



# Industrial Flow Control Product Guide

## CONTENTS

**GENERAL INDUSTRIAL CONTROL VALVES.....Page 3**

- HOW TO ORDER GOYEN MANUFACTURED VALVES.....Page 4
- Direct Lift.....Page 5
- Pilot Operated - Air, Water and Light Oil .....Page 6
- Pilot Operated Air or Gas.....Page 7
- Custom Designed Valves .....Page 7
- Ø Contact Details.....Page 8

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### ØØ GENERAL INDUSTRIAL CONTROL VALVES

A selection/range of process and fluid control valves by CKD Corporation and Goyen. Pilot operated normally closed and normally open general purpose control valves available to suit gas, water, steam and light oil application. Direct lift valves in normally open and closed configurations in solenoid actuated configuration, stainless steel valves and PTFE plastic valves for corrosive applications.



## **A COMPREHENSIVE RANGE OF INDUSTRIAL FLUID CONTROL SOLUTIONS**

*Solenoid operated valves are devices that control the flow of liquids or gases. Goyen manufactures and distributes valves that are designed for specific applications relating to the control of Gas, Fuel, Air, Water or Steam. There are two principal types of operation for solenoid valves – Direct Lift and Pilot Operated.*

*DIRECT LIFT VALVES – In these models, movement of the plunger directly opens or closes the valve as the sealing disc is attached to the plunger. The valve will operate from zero pressure differential to its maximum rated pressure. Direct Lift Valves are available in normally open or normally closed configuration.*

*PILOT OPERATED VALVES – These models are equipped with a diaphragm or piston which provides the seal for the main valve orifice. These valves are used to handle much greater flow or pressure requirements than direct acting valves.*

*Two designs of pilot operated valves are available, either a floating diaphragm which requires a small pressure drop across the main valve orifice to remain in the open position, or a coupled diaphragm which is mechanically held open via a direct linkage to the solenoid plunger. The coupled design will operate with zero pressure drop across the main valve orifice.*

*Both Direct Lift and Pilot Operated Valves are available in normally open or normally closed configuration.*

*2-WAY VALVES – These valves have one inlet port and one outlet port and are used as an on/off valve to control the flow of liquids or gases.*

*3-WAY VALVES – These valves enable the application and release of pressure from closed end systems, such as the air piloted operation of hydraulic or pneumatic control valves or single acting cylinders.*





## GENERAL INDUSTRIAL CONTROL VALVES

### DIRECT LIFT

#### Q3M Series • 2 Way • Normally Closed

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
1Q3M	3	1/8	0-1400	0-200	1.5	0.062	0.1	0.09	◆
2Q3M	3	1/8	0-1000	0-150	2.3	0.093	0.2	0.17	◆
3Q3M	3	1/8	0-700	0-100	2.8	0.109	0.3	0.26	◆
4Q3M	3	1/8	0-500	0-75	3.2	0.125	0.3	0.26	◆



#### B6M & BL Series • 2 Way • Normally Closed

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
1B6M	6	1/4	0-2100	0-300	1.5	0.06	0.1	0.09	◆
2B6M	6	1/4	0-1200	0-175	2.3	0.09	0.2	0.18	◆
4B6M	6	1/4	0-1000	0-150	3.2	0.13	0.3	0.26	◆
5B6M	6	1/4	0-400	0-60	4.7	0.19	0.5	0.43	◆
6B6M	6	1/4	0-200	0-30	6.3	0.25	0.7	0.6	◆
10BL2	10	3/8	0-70	0-10	9.5	0.38	2.1	1.81	◆
12BL2	12	1/2	0-40	0-6	12.7	0.50	3.5	3.01	◆



#### B6M & Q3M Series • 2 Way • Normally Open

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
1B6M	6	1/4	0-2100	0-300	1.5	0.06	0.1	0.09	◆
2B6M	6	1/4	0-1200	0-175	2.3	0.09	0.2	0.18	◆
4B6M	6	1/4	0-1000	0-150	3.2	0.13	0.3	0.26	◆
1Q3M	3	1/8	0-1400	0-200	1.5	0.062	0.1	0.09	◆
4Q3M	3	1/8	0-500	0-75	3.2	0.125	0.3	0.26	◆



#### Q3M & B6M Series • 3 Way • Normally Closed

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
1Q3M3	3	1/8	0-860	0-125	1.5	0.06	0.1	0.09	◆
2Q3M3	3	1/8	0-400	0-60	2.4	0.09	0.2	0.18	◆
4Q3M3	3	1/8	0-200	0-30	3.2	0.13	0.3	0.26	◆
1B6M3	6	1/4	0-860	0-125	1.5	0.06	0.1	0.09	◆
2B6M3	6	1/4	0-400	0-60	2.4	0.09	0.2	0.18	◆
4B6M3	6	1/4	0-200	0-30	3.2	0.13	0.3	0.26	◆



NOTE: 3 ways can be Normally Closed or Normally Open.

HOW TO ORDER: Refer to HOW TO ORDER GUIDE on page 20.

◆ Available ex stock.

