

AMOT THERMOSTATIC CONTROL VALVES

B Valve MODEL B THERMOSTATIC VALVES

B Valve P 11, 12

C Valve M 13 - 15

C Valve Parts C VALVE - Replacement Parts

E Valve MODEL E THERMOSTATIC VALVES

E Valve Parts E VALVE - Replacement Parts

H Valve MODEL H THERMOSTATIC VALVES

H Valve Parts H VALVE - Replacement Parts

J Valve MODEL J THERMOSTATIC VALVES

J Valve Parts J VALVE - Replacement Parts

R Valve MODEL R THERMOSTATIC VALVES

R Valve Parts R VALVE - Replacement Parts

2470 2470 TEMPERATURE SENSING THERMOSTATIC VALVE

8D, 4073B, 4079B, 20100D, 95F - Replacement parts

20157B 20157B - replacement parts

G VALVES - 3 WAY CONTROL VALVES

GG Valve GG 3-WAY CONTROL VALVE

GPD Valve GPD VALVES - PNEUMATIC ACTUATED 3-WAY VALVE

GEF Valve GEF VALVES - ELECTRIC ACTUATED 3-WAY VALVE

G Valve Controllers CONTROLLERS

8064 8064 I/P CONVERTER

8071D 8071D ELECTRONIC PID CONTROLER

8072D 8072D ELECTRONIC PID CONTROLER

G Valve Parts PARTS AND SPARES

SWITCHES, SENSORS & CONTROLS

4140 4140 PRESSURE AND TEMPERATURE SWITCHES

2230 2230 TEMPERATURE SENSING VALVES

4155 4155 TEMPERATURE SENSING VALVES

4075 4075 TEMPERATURE VALVE

4087 4087 HIGH TEMPERATURE VALVE

4251/52/53/54/55 4250 SERIES HAZARDOUS DUTY TEMPERATURE SWITCHES

1672 1672 PRESSURE SENSING VALVES

4023 4023 HIGH PRESSURE VALVE

4047 4047 LOW PRESSURE VALVE

4064 4064 DIFFERENTIAL PRESSURE VALVE

4143 4143 DIFFERENTIAL PRESSURE VALVE

8256 8256 DIFFERENTIAL PRESSURE SWITCH

4102D 4102 TEMPERATURE DETECTOR FOR MOVING BEARINGS

6702X FUSEROD FOR 4102

4103D 4103 TEMPERATURE DETECTOR FOR STATIC BEARINGS

6710X FUSEROD FOR 4103

4095 4095 VENT VALVE

4418 4418 FUEL SHUTOFF VALVE

4420 4420 FUEL SHUTOFF VALVE

2180 2180 AIR START VALVE

4123 4123 AIR START VALVE

8402 8402 GAS FUEL METERING VALVE

4280 4280 GAS FUEL METERING VALVE

8412 CONTROLLERS FOR GAS METERING VALVES

PARTS 4280, 8412 SPARE PARTS

4109 4109 PNEUMATIC VIBRATION SWITCH

MPD MPD METAL PARTICLE DETECTOR SWITCH

2800 2800D SAFETY CONTROL

2185 2185 ORIFICE

2400D 2400D INDICATING RELAY

2400M 2400M INDICATING RELAY

4400 4400 INDICATING RELAYS

4054 4054 TRIP INDICATOR

4057 : 49

4058 : 49

4457 : 50

4458 : 50

4229 4229 PNEUMATIC INDICATOR

4429 4429 PNEUMATIC INDICATOR

4125 4125 VENT CLOSURE

Pneumatic Accessories VARIOUS PARTS

MODEL B THERMOSTATIC VALVES

All Materials standard & Manufactured to order EXAMPLE PART NUMBER - 3BOCB14501-D2-AA

(C) CAST IRON B VALVES		
CODE	TYPE	CONNECTION
1 1/2BOCT	F Config, Threaded	NPT
1 1/2BOCU	F Config, Threaded	BSP (PI)
2BCCA	T Configuration, Flanged	Flanged PN6
2BCCB	T Configuration, Flanged	Flanged, PN10
2BCCC	T Configuration, Flanged	Flanged, PN16
2BCCD	T Configuration, Flanged	Flanged BS10, Table D
2BCCE	T Configuration, Flanged	Flanged BS10, Table E
2BCCF	T Configuration, Flanged	Flanged ANSI 125 lb
2BCCL	T Configuration, Flanged	Flanged, JIS 10k
2BCCP	T Configuration, Flanged	Flanged, JIS 5k
2BFCA	F Config, Flanged	Flanged PN6
2BFGB	F Config, Flanged	Flanged, PN10
2BFCC	F Config, Flanged	Flanged, PN16
2BFCD	F Config, Flanged	Flanged BS10, Table D
2BFCE	F Config, Flanged	Flanged BS10, Table E
2BFGB	F Config, Flanged	Flanged ANSI 125 lb
2BFCL	F Config, Flanged	Flanged, JIS 10k
2BFGB	F Config, Flanged	Flanged, JIS 5k
2BHCT	F Config, High Pressure, Threaded	NPT
2BHCU	F Config, High Pressure, Threaded	BSP (PI)
2BOCT	F Config, Threaded	NPT
2BOCU	F Config, Threaded	BSP (PI)
2BOCW	F Config, Threaded	SAE Straight Thread, O-Ring seal
2BRCA	T Configuration, Flanged, Manual Override	Flanged PN6
2BRGB	T Configuration, Flanged, Manual Override	Flanged, PN10
2BRCC	T Configuration, Flanged, Manual Override	Flanged, PN16
2BRCD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
2BRCE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E

2BRCF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
2BRCL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
2BRCP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
2 1/2BOCA	T Configuration, Flanged	Flanged PN6
2 1/2BOCB	T Configuration, Flanged	Flanged, PN10
2 1/2BOCC	T Configuration, Flanged	Flanged, PN16
2 1/2BOCD	T Configuration, Flanged	Flanged BS10, Table D
2 1/2BOCE	T Configuration, Flanged	Flanged BS10, Table E
2 1/2BOCF	T Configuration, Flanged	Flanged ANSI 125 lb
2 1/2BOCL	T Configuration, Flanged	Flanged, JIS 10k
2 1/2BOCP	T Configuration, Flanged	Flanged, JIS 5k
2 1/2BRCA	T Configuration, Flanged, Manual Override	Flanged PN6
2 1/2BRCB	T Configuration, Flanged, Manual Override	Flanged, PN10
2 1/2BRCC	T Configuration, Flanged, Manual Override	Flanged, PN16
2 1/2BRCD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
2 1/2BRCE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
2 1/2BRCF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
2 1/2BRCL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
2 1/2BRCP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
3BOCA	T Configuration, Flanged	Flanged PN6
3BOCB	T Configuration, Flanged	Flanged, PN10
3BOCC	T Configuration, Flanged	Flanged, PN16
3BOCD	T Configuration, Flanged	Flanged BS10, Table D
3BOCE	T Configuration, Flanged	Flanged BS10, Table E
3BOCF	T Configuration, Flanged	Flanged ANSI 125 lb
3BOCL	T Configuration, Flanged	Flanged, JIS 10k
3BOCP	T Configuration, Flanged	Flanged, JIS 5k
3BOCY	T Configuration, Flanged	Flanged, PN10 SPECIAL
3BRCA	T Configuration, Flanged, Manual Override	Flanged PN6
3BRCB	T Configuration, Flanged, Manual Override	Flanged, PN10
3BRCC	T Configuration, Flanged, Manual Override	Flanged, PN16
3BRCD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
3BRCE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
3BRCF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
3BRCL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
3BRCP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
3BRCY	T Configuration, Flanged, Manual Override	Flanged, PN10 SPECIAL
33BOCA	T Configuration, Flanged	Flanged PN6
33BOCB	T Configuration, Flanged	Flanged, PN10
33BOCC	T Configuration, Flanged	Flanged, PN16
33BOCF	T Configuration, Flanged	Flanged ANSI 125 lb
33BOCL	T Configuration, Flanged	Flanged, JIS 10k
33BRCB	T Configuration, Flanged, Manual Override	Flanged, PN10
33BRCC	T Configuration, Flanged, Manual Override	Flanged, PN16
33BRCF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
33BRCL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
4BOCA	T Configuration, Flanged	Flanged PN6
4BOCB	T Configuration, Flanged	Flanged, PN10

4BOCC	T Configuration, Flanged	Flanged, PN16
4BOCD	T Configuration, Flanged	Flanged BS10, Table D
4BOCE	T Configuration, Flanged	Flanged BS10, Table E
4BOCF	T Configuration, Flanged	Flanged ANSI 125 lb
4BOCL	T Configuration, Flanged	Flanged, JIS 10k
4BOCP	T Configuration, Flanged	Flanged, JIS 5k
4BRCA	T Configuration, Flanged, Manual Override	Flanged PN6
4BRCB	T Configuration, Flanged, Manual Override	Flanged, PN10
4BRCC	T Configuration, Flanged, Manual Override	Flanged, PN16
4BRCD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
4BRCE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
4BRCF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
4BRCL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
4BRCP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
5BOCA	T Configuration, Flanged	Flanged PN6
5BOCB	T Configuration, Flanged	Flanged, PN10
5BOCC	T Configuration, Flanged	Flanged, PN16
5BOCD	T Configuration, Flanged	Flanged BS10, Table D
5BOCE	T Configuration, Flanged	Flanged BS10, Table E
5BOCL	T Configuration, Flanged	Flanged, JIS 10k
5BOCP	T Configuration, Flanged	Flanged, JIS 5k
5BRCA	T Configuration, Flanged, Manual Override	Flanged PN6
5BRCB	T Configuration, Flanged, Manual Override	Flanged, PN10
5BOCF	T Configuration, Flanged	Flanged ANSI 125 lb
5BRCC	T Configuration, Flanged, Manual Override	Flanged, PN16
5BRCD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
5BRCE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
5BRCF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
5BRCL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
5BRCP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k

(C) CAST IRON B VALVES			
CODE	TYPE	CONNECTION	VALVE BODY MATERIAL
6BOCA	T Configuration, Flanged	Flanged PN6	Cast Iron
6BOCB	T Configuration, Flanged	Flanged, PN10	Cast Iron
6BOCC	T Configuration, Flanged	Flanged, PN16	Cast Iron
6BOCD	T Configuration, Flanged	Flanged BS10, Table D	Cast Iron
6BOCE	T Configuration, Flanged	Flanged BS10, Table E	Cast Iron
6BOCF	T Configuration, Flanged	Flanged ANSI 125 lb	Cast Iron
6BOCL	T Configuration, Flanged	Flanged, JIS 10k	Cast Iron
6BOCP	T Configuration, Flanged	Flanged, JIS 5k	Cast Iron
6BRCA	T Configuration, Flanged, Manual Override	Flanged PN6	Cast Iron
6BRCB	T Configuration, Flanged, Manual Override	Flanged, PN10	Cast Iron
6BRCC	T Configuration, Flanged, Manual Override	Flanged, PN16	Cast Iron
6BRCD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D	Cast Iron
6BRCE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E	Cast Iron
6BRCF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Cast Iron
6BRCL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k	Cast Iron

6BRCP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k	Cast Iron
8BOCB	T Configuration, Flanged	Flanged, PN10	Cast Iron
8BOCC	T Configuration, Flanged	Flanged, PN16	Cast Iron
8BOCF	T Configuration, Flanged	Flanged ANSI 125 lb	Cast Iron
8BRCB	T Configuration, Flanged, Manual Override	Flanged, PN10	Cast Iron
8BRCC	T Configuration, Flanged, Manual Override	Flanged, PN16	Cast Iron
8BRCF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Cast Iron

(D) DUCTILE IRON B VALVES		
CODE	TYPE	CONNECTION
2BCDA	T Configuration, Flanged	Flanged PN6
2BCDB	T Configuration, Flanged	Flanged, PN10
2BCDC	T Configuration, Flanged	Flanged, PN16
2BCDD	T Configuration, Flanged	Flanged BS10, Table D
2BCDE	T Configuration, Flanged	Flanged BS10, Table E
2BCDF	T Configuration, Flanged	Flanged ANSI 125 lb
2BCDL	T Configuration, Flanged	Flanged, JIS 10k
2BCDP	T Configuration, Flanged	Flanged, JIS 5k
2BFDA	F Config, Flanged	Flanged PN6
2BFDB	F Config, Flanged	Flanged, PN10
2BFDC	F Config, Flanged	Flanged, PN16
2BFDD	F Config, Flanged	Flanged BS10, Table D
2BFDE	F Config, Flanged	Flanged BS10, Table E
2BFDF	F Config, Flanged	Flanged ANSI 125 lb
2BFDL	F Config, Flanged	Flanged, JIS 10k
2BFDP	F Config, Flanged	Flanged, JIS 5k
2BRDA	T Configuration, Flanged, Manual Override	Flanged PN6
2BRDB	T Configuration, Flanged, Manual Override	Flanged, PN10
2BRDC	T Configuration, Flanged, Manual Override	Flanged, PN16
2BRDD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
2BRDE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
2BRDF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
2BRDL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
2BRDP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
2 1/2BODA	T Configuration, Flanged	Flanged PN6
2 1/2BODB	T Configuration, Flanged	Flanged, PN10
2 1/2BODC	T Configuration, Flanged	Flanged, PN16
2 1/2BODD	T Configuration, Flanged	Flanged BS10, Table D
2 1/2BODE	T Configuration, Flanged	Flanged BS10, Table E
2 1/2BODF	T Configuration, Flanged	Flanged ANSI 125 lb
2 1/2BODL	T Configuration, Flanged	Flanged, JIS 10k
2 1/2BODP	T Configuration, Flanged	Flanged, JIS 5k
2 1/2BRCA	T Configuration, Flanged, Manual Override	Flanged PN6
2 1/2BRDB	T Configuration, Flanged, Manual Override	Flanged, PN10
2 1/2BRDC	T Configuration, Flanged, Manual Override	Flanged, PN16
2 1/2BRDD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D

2 1/2BRDE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
2 1/2BRDF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
2 1/2BRDL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
2 1/2BRDP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
3BODA	T Configuration, Flanged	Flanged PN6
3BODB	T Configuration, Flanged	Flanged, PN10
3BODC	T Configuration, Flanged	Flanged, PN16
3BODD	T Configuration, Flanged	Flanged BS10, Table D
3BODE	T Configuration, Flanged	Flanged BS10, Table E
3BODF	T Configuration, Flanged	Flanged ANSI 125 lb
3BODL	T Configuration, Flanged	Flanged, JIS 10k
3BODP	T Configuration, Flanged	Flanged, JIS 5k
3BODY	T Configuration, Flanged	Flanged, PN10 SPECIAL
3BRDA	T Configuration, Flanged, Manual Override	Flanged PN6
3BRDB	T Configuration, Flanged, Manual Override	Flanged, PN10
3BRDC	T Configuration, Flanged, Manual Override	Flanged, PN16
3BRDD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
3BRDE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
3BRDF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
3BRDL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
3BRDP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
3BRDY	T Configuration, Flanged, Manual Override	Flanged, PN10 SPECIAL
4BODA	T Configuration, Flanged	Flanged PN6
4BODB	T Configuration, Flanged	Flanged, PN10
4BODC	T Configuration, Flanged	Flanged, PN16
4BODD	T Configuration, Flanged	Flanged BS10, Table D
4BODE	T Configuration, Flanged	Flanged BS10, Table E
4BODF	T Configuration, Flanged	Flanged ANSI 125 lb
4BODL	T Configuration, Flanged	Flanged, JIS 10k
4BODP	T Configuration, Flanged	Flanged, JIS 5k
4BRDA	T Configuration, Flanged, Manual Override	Flanged PN6
4BRDB	T Configuration, Flanged, Manual Override	Flanged, PN10
4BRDC	T Configuration, Flanged, Manual Override	Flanged, PN16
4BRDD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
4BRDE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
4BRDF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
4BRDL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
4BRDP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
5BODA	T Configuration, Flanged	Flanged PN6
5BODB	T Configuration, Flanged	Flanged, PN10
5BODC	T Configuration, Flanged	Flanged, PN16
5BODD	T Configuration, Flanged	Flanged BS10, Table D
5BODE	T Configuration, Flanged	Flanged BS10, Table E
5BODF	T Configuration, Flanged	Flanged ANSI 125 lb
5BODL	T Configuration, Flanged	Flanged, JIS 10k
5BODP	T Configuration, Flanged	Flanged, JIS 5k
5BRDA	T Configuration, Flanged, Manual Override	Flanged PN6
5BRDB	T Configuration, Flanged, Manual Override	Flanged, PN10

5BRDC	T Configuration, Flanged, Manual Override	Flanged, PN16
5BRDD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
5BRDE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
5BRDF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
5BRDL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
5BRDP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
6BODA	T Configuration, Flanged	Flanged PN6
6BODB	T Configuration, Flanged	Flanged, PN10
6BODC	T Configuration, Flanged	Flanged, PN16
6BODD	T Configuration, Flanged	Flanged BS10, Table D
6BODE	T Configuration, Flanged	Flanged BS10, Table E
6BODF	T Configuration, Flanged	Flanged ANSI 125 lb
6BODL	T Configuration, Flanged	Flanged, JIS 10k
6BODP	T Configuration, Flanged	Flanged, JIS 5k
6BRDA	T Configuration, Flanged, Manual Override	Flanged PN6
6BRDB	T Configuration, Flanged, Manual Override	Flanged, PN10
6BRDC	T Configuration, Flanged, Manual Override	Flanged, PN16
6BRDD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D
6BRDE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E
6BRDF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb
6BRDL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k
6BRDP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k
8BODB	T Configuration, Flanged	Flanged, PN10
8BODC	T Configuration, Flanged	Flanged, PN16

(D) DUCTILE IRON B VALVES

CODE	TYPE	CONNECTION	VALVE BODY MATERIAL
8BODF	T Configuration, Flanged	Flanged ANSI 125 lb	Ductile Iron
8BODJ	T Configuration, Flanged	Flanged ANSI 150 lb	Ductile Iron
8BRDB	T Configuration, Flanged, Manual Override	Flanged, PN10	Ductile Iron
8BRDC	T Configuration, Flanged, Manual Override	Flanged, PN16	Ductile Iron
8BRDF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Ductile Iron
8BRDJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Ductile Iron

