Medical analysis Custom order Output Output

HNB/G

HSR/G

FAB/G FGB/G

FWB/G

FHB

FLB

AB

AG

AD

For

dry air Explosion

proof

HVB/

HVL

CAR/

SVB NP/NAP/

NVP

CHR/G

MXB/G

Other G.P systems

PD/FAD/

CVSE

CPE/

PJ CVE/

APK/

MXB/MXG

Motor driven 2, 3 port ball valve

For water, hot water, air, oil, corrosive fluids, steam

Overview

Water hammering is eliminated with CKD original ball opening/closing structure.

This valve is suitable for water and hot water controls, and oil and steam applications. Even with its small size, the flow rate is large and the pressure loss is small.

The outstanding sealing properties and durability enable use in a variety of applications.

Features

High quality seal

A back-up O ring ensures a high quality seal.

No burn damage in motorlocked state

Impedance and thermal protections ensure that the motor does not burn even if the ball locks.

* Always observe the cycle rate.

Forward/reverse rotation operation

(except for the MH_G^B4 Series)

No limits to pressurization direction

(except for 3-way valves)

Signal detection and manual override are provided.

Class IPX3 "rainproof" actuator protection

For standard and options T and K only.

Note that the MH_G^B4 and MHBP Series are excluded.

Motor driven proportional control ball valves are also available.



Series variation		552
▲ Safety precautions		554
Wiring diagram		557
Standard type		
2 port valve	MXB1/MXB1F	558
3 port valve	MXG1	562
High corrosion resistance		
2 port valve	MXB1-C	566
Oil-free specifications		
● 2 port valve	MXB1-N/MXB1D-N	582
3 port valve	MXG1-N/MXG1D-N	586
For steam		
2 port valve	MSB1/MSB1F	590
With relay		
2 port valve	MXB1D/MXB1DF	570
3 port valve	MXG1D	574
High corrosion resistance / w	ith relay	
2 port valve	MXB1D-C	578
For steam / with relay		
2 port valve	MSB1D/MSB1DF	594
Proportional control		
2 port valve	MXBC	598
3 port valve	MXGC	598
 Motor valve type temperature control system 	MHBP	608
Miniature type		
2 port valve	MHB4	602
3 port valve	MHG4	602
CAD Electronic Catalog file list		612

Always read the precautions in the Introduction and page 554 before starting use.

551

CKD

Series variation

Motor driven 2, 3 port ball valve

Applications/purposes	Model		Bore shape	
	Standard	MXB1	Standard bore	
General control	type	MXB1F	Full bore	
		MXG1	Standard bore	
	Miniature type	МНВ3		
Compact type		MHG3		
Compact type		MHB4	Reduced bore	
		MHG4		
Parallel operation with other	With relay	MXB1D	Standard bore	
valves is available Valve open/close at ON/OFF contact		MXB1DF	Full bore	
	₽	MXG1D	Standard bore	
	Oil-free specifications	MXB1-N		
For pure water and cleaning		MXG1-N	Standard bore	
		MXB1D-N	Standard bore	
		MXG1D-N		
	For steam	MSB1	Standard bore	
For steam and hot water		MSB1F	Full bore	
		MSB1D	Standard bore	
		MSB1DF	Full bore	
	Proportional control type	MXBC		
Accurate flow control		MXGC	Standard bore	
	2	МНВР		
Responding to service interruption	Self reset type	MHBR	Standard bore	
Acid water/alkaline water control	For ionized water	MHG4-20X913	Reduced bore	



Safety precautions

Always read this section before starting use.

Motor driven ball valve

MXB1/MXB1F/MXG1/MXB1D/MXB1DF/MXG1D/MSB1/ MSB1F/MSB1D/MSB1DF/MHB4/MHG4/MHBP

Design & Selection



A CAUTION

Fluid viscosity

Generally, the valve can be used with a fluid viscosity of up to 500 mm²/s. However, the properties may differ according to the fluid type, so consult with CKD.

2 Fluid properties

Iron rust and dirt, etc., in the fluid can cause operation faults or leaks and reduce product performance.

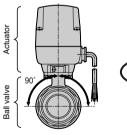
Installation, Piping & Wiring

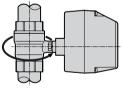


A CAUTION

Installation

- (1) Always hold the body when handling or installing the product. Do not pull the lead wires or drop the product.
- (2) Install the valve within the range between vertical position with actuator facing upward and horizontal position.
- (3) Avoid outdoor installation.





<For horizontal piping>

<For vertical piping>

2 Piping

- (1) Fix the product when tightening or reinstalling the piping. When piping to the body side, fix the body, and when piping to the cap side, fix the cap.
- (2) Fix and support the pipes so that the weight and vibration of the pipes are not directly applied on the valves.
- (3) The pressurization direction, limited for the 3-way valve, must be observed.
- (4) When using heat insulating material, do not cover the actuator

3 Wiring

- (1) Connection is shown in the wiring diagram in page 557 or is attached to the bonnet. Follow the wiring diagram.
- (2) When using the DC specifications, use a capacitance nower supply
 - An all wave or half wave rectified bridge is affected by ripples, so always use a stabilized power supply.
- (3) Avoid using a changeover switch with red and black lead wires as the signals could be input simultaneously.
- (4) Parallel operation of motor driven ball valves (excluding MXB1D/MXB1DF/MXG1D/MSB1D/MSB1DF) Do not operate more than one ball valve in parallel using the same contact. Otherwise, operation faults will occur.



In parallel operation, insert a separate contact for each ball valve.



(5) Parallel operation with other valves, etc. (excluding MXB1D/MXB1DF/MXG1D/MSB1D/MSB1DF) Do not operate in parallel with other products having different resistance, such as a solenoid valve or contact protection element, using the same contact. Otherwise, operation faults will occur.



In parallel operation, insert a contact between the ball valve and solenoid valve, etc.



- (6) When not using the signal detection wire, cut the exposed core of the yellow and green wires, and insulate the wire
- (7) When using the signal detection wire with a large capacity load or extremely small load, etc., use within the specifications of the micro switch.

Model no.	Maker name, type
MXB1/MXB1F/MXG1/MXB1D/MXB1DF/ MXG1D/MSB1/MSB1F/MSB1D/MSB1DF	OMRON SS-5
MHB4/MHG4	Matsushita Electric Works AH1680
MHBP	OMRON SS-5GL

- (8) When using in a place where water splashes on the valve, take measures to protect the lead wire connection section.
- (9) When wiring a terminal box with indicator light, do not remove the cover with force.
 - Otherwise, the crimp terminals inside could bend, and indicator lighting faults or insulation faults could occur.

HNR/G HSR/G

When Usina



WARNING

Cycle rate

Always observe the cycle rate.