## GENERAL INDUSTRIAL CONTROL VALVES

PILOT OPERATED • AIR WATER,  
LIGHT OIL & MOST FLUIDS

### BW Series • Brass Body • Normally Closed

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
6BW2	6	1/4	20-1000	3-150	6.4	0.25	1.1	0.95	◆
10BW2	10	3/8	20-1000	3-150	11.0	0.38	2.1	1.81	◆
12BW2	12	1/2	20-1000	3-150	12.7	0.50	3.5	3.01	◆
20BW2	20	3/4	20-1000	3-150	19.0	0.75	7.7	6.62	◆
25BW3	25	1	20-1000	3-150	25.4	1.00	13.2	11.18	◆
40BW2	40	1 1/2	20-1000	3-150	38.1	1.50	24.0	20.64	◆



### QW Series • Brass Body • Normally Closed

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
6QW2	6	1/4	20-1000	3-150	6.4	0.25	1.1	0.95	◆
10QW2	10	3/8	20-1000	3-150	11.0	0.38	2.1	1.81	◆
12QW2	12	1/2	20-1000	3-150	12.7	0.50	3.5	3.01	◆



### BWJ Series • Brass Body • Normally Closed

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
6BWJ2	6	1/4	0-1000	0-150	6.4	0.25	1.1	0.95	◆
10BWJ2	10	3/8	0-1000	0-150	11.0	0.38	2.1	1.81	◆
12BWJ2	12	1/2	0-1000	0-150	12.7	0.50	3.5	3.01	◆
20BWJ2	20	3/4	0-700	0-100	19.0	0.75	7.7	6.62	◆
25BWJ3	25	1	0-400	0-60	25.4	1.00	13.2	11.18	◆

### QWJ Series • Brass Body • Normally Closed

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
6QWJ2	6	1/4	0-1000	0-150	6.4	0.25	1.1	0.95	◆
10QWJ2	10	3/8	0-1000	0-150	11.0	0.38	2.1	1.81	◆
12QWJ2	12	1/2	0-1000	0-150	12.7	0.50	3.5	3.01	◆

### BW Series • Brass Body • Normally Open

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
12BW2-NO	12	1/2	20-1000	3-150	12.7	0.50	3.5	3.01	◆
20BW2-NO	20	3/4	20-1000	3-150	19.0	0.75	7.7	6.62	◆
25BW3-NO	25	1	20-1000	3-150	25.4	1.00	13.2	11.18	◆
40BW2-NO	40	1 1/2	20-1000	3-150	38.1	1.50	24.0	20.64	◆

HOW TO ORDER: Refer to HOW TO ORDER GUIDE on page 20.

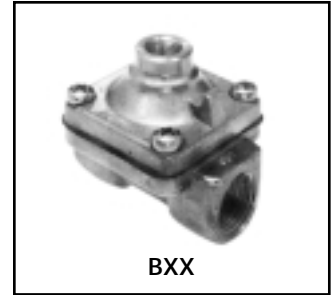
## GENERAL INDUSTRIAL CONTROL VALVES

PILOT OPERATED • AIR OR GAS

BXX Series • Brass Body

Model	Pipe Size		Pressure		Orifice Size		Cv	Kv	Class
	mm	inch	kPa	psi	mm	inch			
6BXX2	6	1/4	70-1000	10-150	6.4	0.25	1.1	0.95	◆
10BXX2	10	3/8	70-1000	10-150	11.0	0.38	2.1	1.81	◆
12BXX2	12	1/2	70-1000	10-150	12.7	0.50	3.5	3.01	◆
20BXX2	20	3/4	70-1000	10-150	19.0	0.75	7.7	6.62	◆
25BXX2	25	1	70-1000	10-150	25.4	1.00	13.2	11.18	◆

HOW TO ORDER: Refer to HOW TO ORDER GUIDE on page 20.



## CUSTOM DESIGNED VALVES

*Durable and high performance*

*Goyen design, in consultation with their clients, many unique and application specific valves to suit particular customer needs.*

*For example, Goyen has worked with Gilbarco, Rheem and Bishop Engineering to design valves to meet their specific requirements.*

*Goyen continues to liaise closely with these companies to ensure that their equipment always represents the very best and the very latest technologies.*

*We would be happy to discuss the development of a valve to your specifications.*



HOT WATER TEMPERATURE SETTING VALVE FOR RHEEM AUSTRALIA

**Australia**

Goyen Controls Co Pty Ltd  
268 Milperra Road  
Milperra  
NSW 2214

Telephone: 61 2 9792 0201  
Facsimile: 61 2 9771 5380

*Queensland*

Telephone: 61 7 3865 1644  
Facsimile: 61 7 3865 1454

*South Australia*

Telephone: 61 3 8587 9266  
Facsimile: 61 8 8241 1322

*Victoria*

Telephone: 61 3 9587 9266  
Facsimile: 61 3 9587 9267

*Western Australia*

Telephone: 61 8 9302 8800  
Facsimile: 61 8 9302 6500

**Asia**

Goyen Controls Co Pty Ltd  
Shanghai Representative Office  
457 Wu Lu Mu Qi(N) Road  
Shanghai 200040 CHINA

Telephone: 86 21 6249 8700  
Facsimile: 86 21 6249 3493

Goyen Controls Co Pty Ltd  
65-2 Jalan Mega Mendung  
Kompleks Bandar  
58200 Kuala Lumpur MALAYSIA

Telephone: 60 37 987 6839  
Facsimile: 60 37 987 7839

**USA**

Goyen Valve Corporation  
1195 Airport Road  
Lakewood  
New Jersey USA 08701

Telephone: 1 732 364 7800  
Facsimile: 1 732 364 1356

**Europe**

Goyen Controls Co UK  
Unit 3B Beechwood  
Chineham Business Park  
Basingstoke, Hampshire, RG24 8WA  
UNITED KINGDOM

Telephone: 44 1256 817 800  
Facsimile: 44 1256 843 164

Tyco Umwelttechnik GmbH  
Im Petersfeld 6  
D-65624 Altdenz  
GERMANY

Telephone: 49 6432 1001/1002  
Facsimile: 49 6432 63810

Mecair S.r.l  
Via per Cinisello 97  
1-20054 Nova Milanese  
Milano  
ITALY

Telephone: 39 0362 3751  
Facsimile: 39 0362 367 279

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