(B) BRONZE B VALVES

CODE	TYPE	CONNECTION	VALVE BODY MATERIAL
1 1/2BOBT	F Config, Threaded	NPT	Bronze
1 1/2BOBU	F Config, Threaded	BSP (PI)	Bronze
2BCBA	Tee Configuration, Flanged	Flanged PN6	Bronze
2BCBB	Tee Configuration, Flanged	Flanged, PN10	Bronze
2CBCB	Tee Configuration, Flanged	Flanged, PN16	Bronze
2CBCD	Tee Configuration, Flanged	Flanged BS10, Table D	Bronze
2CBCE	Tee Configuration, Flanged	Flanged BS10, Table E	Bronze
2BCBF	Tee Configuration, Flanged	Flanged ANSI 125 lb	Bronze
2BCBL	Tee Configuration, Flanged	Flanged, JIS 10k	Bronze
2BCBP	Tee Configuration, Flanged	Flanged, JIS 5k	Bronze

2BFBA	F Config, Flanged	Flanged PN6	Bronze
2BFBB	F Config, Flanged	Flanged, PN10	Bronze
2BFBC	F Config, Flanged	Flanged, PN16	Bronze
2BFBD	F Config, Flanged	Flanged BS10, Table D	Bronze
2BFBE	F Config, Flanged	Flanged BS10, Table E	Bronze
2BFBF	F Config, Flanged	Flanged ANSI 125 lb	Bronze
2BFBL	F Config, Flanged	Flanged, JIS 10k	Bronze
2BFBP	F Config, Flanged	Flanged, JIS 5k	Bronze
2BOBT	F Config, Threaded	NPT	Bronze
2BOBU	F Config, Threaded	BSP (PI)	Bronze
2BRBA	T Configuration, Flanged, Manual Override	Flanged PN6	Bronze
2BRBB	T Configuration, Flanged, Manual Override	Flanged, PN10	Bronze
2BRBC	T Configuration, Flanged, Manual Override	Flanged, PN16	Bronze
2BRBD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D	Bronze
2BRBE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E	Bronze
2BRBF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Bronze
2BRBL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k	Bronze
2BRBP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k	Bronze
2 1/2BOBA	T Configuration, Flanged	Flanged PN6	Bronze
2 1/2BOBB	T Configuration, Flanged	Flanged, PN10	Bronze
2 1/2BOBC	T Configuration, Flanged	Flanged, PN16	Bronze
2 1/2BOBD	T Configuration, Flanged	Flanged BS10, Table D	Bronze
2 1/2BOBE	T Configuration, Flanged	Flanged BS10, Table E	Bronze
2 1/2BOBF	T Configuration, Flanged	Flanged ANSI 125 lb	Bronze
2 1/2BOBL	T Configuration, Flanged	Flanged, JIS 10k	Bronze
2 1/2BOBP	T Configuration, Flanged	Flanged, JIS 5k	Bronze
2 1/2BRBA	T Configuration, Flanged, Manual Override	Flanged PN6	Bronze
2 1/2BRBB	T Configuration, Flanged, Manual Override	Flanged, PN10	Bronze
2 1/2BRBC	T Configuration, Flanged, Manual Override	Flanged, PN16	Bronze
2 1/2BRBD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D	Bronze
2 1/2BRBE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E	Bronze
2 1/2BRBF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Bronze
2 1/2BRBL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k	Bronze
2 1/2BRBP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k	Bronze
3BOBA	T Configuration, Flanged	Flanged PN6	Bronze
3BOBB	T Configuration, Flanged	Flanged, PN10	Bronze
3BOBC	T Configuration, Flanged	Flanged, PN16	Bronze
3BOBD	T Configuration, Flanged	Flanged BS10, Table D	Bronze
3BOBE	T Configuration, Flanged	Flanged BS10, Table E	Bronze
3BOBF	T Configuration, Flanged	Flanged ANSI 125 lb	Bronze
3BOBL	T Configuration, Flanged	Flanged, JIS 10k	Bronze
3BOBP	T Configuration, Flanged	Flanged, JIS 5k	Bronze
3BOBY	T Configuration, Flanged	Flanged, PN10	Bronze
3BRBA	T Configuration, Flanged, Manual Override	Flanged PN6	Bronze
3BRBB	T Configuration, Flanged, Manual Override	Flanged, PN10	Bronze
3BRBC	T Configuration, Flanged, Manual Override	Flanged, PN16	Bronze
3BRBD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D	Bronze
3BRBE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E	Bronze

3BRBF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Bronze
3BRBL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k	Bronze
3BRBP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k	Bronze
3BRBY	T Configuration, Flanged, Manual Override	Flanged, PN10	Bronze
4BOBA	T Configuration, Flanged	Flanged PN6	Bronze
4BOBB	T Configuration, Flanged	Flanged, PN10	Bronze
4BOBC	T Configuration, Flanged	Flanged, PN16	Bronze
4BOBD	T Configuration, Flanged	Flanged BS10, Table D	Bronze
4BOBE	T Configuration, Flanged	Flanged BS10, Table E	Bronze
4BOBF	T Configuration, Flanged	Flanged ANSI 125 lb	Bronze
4BOBL	T Configuration, Flanged	Flanged, JIS 10k	Bronze
4BOBN	T Configuration, Flanged	Navy Flange, MIL-F-20042	Bronze
4BOBP	T Configuration, Flanged	Flanged, JIS 5k	Bronze
4BRBA	T Configuration, Flanged, Manual Override	Flanged PN6	Bronze
4BRBB	T Configuration, Flanged, Manual Override	Flanged, PN10	Bronze
4BRBC	T Configuration, Flanged, Manual Override	Flanged, PN16	Bronze
4BRBD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D	Bronze
4BRBE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E	Bronze
4BRBF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Bronze
4BRBL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k	Bronze
4BRBP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k	Bronze
5BOBA	T Configuration, Flanged	Flanged PN6	Bronze
5BOBB	T Configuration, Flanged	Flanged, PN10	Bronze
5BOBC	T Configuration, Flanged	Flanged, PN16	Bronze
5BOBD	T Configuration, Flanged	Flanged BS10, Table D	Bronze
5BOBE	T Configuration, Flanged	Flanged BS10, Table E	Bronze
5BOBF	T Configuration, Flanged	Flanged ANSI 125 lb	Bronze
5BOBL	T Configuration, Flanged	Flanged, JIS 10k	Bronze
5BRBA	T Configuration, Flanged, Manual Override	Flanged PN6	Bronze
5BRBB	T Configuration, Flanged, Manual Override	Flanged, PN10	Bronze
5BRBC	T Configuration, Flanged, Manual Override	Flanged, PN16	Bronze
5BRBD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D	Bronze
5BRBE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E	Bronze
5BRBF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Bronze
5BRBL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k	Bronze
5BRBP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k	Bronze
6BOBA	T Configuration, Flanged	Flanged PN6	Bronze
6BOBB	T Configuration, Flanged	Flanged, PN10	Bronze
6BOBC	T Configuration, Flanged	Flanged, PN16	Bronze
6BOBD	T Configuration, Flanged	Flanged BS10, Table D	Bronze
6BOBE	T Configuration, Flanged	Flanged BS10, Table E	Bronze
6BOBF	T Configuration, Flanged	Flanged ANSI 125 lb	Bronze
6BOBL	T Configuration, Flanged	Flanged, JIS 10k	Bronze
6BOBP	T Configuration, Flanged	Flanged, JIS 5k	Bronze
6BRBA	T Configuration, Flanged, Manual Override	Flanged PN6	Bronze
6BRBB	T Configuration, Flanged, Manual Override	Flanged, PN10	Bronze
6BRBC	T Configuration, Flanged, Manual Override	Flanged, PN16	Bronze
6BRBD	T Configuration, Flanged, Manual Override	Flanged BS10, Table D	Bronze

6BRBE	T Configuration, Flanged, Manual Override	Flanged BS10, Table E	Bronze
6BRBF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Bronze
6BRBL	T Configuration, Flanged, Manual Override	Flanged, JIS 10k	Bronze

(B) BRONZE B VALVES

CODE	TYPE	CONNECTION	VALVE BODY MATERIAL
6BRBP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k	Bronze
8BOBB	T Configuration, Flanged	Flanged, PN10	Bronze
8BOBC	T Configuration, Flanged	Flanged, PN16	Bronze
8BOBF	T Configuration, Flanged	Flanged ANSI 125 lb	Bronze
8BOBJ	T Configuration, Flanged	Flanged ANSI 150 lb	Bronze
8BRBB	T Configuration, Flanged, Manual Override	Flanged, PN10	Bronze
8BRBC	T Configuration, Flanged, Manual Override	Flanged, PN16	Bronze
8BRBF	T Configuration, Flanged, Manual Override	Flanged ANSI 125 lb	Bronze
8BRBJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Bronze

(A) ALUMINIUM B VALVES

CODE	TYPE	CONNECTION	VALVE BODY MATERIAL
33BOAB	T Configuration, Flanged	Flanged, PN10	Aluminium
33BOAC	T Configuration, Flanged	Flanged, PN16	Aluminium
33BRAB	T Configuration, Flanged, Manual Override	Flanged, PN10	Aluminium
33BRAC	T Configuration, Flanged, Manual Override	Flanged, PN16	Aluminium
4BOAB	T Configuration, Flanged	Flanged, PN10	Aluminium
4BRAB	T Configuration, Flanged, Manual Override	Flanged, PN10	Aluminium
4BOAZ	T Configuration, Flanged	Square Flange	Aluminium
5BOAB	T Configuration, Flanged	Flanged, PN10	Aluminium
5BRAB	T Configuration, Flanged, Manual Override	Flanged, PN10	Aluminium

(S) STEEL B VALVES

CODE	TYPE	CONNECTION	VALVE BODY MATERIAL
2BCSB	T Configuration, Flanged	Flanged, PN10	Steel
2BCSC	T Configuration, Flanged	Flanged, PN16	Steel
2BCSH	T Configuration, Flanged	Flanged ANSI 300 lb	Steel
2BCSJ	T Configuration, Flanged	Flanged ANSI 150 lb	Steel
2BRSB	T Configuration, Flanged, Manual Override	Flanged, PN10	Steel
2BRSC	T Configuration, Flanged, Manual Override	Flanged, PN16	Steel
2BRSH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	Steel
2BRSJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Steel
2 1/2BOSB	T Configuration, Flanged	Flanged, PN10	Steel
2 1/2BOSC	T Configuration, Flanged	Flanged, PN16	Steel
2 1/2BOSH	T Configuration, Flanged	Flanged ANSI 300 lb	Steel
2 1/2BOSJ	T Configuration, Flanged	Flanged ANSI 150 lb	Steel
2 1/2BRSB	T Configuration, Flanged, Manual Override	Flanged, PN10	Steel
2 1/2BRSC	T Configuration, Flanged, Manual Override	Flanged, PN16	Steel
2 1/2BRSH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	Steel
2 1/2BRSJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Steel

3BOSB	T Configuration, Flanged	Flanged, PN10	Steel
3BOSC	T Configuration, Flanged	Flanged, PN16	Steel
3BOSH	T Configuration, Flanged	Flanged ANSI 300 lb	Steel
3BOSJ	T Configuration, Flanged	Flanged ANSI 150 lb	Steel
3BRSB	T Configuration, Flanged, Manual Override	Flanged, PN10	Steel
3BRSC	T Configuration, Flanged, Manual Override	Flanged, PN16	Steel
3BRSH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	Steel
3BRSJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Steel
4BOSB	T Configuration, Flanged	Flanged, PN10	Steel
4BOSC	T Configuration, Flanged	Flanged, PN16	Steel
4BOSH	T Configuration, Flanged	Flanged ANSI 300 lb	Steel
4BOSJ	T Configuration, Flanged	Flanged ANSI 150 lb	Steel
4BRSB	T Configuration, Flanged, Manual Override	Flanged, PN10	Steel
4BRSC	T Configuration, Flanged, Manual Override	Flanged, PN16	Steel
4BRSH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	Steel
4BRSJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Steel
6BOSB	T Configuration, Flanged	Flanged, PN10	Steel
6BOSC	T Configuration, Flanged	Flanged, PN16	Steel
6BOSJ	T Configuration, Flanged	Flanged ANSI 150 lb	Steel
6BRSB	T Configuration, Flanged, Manual Override	Flanged, PN10	Steel
6BRSC	T Configuration, Flanged, Manual Override	Flanged, PN16	Steel
6BRSJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Steel

(R) STAINLESS STEEL B VALVES

CODE	TYPE	CONNECTION	VALVE BODY MATERIAL
2BCRB	T Configuration, Flanged	Flanged, PN10	Stainless Steel
2BCRC	T Configuration, Flanged	Flanged, PN16	Stainless Steel
2BCRH	T Configuration, Flanged	Flanged ANSI 300 lb	Stainless Steel
2BCRJ	T Configuration, Flanged	Flanged ANSI 150 lb	Stainless Steel
2BCRP	T Configuration, Flanged	Flanged, JIS 5k	Stainless Steel
2BRRB	T Configuration, Flanged, Manual Override	Flanged, PN10	Stainless Steel
2BRRC	T Configuration, Flanged, Manual Override	Flanged, PN16	Stainless Steel
2BRRH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	Stainless Steel
2BRRJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Stainless Steel
2 1/2BORB	T Configuration, Flanged	Flanged, PN10	Stainless Steel
2 1/2BORC	T Configuration, Flanged	Flanged, PN16	Stainless Steel
2 1/2BORH	T Configuration, Flanged	Flanged ANSI 300 lb	Stainless Steel
2 1/2BORJ	T Configuration, Flanged	Flanged ANSI 150 lb	Stainless Steel
2 1/2BRRB	T Configuration, Flanged, Manual Override	Flanged, PN10	Stainless Steel
2 1/2BRRC	T Configuration, Flanged, Manual Override	Flanged, PN16	Stainless Steel
2 1/2BRRH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	Stainless Steel
2 1/2BRRJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Stainless Steel
3BORB	T Configuration, Flanged	Flanged, PN10	Stainless Steel
3BORC	T Configuration, Flanged	Flanged, PN16	Stainless Steel
3BORH	T Configuration, Flanged	Flanged ANSI 300 lb	Stainless Steel
3BORJ	T Configuration, Flanged	Flanged ANSI 150 lb	Stainless Steel
3BORP	T Configuration, Flanged	Flanged, JIS 5k	Stainless Steel
3BRRB	T Configuration, Flanged, Manual Override	Flanged, PN10	Stainless Steel
3BRRC	T Configuration, Flanged, Manual Override	Flanged, PN16	Stainless Steel

3BRRH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	Stainless Steel
3BRRJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Stainless Steel
3BRRP	T Configuration, Flanged, Manual Override	Flanged, JIS 5k	Stainless Steel
4BORB	T Configuration, Flanged	Flanged, PN10	Stainless Steel
4BORC	T Configuration, Flanged	Flanged, PN16	Stainless Steel
4BORH	T Configuration, Flanged	Flanged ANSI 300 lb	Stainless Steel
4BORJ	T Configuration, Flanged	Flanged ANSI 150 lb	Stainless Steel
4BRRB	T Configuration, Flanged, Manual Override	Flanged, PN10	Stainless Steel
4BRRC	T Configuration, Flanged, Manual Override	Flanged, PN16	Stainless Steel
4BRRH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	Stainless Steel
4BRRJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Stainless Steel
6BORB	T Configuration, Flanged	Flanged, PN10	Stainless Steel
6BORC	T Configuration, Flanged	Flanged, PN16	Stainless Steel
6BORJ	T Configuration, Flanged	Flanged ANSI 150 lb	Stainless Steel
6BRRB	T Configuration, Flanged, Manual Override	Flanged, PN10	Stainless Steel
6BRRC	T Configuration, Flanged, Manual Override	Flanged, PN16	Stainless Steel
6BRRJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	Stainless Steel

BP/BQ STAINLESS STEEL B VALVES				
CODE	TYPE	CONNECTION	VALVE BODY MATERIAL	
2BP1C	T Configuration, Flanged, Manual Override	Flanged, PN16		
2BP1H	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	STAINLESS STEEL CF3M	
2BP1J	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb		
2BPRC	T Configuration, Flanged, Manual Override	Flanged, PN16	STAINLESS STEEL CF3M EXTERNAL PARTS TO	
2BPRH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	NORSOK	
2BPRJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb		
2BQ1C	T Configuration, Flanged	Flanged, PN16		
2BQ1H	T Configuration, Flanged	Flanged ANSI 300 lb	STAINLESS STEEL CF3M	
2BQ1J	T Configuration, Flanged	Flanged ANSI 150 lb		
2BQRC	T Configuration, Flanged	Flanged, PN16	STAINLESS STEEL CF3M EXTERNAL PARTS TO	
2BQRH	T Configuration, Flanged	Flanged ANSI 300 lb	NORSOK	
2BQRJ	T Configuration, Flanged	Flanged ANSI 150 lb		
3BP1C	T Configuration, Flanged, Manual Override	Flanged, PN16		
3BP1H	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	STAINLESS STEEL CF3M	
3BP1J	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb		
3BPRC	T Configuration, Flanged, Manual Override	Flanged, PN16	STAINLESS STEEL CF3M EXTERNAL PARTS TO	
3BPRH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	NORSOK	
3BPRJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb		
3BQ1C	T Configuration, Flanged	Flanged, PN16		
3BQ1H	T Configuration, Flanged	Flanged ANSI 300 lb	STAINLESS STEEL CF3M	
3BQ1J	T Configuration, Flanged	Flanged ANSI 150 lb		
3BQRC	T Configuration, Flanged	Flanged, PN16	STAINLESS STEEL CF3M EXTERNAL PARTS TO	
3BQRH	T Configuration, Flanged	Flanged ANSI 300 lb	NORSOK	
3BQRJ	T Configuration, Flanged	Flanged ANSI 150 lb		
4BP1C	T Configuration, Flanged, Manual Override	Flanged, PN16		
4BP1H	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	STAINLESS STEEL CF3M	
4BP1J	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb		

4BPRC	T Configuration, Flanged, Manual Override	Flanged, PN16	STAINLESS STEEL CF3M EXTERNAL PARTS TO
4BPRH	T Configuration, Flanged, Manual Override	Flanged ANSI 300 lb	NORSOK
4BPRJ	T Configuration, Flanged, Manual Override	Flanged ANSI 150 lb	
4BQ1C	T Configuration, Flanged	Flanged, PN16	STAINLESS STEEL CF3M
4BQ1H	T Configuration, Flanged	Flanged ANSI 300 lb	
4BQ1J	T Configuration, Flanged	Flanged ANSI 150 lb	
4BQRC	T Configuration, Flanged	Flanged, PN16	STAINLESS STEEL CF3M EXTERNAL PARTS TO
4BQRH	T Configuration, Flanged	Flanged ANSI 300 lb	NORSOK
4BQRJ	T Configuration, Flanged	Flanged ANSI 150 lb	