Otherwise, the thermal protector could operate and stop the valve. In the locked state, a continuously energized state could be created placing a load on the gears and coils. Turn the power off immediately, and eliminate the problem. Continuing use could result in operation faults or reduce the durability.



A CAUTION

1 Signal switchover

Switch the valve signal so that the next signal is input after the valve operation ends.

If operation is stopped or if the signal is switched midway. operation faults could occur and the service life could be shortened

2 Manual operation

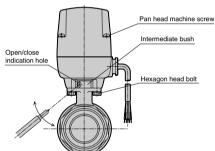
This applies to the MXB1, MXB1F, MXB1D, MXB1DF, MSB1, MSB1F, MSB1D and MSB1DF. For the large bore sizes (standard bore: Rc1 1/4 to Rc2, full bore: Rc1 to Rc1 1/2), this applies to valves with manual override "M".

<Manual operation method>

- · For the small bore sizes (standard bore: Rc3/8 to Rc1, full bore: Rc1/2 to Rc3/4), insert a cross-recessed screwdriver, etc., in the open/close indication hole on the intermediate bush of the motor valve, and slowly rotate it.
- · For the large bore sizes (standard bore: Rc1 1/4 to Rc2, full bore: Rc1 to Rc1 1/2) with manual override "M", insert a cross-recessed screwdriver, etc., under the connection key at the intermediate bush, and slowly rotate it with the clutch disengaged.
- · Rotate for about 20 seconds between the closed and open positions and vice versa.
- · For both the large and small bore sizes, rotating in the counterclockwise direction looking at the valve from above will lead to "opening", and rotating in the clockwise direction will lead to "closing".

<Pre><Precautions for manual operation>

- · Always turn the power OFF before starting.
- · Do not apply sudden force when rotating the screwdriver as the gears could be damaged.
- · For the large bore sizes (standard bore: Rc1 1/4 to Rc2, full bore: Rc1 to Rc1 1/2) with manual override "M", always return the clutch after manual operation, and make sure that the clutch is accurately connected before starting operation.
- · Manual operations must be performed only in emergencies.



Maintenance

🏔 WARNING

Never remove the bonnet.

Touching the electric parts inside could lead to electric shocks.

2 Do not disassemble the product.

If a fault occurs, do not disassemble the product. Contact your nearest dealer or CKD Sales Office. Investigation of the cause is no longer possible if the product is disassembled.



Safety precautions Always read this section before starting use.

Motor driven proportional control ball valve (MXBC/MXGC)

Design & Selection

A CAUTION

1 Power supply

Select the power supply allowing for a sufficient capacity (50 W class is recommended). Do not use a full wave rectified bridge as it is affected by ripples or zero voltage, etc. Instead. use a stabilized power supply.

2 Control methods

Use a controller or thermostat having a PID function, and keep the energizing frequency at 10% or less. When using for ON/OFF control or control with a high energizing frequency, the service life will be shortened, and the thermal protector could be activated due to motor heating. This will temporarily shut off the motor power and prevent correct operations. Lowering the energizing frequency will allow the service life of the entire device to be lengthened, so carefully consider the control methods and energizing frequency.

3 Service life

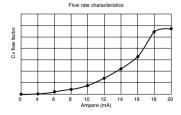
The product's service life will differ greatly according to the operation. However, as a guide, the life is approx. 12 to 18 months when used with an energizing frequency of 10% for eight hours a day.

4 Input signal and Cv flow factor

The ball valve opening degree position and input signal are initially adjusted as follow.

Input signal	Ball valve open/close position
0 mA	Fully closed position
20 mA	Fully opened position

As shown below, the Cv flow factor variation in one step will increase in the areas where the Cv flow factor is small or near the maximum flow rate. Thus, avoid using in these ranges, and obtain stability by controlling so that the expression maximum Cv flow factor x 1/2 = required flow rate is satisfied.



The angle at which the ball valve starts to open and the Cv flow factor in respect to the input signal will differ according to the product.

When using outdoor piping, use resin piping to prevent damage from lightning. A stepping motor is used, so noise will be generated at the power line. Thus, use noise filters on devices susceptible to noise, such as computers connected to the common power supply.

6 Actual control

- (1) Temperature control: When controlling the heating or cooling temperature, attention must be paid to the balance of the applied and lost heat. If the heat is not balanced, the control will not stabilize, and vibration could occur causing a large error. Design the device with balance in mind, considering the required fluid flow rate and temperature in respect to the target temperature.
- (2) Constant flow rate control: The resolution of the ball valve is 2.5% or less. Thus, it may not be possible to attain the required flow rate if more precise resolution is required. When using at high pressures, note that this resolution limit is particularly apparent.

7 Fluid viscosity

Generally, the valve can be used with a fluid viscosity of up to 500 mm²/s. However, the properties may differ according to the fluid type, so consult with CKD.

<<Miscellaneous>> Refer to page 554 for the precautions regarding the motor driven ball valve.

Installation, Piping & Wiring

A WARNING

Wiring

Refer to page 557.

<<Miscellaneous>> Refer to page 554 for the precautions regarding the motor driven ball valve.

When Using



<<Miscellaneous>> Refer to page 555 for the precautions regarding the motor driven ball valve.

Maintenance



<<Miscellaneous>> Refer to page 555 for the precautions regarding the motor driven ball valve.

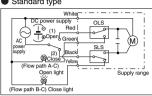
AB

HVL

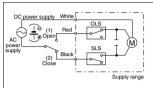
SAR/

MX&1/MXB1F/MSB1/MSB1F wiring diagram

Standard type



Option: T (3-conductor cable)



 Option: L, R (with indicator light) DC power supply White OLS AC (2) Close Supply range * L and R cannot be installed together.

~			
2	port	val	ıve

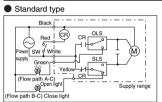
Opening operation (1): White - red After opening, the micro switch (OLS) functions and stops the motor.

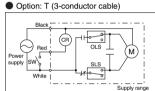
Closing operation (2): White - black After closing, the micro switch (SLS) functions and stops the motor. 3 port valve

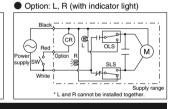
Flow path A-C (1): White - red After flow path A-C operates, the micro switch (OLS) functions and stops the motor.

Flow path B-C (2): White - black After flow path B-C operates, the micro switch (SLS) functions and stops the motor.

