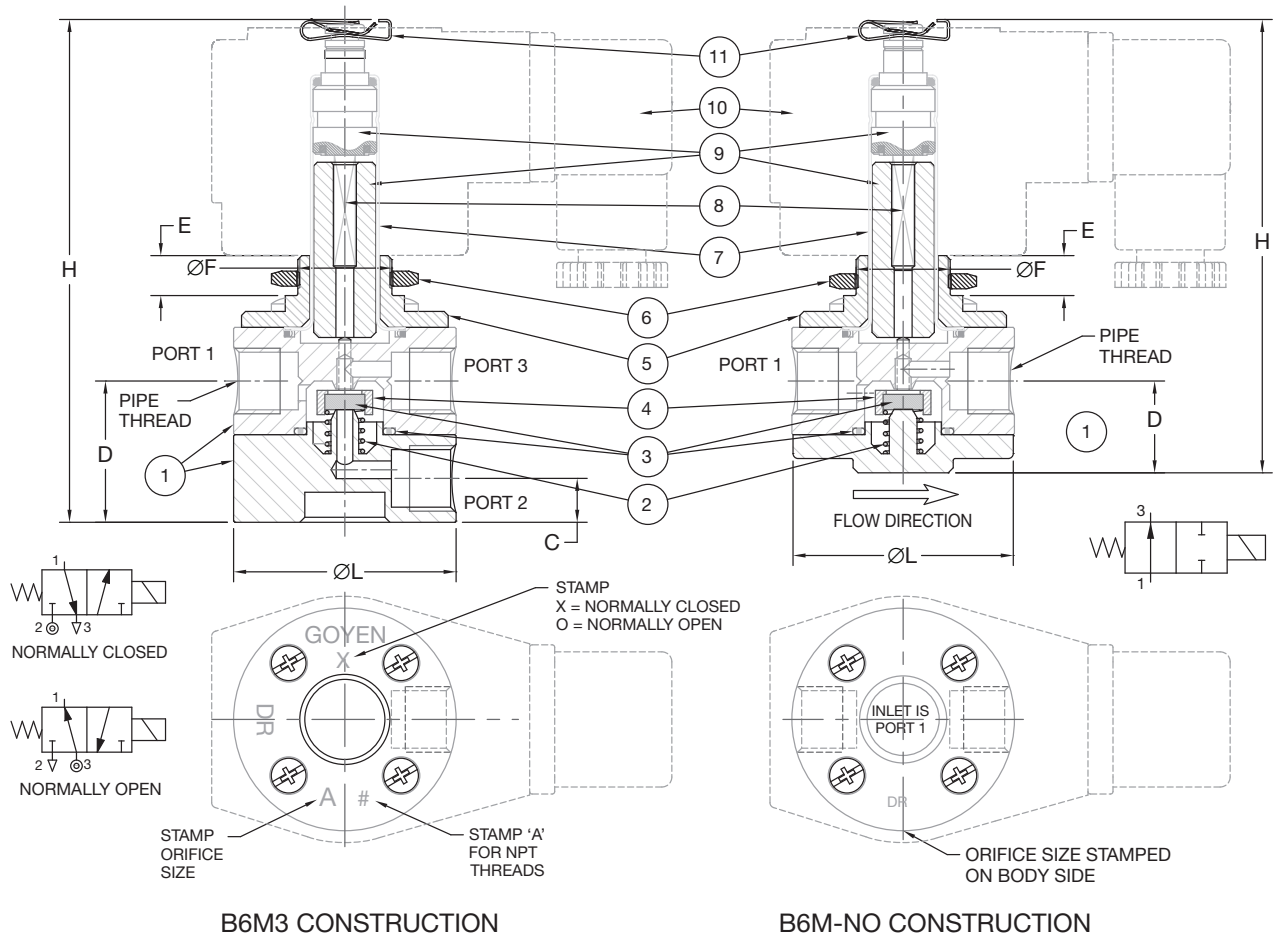
VALVE TYPE	VALVE ORIFICE	PRESSURE	
		KPA	PSI
2/2 NO	1	0 to 2100	0 to 300
	2	0 to 1200	0 to 175
	4	0 to 1000	0 to 150
3/2 NO & NC	1	0 to 860	0 to 125
	2	0 to 400	0 to 60
	4	0 to 200	0 to 30

CONNECTION AND FLOW

VALVE ORIFICE	PIPE SIZE		ORIFICE SIZE		FLOW FACTOR	
	MM	INCH	MM	INCH	CV	KV
1	6	1/4	1.6	0.062	0.1	0.09
2	6	1/4	2.4	0.093	0.2	0.17
4	6	1/4	3.2	0.125	0.3	0.26

DIMENSIONS

VALVE MODEL	PIPE THREAD	ØL		H		C		D		E		ØF	
		MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH
B6M3	1/4"	44.5	1.75	101.0	3.98	8.8	0.35	28.2	1.11	8.0	0.31	19.0	0.75
B6M	1/4"	44.5	1.75	91.0	3.58	-	-	7.6	0.30	8.0	0.31	19.0	0.75



B6M3 CONSTRUCTION

B6M-NO CONSTRUCTION

PORT DESIGNATION (B6M3)*

PORT	NORMALLY CLOSED	NORMALLY OPEN
Inlet	Port 2	Port 3
Outlet	Port 1	Port 1
Exhaust	Port 3	Port 2

* Note: Valves are not interchangeable between normally open and normally closed. Different springs are used.

SPARE PARTS KITS – STANDARD COILS

Kits consist of plunger, springs and seals

MODEL	NITRILE	VITON	EPDM
B6M – NO	KM1336	KM1413	KM1415
B6M3 – NO	KM1336	KM1413	KM1415
B6M3 – NC	KM1337	KM1416	KM1418

SPARE PARTS KITS – BH COILS

Kits consist of plunger, springs and seals

MODEL	NITRILE	VITON	EPDM
B6M – NO	KM1815	KM1816	KM1817
B6M3 – NO	KM1815	KM1816	KM1817
B6M3 – NC	KM1818	KM1819	KM1820

CONSTRUCTION

ITEM	DESCRIPTION	MATERIAL
1	Body and Seat	See part number code
2	Valve Spring*	304 Stainless Steel
3	Seals	Nitrile, Viton or EPDM
4	Valve	Polyamide 66
5	Ferrule Retainer	Same as body material
6	Locknut 3.0mm (0.12") thick	Plated steel
7	Ferrule Tube	305-4F Stainless Steel
8	Plunger Spring*	304 Stainless Steel
9	Plunger and Iron-top	430FR Stainless Steel
10	Coil Assembly	Refer to page 32.
11	Coil Clip	Plated steel

* Note: Valves are not interchangeable between normally open and normally closed. Different springs are used.