NOMINAL TEMPERATURE				
TEMPERATURES			VALVE SIZE	
			No OF ELEMENTS	
85°F, 90°F, 105°F, 115°F, 120°F, 140°F, 145°F, 150°F, 160°F, 170°F, 175°F, 180°F, 185°F, 190°F, 195°F				
95°F, 100°F, 110°F, 130°F, 135°F, 155°F, 165°F				
55°F, 57°F, 75°F, 205°F, 215°F, 225°F, 230°F, 240°F				
ELEMENT ASSEMBLY & SEAL TYPE				
CODE	TYPE	OVERRIDE?	SEAL MATERIAL	FINISH
1	1096X	NO	Nitrile	Standard
2	1096P	NO	Viton	Nickel Plated
3	1096X	NO	Viton	Standard
5	6836S	NO	Nitrile	Salt Water
6	6836P	NO	Viton	Plated with Stainless Steel Washer & Nut
7	2433X	YES	Nitrile	Standard
8	2433P	YES	Viton	Nickel Plated
9	6938S	YES	Nitrile	Salt Water
11	5566X	NO	Nitrile	Standard
12	5566P	NO	Viton	Nickel Plated
17	7406X	YES	Nitrile	Standard
20	5566X	NO	Viton	Standard
21	1096P	NO	EPR	Nickel Plated
31	6836Z	NO	Nitrile	Low Magnetic Permeability
38	6938Z	YES	Nitrile	Low Magnetic Permeability
44	1096P	NO	Neoprene	Nickel Plated
45	1096P	NO	Neoprene	Nickel Plated
48	2433P	YES	Nitrile	Nickel Plated
50	6836K	NO	Neoprene	Kanigen Plated
51	1096P	NO	Nitrile	Nickel Plated
52	6836K	NO	Viton	Kanigen Plated
53	2433X	YES	Viton	Standard
54	2433K	YES	Viton	Kanigen Plated
55	2433P	YES	Neoprene	Nickel Plated
58	2433K	YES	Neoprene	Kanigen Plated
60	6836K	NO	Nitrile	Kanigen Plated
63	2433X	YES	Neoprene	Standard

64	47536X	NO	Viton	Standard
65	49698X	YES	Viton	Standard
66	48920X	NO	Nitrile	Stainless St. Seat & Sliding Valve
67	49580X	YES	Nitrile	Stainless St. Seat & Sliding Valve
68	7406P	YES	Viton	Nickel Plated
69	48920X	NO	Nitrile	Stainless Steel
70	48920X	NO	Viton	Stainless St. Seat & Sliding Valve
71	49580X	YES	Viton	Stainless St. Seat & Sliding Valve

LEAKHOLE (Optional)

CODE	HOLE DIAMETER
	NONE
A	1/2"
B	1/4"
C	3/8"
D	1/8"
E	1/16"
F	3/32"
G	3/16"
H	5/16"

MODEL B THERMOSTATIC VALVES REPLACEMENT PARTS

VALVE SIZE	No. OF ELEMENTS
1 1/2"	1
2"	1
2 1/2"	2
3"	2
3" (33)	3
4"	4
5"	6
6"	9
8"	16

REPLACEMENT B VALVE ELEMENT ASSEMBLIES

**** PRICES ARE PER**

ELEMENT PART No	ELEMENT CODE	DESCRIPTION	
1096X	01, 03	STANDARD ELEMENT	
1096P	02, 21, 44, 45, 51	PLATED ELEMENT	
2433X	07, 53, 63	STANDARD ELEMENT, MANUAL OVERRIDE	
2433P	08, 48, 55	PLATED ELEMENT, MANUAL; OVERRIDE	
5566X	11, 20	SHORT STROKE	
5566P		12 PLATED ELEMENT	
6836S		5 SALTWATER ELEMENT	
6836P		6 PLATED ELEMENT	
6836K	50, 52, 60	KANIGEN ELEMENT	
6938S		9 SALTWATER ELEMENT, MANUAL OVERRIDE	
6836Z		31 LOW MAGNETIC PERMABILITY	
6938Z		38 LOW MAGNETIC PERMABILITY, MANUAL OVERRIDE	
7406X		17 SHORT STROKE, MANUAL OVERRIDE	
7406P		68 SHORT STROKE, PLATED ELEMENT, MANUAL OVERRIDE	
47536X		64 ANTICAVITATION ELEMENT	

48920X	69, 70	STAINLESS ST. SEAT AND SLIDING VALVE
49580X	67, 71	STAINLESS ST. SEAT AND SLIDING VALVE, MANUAL OVERRIDE
49698X	65	ANTICAVITATION ELEMENT, MANUAL OVERRIDE
SPECIAL TEMPERATURES: ADD TO THE ELEMENT PRICE ABOVE FOR NON-STANDARD ELEMENTS ** PRICES ARE PER ELEMENT **		
85°f, 90°f, 105°f, 115°f, 120°f, 140°f, 145°f, 150°f, 160°f, 170°f, 175°f, 180°f, 185°f, 190°f, 195°f		
95°f, 100°f, 110°f, 130°f, 135°f, 155°f, 165°f		
55°f, 57°f, 75°f, 205°f, 215°f, 225°f, 230°f, 240°f		
LEAKHOLE		
B VALVE FLANGE FLAT FACE GASKETS NOT FOR STAINLESS STEEL VALVES		
CODE	DESCRIPTION	
44036L002	2" PN10/16 FLANGE	
44036L006	2" ANSI CLASS 125	
44037L002	2.5" PN10/16 FLANGE	
44037L006	2.5" ANSI CLASS 125	
44038L002	3" PN10/16 FLANGE	
44038L006	3" ANSI CLASS 125	
44039L002	4" PN10/16 FLANGE	
44039L006	4" ANSI CLASS 125	
44040L002	5" PN10/16 FLANGE	
44040L006	5" ANSI CLASS 125	
44041L002	6" PN10/16 FLANGE	
44041L006	6" ANSI CLASS 125	
44042L002	8" PN10 FLANGE	
44042L006	8" ANSI CLASS 125	
B VALVE FLANGE RAISED FACE GASKETS		
CODE	DESCRIPTION	
46892LB41	2" ANSI CLASS 300	
46892LB51	2" ANSI CLASS 150	
46892LB91	2" EN1092 PN16	
46892LB9A	2" EN1092 PN10	
46892LC41	2 1/2" ANSI CLASS 300	
46892LC51	2 1/2" ANSI CLASS 150	
46892LC91	2 1/2" EN1092 PN16	
46892LC9A	2 1/2" EN1092 PN10	
46892LD41	3" ANSI CLASS 300	
46892LD51	3" ANSI CLASS 150	
46892LD91	3" EN1092 PN16	
46892LD9A	3" EN1092 PN10	
46892LE41	4" ANSI CLASS 300	
46892LE51	4" ANSI CLASS 150	
46892LE91	4" EN1092 PN16	
46892LE9A	4" EN1092 PN10	
46892LF91	5" EN1092 PN16	
46892LF9A	5" EN1092 PN10	
46892LG51	6" ANSI CLASS 150	
46892LG91	6" EN1092 PN16	
46892LG9A	6" EN1092 PN10	

46892LH51	8" ANSI CLASS 150	
46892LH91	8" EN1092 PN16	
46892LH9A	8" EN1092 PN10	

BO TO BR CONVERSION KITS (1 OFF PER ELEMENT, ELEMENTS NOT INCLUDED)

CODE	DESCRIPTION
46011X190	CONV. KIT,2-4BO TO BR, CODE 07, 15, 17, 25, 29, 35, 67
46011X191	CONV. KIT,2-4BO TO BR, CODE 09, 33, 38
46011X192	CONV. KIT,2-4BO TO BR, CODE 08, 27, 42, 54, 68
46011X193	CONV. KIT,2-4BO TO BR, CODE 53, 65, 71
46011X194	CONV. KIT,2-4BO TO BR, CODE 48
46011X195	CONV. KIT,2-4BO TO BR, CODE 55, 58
46011X196	CONV. KIT,2-4BO TO BR, CODE 63
46011X290	CONV. KIT,33, 5, 6 AND 8BO TO BR, CODE 07, 15, 17, 25, 29, 35, 67
46011X291	CONV. KIT,33, 5, 6 AND 8BO TO BR, CODE 09, 33, 38
46011X292	CONV. KIT,33, 5, 6 AND 8BO TO BR, CODE 08, 27, 42, 54, 68
46011X293	CONV. KIT,33, 5, 6 AND 8BO TO BR, CODE 53, 65, 71
46011X294	CONV. KIT,33, 5, 6 AND 8BO TO BR, CODE 48
46011X295	CONV. KIT,33, 5, 6 AND 8BO TO BR, CODE 55, 58
46011X296	CONV. KIT,33, 5, 6 AND 8BO TO BR, CODE 63

SERVICE KITS

VALVE SIZE	VALVE TYPE	SEAL MATERIAL
1 1/2"	BO	NITRILE
		VITON
		NEOPRENE
	BR & BM	NITRILE
		VITON
		NEOPRENE
2"	BC, BO, BF & BH	NITRILE
		VITON
		NEOPRENE
	BR & BM	NITRILE
		VITON
		NEOPRENE
2 1/2"	BO	NITRILE
		VITON
		NEOPRENE
	BR & BM	NITRILE
		VITON
		NEOPRENE
3"	BO	NITRILE
		VITON
		NEOPRENE
	BR & BM	NITRILE
		VITON
		NEOPRENE
		NITRILE

33"	BO	VITON
		NEOPRENE
	BR & BM	NITRILE
		VITON
		NEOPRENE
4"	BO	NITRILE
		VITON
		NEOPRENE
	BR & BM	NITRILE
		VITON
		NEOPRENE
4" STEEL & STAINLESS STEEL BODIES ONLY	BO	NITRILE
		VITON
		NEOPRENE
	BR & BM	NITRILE
		VITON
		NEOPRENE
5"	BO	NITRILE
		VITON
		NEOPRENE
	BR & BM	NITRILE
		VITON
		NEOPRENE
6"	BO	NITRILE
		VITON
		NEOPRENE
	BR & BM	NITRILE
		VITON
		NEOPRENE
8"	BO	NITRILE
		VITON
		NEOPRENE
	BR	NITRILE
		VITON
		NEOPRENE

MODEL C THERMOSTATIC VALVES

All Materials standard & Manufactured to order

EXAMPLE PART NUMBER - 1 1/4CCMCU12001-F1-AA

**** ALL C VALVES HAVE 1 ELEMENT EXCEPT FOR THE 1 1/4CCM VALVE WHICH HAS 2 ELEMENTS ****

(C) CAST IRON C VALVE		
CODE	TYPE	CONNECTION
1/2CLCR	Low Flow	Threaded BSP, DIN 3852
1/2CLCT	Low Flow	NPT
1/2CLCU	Low Flow	BSP (PI) to BS 21
1/2CLCV	Low Flow	BSP (Tr) / JIS Threaded
1/2CLCW	Low Flow	SAE Straight Thread, O-Ring seal
1/2CMCR	Low Flow	Threaded BSP, DIN 3852

1/2CMCT	Std Valve, Threaded	NPT
1/2CMCU	Std Valve, Threaded	BSP (PI) to BS 21
1/2CMCV	Std Valve, Threaded	BSP (Tr) / JIS Threaded
1/2CMCW	Std Valve, Threaded	SAE Straight Thread, O-Ring seal
3/4CLCR	Std Valve, Threaded	Threaded BSP, DIN 3852
3/4CLCT	Low Flow	NPT
3/4CLCU	Low Flow	BSP (PI) to BS 21
3/4CLCV	Low Flow	BSP (Tr) / JIS Threaded
3/4CLCW	Low Flow	SAE Straight Thread, O-Ring seal
3/4CLCR	Low Flow	Threaded BSP, DIN 3852
3/4CMCT	Std Valve, Threaded	NPT
3/4CMCU	Std Valve, Threaded	BSP (PI) to BS 21
3/4CMCV	Std Valve, Threaded	BSP (Tr) / JIS Threaded
3/4CMCW	Std Valve, Threaded	SAE Straight Thread, O-Ring seal
1CLCR	Low Flow	Threaded BSP, DIN 3852
1CLCT	Low Flow	NPT
1CLCU	Low Flow	BSP (PI) to BS 21
1CLCV	Low Flow	BSP (Tr) / JIS Threaded
1CLCW	Low Flow	SAE Straight Thread, O-Ring seal
1CLCR	Low Flow	Threaded BSP, DIN 3852
1CMCT	Std Valve, Threaded	NPT
1CMCU	Std Valve, Threaded	BSP (PI) to BS 21
1CMCV	Std Valve, Threaded	BSP (Tr) / JIS Threaded
1CMCW	Std Valve, Threaded	SAE Straight Thread, O-Ring seal
1 1/4CCMCR **	High Flow	Threaded BSP, DIN 3852
1 1/4CCMCT **	High Flow	NPT
1 1/4CCMCU **	High Flow	BSP (PI) to BS 21
1 1/4CCMCV **	High Flow	BSP (Tr) / JIS Threaded
1 1/4CCMCW **	High Flow	SAE Straight Thread, O-Ring seal
1 1/4CLCR	Low Flow	Threaded BSP, DIN 3852
1 1/4CLCT	Low Flow	NPT
1 1/4CLCU	Low Flow	BSP (PI) to BS 21
1 1/4CLCV	Low Flow	BSP (Tr) / JIS Threaded
1 1/4CLCW	Low Flow	SAE Straight Thread, O-Ring seal
1 1/4CMCR	Std Valve, Threaded	Threaded BSP, DIN 3852
1 1/4CMCT	Std Valve, Threaded	NPT
1 1/4CMCU	Std Valve, Threaded	BSP (PI) to BS 21
1 1/4CMCV	Std Valve, Threaded	BSP (Tr) / JIS Threaded
1 1/4CMCW	Std Valve, Threaded	SAE Straight Thread, O-Ring seal
1 1/2CFCB	Std Valve, Flanged	Flanged, PN10
1 1/2CFCC	Std Valve, Flanged	Flanged, PN16
1 1/2CFCF	Std Valve, Flanged	125 # FF Flanged
1 1/2CLCR	Low Flow	Threaded BSP, DIN 3852
1 1/2CLCT	Low Flow	NPT
1 1/2CLCU	Low Flow	BSP (PI) to BS 21
1 1/2CLCV	Low Flow	BSP (Tr) / JIS Threaded

1 1/2CLCW	Low Flow	SAE Straight Thread, O-Ring seal
1 1/2CMCR	Std Valve, Threaded	Threaded BSP, DIN 3852
1 1/2CMCT	Std Valve, Threaded	NPT
1 1/2CMCU	Std Valve, Threaded	BSP (PI) to BS 21
1 1/2CMCV	Std Valve, Threaded	BSP (Tr) / JIS Threaded
1 1/2CMCW	Std Valve, Threaded	SAE Straight Thread, O-Ring seal

(R) STAINLESS STEEL C VALVE

CODE	TYPE	CONNECTION
3/4CLRT	Low Flow	NPT
3/4CLRU	Low Flow	BSP (PI) to BS 21
3/4CLRV	Low Flow	BSP (Tr) / JIS Threaded
3/4CLRW	Low Flow	SAE Straight Thread, O-Ring seal
3/4CLRM	Low Flow	For weld connections Socket weld
3/4CMRT	Std Valve, Threaded	NPT
3/4CMRU	Std Valve, Threaded	BSP (PI) to BS 21
3/4CMRV	Std Valve, Threaded	BSP (Tr) / JIS Threaded
3/4CMRW	Std Valve, Threaded	SAE Straight Thread, O-Ring seal
3/4CMRM	Std. Valve	For weld connections Socket weld
1CLRT	Low Flow	NPT
1CLRU	Low Flow	BSP (PI) to BS 21
1CLRV	Low Flow	BSP (Tr) / JIS Threaded
1CLRW	Low Flow	SAE Straight Thread, O-Ring seal
1CLRM	Low Flow	For weld connections Socket weld
1CMRT	Std Valve, Threaded	NPT
1CMRU	Std Valve, Threaded	BSP (PI) to BS 21
1CMRV	Std Valve, Threaded	BSP (Tr) / JIS Threaded
1CMRW	Std Valve, Threaded	SAE Straight Thread, O-Ring seal
1CMRM	Std. Valve	For weld connections Socket weld
1 1/2CFRC	Std Valve, Flanged	Flanged, PN16
1 1/2CFRH	Std Valve, Flanged	300# RF Flanged
1 1/2CFRJ	Std Valve, Flanged	150# RF Flanged
1 1/2CLRC	Low Flow	Flanged, PN16
1 1/2CLRH	Low Flow	300# RF Flanged
1 1/2CLRJ	Low Flow	150# RF Flanged

(A) ALUMINIUM C VALVE

CODE	TYPE
3/4CLAT	Low Flow
3/4CLAU	Low Flow
3/4CLAV	Low Flow
3/4CLAW	Low Flow
3/4CMAT	Std Valve, Threaded
3/4CAU	Std Valve, Threaded
3/4CAV	Std Valve, Threaded
3/4CAW	Std Valve, Threaded
1CLAT	Low Flow

1CLAU	Low Flow
1CLAV	Low Flow
1CLAW	Low Flow
1CMAT	Std Valve, Threaded
1CMAU	Std Valve, Threaded
1CMAV	Std Valve, Threaded
1CMAW	Std Valve, Threaded
(S) STEEL C VALVE	
CODE	TYPE
3/4CLST	Low Flow
3/4CLSU	Low Flow
3/4CLSV	Low Flow
3/4CLSW	Low Flow
3/4CLSM	Low Flow For weld connections
3/4CMST	Std Valve, Threaded
3/4CMSU	Std Valve, Threaded
3/4CMSV	Std Valve, Threaded
3/4CMSW	Std Valve, Threaded
3/4CMSM	Std. Valve For weld connections
1CLST	Low Flow
1CLSU	Low Flow
1CLSV	Low Flow
1CLSW	Low Flow
1CLSM	Low Flow For weld connections
1CMST	Std Valve, Threaded
1CMSU	Std Valve, Threaded
1CMSV	Std Valve, Threaded
1CMSW	Std Valve, Threaded
1CMSM	Std. Valve For weld connections
1 1/2CFSC	Std Valve, Flanged
1 1/2CFSH	Std Valve, Flanged
1 1/2CFSJ	Std Valve, Flanged
1 1/2CLSC	Low Flow
1 1/2CLSH	Low Flow
1 1/2CLSJ	Low Flow
(B) BRONZE C VALVE (SALT WATER ELEMENT NOT INCLUDED)	
CODE	TYPE
1/2CLBR	Low Flow
1/2CLBT	Low Flow
1/2CLBU	Low Flow
1/2CLBV	Low Flow
1/2CLBW	Low Flow
1/2CMBR	Low Flow
1/2CMBT	Std Valve, Threaded
1/2CMBU	Std Valve, Threaded
1/2CMBV	Std Valve, Threaded
1/2CMBW	Std Valve, Threaded
3/4CLBR	Low Flow