MX&1D/MXB1DF/MSB1D/MSB1DF (with relay) wiring diagram



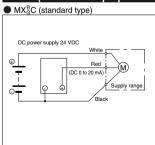




Opening operation SW: ON (black - white, red) After opening, the micro switch (OLS) functions and stops the motor. Closing operation SW: OFF (black - white) After closing, the micro switch (SLS) functions and stops the motor. 3 port valve Flow path A-C SW: ON (black - white, red) After flow path A-C operates, the micro switch (OLS) functions and stops the motor. Flow path B-C SW: OFF (black - white) After flow path B-C operates, the micro switch (SLS) functions and stops the motor

MX^B_GC-N (simple control type)

MX&C (motor driven proportional control ball valve) wiring diagram



Yellow SLS Potentiometer Green Detection Brown Supply range resistance
--

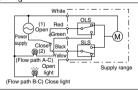
2 port valve Opening operation 20 mA

Closing operation	U (4) IIIA
3 port valve	
Flow path A-C	20 mA
Flow path B-C	0 (4) mA

2 port valve		
Opening operation	(1): Brown - green	Detection resistance 2.4 to 3.2 kΩ
Closing operation	(2): Brown - green	Detection resistance 0.1 to 0.9 kΩ

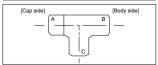
3 port valve	е	
Flow path A-C	(1): Brown - green	Detection resistance 2.4 to 3.2 kΩ
Flow path B-C	(2): Brown - green	Detection resistance 0.1 to 0.9 kΩ

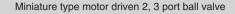
MH&4 wirina diagram ● MH_G^B4



|--|

2 port valve	
Opening operation	(1): White - red
Closing operation	(2): White - black
3 port valve	
Flow path A-C	(1): White - red
Flow path B-C	(2): White - black







Port size: Rc3/8 to Rc3/4



JIS symbol

● MHB4



MHG4



Common specifications

		<u> </u>
Item		MHB4/MHG4
Working fluid		Water, hot water, air, oil (500 mm ² /s or less)
Working pressure	range MPa	0 to 0.5
Withstanding pressure	e (water) MPa	1.0
Fluid tempera	ature °C	0 to 80 (no freezing)
Ambient temp	erature °C	-10 to 50
Ambient hum	idity %	70 or less
Valve seat leakag	je cm³/min.	0 (at water pressure 0.5 MPa)
Mounting atti	tude	Limited to vertical position with actuator facing upward to horizontal position.
Rated voltage	e Note 1	100 VAC (50/60 Hz), 200 VAC (50/60 Hz)
Apparent	를 100 VAC 오 200 VAC	4.4/3.5 (50/60 Hz)
power	호 200 VAC	3.4/2.6 (50/60 Hz)
VA .	≦ 100 VAC	4.4/3.5 (50/60 Hz)
į.	100 VAC	3.4/2.6 (50/60 Hz)
Power consu	mption W	5
Cycle rate		1 cycle/min. or less

Individual specifications

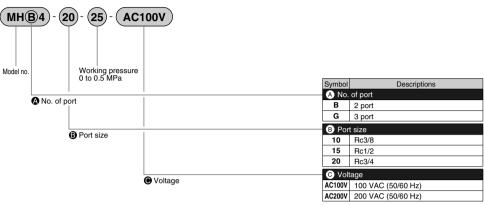
Item			2 port valve		3 port valve			
		MHB4-10-25	MHB4-15-25	MHB4-20-25	MHG4-10-25	MHG4-15-25	MHG4-20-25	
Port size		Rc3/8	Rc1/2	Rc3/4	Rc3/8	Rc1/2	Rc3/4	
Orifice	mm	8	8	10	8	8	10	
Cv flow factor		3.3	3.0	4.7	1.8	1.1	3.0	
Operation	50 Hz		4.5		9			
time sec	60 Hz		3.8			7.5		
Weight	kg	0.42	0.44	0.51	0.45	0.49	0.57	
Pressurization direction			Random		Limited to port C pressurization			

Note 1: Allowable voltage range must be within ±10% of the rated voltage.

Note 2: Consult with CKD about other than above specifications.

Note 3: Only when vertical position with actuator facing upward, protection grade is JIS CO920 IPX2 *drip proof type II*.

How to order



<Example of model number>

MHB4-20-25-AC100V Model no.: MHB4

A No. of port: 2 port valve B Port size : Rc3/4

● Voltage : 100 VAC (50/60 Hz)

HNB/G

USB/G

FAB/G FGB/G

FVB

FWB/G FHB

FLB AB

AG

AP/ AD APK/ ADK

For dry air Explosion

proof HVB/ HVL SAB/

SVB NP/NAP/ NVP

CHB/G

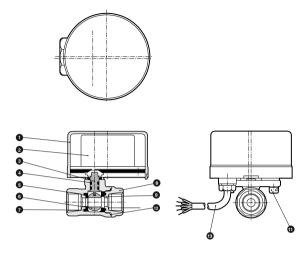
Other G.P. systems PD/FAD/ PJ

CVE/ CVSE CPE/ CPD

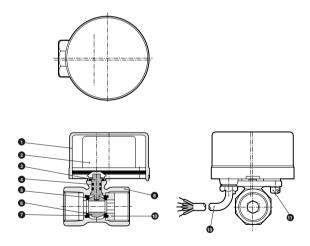
> Medical analysis Custom order

Internal structure and parts list: MHB4 Series

● MHB4-10-25



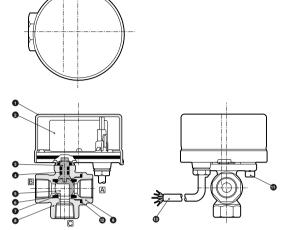
● MHB4-15/20-25



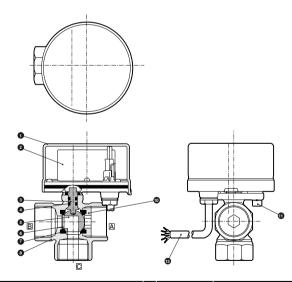
No.	Parts name	Material		No.	Parts name	Material	
1	Cover	PP	Polypropylene resin	7	Valve seat	PTFE	Tetrafluoroethylene resin
2	Motor assembly	-	-	8	Body	CAC407	Bronze casting
3	Shaft	SUS303	Stainless steel	9	Сар	CAC407	Bronze casting
4	O ring	FKM	Fluoro rubber	10	Insert	CAC407	Bronze casting
5	O ring	FKM	Fluoro rubber	11	Hexagon socket head cap screw	SCM435	Alloy steel
6	Valve ball	CAC407	Bronze casting	12	O ring	FKM	Fluoro rubber
	_		1 1	13	Cabtire cord	0.3 mm ² , 5-conductor	-

Internal structure and parts list: MHG4 Series

● MHG4-10-25



● MHG4-15/20-25



No.	Parts name	Material		No.	Parts name	Material	
1	Cover	PP	Polypropylene resin	7	O ring	FKM	Fluoro rubber
2	Motor assembly	-	-	8	Body	CAC407	Bronze casting
3	Shaft	SUS303	Stainless steel	9	Сар	CAC407	Bronze casting
4	O ring	FKM	Fluoro rubber	10	Insert	CAC407	Bronze casting
5	Valve ball	CAC407	Bronze casting	11	Hexagon socket head cap screw	SCM435	Alloy steel
6	Valve seat	PTFE	Tetrafluoroethylene resin	12	O ring	FKM	Fluoro rubber
			1 1	13	Cabtire cord	0.3 mm ² , 5-conductor	l -