3/4CLBT	Low Flow
3/4CLBU	Low Flow
3/4CLBV	Low Flow
3/4CLBW	Low Flow
3/4CMBR	Std Valve, Threaded
3/4CMBT	Std Valve, Threaded
3/4CMBU	Std Valve, Threaded
3/4CMBV	Std Valve, Threaded
3/4CMBW	Std Valve, Threaded
1CLBR	Low Flow
1CLBT	Low Flow
1CLBU	Low Flow
1CLBV	Low Flow
1CLBW	Low Flow
1CMBR	Std Valve, Threaded
1CMBT	Std Valve, Threaded
1CMBU	Std Valve, Threaded
1CMBV	Std Valve, Threaded
1CMBW	Std Valve, Threaded
1 1/4CLBR	Low Flow
1 1/4CLBT	Low Flow
1 1/4CLBU	Low Flow
1 1/4CLBV	Low Flow
1 1/4CLBW	Low Flow
1 1/4CMBR	Std Valve, Threaded
1 1/4CMBT	Std Valve, Threaded
1 1/4CMBU	Std Valve, Threaded
1 1/4CMBV	Std Valve, Threaded
1 1/4CMBW	Std Valve, Threaded
1 1/2CFBB	Std Valve, Flanged
1 1/2CFBC	Std Valve, Flanged
1 1/2CFBF	Std Valve, Flanged
1 1/2CLBT	Low Flow
1 1/2CLBU	Low Flow
1 1/2CLBV	Low Flow
1 1/2CLBW	Low Flow
1 1/2CMBR	Std Valve, Threaded
1 1/2CMBT	Std Valve, Threaded
1 1/2CMBU	Std Valve, Threaded
1 1/2CMBV	Std Valve, Threaded
1 1/2CMBW	Std Valve, Threaded
ELEMENT ASSEMBLY & SEAL TYPE EXCLUDING CL VALVE	
CODE	TYPE
	1 1125X
	2 1125P
	6 1125X
	9 1125P
	82 9778C

	86 44844X
	99 3362U
ELEMENT ASSEMBLY & SEAL TYPE FOR CL VALVE ONLY	
CODE	TYPE
	1 10765X
	2 10765P
	6 10765G
	9 10765P
	78 10765P
	82 10765K
	99 10765U
LEAKHOLE (Optional)	
CODE	HOLE DIAMETER
	0 NONE
B	1/32"
C	1/16"
D	3/32"
F	1/8"
G	1/4"
H	3/16"

MODEL C THERMOSTATIC VALVES REPLACEMENT PARTS

REPLACEMENT CM & CF VALVE ELEMENT ASSEMBLIES				** PRICES ARE PER ELEMENT **
ELEMENT CODE	ELEMENT PART NUMBER	SEAL MATERIAL	PLATING	
	1 1125X	Nitrile	None	
	2 1125P	Viton	Nickel Plated	
	6 1125X	Viton	None	
	9 1125P	Nitrile	Nickel Plated	
	82 9778C	Neoprene	Nickel Plated	
	86 44844X	Viton	None	
	99 3362U	Neoprene	None	
LEAKHOLE ADDER				
REPLACEMENT CL VALVE ELEMENT ASSEMBLIES				** PRICES ARE PER ELEMENT **
CODE	TYPE	SEAL MATERIAL	PLATING	
	1 10765X	Nitrile	None	
	2 10765P	Viton	Nickel Plated	
	6 10765G	Viton	None	
	9 10765P	Nitrile	Nickel Plated	
	78 10765P	Neoprene	Nickel Plated	
	82 10765K	Neoprene	Nickel Plated	
	99 10765U	Neoprene	None	
LEAKHOLE ADDER				
SERVICE KITS				
ELEMENT CODE	VALVE TYPE	PART NUMBER	DESCRIPTION	
1	CF/CMB/CMC	81964X101	Service Kit	
	CMA/CMR/CMS	81964X201	Service Kit	
	CCM	81964X301	Service Kit	
	CLB/CLC/CLSH/CLSJ	81964X101	Service Kit	

	CLA/CLR/CLS	81964X201	Service Kit
2	CF/CMB/CMC	81964X102	Service Kit
	CMA/CMR/CMS	81964X202	Service Kit
	CCM	81964X302	Service Kit
	CLB/CLC/CLSH/CLSJ	81964X102	Service Kit
	CLA/CLR/CLS	81964X202	Service Kit
6	CF/CMB/CMC	81964X102	Service Kit
	CMA/CMR/CMS	81964X202	Service Kit
	CCM	81964X302	Service Kit
	CLB/CLC/CLSH/CLSJ	81964X102	Service Kit
	CLA/CLR/CLS	81964X102	Service Kit
9	CF/CMB/CMC	81964X101	Service Kit
	CMA/CMR/CMS	81964X201	Service Kit
	CCM	81964X301	Service Kit
	CLB/CLC/CLSH/CLSJ	81964X101	Service Kit
	CLA/CLR/CLS	81964X201	Service Kit
82	CF/CMB/CMC	81964X105	Service Kit
	CMA/CMR/CMS	81964X205	Service Kit
	CCM	81964X305	Service Kit
	CLB/CLC/CLSH/CLSJ	81964X105	Service Kit
	CLA/CLR/CLS	81964X205	Service Kit
86	CF/CMB/CMC	81964X102	Service Kit
	CMA/CMR/CMS	81964X202	Service Kit
	CCM	81964X302	Service Kit
99	CF/CMB/CMC	81964X105	Service Kit
	CMA/CMR/CMS	81964X205	Service Kit
	CCM	81964X305	Service Kit
	CLB/CLC/CLSH/CLSJ	81964X105	Service Kit
	CLA/CLR/CLS	81964X205	Service Kit

MODEL E THERMOSTATIC VALVES

LEAKHOLE (Optional)	
CODE	HOLE DIAMETER
0	NONE
A	1/8"
B	1/4"
C	3/16"
D	1/16"

All Materials standard & Manufactured to order

EXAMPLE PART NUMBER - 1 1/2ELCW12003-0-AA

		(C) CAST IRON E VALVE
CODE	TYPE	
1 1/2EFCA	Std Valve, Flanged	
1 1/2EFCE	Std Valve, Flanged	
1 1/2EFCC	Std Valve, Flanged	
1 1/2EFCD	Std Valve, Flanged	
1 1/2EFCE	Std Valve, Flanged	
1 1/2EFCF	Std Valve, Flanged	
1 1/2ELCR	Std Valve, Threaded	

1 1/2ELCT	Std Valve, Threaded
1 1/2ELCU	Std Valve, Threaded
1 1/2ELCV	Std Valve, Threaded
1 1/2ELCW	Std Valve, Threaded
1 1/2EMCB	Manual OveSPEC CODE ALC
1 1/2EMCC	Manual OveSPEC CODE ALC
1 1/2EMCF	Manual OveSPEC CODE ALC
(B) BRONZE E VALVE	
CODE	TYPE
1 1/2EFBA	Std Valve, Flanged
1 1/2EFBB	Std Valve, Flanged
1 1/2EFBC	Std Valve, Flanged
1 1/2EFBD	Std Valve, Flanged
2 1/2EFBE	Std Valve, Flanged
1 1/2EFBF	Std Valve, Flanged
1 1/2EMBB	Manual OveSPEC CODE ALC
1 1/2EMBC	Manual OveSPEC CODE ALC
1 1/2EMBF	Manual OveSPEC CODE ALC
1 1/2EOBR	Std. Valve, Threaded, Repl Sleeve
1 1/2EOBT	Std. Valve, Threaded, Repl Sleeve
1 1/2EOBU	Std. Valve, Threaded, Repl Sleeve
1 1/2EOBV	Std. Valve, Threaded, Repl Sleeve
(S) STEEL E VALVE	
CODE	TYPE
1 1/2EFSA	Std Valve, Flanged
1 1/2EFSB	Std Valve, Flanged
1 1/2EFSC	Std Valve, Flanged
1 1/2EFSH	Std Valve, Flanged
1 1/2EFSJ	Std Valve, Flanged
1 1/2EFSK	Std Valve, Flanged
1 1/2EMSB	Manual Override
1 1/2EMSC	Manual Override
1 1/2EMSH	Manual Override
1 1/2EMSJ	Manual Override
1 1/2EMSK	Manual Override
(R) STAINLESS STEEL E VALVE	
CODE	TYPE
1 1/2EFRA	Std Valve, Flanged
1 1/2EFRB	Std Valve, Flanged
1 1/2EFRC	Std Valve, Flanged
1 1/2EFRH	Std Valve, Flanged
1 1/2EFRJ	Std Valve, Flanged
1 1/2EFRK	Std Valve, Flanged
1 1/2EMRB	Manual Override
1 1/2EMRC	Manual Override
1 1/2EMRH	Manual Override
1 1/2EMRJ	Manual Override
1 1/2EMRK	Manual Override

ELEMENT ASSEMBLY & SEAL TYPE		
CODE	TYPE	OVERRIDE?
1	5435X	NO
2	5435P	NO
3	5435X	NO
4	5435P	NO
5	5435X	NO
6	5435P	NO
07 EM*C/J/H	9831X	YES
07 EMB/EMC	45184X	YES
07 EM*K	10912X	YES
08 EM*C/J/H	9831P	YES
08 EMB/EMC	45184P	YES
08 EM*K	10912P	YES
9	5435P	NO
10	5435S	NO
11 EM*C/J/H	9831X	YES
11 EMB/EMC	45184X	YES
11 EM*K	10912X	YES
14 EM*C/J/H	9831X	YES
14 EMB/EMC	45184X	YES
14 EM*K	10912X	YES
17 EM*C/J/H	9831P	YES
17 EMB/EMC	45184P	YES
17 EM*K	10912P	YES
18 EM*C/J/H	9831P	YES
18 EMB/EMC	45184P	YES
18 EM*K	10912P	YES

MODEL E THERMOSTATIC VALVES REPLACEMENT PARTS

REPLACEMENT E VALVE ELEMENT ASSEMBLIES				
ELEMENT PART NUMBER	ELEMENT CODE	DESCRIPTION		
5435X	01, 03, 05	STANDARD ELEMENT		
5435P	02, 04, 06, 09	PLATED ELEMENT		
5435S		10 SALT WATER ELEMENT		
9831X	07, 11, 14	EM*/EM*H MANUAL OVERRIDE ELEMENT		
9831P	08, 17, 18	EM*/EM*H PLATED MANUAL OVERRIDE ELEMENT		
45184X	07, 11, 14	EMB/EMC MANUAL OVERRIDE ELEMENT		
45184P	08, 17, 18	EMB/EMC PLATED MANUAL OVERRIDE ELEMENT		
10912X	07, 11, 14	EM*K MANUAL OVERRIDE ELEMENT		
10912P	08, 17, 18	EM*K PLATED MANUAL OVERRIDE ELEMENT		
LEAKHOLE ADDER				
SERVICE KITS				
VALVE TYPE	ELEMENT CODE	SEAL MATERIAL	PART NUMBER	
EF (Except Flanged ANSI 600 lb)	01, 04, 10	Nitrile	82334X101	
	02, 03	Viton	82334X201	
	05, 09	Neoprene	82334X301	
EM (Excent	07, 18	Nitrile	82334X102	

EM* (Except Flanged ANSI 600 lb)	8,11	Viton	82334X202	
	14, 17	Neoprene	82334X302	
EF*K WITH 600LB FLANGES	01, 04, 10	Nitrile	82334X103	
	02, 03	Viton	82334X203	
	05, 09	Neoprene	82334X303	
EM*K WITH 600LB FLANGES	07, 18	Nitrile	82334X104	
	8,11	Viton	82334X204	
	14, 17	Neoprene	82334X304	

SLEEVES (Pre-August 1991)

PART NUMBER	SEAL MATERIAL	UK PRICE 2018
3904	Standard	
3904P	Nickel Plated	

MODEL H THERMOSTATIC VALVES

All Materials standard & Manufactured to order

ELEMENT CAGE		
PART NUMBER	MATERIAL	
9042	Standard	
9042L001	Nickel Plated	
MANUAL OVERRIDE 'O' RING		
PART NUMBER	MATERIAL	
11148	Nitrile	
11148L001	Viton	

EXAMPLE PART NUMBER - 4HOSH12003-0-AA

			(S) STEEL H VALVE
CODE	No of ELEMENTS	TYPE	
4HMSB	1	Manual Override	
4HMSC	1	Manual Override	
4HMSH	1	Manual Override	
4HMSJ	1	Manual Override	
4HOSB	1	Std. Valve	
4HOSC	1	Std. Valve	
4HOSH	1	Std. Valve	
4HOSJ	1	Std. Valve	
5HMSC	2	Manual Override	
5HMSJ	2	Manual Override	
5HOSC	2	Std. Valve	
5HOSJ	2	Std. Valve	
6HMSB	2	Manual Override	
6HMSC	2	Manual Override	
6HMSJ	2	Manual Override	
6HOSB	2	Std. Valve	
6HOSC	2	Std. Valve	
6HOSJ	2	Std. Valve	
			(R) STAINLESS STEEL H VALVE
CODE	No of ELEMENTS	TYPE	
4HMRC	1	Manual Override	

4HMRH	1	Manual Override
4HMRJ	1	Manual Override
4HORC	1	Std. Valve
4HORH	1	Std. Valve
4HORJ	1	Std. Valve
6HMRC	2	Manual Override
6HMRJ	2	Manual Override
6HORC	2	Std. Valve
6HORJ	2	Std. Valve

SPECIAL TEMPERATURES

55°F, 75°F, 95°F, 205°F, 215°F, 230°F

ELEMENT ASSEMBLY & SEAL TYPE

CODE	TYPE	OVERRIDE?
1	9760X	NO
2	9760P	NO
3	9760X	NO
4	9760P	NO
7	9844X	YES
8	9844P	YES
9	9844X	YES

LEAKHOLE (Optional)

CODE	HOLE DIAMETER
	0 NONE
B	1/4"
C	1/2"
D	3/4"

MODEL H THERMOSTATIC VALVES REPLACEMENT PARTS

REPLACEMENT H VALVE ELEMENT ASSEMBLIES

ELEMENT PART NUMBER	ELEMENT CODE	DESCRIPTION
9760X	01, 03	Standard 9760X
9760P	02, 04	9760P
9844X	07, 09	Manual Override - 9844X
9844P		8 Manual Override - 9844P

LEAKHOLE ADDER

SPECIAL TEMPERATURES

55°F, 75°F, 95°F, 205°F, 215°F, 230°F

SLIDING VALVE 'O' RING

PART NUMBER	MATERIAL
11009L001	Nitrile
11009L002	Viton

COVER 'O' RING

PART NUMBER	MATERIAL
11007L001	Nitrile
11007L002	Viton

MODEL J THERMOSTATIC VALVES

All Materials standard & Manufactured to order

EXAMPLE PART NUMBER - 3/4JOAT14001-AA

(A) ALUMINIUM J VALVE			
CODE	TYPE	CONNECTION	VALVE BODY MATERIAL
3/4JOAK	Std. Valve	Threaded M26 x 1.5	Aluminium
3/4JOAT	Std. Valve	Threaded, NPT to USAS B2.1	Aluminium
3/4JOAU	Std. Valve	Threaded, BSP (PL) to BS2.1	Aluminium
3/4JOAV	Std. Valve	BSP (Tr) / JIS Threaded	Aluminium
3/4JOAW	Std. Valve	Threaded to SAE J5 14 H (straight thread, o-ring seal)	Aluminium
3/4JRAK	Pressure relieving	Threaded M26 x 1.5	Aluminium
3/4JRAT	Pressure relieving	Threaded, NPT to USAS B2.1	Aluminium
3/4JRAU	Pressure relieving	Threaded, BSP (PL) to BS2.1	Aluminium
3/4JRAV	Pressure relieving	BSP (Tr) / JIS Threaded	Aluminium
3/4JRAW	Pressure relieving	Threaded to SAE J5 14 H (straight thread, o-ring seal)	Aluminium
3/4JEAK	Externally sensing	Threaded M26 x 1.5	Aluminium
3/4JEAT	Externally sensing	Threaded, NPT to USAS B2.1	Aluminium
3/4JEAU	Externally sensing	Threaded, BSP (PL) to BS2.1	Aluminium
3/4JEAV	Externally sensing	BSP (Tr) / JIS Threaded	Aluminium
3/4JEAU	Externally sensing	Threaded to SAE J5 14 H (straight thread, o-ring seal)	Aluminium

(B) BRONZE J VALVE			
CODE	TYPE	CONNECTION	VALVE BODY MATERIAL
3/4JOBT	Std. Valve	Threaded, NPT to USAS B2.1	Bronze
3/4JWBK	Water saving	Threaded M26 x 1.5	Bronze
3/4JWBT	Water saving	Threaded, NPT to USAS B2.1	Bronze
3/4JWBU	Water saving	Threaded, BSP (PL) to BS2.1	Bronze
3/4JWBV	Water saving	BSP (Tr) / JIS Threaded	Bronze
3/4JWBW	Water saving	Threaded to SAE J5 14 H (straight thread, o-ring seal)	Bronze

SPECIAL TEMPERATURES	** PRICES ARE PER ELEMENT **
65°F, 75°F, 85°F, 95°F, 200°F, 205°F, 215°F, 225°F, 230°F	

ELEMENT CODE		
CODE	SEAL MATERIAL	PLATING
1	Nitrile	Standard
2	Viton	Nickel Plated
3	Viton	Standard
5	Neoprene	Standard
6	Neoprene	Nickel Plated
7	Nitrile	Nickel Plated

LEAKHOLE (Optional)	
CODE	HOLE DIAMETER
0	NONE
A	1/16"
B	3/32"

C	1/8"
D	1/32"

MODEL J THERMOSTATIC VALVES REPLACEMENT PARTS

REPLACEMENT J VALVE ELEMENT ASSEMBLIES			
ELEMENT CODE	ELEMENT	TYPE	
01, 03, 05	9654X	JO, JR & JE	
02, 06, 07	9654P	JO, JR & JE	
01, 03, 05	9902X	JW	
02, 06, 07	9902P	JW	
ELEMENT 'O' RING			
PART NUMBER	MATERIAL	TYPE	
11197L025	Nitrile	JO, JR & JW	
11198L025	Viton	JO, JR & JW	
11199L025	Neoprene	JO, JR & JW	
SLIDING VALVE ASSEMBLY			
PART NUMBER		TYPE	
21378L001		JO ONLY	

MODEL R THERMOSTATIC VALVES

All Materials standard & Manufactured to order

EXAMPLE PART NUMBER - RO40SX110034

(S) STEEL R VALVE (Refrigeration Applications)			
CODE	ELEMENTS	TYPE	CONNECTION
RO20SX	1	Std. Valve	Butt Weld DIN 2448 PN40
RO20SY	1	Std. Valve	Socket Weld ANSI B16.11
RO20SZ	1	Std. Valve	Butt Weld ANSI B36.10 SCH.40
RO25SX	1	Std. Valve	Butt Weld DIN 2448 PN40
RO25SY	1	Std. Valve	Socket Weld ANSI B16.11
RO25SZ	1	Std. Valve	Butt Weld ANSI B36.10 SCH.40
RO40SX	1	Std. Valve	Butt Weld DIN 2448 PN40
RO40SY	1	Std. Valve	Socket Weld ANSI B16.11
RO40SZ	1	Std. Valve	Butt Weld ANSI B36.10 SCH.40
RO50SX	1	Std. Valve	Butt Weld DIN 2448 PN40
RO50SY	1	Std. Valve	Socket Weld ANSI B16.11
RO50SZ	1	Std. Valve	Butt Weld ANSI B36.10 SCH.40
RO65SX	1	Std. Valve	Butt Weld DIN 2448 PN40
RO65SY	1	Std. Valve	Socket Weld ANSI B16.11
RO80SX	2	Std. Valve	Butt Weld DIN 2448 PN40
ELEMENT ASSEMBLY & SEAL TYPE			
CODE	SEAL MATERIAL		PLATING
1	Nitrile		None
2	Viton		None
3	Neoprene		None
4	Nitrile		Electroless Nickel
5	Viton		Electroless Nickel
6	Neoprene		Electroless Nickel
LEAKHOLE (Optional)			

CODE	HOLE DIAMETER
0	0mm
2	2mm
3	3mm
4	4mm
5	5mm
6	6mm
8	8mm

MODEL R THERMOSTATIC VALVES REPLACEMENT PARTS

REPLACEMENT R VALVE ELEMENT ASSEMBLIES

ELEMENT CODE	DESCRIPTION
5435X	Standard RO20, RO25, RO40
5435P	Nicel Plated RO20, RO25, RO40
46856X	Standard RO50, RO65
46856P	Nicel Plated RO50, RO65
1096X	Standard RO80 (2 PER VALVE)
1096P	Nicel Plated RO80 (2 PER VALVE)

LEAKHOLE ADDER

SPECIAL TEMPERATURES ADDER

65°F, 75°F, 85°F, 95°F, 200°F, 205°F, 215°F, 225°F, 230°F

SEAL KITS

PART NUMBER	VALVE TYPE	MATERIAL
46857X002	RT	Viton
46857X003	RT	Neoprene
46858X002	RT	Viton
46858X003	RT	Neoprene
46858X101	RF & RO	Nitrile
46857X102	RF & RO	Viton
46857X103	RF & RO	Neoprene
46858X101	RF & RO	Nitrile
46858X102	RF & RO	Viton
46858X103	RF & RO	Neoprene
80660X101	RF & RO	Nitrile
80660X102	RF & RO	Viton
80660X103	RF & RO	Neoprene

CODE	TYPE
2470B	Std. Valve

THREAD

CODE	DESCRIPTION
1	Port threads: 1" NPT, Installation Threads: 3/4" NPT
3	Port threads: 1" BSP(PI), Installation Threads: 3/4" BSP (Tr)

FUNCTION

CODE	DESCRIPTION
1	Opens on Rising Temp, Rubber Seat
2	Closes on Rising Temp, Metal Seat

3 Closes on Rising Temp, Rubber Seat

TEMPERATURE	
CODE	OPENING TEMP
	WITHOUT WELL
A	70°f
B	85°f
C	100°f
D	110°f
E	120°f
F	130°f
G	140°f
H	155°f
K	165°f
M	170°f
N	185°f
P	200°f
R	205°f
S	215°f
T	225°f

ELEMENT EXTENSION	
CODE	DESCRIPTION
0	50mm/2"
3	87mm/3.44"
4	100mm/3.94"

THERMAL WELL	
CODE	DESCRIPTION
N	Not Fitted
1	1" BSP (TR)
2	1" NPT
V	Calibrated in a well, not fitted

MODEL 8D THERMOSTATIC VALVES REPLACEMENT PARTS

REPLACEMENT 8D VALVE ELEMENT ASSEMBLIES	
PART NUMBER	DESCRIPTION
5832X	Standard (4 PER VALVE)
5832P	Nicel Plate(4 PER VALVE)
556	SLIDING VALVE O-RING NITRILE
5849	HOUSING GASKET
1919	STEM O-RING NITRILE
707	STEM O-RING NITRILE

REPLACEMENT 95F PARTS	
PART NUMBER	DESCRIPTION
40936X	ELEMENT
40937	SEALING RING (2 PER VALVE)
41134	HOUSING GASKET
1168	SEAT O-RING
LEAKHOLE ADDER	

MODEL 4073B THERMOSTATIC VALVES REPLACEMENT PARTS

REPLACEMENT 4073B PARTS		
PART NUMBER	DESCRIPTION	
5435X	Standard	
1919	STEM O-RING NITRILE	
5444	HOUSING GASKET	

MODEL 4079B THERMOSTATIC VALVES REPLACEMENT PARTS

REPLACEMENT 4079B PARTS		
PART NUMBER	DESCRIPTION	
3780X	ELEMENT	
1183	ELEMENT O-RING	
5676	HOUSING GASKET	

MODEL 20100D THERMOSTATIC VALVES REPLACEMENT PARTS

REPLACEMENT 20100D PARTS		
PART NUMBER	DESCRIPTION	
	ELEMENT (2 PER VALVE) FOR SPECIAL TEMPERATURES SEE PAGE 10 FOR PRICE ADDER	
1096X	ELEMENT O-RING (2 PER VALVE)	
1183		
40799	HOUSING GASKET	

MODEL 95F THERMOSTATIC VALVES REPLACEMENT PARTS MODEL 20157B*-ANE THERMOSTATIC VALVES REPLACEMENT PARTS**

REPLACEMENT 20157B***-ANE PARTS		
PART NUMBER	DESCRIPTION	
9415E***-BFC	ELEMENT (2 PER VALVE)	
1183	ELEMENT O-RING (2 PER VALVE)	

CUSTOM THERMOSTATIC VALVES

PART NUMBER	DESCRIPTION	
95FA***0-ALH	THERMOSTATIC VALVE	
20066D***-AA	BRONZE EXTERNALLY SENSING	
20100D***-0-AA	THERMOSTATIC VALVE	
20100D***-0-ACB	THERMOSTATIC VALVE	
20157B***-ANE	THERMOSTATIC VALVE	
20180A155-ADV	THERMOSTATIC VALVE	
4079B***B-AA	50MM HOSE CONNECTIONS	
4079B***B-AJR	50MM HOSE CONNECTIONS	
4079B***B-AJF	50MM HOSE CONNECTIONS	
4106C21***-AA	THERMOHYDRAULIC VALVE	

GG VALVES

ALL materials manufactured to order

EXAMPLE PART NUMBER - 08GGSDBS32EABCA-AA

VALVE SIZE & MODEL	
CODE	NOMINAL BORE SIZE
02GG	2" (DN50) - HIGH FLOW ONLY
03GG	3" (DN80)
04GG	4" (DN100)
05GG	5" (DN125) - STANDARD FLOW ONLY
06GG	6" (DN150)
08GG	8" (DN200)

VALVE FLOW & MATERIAL CODE				
CODE	FLOW	MATERIAL		
	Standard Flow			
SD	High Flow	Ductile Iron		
HD		Ductile Iron		
SR HR	Standard Flow High Flow	Stainless St Stainless St		
FLANGE CONNECTION				
CODE	CLASS / STANDARD			
A	PN6, EN1092			
B	PN10, EN1092			
C	PN16, EN1092			
F	125lb (Flat Face), ASME			
J	150lb, ASME			
L	10k, JIS			
M	5k, JIS			
ROTOR				
CODE	TYPE			
S	STANDARD			
MODE OF OPERATION				
CODE	ROTOR POSITION		ROTATION STARTING FROM COLD POSITION	
	COLD PROCESS	HOT PROCESS		
12	PORT 1	PORT 2	CLOCKWISE	
23	PORT 2	PORT 3		
31	PORT 3	PORT 1		
21	PORT 2	PORT 1	ANTICLOCKWISE	
32	PORT 3	PORT 2		
13	PORT 1	PORT 3		
ELECTRIC ACTUATOR, CONTROL INPUT SIGNAL AND FEEDBACK SIGNAL				
CODE	ACTUATION	INPUT SIGNAL	FEEDBACK SIGNAL	
EAAAA	ELECTRIC 110VAC	RELAYS, SWITCHED LIVE SUPPLY	NONE	
EAACA			4-20mA Position Retransmit	
EAAEA			20-4mA Position Retransmit	
EABCA			4-20mA	4-20mA Position Retransmit
EACEA			20-4mA	20-4mA Position Retransmit
EBAAA	ELECTRIC 220VAC	RELAYS, SWITCHED LIVE SUPPLY	NONE	
EBACA			4-20mA Position Retransmit	
EBAEA			20-4mA Position Retransmit	
EBBCA			4-20mA	4-20mA Position Retransmit
EBCEA			20-4mA	20-4mA Position Retransmit
PNEUMATIC ACTUATOR, CONTROL INPUT SIGNAL AND FEEDBACK SIGNAL			L AND FEEDBACK SIGNAL	
CODE	ACTUATION PNEUMATIC	INPUT SIGNAL		
P1100		3-15 psi		
P1200	1/4BSPL	15-3 psi		
P2100	PNEUMATIC	3-15 psi		
P2200 P3100	1/4NPT	15-3 psi		
	PNEUMATIC	3-15 psi WITH M/O		
P3200	1/4BSPL	15-3 psi WITH M/O		
P4100		3-15 psi WITH M/O		
	PNEUMATIC 1/4NPT			

P4200		15-3 psi WITH M/O
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GPD VALVES - PNEUMATIC ACTUATED 3-WAY VALVE

ALL materials manufactured to order

EXAMPLE PART NUMBER - 3GPD030J

VALVE SIZE & MODEL			
CODE	NOMINAL BORE SIZE		
2GPD	2" (DN50)		
3GPD	3" (DN80)		
4GPD	4" (DN100)		
6GPD	6" (DN150)		
8GPD	8" (DN200)		
10GPD	10" (DN250)		
12GPD	12" (DN300)		

BODY / SEAL MATERIAL			
CODE	MATERIAL	2GPD	3GPD
B	BRONZE & NITRILE		
C	CAST IRON & NITRILE		
D	DUCTILE IRON & NITRILE		
E	BRONZE & VITON		
F	CAST IRON & VITON		
G	DUCTILE IRON & VITON		
H	STEEL & VITON		

S STEEL & NITRILE

FLANGE CONNECTION			
CODE	CLASS / STANDARD	2GPD	
A	FLANGED PN6		
B	FLANGED PN10		
C	FLANGED PN16		
F	FLANGED ANSI 125lb		
J	FLANGED ANSI 150lb		
L	JIS 10k		
M	JIS 5k		

PNEUMATIC ACTUATOR OPTIONS				
CODE	ACTUATOR TYPE	THREAD	MANUAL OVERRIDE	2GPD
B	0.21-1.03 Bar (3-15psi)	BSP	NO	
C	0.21-1.03 Bar (3-15psi)	BSP	YES	
D	PNEUMATIC 4-20mA	BSP	YES	
E	PNEUMATIC 4-20mA	BSP	NO	
F	0.21-1.03 Bar (3-15psi)	NPT	NO	
G	0.21-1.03 Bar (3-15psi)	NPT	YES	
H	PNEUMATIC 4-20mA	NPT	YES	
J	PNEUMATIC 4-20mA	NPT	NO	

PNEUMATIC ACTUATION	
CODE	TYPE
0	STANDARD

VALVE OPERATION

CODE	FEATURE	2GPD
E	90° Rotor, Port 3 to Port 2, CCW, Direct Acting	
N	90° Rotor, Port 3 to Port 2, CCW, Reverse Acting	
F	90° Rotor, Port 2 to Port 1, CCW, Direct Acting	
P	90° Rotor, Port 2 to Port 1, CCW, Reverse Acting	
G	90° Rotor, Port 1 to Port 2, CW, Direct Acting	
R	90° Rotor, Port 1 to Port 2, CW, Reverse Acting	
H	90° Rotor, Port 2 to Port 3, CW, Direct Acting	
S	90° Rotor, Port 2 to Port 3, CW, Reverse Acting	
L	180° Rotor, Port 1 to Port 3, CCW, Direct Acting	
M	180° Rotor, Port 1 to Port 3, CCW, Reverse Acting 180° Rotor, Port 3 to Port 1, CW, Direct Acting	
J		
K	180° Rotor, Port 3 to Port 1, CW, Reverse Acting	

GEF VALVES - ELECTRIC ACTUATED 3-WAY VALVE

ALL materials manufactured to order

EXAMPLE PART NUMBER - 3GEFCB032

VALVE SIZE & MODEL	
CODE	NOMINAL BORE SIZE
2GEF	2" (DN50)
3GEF	3" (DN80)
4GEF	4" (DN100)
6GEF	6" (DN150)
8GEF	8" (DN200)
10GEF	10" (DN250)
12GEF	12" (DN300)

BODY			
CODE	MATERIAL	2GEF	3GEF
B	BRONZE		
C	CAST IRON		
D	DUCTILE IRON		
S	STEEL		

R STAINLESS STEEL

FLANGE CONNECTION				
CODE	CLASS / STANDARD	2GEF	3GEF	4GEF
A	FLANGED PN6			
B	FLANGED PN10			
C	FLANGED PN16			
F	FLANGED ANSI 125lb			
J	FLANGED ANSI 150lb			
L	JIS 10k			
M	JIS 5k			

ACTUATOR VOLTAGE				
CODE	VOLTAGE	2GEF	3GEF	4GEF
A	200/240V AC ELECTRIC			
B	110/120V AC ELECTRIC			

ELECTRONIC ACTUATOR OPTIONS				
CODE	ACTUATOR FEATURES	2GEF	3GEF	4GEF

	0	STANDARD			
	1	5KΩ POTENTIOMETER			
A		4-20mA ELECTRONIC POSITIONER WITH POSITION RETRANSMIT			
B		4-20mA ELECTRONIC POSITIONER WITH INPUT RETRANSMIT			
C		4-20mA ELECTRONIC POSITIONER WITH POSITION ERROR OUTPUT (4mA ref) (GEF)			
D		4-20mA ELECTRONIC POSITIONER WITH POSITION ERROR OUTPUT (12mA ref) (GEF)			
E		AS 'A' BUT REVERSE ACTING			
F		AS 'B' BUT REVERSE ACTING			
G		AS 'C' BUT REVERSE ACTING			
H		AS 'D' BUT REVERSE ACTING			
J		SWITCHED LIVE CONTROL WITH POSITION RETRANSMIT (4mA AT ACW)			
K		AS 'J' BUT REVERSE ACTING (4mA AT CW)			
VALVE OPERATION					
CODE	FEATURE	2GEF	3GEF	4GEF	
32	90° Rotor, Port 3 to Port 2, CCW				
21	90° Rotor, Port 2 to Port 1, CCW				
12	90° Rotor, Port 1 to Port 2, CW				
23	90° Rotor, Port 2 to Port 3, CW				
13	180° Rotor, Port 1 to Port 3, CCW				

31 180° Rotor, Port 3 to Port 1, CW

ELECTRIC PID VALVE CONTROLLERS & SRR'S

FOR COMPLETE VALVE CONTROL SYSTEM SELECT A PANEL OR WALL MOUNT CONTROLLER AND A 8060 TEMPERATURE SENSOR

PID CONTROLLER - 8071D000D					
CODE	DESCRIPTION				
8071D	PANEL	PANEL MOUNTED PID CONTROLLER INPUTS	No OF BOARDS*		
MO					
CODE 0		INPUT 1 = PT100, INPUT 2 = NOT FITTED	0		
1		INPUT 1 = PT100, INPUT 2 = 4-20mA	1		
2		INPUT 1 = 4-20mA, INPUT 2 = NOT FITTED	1		
3		INPUT 1 = 4-20mA, INPUT 2 = 4-20mA OUTPUTS	2		
CODE 0		OUTPUT 1 = SSR**, OUTPUT 2 = NOT FITTED	0		
1		OUTPUT 1 = 4-20mA, OUTPUT 2 = NOT FITTED	1		
2		OUTPUT 1 = 4-20mA, OUTPUT 2 = 4-20mA COMMS	2		
CODE 0		COMMS NOT FITTED	0		
1		COMMS FITTED ACTION	1		
CODE D		DIRECT ACTION	0		
R		REVERSE ACTION	0		
PID CONTROLLER - 8072D000D					
CODE	DESCRIPTION				
8072D	PANEL	WALL MOUNTED PID CONTROLLER INPUTS	No OF BOARDS*		
MO					
CODE 0		INPUT 1 = PT100, INPUT 2 = NOT FITTED	0		
2		INPUT 1 = 4-20mA, INPUT 2 = NOT FITTED OUTPUTS	1		
CODE 0		OUTPUT 1 = SSR**, OUTPUT 2 = NOT FITTED	0		
1		OUTPUT 1 = 4-20mA, OUTPUT 2 = NOT FITTED COMMS	1		
CODE 0		COMMS NOT FITTED ACTION	0		
CODE D		DIRECT ACTION	0		

R	REVERSE ACTION	0
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* THE TOTAL NUMBER OF DAUGHTER BOARDS PER CONTROLLER CANNOT EXCEED 3