HNB/G USB/G

FAB/G FGB/G

FVB

FWB/G

FHB

FLB AB

AG

AP/ AD APK/ ADK

For dry air Explosion proof

HVB/ HVL SAB/ SVB

NP/NAP/ NVP

CHB/G

MXB/G

Other G.P. systems PD/FAD/

PJ CVE/ CVSE CPE/ CPD

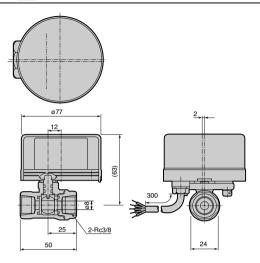
Medical analysis

Custom order

Dimensions: MHB4 Series

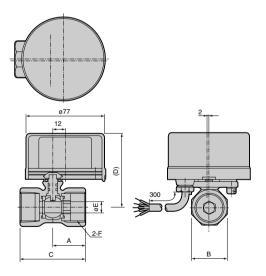


● MHB4-10-25



Cabtire cord length 300 mm

● MHB4-15/20-25



Cabtire cord length 300 mm

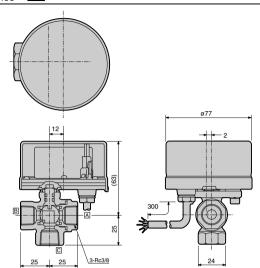
Model no.	Α	В	С	D	Е	F
MHB4-15-25	27	27	56	63	8	Rc1/2
MHB4-20-25	30	32	63	66	10	Rc3/4

▲ Safety precautions

 Since this valve rotates one way only, reverse turn is impossible during operation. For example, if the operation switch is returned to the closed position when the valve is moving from closed to open, the valve will be closed after it is fully open.

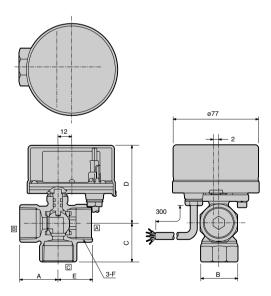
(Page 613)

● MHG4-10-25



Cabtire cord length 300 mm

MHG4-15/20-25



Cabtire cord length 300 mm

Model no.	Α	В	С	D	Е	F
MHG-4-15-25	29	27	29	63	27	Rc1/2
MHG-4-20-25	33	32	33	66	30	Rc3/4

Safety precautions

• Since this valve rotates one way only, reverse turn is impossible during operation. For example, if the operation switch is returned to flow path B-C during switching from flow path B-C to flow path A-C, the valve will switch to flow path B-C after completing the switch to flow path A-C.

HNB/G USB/G

FAB/G FGB/G

FVB

FWB/G

FHB

FLB AB

AG

AP/

AD APK/ ADK

> For dry air

Explosion proof HVB/

HVL SAB/ SVB

NP/NAP/ NVP

CHB/G

MXB/G

Other G.P. systems

> PD/FAD/ PJ CVE/

CVSE CPE/ CPD

> Medical analysis

Custom order



Electronic Catalog file list

Motor driven 2, 3 port ball valve MXB/MXG

Standard type MXB/MXG

Electronic Catalog file list is applied to "CAD DATA 2006".