** SOLID STATE RELAYS (SSR) FOR 8071D NEED TO BE PURCHASED SEPARATELY. 8072D HAS SSR FITTED AS STANDARD.

LOOSE SOLID STATE RELAYS (SSR, 2 off required per 8071D controller where output option 0 selected)	
CODE	DESCRIPTION
47581L001	SOLID STATE RELAY
TEMPERATURE SENSOR - 8060A12	
CODE	DESCRIPTION
8060A	TEMPERATURE SENSOR
CODE	CONDUIT CONNECTION
1	M20 x 1.5mm
2	PG 13.5
3	PG 16
4	1/2" NPT
CODE	CONDUIT CONNECTION
2	1/2" BSP(Tr)
3	1/2" NPT
I/P CONVERTOR	
CODE	DESCRIPTION
8064A7716	CONVERTS 4 - 20mA TO 3 - 15psi ** CANNOT BE SUPPLIED TO EU END-USER **
8064C00	CONVERTS 4 - 20mA TO 3 - 15psi
FILTER REGULATOR	
CODE	DESCRIPTION
46649X	FILTER REGULATOR
PNEUMATIC TEMPERATURE CONTROLLER SG80	
CODE	DESCRIPTION
SG801	PROPORTIONAL CONTROL ACTION
SG802	PROPORTIONAL + INTEGRAL CONTROL ACTION
CODE	TEMPERATURE RANGE
K	0 TO 70°C
L	0 TO 100°C
M	0 TO 150°C
N	0 TO 250°C
CODE	SENSING ELEMENT
0	2M CAPILLARY STANDARD
1	6M CAPILLARY
CODE	MOUNTING OPTION
W	WALL
P	PANEL
PNEUMATIC PRESSURE CONTROLLER SG80	
CODE	DESCRIPTION
SG801	PROPORTIONAL CONTROL ACTION
SG802	PROPORTIONAL + INTEGRAL CONTROL ACTION
CODE	PRESSURE RANGE
2	0 TO 2.5 BAR
3	0 TO 4 BAR
4	0 TO 6 BAR

5	0 TO 10 BAR
6	0 TO 16 BAR
7	0 TO 25 BAR
8	0 TO 40 BAR
CODE	SENSING ELEMENT AND CONNECTION
2	STANDARD
3	DIAPHRAGM SEAL
CODE	MOUNTING OPTION
W	WALL
P	PANEL

G VALVE PARTS & SPARES

GG VALVE BODY ONLY	
CODE	DESCRIPTION
02GGHD*S32-BMF	DUCTILE IRON VALVE WITH 90° ROTOR
03GGSD*S32-BMF	
03GGHD*S32-BMF	
04GGSD*S32-BMF	
04GGHD*S32-2-BMF	
05GGSD*S32-2-BMF	
06GGSD*S32-2-BMF	
06GGHD*S32-2-BMF	
08GGSD*S32-2-BMF	
08GGHD*S32-BMF	
04GGHR*S32-BMF	STAINLESS STEEL VALVE WITH 90° ROTOR
06GGSR*S32-BMF	
06GGHR*S32-BMF	
02GGHD*S31-BMF	DUCTILE IRON VALVE WITH 180° ROTOR
03GGSD*S31-BMF	
03GGHD*S31-BMF	
04GGSD*S31-BMF	
04GGHD*S31-2-BMF	
05GGSD*S31-2-BMF	
06GGSD*S31-2-BMF	
06GGHD*S31-2-BMF	
08GGSD*S31-2-BMF	
08GGHD*S31-BMF	

G VALVE BODY ONLY (GEF & GPD VALVES)

CODE	DESCRIPTION	CAST IRON	DUCTILE IRON
46191X2**-BMF	2G - 2" (50mm)		
46191X3**-BMF	3G - 3" (80mm)		

FOR 1ST * INSI FOR 2ND * INSERT:

2- ND10

3- ND16

LE IRON & VITON

6- ANSI 1251b

G VALVE BODY ONLY (GEF & GPD VALVES)

CODE	DESCRIPTION	CAST IRON	DUCTILE IRON
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46770X1**-BMF		4G - 4" (100mm)		
46770X2**-BMF		6G - 6" (150mm)		
46770X3**-BMF		8G - 8" (200mm)		
46770X4**-BMF		10G - 10" (250mm)		
46770X5**-BMF		12G - 12" (300mm)		

FOR 1ST * INSI FOR 2ND * INSERT:

- 2- ND10
- 3- ND16
- 6- ANSI 125lb

CODES D, E & F are not applicable to 46770X5**-BMF

GEF/GPD 3 WAY VALVE BODY (FROM 1998 ONWARDS) SERVICE KITS		
CODE	DESCRIPTION	
47961X102	2G - 2" (50mm BORE)	
47961X103	3G - 3" (80mm BORE)	
47961X104	4G - 4" (100mm BORE)	
47961X106	6G - 6" (150mm BORE)	
47961X108	8G - 8" (200mm BORE)	
47961X110	10G - 10" (250mm BORE)	
47961X112	12G - 12" (300mm BORE)	

GEC/GPC/GPD/GEF 3 WAY VALVE BODY SERVICE KITS			
CODE	DESCRIPTION		
41773X002	2G - 2" (50mm BORE)	NITRILE	
41773X003	3G - 3" (80mm BORE)		
41773X004	4G - 4" (100mm BORE)		
41773X006	6G - 6" (150mm BORE)		
41773X008	8G - 8" (200mm BORE)		
41773X010	10G - 10" (250mm BORE)		
41773X012	12G - 12" (300mm BORE)		
41773X102	2G - 2" (50mm BORE)	VITON	
41773X103	3G - 3" (80mm BORE)		
41773X104	4G - 4" (100mm BORE)		
41773X106	6G - 6" (150mm BORE)		
41773X108	8G - 8" (200mm BORE)		
41773X110	10G - 10" (250mm BORE)		
41773X112	12G - 12" (300mm BORE)		
GG PNEUMATIC 3 WAY VALVE MINOR 2 YEAR SERVICE KITS			
CODE	DESCRIPTION		
80318X022	02GGH		
80318X031	03GGS		
80318X032	03GGH		
80318X041	04GGS		
82380X004	04GGH, 05GGS & 06GGS		
82380X006	06GGH & 08GGS		
80318X082	08GGH		
GG ELECTRIC 3 WAY VALVE SERVICE KITS			
CODE	DESCRIPTION		
80243X022	02GGH, 115VAC, WITH EB ACTUATOR		

80243X024	02GGH, 230VAC, WITH EB ACTUATOR	
80243X028	02GGH, 230VAC, WITH EA ACTUATOR	
80243X031	03GGS, 115VAC, WITH EB ACTUATOR	
80243X032	03GGH, 115VAC, WITH EB ACTUATOR	
80243X033	03GGS, 230VAC, WITH EB ACTUATOR	
80243X034	03GGH, 230VAC, WITH EB ACTUATOR	
80243X041	04GGS, 115VAC, WITH EB ACTUATOR	
80243X043	04GGS, 230VAC, WITH EB ACTUATOR	
82379X041	04GGH, 05GGS, 06GGS, 115VAC WITH EB ACTUATOR	
82379X042	04GGH, 05GGS, 06GGS, 230VAC WITH EB ACTUATOR	
82379X043	04GGH, 05GGS, 06GGS, 115VAC WITH EA ACTUATOR	
82379X044	04GGH, 05GGS, 06GGS, 230VAC WITH EA ACTUATOR	
82379X061	06GGH, 08GGS, 115VAC WITH EB ACTUATOR	
82379X062	06GGH, 08GGS, 230VAC WITH EB ACTUATOR	
82379X063	06GGH, 08GGS, 115VAC WITH EA ACTUATOR	
82379X064	06GGH, 08GGS, 230VAC WITH EA ACTUATOR	
80243X082	08GGH, 115VAC WITH EB ACTUATOR	
80243X084	08GGH, 230VAC WITH EB ACTUATOR	
GG PNEUMATIC 4 YEAR SERVICE KIT WITH THE OLD E SERIES ACTUATOR PHASED OUT APPROX JULY 2015		
CODE	DESCRIPTION	
80319X022	02GGH	
80319X031	03GGS	
80319X032	03GGH	
80319X041	04GGS	
80319X042	04GGH	
80319X051	05GGS	
80319X061	06GGS	
80319X062	06GGH	
80319X081	08GGS	
80319X082	08GGH	
GG PNEUMATIC 4 YEAR SERVICE KIT WITH THE NEW F SERIES ACTUATOR INTRODUCED APPROX JULY 2015		
CODE	DESCRIPTION	
82171X022	02GGH	
82171X031	03GGS	
82171X032	03GGH	
82171X041	04GGS	
82382X004	04GGH, 05GGS, 06GGS	
82382X006	06GGH, 08GGS	
82171X082	08GGH	
CONVERSION / MOUNTING KITS FOR GED TO GEF - WITHOUT ACTUATOR		
CODE	DESCRIPTION	
48068X002	2G - 2" (50mm BORE)	
48068X003	3G - 3" (80mm BORE)	
48068X004	4G - 4" (100mm BORE)	
48068X006	6G - 6" (150mm BORE)	
48068X008	8G - 8" (200mm BORE)	
48068X010	10G - 10" (250mm BORE)	
48068X012	12G - 12" (300mm BORE)	

EB / EA ACTUATORS		
CODE	DESCRIPTION	
EB100BBCBA-AA	EB100, 230V, POS'R, 4-20MA OUT (ACW)	
EB100BBBBA-AA	EB100, 230V, POS'R, 4-20MA IN & OUT	
EB100BBADA-AA	EB100, 230V, POS'R, SW LIVE, 20-4MA OUT (ACW)	
EB100BBACA-AA	EB100, 230V, POS'R, SW LIVE, 4-20MA OUT (CW)	
EB100BAAAA-AA	EB100, 230V, SW LIVE CONTROL	
EB100ABCBA-AA	EB100, 115V, POS'R, 20-4MA OUT (ACW)	
EB100ABBBA-AA	EB100, 115V, POS'R 4-20MA IN & OUT	
EB100ABADA-AA	EB100, 115V, POS'R, SW LIVE, 20-4MA OUT (ACW)	
EB100ABACA-AA	EB100, 115V, POS'R, SW LIVE, 4-20MA OUT (CW)	
EB100AAAA-AA	EB100, 115V, SW LIVE CONTROL	
CODE	DESCRIPTION	
EA10017S1100-BMF	COMPACT 110V SPARE - ELECTRIC ACT. ASSEMBLY SPARE	
EA10017S110A-AA	ELECTRIC ACTUATOR EA100VAC, SPEC	
EA10017S110E-AA	ELECTRIC ACTUATOR EA100VAC, SPEC	
EA10017S110J-AA	ELECTRIC ACTUATOR EA100VAC	
EA10017S2200-BMF	COMPACT 220V SPARE - ELECTRIC ACT. ASSEMBLY SPARE	
EA10017S220A-AA	ELECTRIC ACTUATOR	
EA10017S220E-AA	ELECTRIC ACTUATOR	
EA10017S220J-AA	ELECTRIC ACTUATOR	
EA20022S110A-AA	COMPACT 110V SPARE - ELECTRIC ACT. ASSEMBLY SPARE	
EA20022S110E-AA	110V SPARE ACTUATOR - REVERSE ACTING	
EA20022S2200-BMF	COMPACT 220V SPARE - ELECTRIC ACT. ASSEMBLY SPARE	
EA20022S220A-AA	220V SPARE ACTUATOR	
EA20022S220E-AA	220V SPARE ACTUATOR - REVERSE ACTING	
RECOMMENDED SPARES FOR GEF ACTUATORS (EA ACTUATOR)		
CODE	DESCRIPTION	
47881X-DSX	POSITIONER FOR CLOCKWISE ROTATION ON INCREASING MA SIGNAL	
47881X-DSY	POSITIONER FOR ANTICLOCKWISE ROTATION ON INCREASING MA SIGNAL	
82434X001	EA100 ACTUATOR COVER O RING	
82434X002	EA200 ACTUATOR COVER O RING	
82434X003	1K POTENTIOMETER	
82434X004	5K POTENTIOMETER	
82434X006	110V HEATER	
82434X007	220V HEATER	
82434X009	220V CAPACITOR	
82434X011	110V CAPACITOR	
82434X014	POSITION LIMIT SWITCH PAIR	
82434X015	EA100 HANDWHEEL KIT	
82434X016	EA200 HANDWHEEL KIT	
47981L017	TERMINAL BLOCK (1 TO 11)	
47981L018	TERMINAL BLOCK (12 TO 22)	
RECOMMENDED SPARES FOR GG ACTUATORS (EB ACTUATOR)		
CODE	DESCRIPTION	
49682X	POSITIONER	
49261X001	POWER MODULE	

81567X	BELT REPLACEMENT KIT	
82434X001	EB100 ACTUATOR COVER O RING	
82434X002	EB200 ACTUATOR COVER O RING	
82434X005	HALL SENSOR	
82434X006	110V HEATER	
82434X007	220V HEATER	
82434X008	220V CAPACITOR	
82434X010	110V CAPACITOR	
82434X012	POSITION LIMIT SWITCH SET	
82434X013	TORQUE LIMIT SWITCH SET	
82434X015	EB100 HANDWHEEL KIT	
82434X016	EB200 HANDWHEEL KIT	

PNEUMATIC ACTUATOR SERVICE KITS FOR P SERIES ACTUATORS ONLY

CODE	DESCRIPTION	
46363X001	2G - 2" (50mm BORE)	
46363X001	3G - 3" (80mm BORE)	
46363X001	4G - 4" (100mm BORE)	
46363X002	6G - 6" (150mm BORE)	
46363X002	8G - 8" (200mm BORE)	
46363X002	10G - 10" (250mm BORE)	
46363X003	12G - 12" (300mm BORE)	

PNEUMATIC ACTUATOR SERVICE KITS FOR F SERIES ACTUATORS ONLY

CODE	DESCRIPTION	
82138X001	2G - 2" (50mm BORE)	
82138X001	3G - 3" (80mm BORE)	
82138X001	4G - 4" (100mm BORE)	
82138X002	6G - 6" (150mm BORE)	
82138X002	8G - 8" (200mm BORE)	
82138X002	10G - 10" (250mm BORE)	
82138X003	12G - 12" (300mm BORE)	

PNEUMATIC ACTUATOR SERVICE KITS FOR E SERIES ACTUATORS ONLY

CODE	DESCRIPTION	
48713X001	2G - 2" (50mm BORE)	
48713X001	3G - 3" (80mm BORE)	
48713X001	4G - 4" (100mm BORE)	
48713X002	6G - 6" (150mm BORE)	
48713X002	8G - 8" (200mm BORE)	
48713X002	10G - 10" (250mm BORE)	
48713X003	12G - 12" (300mm BORE)	

REPLACEMENT PNEUMATIC ACTUATORS - 82046X110

CODE	DESCRIPTION	
82046X	PNEUMATIC ACTUATOR	
CODE	VALVE TYPE	
1	2, 3 & 4 G	
2	6, 8 & 10 G	

3	12, 14 & 16 G	
CODE		
1	CLOCKWISE WITH INCREASING SIGNAL PRESSURE	
2	ANTI-CLOCKWISE WITH INCREASING SIGNAL PRESSURE	
CODE		
0	STANDARD - WITHOUR MANUAL OVERRIDE	
1	GEARED MANUAL OVERRIDE	
2	4-20mA INPUT SIGNAL, MANUAL OVERRIDE & F20 POSITIONER	
3	4-20mA INPUT SIGNAL & F20 POSITIONER	

POSITIONER FOR PNEUMATIC ACTUATOR

CODE	DESCRIPTION	
47224X	PNEUMATIC POSITIONER	
47027X001	PNEUMATIC POSITIONER WITH 4-20mA INPUT SIGNAL	

FLANGE SETS FOR FLAT FACE FLANGES - 8012B11502-AA

CODE	VALVE SIZE	
8012B1040	1 1/2"	
8012B1050	2"	
8012B1065	2 1/2"	
8012B1080	3"	
8012B1100	4"	
8012B1125	5"	
8012B1150	6"	
8012B1200	8"	
CODE	FLANGE CONNECTION	
1	PN6	
2	PN10	
3	PN16	
6	ANSI CLASS 125	

4140 PRESSURE & TEMPERATUE SWITCHES - EXAMPLE: 4140CK1H11AA0-EE

CODE	BASIC MODEL	
4140A	COMBINED PRESSURE & TEMPERATURE	
4140C	SINGLE STEP PRESSURE	
4140D	SINGLE STEP TEMPERATURE	
4140E	DUAL STEP TEMPERATURE	
4140F	DUAL STEP PRESSURE	
CODE	MICROSWITCH	
H	DOUBLE BREAK	
K	LOW RESET DIFFERENTIAL (4G AT 100Hz)	
R	HIGH VIBRATION/SHOCK RESISTANT (14G AT 100Hz)	
S	AS 'R' BUT GOLD PLATE CONTACTS	
Y	LOW RESET DIFFERENTIAL BUT WITH GOLD PLATE CONTACTS	
CODE	FINISH	
1	STANDARD	
3	CORROSION PROTECTED	
CODE	CONDUIT THREAD	<i>FOR USE WITH;</i>

A NO BONNET FITTED			
B	3/4BSC	STANDARD FINISH (CODE 1)	
C	1/2 NPT		
D	PG 11		
E	PG 13.5		
F	PG 16		
G	M18 X 1.5		
H	M20 X 1.5		
J	M24 X 1.5		
V	PG 9		
M	1/2 NPT		
N	PG 11		
P	PG 13.5		
Q	PG16		
R	M18 X 1.5		
S	M20 X 1.5		
T	M24 X 1.5		
W	PG 9		
CODE	PRESSURE CONNECTION	FOR USE WITH;	
0	TEMPERATURE SWITCH	STANDARD/CORROSION FINISH	
1	1/8" BSPT _r	STANDARD FINISH (CODE 1)	
2	1/8" NPT		
3	1/8" BSPP _I		
4	1/8" BSPT _r	CORROSION PROTECTED (CODE 3)	
5	1/8" NPT		
6	1/8" BSPP _I		
CODE	PRESSURE RANGE	MICROSWITCH TYPE	
		K, Y	H,R,S
0	TEMPERATURE SWITCH		
1		0.28-3.72 Bar (4-54psi)	0.34-4.27 Bar (5-62psi)
2		3.45-8.34 Bar (50-121psi)	2.76-9.37 Bar (40-136psi)
3		6.89-23.44 Bar (100-340psi)	6.2-24.13 Bar (90-350psi)
4		8.96-40.00 Bar (130-560psi)	8.96-40.00 Bar (130-580psi)
9		0.10-1.65 Bar (1-24psi)	0.17-1.86 Bar (2.5-27psi)
CODE	TEMPERATURE STEM LENGTH		
A	PRESSURE SWITCH		
B	70mm		
C	80mm		
D	130mm		
E	40mm		
F	100mm		
CODE	TEMPERATURE STEM ADAPTOR	STEM LENGTH	
		40mm	70mm
A	NO ADAPTOR FITTED / PRESSURE SWITCH		
B	1/2" BSPP _I SLIP COUPLING		
C	1/2" NPT SLIP COUPLING		
D	M18 SLIP COUPLING		
E	1/2" BSPP _I THERMOWELL - AL BRONZE		