■ 2 port valve MXB: Page 561		riic Catalog lile list is applied to CAD DATA 2000 .		
MXB1-10	Model no.		DXF	MICRO CADAM
MXB1-10 MXB_MXG mxb1_10 CKD-MXB1-10 MXB1-15 mxb1_20 mxb1_20 CKD-MXB1-15 MXB1-25 mxb1_20 CKD-MXB1-20 MXB1-32 mxb1_25 CKD-MXB1-32 MXB1-40 mxb1_32 CKD-MXB1-32 MXB1-10-E/W/N mxb1_40 CKD-MXB1-40 MXB1-10-E/W/N mxb1_10_e,w.n CKD-MXB1-10-E/W/N MXB1-10-E/W/N mxb1_15_e,w.n CKD-MXB1-10-E/W/N MXB1-20-E/W/N mxb1_10_e,w.n CKD-MXB1-10-E/W/N MXB1-25-E/W/N mxb1_12_e,w.n CKD-MXB1-10-E/W/N MXB1-32-E/W/N mxb1_12_e,w.n CKD-MXB1-10-E/W/N MXB1-32-E/W/N mxb1_12_e,w.n CKD-MXB1-10-E/W/N MXB1-32-E/W/N mxb1_20_e,w.n CKD-MXB1-20-E/W/N MXB1-32-E/W/N mxb1_20_e,w.n CKD-MXB1-32-E/W/N MXB1F-30 mxb1_120 CKD-MXB1-50-E/W/N MXB1F-32 mxb1f_20 CKD-MXB1F-30-E/W/N MXB1F-32 mxb1f_20 CKD-MXB1F-32 MXB1F-30 mxb1f_20 CKD-MXB1F-30-E/W/N MXG1-20 mxb1		Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)
MXB1-15 mxb1_20 CKD-MXB1-20 MXB1-25 mxb1_25 CKD-MXB1-25 MXB1-32 mxb1_32 CKD-MXB1-32 MXB1-40 mxb1_32 CKD-MXB1-32 MXB1-10-E/W/N mxb1_50 CKD-MXB1-50 MXB1-15-E/W/N mxb1_10_e_w_n CKD-MXB1-10-E/W/N MXB1-15-E/W/N mxb1_10_e_w_n CKD-MXB1-10-E/W/N MXB1-20-E/W/N mxb1_20_e_w_n CKD-MXB1-10-E/W/N MXB1-22-E/W/N mxb1_20_e_w_n CKD-MXB1-20-E/W/N MXB1-32-E/W/N mxb1_25_e_w_n CKD-MXB1-25-E/W/N MXB1-32-E/W/N mxb1_25_e_w_n CKD-MXB1-32-E/W/N MXB1-50-E/W/N mxb1_40_e_w_n CKD-MXB1-32-E/W/N MXB1F-15 mxb1_15_E_e_w_n CKD-MXB1-32-E/W/N MXB1F-20 mxb1_5_E_e_w_n CKD-MXB1-50-E/W/N MXB1F-20 mxb1_16_E_e_w_n CKD-MXB1F-15 MXB1F-32 mxb1_17_E_e_w_n CKD-MXB1F-20 MXB1F-32 mxb1_17_E_E_W/N mxb1_18_E_E_E_W/N MXB1F-32 mxb1_18_E_E_E_W/N mxb1_18_E_E_E_W/N MXG1-15 mxb1_18_E_E_E_W/N <td></td> <td></td> <td></td> <td></td>				
MXB1-20 mxb1_20 CKD-MXB1-20 MXB1-32 mxb1_25 CKD-MXB1-25 MXB1-40 mxb1_40 CKD-MXB1-32 MXB1-50 mxb1_50 CKD-MXB1-50 MXB1-10-E/W/N mxb1_10_e_w_n CKD-MXB1-10-E/W/N MXB1-20-E/W/N mxb1_15_e_w_n CKD-MXB1-15-E/W/N MXB1-25-E/W/N mxb1_20_e_w_n CKD-MXB1-25-E/W/N MXB1-32-E/W/N mxb1_22_e_w_n CKD-MXB1-25-E/W/N MXB1-32-E/W/N mxb1_22_e_w_n CKD-MXB1-25-E/W/N MXB1-40-E/W/N mxb1_22_e_w_n CKD-MXB1-25-E/W/N MXB1-50-E/W/N mxb1_50_e_w_n CKD-MXB1-50-E/W/N MXB1F-15 mxb1_50_e_w_n CKD-MXB1-50-E/W/N MXB1F-20 mxb1f_15 CKD-MXB1F-50-E/W/N MXB1F-20 mxb1f_20 CKD-MXB1F-25 MXB1F-32 mxb1f_20 CKD-MXB1F-25 MXB1F-32 mxb1f_20 CKD-MXB1F-26 MXB1F-40 mxb1f_20 CKD-MXB1F-25 MXB1F-40 mxb1f_20 CKD-MXB1F-26 MXG1-25 mxb1f_20 CKD-MXB1F-26		MXB_MXG		
MXB1-25				
MXB1-32 mxb1_32 CKD-MXB1-32 MXB1-40 mxb1_40 CKD-MXB1-40 MXB1-50 mxb1_50 CKD-MXB1-50 MXB1-10-E/W/N mxb1_50 CKD-MXB1-10-E/W/N MXB1-20-E/W/N mxb1_10_e_w_n CKD-MXB1-10-E/W/N MXB1-20-E/W/N mxb1_20_e_w_n CKD-MXB1-20-E/W/N MXB1-20-E/W/N mxb1_22_e_w_n CKD-MXB1-25-E/W/N MXB1-32-E/W/N mxb1_22_e_w_n CKD-MXB1-25-E/W/N MXB1-40-E/W/N mxb1_22_e_w_n CKD-MXB1-25-E/W/N MXB1F-30-E/W/N mxb1_50_e_w_n CKD-MXB1-50-E/W/N MXB1F-25 mxb1f_20 CKD-MXB1F-15 MXB1F-32 mxb1f_20 CKD-MXB1F-25 MXB1F-32 mxb1f_20 CKD-MXB1F-32 MXB1F-40 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_32 CKD-MXB1F-32 MXG1-15 mxb1f_32 CKD-MXB1F-32 MXG1-15 mxb1_32 CKD-MXB1F-32 MXG1-20 mxb1_32 CKD-MXB1F-32 MXG1-20 mxb1_32 CKD-MXG1-32 MXG1-25				
MXB1-40 mxb1_40 CKD-MXB1-40 MXB1-50 mxb1_50 CKD-MXB1-50 MXB1-10-E/W/N mxb1_10_e_w_n CKD-MXB1-10-E/W/N MXB1-20-E/W/N mxb1_10_e_w_n CKD-MXB1-10-E/W/N MXB1-20-E/W/N mxb1_10_e_w_n CKD-MXB1-20-E/W/N MXB1-25-E/W/N mxb1_20_e_w_n CKD-MXB1-20-E/W/N MXB1-32-E/W/N mxb1_25_e_w_n CKD-MXB1-25-E/W/N MXB1-30-E/W/N mxb1_40_e_w_n CKD-MXB1-40-E/W/N MXB1-50-E/W/N mxb1_40_e_w_n CKD-MXB1-40-E/W/N MXB1F-15 mxb1_50_e_w_n CKD-MXB1F-50-E/W/N MXB1F-20 mxb1f_15 CKD-MXB1F-15 MXB1F-25 mxb1f_20 CKD-MXB1F-25 MXB1F-32 mxb1f_25 CKD-MXB1F-25 MXB1F-32 mxb1f_25 CKD-MXB1F-25 MXB1F-32 mxb1f_32 CKD-MXB1F-32 MXG1-40 CKD-MXB1F-32 mxb1f_32 MXG1-15 MXB_MXG mxg1_15 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-32 mxg1_25 CKD-MXG1-25				
MXB1-50 CKD-MXB1-50 MXB1-10-E/W/N mxb1_10_e_w_n CKD-MXB1-10-E/W/N MXB1-15-E/W/N mxb1_10_e_w_n CKD-MXB1-10-E/W/N MXB1-20-E/W/N mxb1_20_e_w_n CKD-MXB1-20-E/W/N MXB1-25-E/W/N mxb1_20_e_w_n CKD-MXB1-20-E/W/N MXB1-32-E/W/N mxb1_32_e_w_n CKD-MXB1-32-E/W/N MXB1-40-E/W/N mxb1_32_e_w_n CKD-MXB1-32-E/W/N MXB1F-15 mxb1_50_e_w_n CKD-MXB1-40-E/W/N MXB1F-20 mxb1f_15 CKD-MXB1F-15 MXB1F-32 mxb1f_20 CKD-MXB1F-20 MXB1F-32 mxb1f_25 CKD-MXB1F-25 MXB1F-32 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_32 CKD-MXB1F-40 Round terminal box, round terminal box + light mxb1f_25 CKD-MXB1F-40 MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-15 MXG1-20 mxg1_32 CKD-MXG1-25 MXG1-20 mxg1_20 CKD-MXG1-25 MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_50 CKD-MXG1-50	MXB1-32		mxb1_32	CKD-MXB1-32
MXB1-10-E/W/N mxb1_10_e_w_n CKD-MXB1-10-E/W/N MXB1-15-E/W/N mxb1_15_e_w_n CKD-MXB1-15-E/W/N MXB1-20-E/W/N mxb1_20_e_w_n CKD-MXB1-20-E/W/N MXB1-25-E/W/N mxb1_20_e_w_n CKD-MXB1-25-E/W/N MXB1-32-E/W/N mxb1_32_e_w_n CKD-MXB1-32-E/W/N MXB1-40-E/W/N mxb1_30_e_w_n CKD-MXB1-32-E/W/N MXB1F-15 mxb1_50_e_w_n CKD-MXB1F-15 MXB1F-20 mxb1f_15 CKD-MXB1F-20 MXB1F-32 mxb1f_20 CKD-MXB1F-25 MXB1F-32 mxb1f_20 CKD-MXB1F-25 MXB1F-32 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_32 CKD-MXB1F-26 MXG1-15 mxb1f_40 CKD-MXB1F-26 MXG1-15 mxb1f_40 CKD-MXB1F-26 MXG1-15 mxg1_15 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-25 MXG1-20 mxg1_20 CKD-MXG1-25 MXG1-50 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_50 CKD-MXG1-50 MXG1-50-E/W/N	MXB1-40		mxb1_40	CKD-MXB1-40
MXB1-15-E/W/N mxb1_15_e_w_n CKD-MXB1-15-E/W/N MXB1-20-E/W/N mxb1_20_e_w_n CKD-MXB1-20-E/W/N MXB1-32-E/W/N mxb1_20_e_w_n CKD-MXB1-25-E/W/N MXB1-32-E/W/N mxb1_32_e_w_n CKD-MXB1-32-E/W/N MXB1-40-E/W/N mxb1_40_e_w_n CKD-MXB1-40-E/W/N MXB1F-15 mxb1_50_e_w_n CKD-MXB1F-30-E/W/N MXB1F-20 mxb1f_15 CKD-MXB1F-20 MXB1F-32 mxb1f_20 CKD-MXB1F-20 MXB1F-32 mxb1f_32 CKD-MXB1F-32 MXB1F-30 mxb1f_32 CKD-MXB1F-32 MXB1F-30 mxb1f_32 CKD-MXB1F-32 mxb1f_32 CKD-MXB1F-32 mxb1f_32 CKD-MXB1F-32 mxb1f_40 CKD-MXB1F-32 mxb1f_40 CKD-MXB1F-32 mxd1-15 mxg1_20 CKD-MXG1-8/L/R ■ 3 port valve MXG: Page 565 mxg1_20 CKD-MXG1-25 MXG1-20 mxg1_20 CKD-MXG1-32 MXG1-40 mxg1_20 CKD-MXG1-32 MXG1-40 mxg1_30 CKD-MXG1-30 <t< td=""><td>MXB1-50</td><td></td><td>mxb1_50</td><td>CKD-MXB1-50</td></t<>	MXB1-50		mxb1_50	CKD-MXB1-50
MXB1-20-E/W/N mxb1_20_e_w_n CKD-MXB1-20-E/W/N MXB1-25-E/W/N mxb1_25_e_w_n CKD-MXB1-25-E/W/N MXB1-32-E/W/N mxb1_32_e_w_n CKD-MXB1-25-E/W/N MXB1-40-E/W/N mxb1_40_e_w_n CKD-MXB1-40-E/W/N MXB1F-15 mxb1_50_e_w_n CKD-MXB1-50-E/W/N MXB1F-20 mxb1f_20 CKD-MXB1F-20 MXB1F-32 mxb1f_20 CKD-MXB1F-25 MXB1F-32 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_32 CKD-MXB1F-32 MXG1-15 mxb1f_40 CKD-MXB1F-40 ROUND talve MXG: Page 565 mxg1_15 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-32 mxg1_20 CKD-MXG1-20 MXG1-32 mxg1_20 CKD-MXG1-20 MXG1-30 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_40 CKD-MXG1-50 MXG1-50 mxg1_50 CKD-MXG1-20-E/W/N MXG1-25-E/W/N mxg1_25_e_w_n CKD-MXG1-20-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-20-E/W/N M	MXB1-10-E/W/N		mxb1_10_e_w_n	CKD-MXB1-10-E/W/N
MXB1-25-E/W/N mxb1_25_e_w_n CKD-MXB1-25-E/W/N MXB1-32-E/W/N mxb1_32_e_w_n CKD-MXB1-32-E/W/N MXB1-40-E/W/N mxb1_40_e_w_n CKD-MXB1-40-E/W/N MXB1-50-E/W/N mxb1_40_e_w_n CKD-MXB1-40-E/W/N MXB1F-15 MXB1F-15 CKD-MXB1F-15 MXB1F-20 mxb1f_20 CKD-MXB1F-20 MXB1F-32 mxb1f_25 CKD-MXB1F-25 MXB1F-32 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_32 CKD-MXB1F-32 MXG1-15 mxb1f_40 CKD-MXBMXG-B/L/R Image: MXG1-15 MXG1-20 CKD-MXBMXG-B/L/R Image: MXG1-20 mxb1f_25 CKD-MXG1-20 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-20 mxg1_25 CKD-MXG1-20 MXG1-32 mxg1_25 CKD-MXG1-20 MXG1-40 mxg1_32 CKD-MXG1-20 MXG1-50 mxg1_50 CKD-MXG1-50 MXG1-25-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-40-E/W/N mxg1_25_e_w_n CKD-MXG1-20-E/W/N MXG1-40-E/W	MXB1-15-E/W/N		mxb1_15_e_w_n	CKD-MXB1-15-E/W/N
MXB1-32-E/W/N mxb1_32_e_w_n CKD-MXB1-32-E/W/N MXB1-40-E/W/N mxb1_40_e_w_n CKD-MXB1-40-E/W/N MXB1-50-E/W/N mxb1_50_e_w_n CKD-MXB1-40-E/W/N MXB1F-15 mxb1f_15 CKD-MXB1F-15 MXB1F-20 mxb1f_25 CKD-MXB1F-20 MXB1F-32 mxb1f_25 CKD-MXB1F-25 MXB1F-40 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_40 CKD-MXB1F-32 MXG1-15 mxb1f_25 CKD-MXB1F-40 MXG1-15 mxb1f_20 CKD-MXBMXG-B/L/R MXG1-20 mxb1f_20 CKD-MXBMXG-B/L/R MXG1-20 mxg1_5 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-32 mxg1_25 CKD-MXG1-20 MXG1-32 mxg1_32 CKD-MXG1-25 MXG1-40 mxg1_50 CKD-MXG1-50 MXG1-50 mxg1_50 CKD-MXG1-50 MXG1-25-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-40-E/W/N mxg1_25_e_w_n CKD-MXG1-20-E/W/N MXG1-40-E/W/N mxg1_20_e_w	MXB1-20-E/W/N			CKD-MXB1-20-E/W/N
MXB1-40-E/W/N mxb1_40_e_w_n CKD-MXB1-40-E/W/N MXB1-50-E/W/N mxb1_50_e_w_n CKD-MXB1-50-E/W/N MXB1F-15 mxb1f_50_e_w_n CKD-MXB1F-15 MXB1F-20 mxb1f_20 CKD-MXB1F-20 MXB1F-32 mxb1f_25 CKD-MXB1F-25 MXB1F-40 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_40 CKD-MXB1F-40 Round terminal box, round terminal box + light mxb_mxg_b_l_r CKD-MXB/MXG-B/L/R ■ 3 port valve MXG: Page 565 MXG1-15 mxg1_15 CKD-MXG1-15 MXG1-15 MXB_MXG mxg1_20 CKD-MXG1-15 MXG1-20 mxg1_25 CKD-MXG1-20 MXG1-32 mxg1_32 CKD-MXG1-25 MXG1-40 mxg1_40 CKD-MXG1-32 MXG1-50 mxg1_50 CKD-MXG1-50 MXG1-20-E/W/N mxg1_50 CKD-MXG1-20-E/W/N MXG1-25-E/W/N mxg1_26_e_w_n CKD-MXG1-20-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_50_e_w_n CKD-MXG1-40-E/W/N	MXB1-25-E/W/N		mxb1_25_e_w_n	CKD-MXB1-25-E/W/N
MXB1-50-E/W/N mxb1_50_e_w_n CKD-MXB1-50-E/W/N MXB1F-15 mxb1f_15 CKD-MXB1F-15 MXB1F-20 mxb1f_20 CKD-MXB1F-20 MXB1F-32 mxb1f_25 CKD-MXB1F-25 MXB1F-40 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_40 CKD-MXB1F-40 Round terminal box, round terminal box + light mxb1f_40 CKD-MXB/MXG-B/L/R ● 3 port valve MXG: Page 565 mXG1-15 mxg1_15 CKD-MXG1-15 MXG1-15 mxg1_20 CKD-MXG1-15 mxg1_20 MXG1-20 mxg1_25 CKD-MXG1-20 mxg1_25 MXG1-32 mxg1_32 CKD-MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_40 CKD-MXG1-30 mxg1_50 CKD-MXG1-50 MXG1-15-E/W/N mxg1_50 CKD-MXG1-50 mxg1_15_e_w_n CKD-MXG1-20-E/W/N MXG1-25-E/W/N mxg1_22_e_w_n CKD-MXG1-20-E/W/N mxg1_32_e_w_n CKD-MXG1-20-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-20-E/W/N CKD-MXG1-20-E/W/N MXG1-25-E/W/N mxg1_22_e_w_n <t< td=""><td>MXB1-32-E/W/N</td><td>]</td><td>mxb1_32_e_w_n</td><td>CKD-MXB1-32-E/W/N</td></t<>	MXB1-32-E/W/N]	mxb1_32_e_w_n	CKD-MXB1-32-E/W/N
MXB1F-15 mxb1f_15 CKD-MXB1F-20 MXB1F-25 mxb1f_20 CKD-MXB1F-20 MXB1F-32 mxb1f_25 CKD-MXB1F-32 MXB1F-40 mxb1f_32 CKD-MXB1F-32 MXB1F-40 Round terminal box, round terminal box + light mxb1f_40 CKD-MXB1F-40 MXG1-15 MXG1-20 mxb1mxg_b_l_r CKD-MXB/MXG-B/L/R MXG1-20 MXG1-25 mxg1_20 CKD-MXG1-20 MXG1-32 mxg1_25 CKD-MXG1-25 MXG1-40 mxg1_40 CKD-MXG1-32 MXG1-50 mxg1_40 CKD-MXG1-40 MXG1-20-E/W/N mxg1_50 CKD-MXG1-50 MXG1-25-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_25_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_22_e_w_n CKD-MXG1-22-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXB1-40-E/W/N]	mxb1_40_e_w_n	CKD-MXB1-40-E/W/N
MXB1F-20 mxb1f_20 CKD-MXB1F-20 MXB1F-25 mxb1f_25 CKD-MXB1F-25 MXB1F-32 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_40 CKD-MXB1F-32 Mxb1f_40 CKD-MXB1F-40 Round terminal box, round terminal box + light mxb1f_40 CKD-MXB/MXG-B/L/R 3 port valve MXG: Page 565 mxb1f_20 CKD-MXB/MXG-B/L/R MXG1-15 MXB_MXG mxg1_15 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-25 mxg1_25 CKD-MXG1-25 MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-40 mxg1_40 CKD-MXG1-40 MXG1-50 mxg1_50 CKD-MXG1-40 MXG1-15-E/W/N mxg1_50 CKD-MXG1-50 MXG1-25-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_25_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/WN mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXB1-50-E/W/N		mxb1_50_e_w_n	CKD-MXB1-50-E/W/N