F	1/2" BSPPI THERMOWELL - NICKEL PLATED		
G	3/4" BSPPI THERMOWELL - AL BRONZE		
H	3/4" BSPPI THERMOWELL - ST. STEEL		
K	1/2" BSPPI THERMOWELL, RANGE 6 - AL BRONZE		
L	1/2" NPT THERMOWELL, RANGE 6 - AL BRONZE		
M	1/2" NPT THERMOWELL - AL BRONZE		
N	1/2" NPT THERMOWELL - NICKEL PLATED		
CODE	TEMPERATURE RANGE - ** PLEASE SPECIFY TRIP POINT TO INCLUDE RISING or FALLING, °C or F, BAR or PSI **		
0	PRESSURE SWITCH		
1	16°C - 54°C		
2	49°C - 71°C		
3	66°C - 87°C		
4	83°C - 104°C		
5	99°C - 123°C		
6	120°C - 250°C		

4140 SERVICE KITS - 44047L410, 44048L701		
CODE	BASIC MODEL	
44046L	COMBINED PRESSURE & TEMPERATURE	
44047L	SINGLE STEP PRESSURE	
44048L	SINGLE STEP TEMPERATURE	
44049L	DUAL STEP TEMPERATURE	
44050L	DUAL STEP PRESSURE	
CODE	MICROSWITCH	
2	H (DOUBLE BREAK)	
4	K (LOW RESET DIFFERENTIAL (4G AT 100Hz))	
7	R (HIGH VIBRATION/SHOCK RESISTANT (14G AT 100Hz))	
8	S (AS 'R' BUT GOLD PLATE CONTACTS)	
9	Y (LOW RESET DIFFERENTIAL BUT WITH GOLD PLATE CONTACTS)	
CODE	PRESSURE	
0	DENOTES TEMPERATURE SWITCH	
1	RANGE 1 STANDARD FINISH	
2	RANGE 2 STANDARD FINISH	
3	RANGE 3 STANDARD FINISH	
4	RANGE 4 STANDARD FINISH	
5	RANGE 1 CORROSION PROTECTED FINISH	
6	RANGE 2 CORROSION PROTECTED FINISH	
7	RANGE 3 CORROSION PROTECTED FINISH	
8	RANGE 4 CORROSION PROTECTED FINISH	
9	RANGE 9 STANDARD OR CORROSION PROTECTED FINISH	
CODE	TEMPERATURE - THERMOWELL THREAD	
0	PRESSURE SWITCH OR THERMOWELL NOT FITTED	
1	1/2"	
2	3/4"	
3	RANGE 6 ONLY	
4	M20 X 1.5	

2230 TEMPERATURE SENSING VALVE - EXAMPLE: 2230C220E098CN			
CODE	BASIC MODEL		
2230C	TEMPERATURE VALVE		
CODE	THREAD		
1	1/2" NPT		
2	1/2" BSP(Tr)		
CODE	SEAL MATERIAL		
2	VITON		
CODE	STEM EXTENSION LENGTH		
0	1 3/8" 34.9mm		
1	2 3/16" 55.6mm		
2	2 1/2" 63.5mm		
3	3" 76.2mm		
4	3 1/2" 88.9mm		
5	4" 101.6mm		
6	4 1/2" 114.3mm		
7	5" 127.0mm		
CODE	RANGE without thermowell		RANGE with thermowell
A	19-35°C	65-95°F	24-40°C
B	36-54°C	96-130°F	41-60°C
C	55-71°C	131-160°F	61-76°C
D	72-82°C	161-180°F	77-88°C
E	83-100°C	181-212°F	89-104°C
F	101-107°C	214-225°F	108-113°C
G	108-118°C	226-245°F	114-124°C
H	129°C	265°F	132°C
J	119-124°C	246-255°F	124-129°C
CODE	SETTING		

CODE	UNIT FOR SETTING		
C	°C		
F	°F		
CODE	THERMAL WELL		
N	NOT FITTED		
V	CALIBRATED IN A WELL (WELL NOT SUPPLIED)		
1	3/4" - WELL FITTED		
2	1" NPT - WELL FITTED		
3	3/4" BSP(PI) - WELL FITTED		
4155 TEMPERATURE SENSING VALVE - EXAMPLE: 4155A220			D
CODE	BASIC MODEL		
4155A	TEMPERATURE VALVE		
CODE	THREAD		
1	3/8" NPT		
2	3/8" BSP(Tr)		
CODE	SEAL MATERIAL		

2	VITON	
CODE	STEM EXTENSION LENGTH	
0	1.030" INSTALLED DEPTH 26mm	
1	1.621" INSTALLED DEPTH 41mm	
CODE	TEMPERATURE RANGE WITHOUT THERMOWELL	TEMPERATURE RANGE
A	16-50°C	61-122°F
B	50.6-65°C	123-149°F
C	65.6-82.2°C	150-180°F
D	82.8-100°C	181-212°F
E	100.6-120°C	213-248°F
4075 HIGH TEMPERATURE VALVE		
CODE	BASIC MODEL	
4075D	HIGH TEMPERATURE VALVE	
CODE	PORT THREAD & FINISH	
1	1/4" NPT BLACK ANODISED	
CODE	THERMAL WELL DETAILS INSTALLATION THREAD	INSTALLED DEPTH
		MM
1	3/4" NPT	95
5	3/4" NPT	95
6	3/4" NPT	146
7	1" NPT	95
8	1" NPT	146
11	3/4" BSP(PI)	87
12	3/4" BSP(PI)	138

4087 HIGH TEMPERATURE VALVE	
CODE	
4087B020	300-1000°F 149-538°C MANUAL RESET
4087B021	300-1000°F 149-538°C PNEUMATIC RESET
4087B060	1001-1400°F 539-780°C MANUAL RESET
4087B061	1001-1400°F 539-780°C PNEUMATIC RESET
4250 SERIES HAZARDOUS DUTY TEMPERATURE SWITCHES - EXAMPLE: 4253M01R4AA00	
CODE	BASIC MODEL
4251M COMBINED PRESSURE & TEMPERATURE (RANGES 1-3 ONLY)	
4252M	SINGLE PRESSURE
4253M	SINGLE TEMPERATURE
4254M	DUAL TEMPERATURE
4255M	DUAL PRESSURE
CODE	PRESSURE RANGE
0	TEMPERATURE SWITCH
1	0.34-1.72 Bar (5-25 psi)
2	1.03-5.17 Bar (15-75 psi)
3	3.10-8.62 Bar (45-125 psi)
4	5.52-17.24 Bar (80-250 psi)
CODE	SEAL MATERIAL
1	BUNA - NITRILE

2	VITON		
CODE	MICROSWITCH TYPE		
F	SPLIT CONTACT TEMP 1-6 ONLY		
L	HIGH DC CURRENT TEMP 1-6 ONLY		
P	AS 'R' HIGH TEMP TEMP 1-7 ONLY		
Q	DOUBLE BREAK, LOW DIFFERENTIAL TEMP 1-7 ONLY		
R	STANDARD TEMP 1-6 ONLY		
CODE	TEMPERATURE RANGE WITHOUT THERMOWELL	TEMPERATURE RANGE	
0	PRESSURE SWITCH		
1	15-35°C	60-95°F	21-40°C
2	36-54°C	96-130°F	41-60°C
3	55-71°C	131-160°F	60-76°C
4	72-82°C	161-180°F	77-88°C
5	83-99°C	181-210°F	88-104°C
6	101-107°C	215-225°F	107-113°C
7	108-118°C	226-245°F	113-124°C
CODE	THREAD & FINISH		
A	NPT, STANDARD		
B	NPT, BLACK EPOXY		
C	BSP, STANDARD (BSP HAS PARALLEL THREAD ON PRESSURE BONNET, TAPER ON TEMP EXT)		
D	BSP, BLACK EPOXY (BSP HAS PARALLEL THREAD ON PRESSURE BONNET, TAPER ON		
CODE	CONDUIT THREAD		
A	NPT		
B	M20		
C	PG 13.5		
D	PG 16		
CODE	TEMPERATURE ELEMENT EXTENSION - installed depth		
0	55.56mm 2 3/16		
1	77.78mm 3 1/16		
2	84.14mm 3 5/16		
3	96.84mm 3 13/16		
4	109.54mm 4 5/16		
5	122.25mm 4 13/16		
6	134.94mm 5 5/16		
7	147.64mm 5 13/16		
8	239.70mm 9 7/16		
99	PRESSURE SWITCH		
CODE	CALIBRATION OPTION		
V	CALIBRATED FOR USE WITH A THERMOWELL		
N	PRESSURE VERSION OR NOT WITH A THERMOWELL		

1672 MEDIUM PRESSURE VALVE - 1672E1F1			
CODE	BASIC MODEL		
1672E	MEDIUM PRESSURE VALVE		
CODE	RANGE	SENSED PRESSURE RANGES	
		RISING	
		bar	psi
		FALLING	
		bar	

1F1	RANGE 1	0.56-2.27	aug.33	0.35-2.06
1F4	RANGE 1	0.56-2.27	aug.33	0.35-2.06
1H7	R1 WITH PNEU LOCKOUT	0.56-2.27	aug.33	0.35-2.06
1H8	R1 WITH PNEU LOCKOUT	0.56-2.27	aug.33	0.35-2.06
1M1	RANGE 1	0.56-2.27	aug.33	0.35-2.06
1M4	RANGE 1	0.56-2.27	aug.33	0.35-2.06
2C3	RANGE 6	14.48-96.52	210-1400	12.07-86.18
2,00E+03	RANGE 4	2.42-17.23	35-250	1.04-15.85
2F1	RANGE 2	1.73-11.03	25-160	1.38-10.34
2F4	RANGE 2	1.73-11.03	25-160	1.38-10.34
2M1	RANGE 2	1.73-11.03	25-160	1.38-10.34
2M4	RANGE 2	1.73-11.03	25-160	1.38-10.34
3C3	RANGE 7 24.14-248.21		350-3600	17.24-227.52
3,00E+03	RANGE 5	6.21-44.18	90-650	3.45-38.61
3F1	RANGE 3	4.14-21.71	60-315	345-20.68
3F4	RANGE 3	4.14-21.71	60-315	345-20.68
3M1	RANGE 3	4.14-21.71	60-315	345-20.68
3M4	RANGE 3	4.14-21.71	60-315	345-20.68

4023 HIGH PRESSURE VALVE - 4023E240A

CODE	BASIC MODEL			
4023E	HIGH PRESSURE VALVE			
CODE	PRESSURE RANGE - RISING			PRESSURE RANGE - FALLING
	bar psi			bar psi
1	1.4-3.8	20-55	1.2-3.4	
2	2.1-8.6	30-125	1.7-7.9	
3	9.0-27.61	130-400	6.9-25.5	
4	17.2-55.2	250-800	18.8-48.3	
5	27.6-75.8	400-1100	19-62	
6	44.8-155.10	650-2250	34.5-138	
7	69-241	1000-3500	51.7-207	
8	100-524	1450-7600	69-483	
CODE	THREAD & FINISH			
4	1/4" NPT, BLACK ANODISED			
CODE	RESET TYPE			
0	AUTOMATIC RESET			
1	MANUAL RESET			
3	PNEUMATIC (SPECIAL ORDER)			
CODE	SEAL & DIAPHRAGM MATERIAL			
A	VITON SEAL, NITRILE DIAPHRAGM RANGES 1 & 2 ONLY			
C	VITON SEAL, VITON DIAPHRAGM RANGES 1 & 2 ONLY			
D	VITON SEAL, NO DIAPHRAGM FITTED RANGES 3 TO 8 ONLY			

4047 LOW PRESSURE VALVE - 4047B210A

CODE	BASIC MODEL			
4047B	LOW PRESSURE VALVE			
CODE	PRESSURE RANGE - RISING			PRESSURE RANGE -
	bar psi			bar psi

1	0.03-0.09	0.4-1.3	0.007-0.07
2	0.05-0.48	0.8-7.0	0.03-0.43
3	0.17-0.77	2.5-11.2	0.14-0.69
4	0.41-1.38	5.0-20.0	0.31-1.28
CODE	THREAD		
2	NPT, GULFPROOFED		
CODE	RESET TYPE		
0	AUTOMATIC RESET		
1	MANUAL RESET AFTER TRIP ON FALLING PRESSURE		
2	MANUAL RESET AFTER TRIP ON RISING PRESSURE		
CODE	SEAL & DIAPHRAGM MATERIAL		
A	VITON, NITRILE		
B	VITON, VITON		
4064 DIFFERENTIAL PRESSURE VALVE - 4064B32A			
CODE	BASIC MODEL		
4064B	DIFFERENTIAL PRESSURE VALVE		
CODE	PRESSURE RANGE - FALLING		PRESSURE RANGE -
	bar psi		bar psi
1	0.3-2.4	mai.35	0.3-2.4
2	1.7-8.6	25-125	1.7-8.6
3	6.2-19.6	90-285	6.2-19.6
4	1.3-14.8	20-215	3.4-71.2
5	03.04.1940	50-580	6.9-44.8
6	10.03.1969	150-1000	20.7-82.8
7	20.7-227	300-3300	34.5-241
CODE	THREAD & FINISH		
2	NPT BLACK ANODISED AVAILABLE ON ALL PRESSURE RANGES		
4	BSP(PI) BLACK ANODISED PRESSURE RANGES 1, 2 & 3 ONLY		
CODE	SEAL & DIAPHRAGM MATERIAL		
A	VITON SEAL, NITRILE DIAPHRAGM PRESSURE RANGES 1 TO 3 ONLY		
D	VITON SEAL, VITON DIAPHRAGM PRESSURE RANGES 1 TO 3 ONLY		
E	VITON SEAL, NO DIAPHRAGM FITTED PRESSURE RANGES 4 & 5 ONLY		
F	VITON SEAL, NO DIAPHRAGM FITTED PRESSURE RANGES 6 & 7 ONLY		
4143 DIFFERENTIAL PRESSURE VALVE - 4143A001			
CODE	BASIC MODEL		
4143A001	DIFFERENTIAL PRESSURE VALVE		

6	
8256M DIFFERENTIAL PRESSURE SWITCH - 825 M11AK	
CODE	BASIC MODEL
8256M	DIFFERENTIAL PRESSURE SWITCH
CODE	PROCESS CONNECTION
1	1/4" NPT
2	1/4" BSP(PI)
CODE	PRESSURE RANGE (mBAR)

CODE	RANGE	DIFFERENTIAL	
1	34-248	0.2-0.4	
2	138-689	0.4-0.5	
CODE	CONDUIT THREAD		
A	1/2" NPT		
B	M20 X 1.5mm		
C	PG 13.5		
CODE	MICROSWITCH TYPE		
K	VIBRATION RESISTANT 4G/100Hz		

4102 TEMPERATURE DETECTORS FOR MOVING BEARINGS			
** WITHOUT FUSE ROD ** - 4102J11			
CODE	BASIC MODEL		
4102	TEMPERATURE VALVE		
CODE	MOUNTING THREAD		
D	1/2-20NF 1/4" NPT		
E	5/8-11NC 1/4" NPT		
J	M14 X 2 1/4" BSP(Tr)		
CODE	INSTALLED DEPTH (MIN/MAX MM)	INSTALLED DEPTH (MIN/MAX INCH)	
4	50.8 - 63.5	2.0 - 2.5	
5	63.5 - 76.2	2.5 - 3.0	
6	76.2 - 88.9	3.0 - 3.5	
7	88.9 - 101.6	3.5 - 4.0	
8	101.6 - 114.3	4.0 - 4.5	
9	114.3 - 127.0	4.5 - 5.0	
10	127.0 - 140.0	5.0 - 5.5	
11	140.0 - 152.4	5.5 - 6.0	
12	152.4 - 165.0	6.0 - 6.5	
13	165.0 - 178.0	6.5 - 7.0	
14	178.0 - 191.0	7.0 - 7.5	
15	191.0 - 203.0	7.5 - 8.0	
16	203.0 - 216.0	8.0 - 8.5	
17	216.0 - 229.0	8.5 - 9.0	
18	229.0 - 241.0	9.0 - 9.5	
19	241.0 - 254.0	9.5 - 10.0	
20	254.0 - 267.0	10.0 - 10.5	

**** CONTINUE WITH SELECTION PROCESS TO ADD FUSE ROD ** - 4102J1113197**

CODE	FUSE ROD LENGTH (MM)	FUSE ROD LENGTH (INCH)	
4	86	mar.38	
5	98	mar.88	
6	111	apr.38	
7	124	apr.88	
8	136	mai.38	
9	149	mai.88	
10	162	jun.38	
11	175	jun.88	

12	187	jul.38	
13	200	jul.88	
14	213	aug.38	
15	225	aug.88	
16	238	sep.38	
17	251	sep.88	
18	264	okt.38	
19	276	okt.88	
20	289	nov.38	
CODE	TRIP TEMPERATURE - °C	TRIP TEMPERATURE - °F	
174	79	174	
197	92	197	
217	103	217	
228	108	228	
253	123	253	
291	144	291	
324	162	324	
343	173	343	

6702 FUSE ROD - 6702X07T197			
CODE			
6702X	FUSE ROD		
CODE	FUSE ROD LENGTH (MM)	FUSE ROD LENGTH (INCH)	
4	86	mar.38	
5	98	mar.88	
6	111	apr.38	
7	124	apr.88	
8	136	mai.38	
9	149	mai.88	
10	162	jun.38	
11	175	jun.88	
12	187	jul.38	
13	200	jul.88	
14	213	aug.38	
15	225	aug.88	
16	238	sep.38	
17	251	sep.88	
18	264	okt.38	
19	276	okt.88	
20	289	nov.38	
CODE	TYPE		
T	TEMPERATURE		
CODE	TRIP TEMPERATURE - °C	TRIP TEMPERATURE - °F	
174	79	174	
197	92	197	