MXB1F-25 mxb1f_25 CKD-MXB1F-25 MXB1F-32 mxb1f_32 CKD-MXB1F-32 MXB1F-40 mxb1f_40 CKD-MXB1F-40 Round terminal box, round terminal box + light mxb1f_40 CKD-MXB1F-40 MXG1-15 mxb_mxg_b_l_r CKD-MXB/MXG-B/L/R MXG1-20 MXG1-20 mxg1_15 CKD-MXG1-15 MXG1-25 mxg1_20 CKD-MXG1-20 MXG1-32 mxg1_25 CKD-MXG1-25 MXG1-40 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_50 CKD-MXG1-40 MXG1-50-E/W/N mxg1_50 CKD-MXG1-50 MXG1-25-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_25_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_22_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-32-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXB1F-15		mxb1f_15	CKD-MXB1F-15
MXB1F-32 mxb1f_32 CKD-MXB1F-32 MXB1F-40 CKD-MXB1F-40 mxb1f_40 Round terminal box, round terminal box + light mxb1f_40 CKD-MXB/MXG-B/L/R Image: CKD-MXB/MXG-B/L/R mxb1_mxg_b_l_r CKD-MXB/MXG-B/L/R Image: CKD-MXG1-15 mxg1_15 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-32 mxg1_25 CKD-MXG1-25 MXG1-40 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_50 CKD-MXG1-40 MXG1-50-E/W/N mxg1_15_e_w_n CKD-MXG1-50 MXG1-20-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_25_e_w_n CKD-MXG1-20-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXB1F-20		mxb1f_20	CKD-MXB1F-20
MXB1F-40 mxb1f_40 CKD-MXB1F-40 Round terminal box, round terminal box + light mxb_mxg_b_l_r CKD-MXB/MXG-B/L/R 3 port valve MXG: Page 565 mxg1_15 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-25 mxg1_25 CKD-MXG1-25 MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_40 CKD-MXG1-50 MXG1-15-E/W/N mxg1_15_e_w_n CKD-MXG1-50 MXG1-20-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-32-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-23-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXB1F-25		mxb1f_25	CKD-MXB1F-25
Round terminal box, round terminal box + light mxb_mxg_b_l_r CKD-MXB/MXG-B/L/R ● 3 port valve MXG: Page 565 MXG1-15 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-25 mxg1_25 CKD-MXG1-25 MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_40 CKD-MXG1-30 MXG1-15-E/W/N mxg1_50 CKD-MXG1-50 MXG1-20-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-25-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_25_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-32-E/W/N MXG1-25-E/W/N mxg1_25_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_20_e_w_n CKD-MXG1-50-E/W/N	MXB1F-32]	mxb1f_32	CKD-MXB1F-32
■ 3 port valve MXG: Page 565 MXG1-15 MXB_MXG mxg1_15 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-25 mxg1_25 CKD-MXG1-25 MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_40 CKD-MXG1-40 MXG1-15-E/W/N mxg1_50 CKD-MXG1-50 MXG1-20-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-25-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-40-E/W/N MXG1-25-E/W/N mxg1_26_e_w_n CKD-MXG1-20-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXB1F-40	1	mxb1f_40	CKD-MXB1F-40
MXG1-15 MXB_MXG mxg1_15 CKD-MXG1-15 MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-25 mxg1_25 CKD-MXG1-25 MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-50 mxg1_40 CKD-MXG1-40 MXG1-15-E/W/N mxg1_50 CKD-MXG1-50 MXG1-20-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-25-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	Round terminal box, round terminal box + light	1	mxb_mxg_b_l_r	CKD-MXB/MXG-B/L/R
MXG1-20 mxg1_20 CKD-MXG1-20 MXG1-25 mxg1_25 CKD-MXG1-25 MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-40 mxg1_40 CKD-MXG1-40 MXG1-50 mxg1_50 CKD-MXG1-50 MXG1-15-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-20-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	● 3 port valve MXG: Page 565		•	
MXG1-25 mxg1_25 CKD-MXG1-25 MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-40 mxg1_40 CKD-MXG1-40 MXG1-50 mxg1_50 CKD-MXG1-50 MXG1-15-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-20-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-32-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-40-E/W/N mxg1_32_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-15	MXB_MXG	mxg1_15	CKD-MXG1-15
MXG1-32 mxg1_32 CKD-MXG1-32 MXG1-40 mxg1_40 CKD-MXG1-40 MXG1-50 mxg1_50 CKD-MXG1-50 MXG1-15-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-20-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-25-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-32-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-32-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-20]	mxg1_20	CKD-MXG1-20
MXG1-40 mxg1_40 CKD-MXG1-40 MXG1-50 mxg1_50 CKD-MXG1-50 MXG1-15-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-20-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-25-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-32-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-25]	mxg1_25	CKD-MXG1-25
MXG1-50 mxg1_50 CKD-MXG1-50 MXG1-15-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-20-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-25-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-32-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-32	1	mxg1_32	CKD-MXG1-32
MXG1-15-E/W/N mxg1_15_e_w_n CKD-MXG1-15-E/W/N MXG1-20-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-25-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-32-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-40	1	mxg1_40	CKD-MXG1-40
MXG1-20-E/W/N mxg1_20_e_w_n CKD-MXG1-20-E/W/N MXG1-25-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-32-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-50		mxq1_50	CKD-MXG1-50
MXG1-25-E/W/N mxg1_25_e_w_n CKD-MXG1-25-E/W/N MXG1-32-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-15-E/W/N		mxq1_15_e_w_n	CKD-MXG1-15-E/W/N
MXG1-32-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-20-E/W/N		mxq1_20_e_w_n	CKD-MXG1-20-E/W/N
MXG1-32-E/W/N mxg1_32_e_w_n CKD-MXG1-32-E/W/N MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-25-E/W/N			
MXG1-40-E/W/N mxg1_40_e_w_n CKD-MXG1-40-E/W/N MXG1-50-E/W/N mxg1_50_e_w_n CKD-MXG1-50-E/W/N	MXG1-32-E/W/N	1	mxq1_32_e_w_n	CKD-MXG1-32-E/W/N
MXG1-50-E/W/N		1		
	MXG1-50-E/W/N	1		CKD-MXG1-50-E/W/N
	Round terminal box, round terminal box + light	1	mxb_mxg_b_l_r	

High corrosion resistant MXB1-C (page 569)

Model no.		DXF	MICRO CADAM
Widdel 110.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)
MXB1-15-C	MXB1_C	mxb1_15_c	CKD-MXB1-15-C
MXB1-20-C]	mxb1_20_c	CKD-MXB1-20-C
MXB1-25-C]	mxb1_25_c	CKD-MXB1-25-C
MXB1-32-C		mxb1_32_c	CKD-MXB1-32-C
MXB1-40-C		mxb1_40_c	CKD-MXB1-40-C
MXB1-50-C		mxb1_50_c	CKD-MXB1-50-C



Electronic Catalog file list

MSB for steam (page 593)

Electronic Catalog file list is applied to "CAD DATA 2006".

Model no.		DXF	MICRO CADAM
Model IIo.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)
MSB1-10	MSB	msb1_10	CKD-MSB1-10
MSB1-15		msb1_15	CKD-MSB1-15
MSB1-20		msb1_20	CKD-MSB1-20
MSB1-25		msb1_25	CKD-MSB1-25
MSB1-32		msb1_32	CKD-MSB1-32
MSB1-40		msb1_40	CKD-MSB1-40
MSB1-50		msb1_50	CKD-MSB1-50
MSB1F-15		msb1f_15	CKD-MSB1F-15
MSB1F-20		msb1f_20	CKD-MSB1F-20
MSB1F-25		msb1f_25	CKD-MSB1F-25
MSB1F-32		msb1f_32	CKD-MSB1F-32
MSB1F-40		msb1f_40	CKD-MSB1F-40

Proportional control MXBC/MXGC (page 601)

Model no.		DXF	MICRO CADAM
Wodel 110.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)
MXBC-10	MXBCMXGC	mxbc_10	CKD-MXBC-10
MXBC-15		mxbc_15	CKD-MXBC-15
MXBC-20		mxbc_20	CKD-MXBC-20
MXBC-25		mxbc_25	CKD-MXBC-25
MXGC-15		mxgc_15	CKD-MXGC-15
MXGC-20		mxgc_20	CKD-MXGC-20
MXGC-25		mxgc_25	CKD-MXGC-25

Miniature type MHB4/MHG4 (pages 606 to 607)

Model no.		DXF	MICRO CADAM
Model 110.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)
MHB4-10	MHB4MHG4	mhb4_10	CKD-MHB4-10
MHB4-15		mhb4_15	CKD-MHB4-15
MHB4-20		mhb4_20	CKD-MHB4-20
MHG4-10		mhg4_10	CKD-MHG4-10
MHG4-15		mhg4_15	CKD-MHG4-15
MHG4-20		mhg4_20	CKD-MHG4-20

Motor driven ball valve temperature control system MHBP (page 610)

Model no.		DXF	MICRO CADAM
Model 110.	Folder name	Filename	Filename (GROUP: CAD, USER: STDLIB)
MHBP-15	MHBP	mhbp_15	CKD-MHBP-15
MHBP-20		mhbp_20	CKD-MHBP-20
MHBP-25		mhbp_25	CKD-MHBP-25

FLB

AD APK/ ADK For dry air Explosion proof HVB/ HVL

> SAB/ SVB NP/NAP/ NVP

> CHB/G

MXB/G Other G.P. PD/FAD/ PJ

CVE/ CVSE CPE/ CPD

Medical analysis Custom order