217	103	217	
228	108	228	
253	123	253	
291	144	291	
324	162	324	
343	173	343	

4103 TEMPERATURE DETECTORS FOR STATIC BEARINGS			
CODE	MOUNTING THREAD		
4103DA	M14 X 2 NPT		
4103DD	1/2" 20NF NPT		
4103DK	M14 X 2 BSP(Tr)		
CODE	INSTALLED DEPTH (MIN/MAX MM)	INSTALLED DEPTH (MIN/MAX INCH)	
3	26 - 38.3	1 1/6 - 1 9/16	
4	47.8 - 57.1	1.88 - 2.25	
5	60.3 - 69.8	2.38 - 2.75	
6	70.0 - 82.5	2.88 - 3.25	
7	85.7 - 95.2	3.38 - 3.75	
8	98.4 - 107.9	3.88 - 4.25	
9	111.1 - 120.6	4.38 - 4.75	
10	123.8 - 133.3	4.88 - 5.25	
11	136.5 - 146	5.38 - 5.75	
12	149.2 - 158.7	5.88 - 6.25	
13	161.9 - 171.4	6.38 - 6.75	
14	174.6 - 184.1	6.88 - 7.25	
15	187.3 - 196.8	7.38 - 7.75	
16	200 - 209.5	7.88 - 8.25	
17	212.7 - 222.2	8.38 - 8.75	
19	238.1 - 247.6	9.38 - 9.75	
20	250.8 - 260.3	9.88 - 10.25	
CODE	VALVE BALL		
A	VITON		
B	STAINLESS STEEL		
CODE	TRIP TEMPERATURE - °C	TRIP TEMPERATURE - °F	
174	79	174	
197	92	197	
217	103	217	
228	108	228	
253	123	253	
291	144	291	
324	162	324	
343	173	343	
6710 FUSE ROD - 6710X07T197			

CODE			
6710X	FUZE ROD		
CODE	FUZE ROD LENGTH (MM)	FUZE ROD LENGTH (INCH)	
3	26 - 38.3	1 1/6 - 1 9/16	
4	47.8 - 57.1	1.88 - 2.25	
5	60.3 - 69.8	2.38 - 2.75	
6	70.0 - 82.5	2.88 - 3.25	
7	85.7 - 95.2	3.38 - 3.75	
8	98.4 - 107.9	3.88 - 4.25	
9	111.1 - 120.6	4.38 - 4.75	
10	123.8 - 133.3	4.88 - 5.25	
11	136.5 - 146.0	5.38 - 5.75	
12	149.2 - 158.7	5.88 - 6.25	
13	161.9 - 171.4	6.38 - 6.75	
14	174.6 - 184.1	6.88 - 7.25	
15	187.3 - 196.8	7.38 - 7.75	
16	200.0 - 209.5	7.88 - 8.25	
17	212.7 - 222.2	8.38 - 8.75	
18	225.4 - 234.9	8.88 - 9.25	
19	238.1 - 247.6	9.38 - 9.75	
20	250.8 - 260.3	9.88 - 10.25	
CODE	TYPE		
T	TEMPERATURE		
CODE	TRIP TEMPERATURE - °C	TRIP TEMPERATURE - °F	
174	79	174	
197	92	197	
217	103	217	
228	108	228	
253	123	253	
291	144	291	
324	162	324	
343	173	343	
4095 VENT VALVE - 4095B11			
CODE	BASIC MODEL		
4095B11	VENT VALVE		

4418 FUEL SHUTOFF VALVE - 4418F2A4X002			
CODE	BASIC MODEL		
4418F	FUEL SHUTOFF VALVE		
CODE	TYPE, SIZE & APPROVAL		
1	1" 2 WAY NORMALLY CLOSED		NON PED VERSION
2	1 1/2" 2 WAY NORMALLY CLOSED		
3	2" 2 WAY NORMALLY CLOSED		
4	1" 2 WAY NORMALLY CLOSED VENTED		

5	1 1/2" 2 WAY NORMALLY CLOSED VENTED		PED CLASS IV ATEX II 2 G X
6	2" 2 WAY <u>NORMALLY CLOSED VENTED</u>		
A	1" 2 WAY NORMALLY CLOSED		
B	1 1/2" 2 WAY NORMALLY CLOSED		
C	2" 2 WAY NORMALLY CLOSED		
D	1" 2 WAY NORMALLY CLOSED VENTED		
E	1 1/2" 2 WAY NORMALLY CLOSED VENTED		
F	2" 2 WAY NORMALLY CLOSED VENTED		
CODE	CONNECTIONS		
	IN & OUT PORTS	PILOT 'A' & VENT PORTS	
A	NPT	NPT	
B	BSP(PI)	BSP(PI)	
C	DIN ND40 FLANGE	BSP(PI) 1 1/2" & 2" only	
E	300lb RF FLANGE	NPT 1 1/2" & 2" only	
J	150lb RF FLANGE	NPT 1 1/2" & 2" only	
CODE	INTERNAL SPOOL MATERIAL		
4	VITON SEAL STAINLESS STEEL 2 WAY		
8	VITON SEAL STAINLESS STEEL 2 WAY VENTED		
CODE	PILOT PRESSURE		
X	2 WAY	2-10 BAR(30-150 psi)	
	2 WAY WITH VENTED PORT		
CODE	POSITION INDICATOR OPTIONS		
0	NONE		
E	OPEN	CSA CLASS 1, DIV 1, GROUPS C & D	
F	CLOSED		
G	OPEN & CLOSED		
H	OPEN	UL CLASS 1, GROUPS C & D	
J	CLOSED		
K	OPEN & CLOSED		
P	OPEN	PED CATEGORY IV, ATEX II 2GX	
Q	CLOSED		
R	OPEN & CLOSED		
CODE	PILOT OPTIONS		
0	NONE		
2	3 WAY QE SOLENOID, SS, UL/CSA 24V DC SELF PILOTING		
3	3 WAY QE SOLENOID, SS, UL/CSA 120V DC SELF PILOTING		
4	3 WAY QE SOLENOID, SS, UL/CSA 24V DC		
5	3 WAY QE SOLENOID, SS, UL/CSA 120V DC		
6	3 WAY QE SOLENOID, SS, ATEX 24V DC SELF PILOTING		
7	3 WAY QE SOLENOID, SS, ATEX 115V DC SELF PILOTING		
8	3 WAY QE SOLENOID, SS, ATEX 24V DC		
9	3 WAY QE SOLENOID, SS, ATEX 115V DC		
10	4 WAY QE SOLENOID, SS, UL/CSA 24V DC SELF PILOTING		
11	4 WAY QE SOLENOID, SS, UL/CSA 120V DC SELF PILOTING		
12	4 WAY QE SOLENOID, SS, UL/CSA 24V DC		

4418F SEAL KIT 81050X		
CODE	BASIC MODEL	
81050X001	2-WAY VENTED, NC WITH CLOSED SWITCH	
81050X003	2-WAY VENTED, NC WITH OPEN SWITCH	
81050X005	2-WAY, NC WITH OPEN OR CLOSED SWITCH	
81050X007	2-WAY, NO WITH OPEN OR CLOSED SWITCH	

4418F REPLACEMENT SPOOL AND SEAL KIT NON PED VERSION		
CODE	BASIC MODEL	
81051X003	2-WAY VENTED, NC WITH CLOSED SWITCH	
81051X007	2-WAY VENTED, NC WITH OPEN SWITCH	
81051X011	2-WAY, NC WITH OPEN OR CLOSED SWITCH	
81051X013	2-WAY, NO WITH OPEN OR CLOSED SWITCH	

4418F REPLACEMENT SPOOL AND SEAL KIT APPROVED TO PED/ATEX		
CODE	BASIC MODEL	
81051X003-BWZ	2-WAY VENTED, NC WITH CLOSED SWITCH	
81051X007-BWZ	2-WAY VENTED, NC WITH OPEN SWITCH	
81051X011-BWZ	2-WAY, NC WITH OPEN OR CLOSED SWITCH	
81051X013-BWZ	2-WAY, NO WITH OPEN OR CLOSED SWITCH	

4420 FUEL SHUTOFF VALVE - 4420EAH4E04		
CODE	BASIC MODEL	
4420E	FUEL SHUTOFF VALVE	
CODE	TYPE, SIZE & APPROVAL	
A	2" 2 WAY	PED
B	2" 2 WAY VENTED	
C	3" 2 WAY	
D	3" 2 WAY VENTED	
CODE	CONNECTIONS	
	IN & OUT PORTS	PILOT 'A' & VENT PORTS
H	ANSI Class 300 RF FLANGED	NPT
K	ANSI Class 600 RF FLANGED	NPT
CODE	INTERNAL SPOOL MATERIAL	
4	VITON SEAL STAINLESS STEEL/PTFE	
CODE	PROXIMITY SWITCH OPTIONS (SINGLE POLE, DOUBLE THROW, FORM C CONTACT)	

N	NONE	
E	OPEN	CSA CLASS 1, DIV 1, GROUPS C & D
F	CLOSED	
G	OPEN & CLOSED	
H	OPEN	UL CLASS 1, DIV 1, GROUPS C & D
J	CLOSED	
K	OPEN & CLOSED	
P	OPEN	ATEX II 2 G X
Q	CLOSED	
R	OPEN & CLOSED	
CODE	PILOT OPTIONS	
0	NONE	
2	3 WAY QE SOLENOID, SS, UL/CSA 24VDC	
3	3 WAY QE SOLENOID, SS, UL/CSA 120VDC	
4	3 WAY QE SOLENOID, SS, UL/CSA 24VDC, QE5	
5	3 WAY QE SOLENOID, SS, UL/CSA 120VDC, QE5	
6	3 WAY QE SOLENOID, SS, UL/CSA 24VDC, SELF PILOTING	
7	3 WAY QE SOLENOID, SS, UL/CSA 120VDC, SELF PILOTING	
9	3 WAY QE SOLENOID, SS, UL/CSA 120VDC, QE5, SELF PILOTING	
10	3 WAY QE SOLENOID, SS, ATEX 24VDC	
11	3 WAY QE SOLENOID, SS, ATEX 115VDC	
12	3 WAY QE SOLENOID, SS, ATEX 24VDC, QE5	
13	3 WAY QE SOLENOID, SS, ATEX 115VDC, QE5	
14	3 WAY QE SOLENOID, SS, ATEX 24VDC, SELF PILOTING	
15	3 WAY QE SOLENOID, SS, ATEX 115VDC, SELF PILOTING	
16	3 WAY QE SOLENOID, SS, ATEX 24VDC, QE5, SELF PILOTING	
17	3 WAY QE SOLENOID, SS, ATEX 115VDC, QE5, SELF PILOTING	
20	4 WAY SOLENOID, SS, UL/CSA 24VDC	
21	4 WAY SOLENOID, SS, UL/CSA 120VDC	
22	4 WAY SOLENOID, SS, UL/CSA 24VDC, QE5	
23	4 WAY SOLENOID, SS, UL/CSA 120VDC, QE5	
24	4 WAY SOLENOID, SS, UL/CSA 24VDC, SELF PILOTING	
25	4 WAY SOLENOID, SS, UL/CSA 120VDC, SELF PILOTING	
26	4 WAY SOLENOID, SS, UL/CSA 24VDC, QE5, SELF PILOTING	
27	4 WAY SOLENOID, SS, UL/CSA 120VDC, QE5, SELF PILOTING	

4420 SEAL KIT FOR STANDARD VALVE		
CODE	BASIC MODEL	
10339X001	2"	
10339X002	3"	
2180E DIAPHRAGM OPERATED GAS VALVE - 2180ES31B - CANNOT BE SUPPLIED TO EU END-USER		
CODE	BASIC MODEL	

2180E	DIAPHRAGM OPERATED GAS VALVE	
CODE	BODY MATERIAL	
S	CAST STEEL	
D	DUCTILE IRON	
CODE	SIZE & FLANGE CONNECTION	
1	2" 125lb RF	
2	2" 150lb RF	
3	2" 300lb RF	
5	3" 150lb RF	
6	3" 300lb RF	
CODE	THREAD & FINISH	
1	NPT STANDARD	
CODE	SEAL MATERIAL	
A	BUNA NITRILE	
B	VITON	

4123 AIR START VALVE - 4123C2110NN		
CODE	BASIC MODEL	
4123C	AIR START VALVE	
CODE	TYPE	
1	MANUAL & AIR PILOT	
2	MANUAL & ELECTRICAL SOLENOID	
CODE	VALVE CONNECTION	
1	FLANGES TO ND40; DIN2503	
2	THREADED PORTS 1" BSP(Tr)	
CODE	PILOT THREAD	
1	1/4" BSP(Tr) 3/8" BSP(Tr) VENTED THREAD	
CODE	MANUAL OPERATOR POSITION	
0	STANDARD	
1	PUSH BUTTON ROTATED 90° CLOCKWISE	
2	PUSH BUTTON ROTATED 270° CLOCKWISE	
CODE	SPECIAL REQUIREMENTS	
A	12V DC	
B	24V DC	
D	110V DC	
C	48V DC	
G	110V AC	
N	WITHOUT SOLENOID	
CODE	SOLENOID HOUSING TYPE	
A	STANDARD IP43	
B	WATERPROOF IP67	
N	MANUAL & AIR PILOT VERSION ONLY	

8402 GAS FUEL METERING VALVE - 8402G14A2C-CBX (4280 + 8412) - CANNOT BE SUPPLIED TO EU END-USER

CODE	CV	SIZE	MATERIAL
8402G14A2 A	CV12	2"	STEEL
8402G14A2 B	CV25		
8402G14A2 C	CV30		
8402G14A2 D	CV60	3"	
8402G14A2 E	CV90		
8402G14A2 L	CV12	2"	
8402G14A2 M	CV25		
8402G14A2 N	CV30		
8402G14A2 P	CV60	3"	
8402G14A2 R	CV90		

CODE	
-AA	USE FOR STANDARD STAINLESS STEEL VALVE
-CBX	USE FOR STANDARD STEEL VALVES C/W INSTALLATION KIT

4280 GAS FUEL METERING VALVE - 4280G2C-RJR

CODE	CV	SIZE	MATERIAL
4280G2A	CV12	2"	STEEL
4280G2B	CV25		
4280G2C	CV30		
4280G2D	CV60	3"	
4280G2E	CV90		
4280G2L	CV12	2"	
4280G2M	CV25		
4280G2N	CV30		
4280G2P	CV60	3"	
4280G2R	CV90		

CODE	
-AA	USE FOR STANDARD STAINLESS STEEL VALVE
-RJR	USE FOR STANDARD STEEL VALVES C/W INSTALLATION KIT

8412 CONTROLLER FOR GAS FUEL METERING VALVE - 8412I14

CODE	BASIC MODEL
8412I14	CONTROLLER

4280 SPARES

10032X212-RTF	CARTRIDGE ASSEMBLY KIT FOR CV12
10032X225-RTF	CARTRIDGE ASSEMBLY KIT FOR CV25
10032X230-RTF	CARTRIDGE ASSEMBLY KIT FOR CV30
10032X260-RTF	CARTRIDGE ASSEMBLY KIT FOR CV60
10032X290-RTF	CARTRIDGE ASSEMBLY KIT FOR CV90
21338X001	O RING KIT FOR CV12, CV25 & CV30
21338X002	O RING KIT FOR CV60 & CV90
	20116 DRIVE GEAR
10073X101	OPTICAL ENCODER

66280X2	ACTUATOR PCB ASSEMBLY	
8412 SPARES		
66281X102	POWER SUPPLY PCB FOR CONTROLLER REVISIONS G, H & I	
66281X101	POWER SUPPLY PCB FOR CONTROLLER REVISIONS A TO F	
66275X2	LCD DISPLAY PCB	
53709L001	STEPPER MOTOR DRIVER CONTROLLER REVISIONS G, H & I	
48955X	STEPPER MOTOR DRIVER CONTROLLER REVISIONS E & F	
10435X	SPARE FUSE AND CONNECTOR KIT	

Vibration Switch & MPD Detector

4109 PNEUMATIC VIBRATION SWITCH		
BASIC MODEL		
4109B10B	PNEUMATIC VIBRATION SWITCH	

MPD METAL PARTICLE DETECTOR SWITCH - MPD2RU5W2		
CODE	BASIC MODEL	
MPD2R	METAL PARTICLE DETECTOR	
CODE	OIL PORT CONNECTION	
T	1/2" NPT	
W	1/2" SAE	
U	1/2" BSP(PI)	

CODE	ELECTRICAL CONDUIT PORT
5	3/4" NPT
CODE	ELECTRICAL CONNECTION
D	DIN CONNECTOR
W	WIRE LEADS, 18"
P	TERMINAL PLUGS
T	TERMINAL BLOCK
CODE	SEAL MATERIAL
1	BUNA NITRILE
2	VITON
MPD SPARES & ACCESSORIES	
CODE	BASIC MODEL
10829X001	SERVICE KIT INCLUDES GRID AND VITON O-RINGS

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2800 SAFETY CONTROL	
CODE	BASIC MODEL
2800D	SAFETY CONTROL MODEL UNSET OR 10psi (0.7 bar) FALLING PRESSURE SETTING OTHER THAN STANDARD 10psi

CODE	BODY	
0	ALUMINIUM	BLACK ANODISED
4	ALUMINIUM	BLACK ANODISED
CODE	PRESSURE CONNECTION	
0	1/4" NPT	
1	1/4" BSP(PI)	
CODE	RESET LATCH	
2	WITH RESET LATCH	

2185 ORIFICE - 2185L102		
CODE	BASIC MODEL	
2185L	ORIFICE	
CODE	MATERIAL	
1	ALUMINIUM	
2	STAINLESS STEEL	
CODE	CONNECTION	
0	NPT	
1	BSP	
CODE	ORIFICE DIAMETER	
1	0.343mm 0.0135"	AIR SERVICE
2	0.79mm 0.031"	OIL SERVICE
4	1.02mm 0.040" EITHER	
2400D INDICATING RELAYS - 2400D16J3		
CODE	BASIC MODEL	
2400D	SPACE SAVING INDICATOR	ALUMINIUM
CODE	TYPE	
15	SPRING RETURN	NPT BLACK ANODISED
16	STANDARD	NPT BLACK ANODISED
CODE	CONNECTION	
J	WITH ORIFICE	
E	WITHOUT ORIFICE	
CODE	SEAL MATERIAL	
3	VITON	

2400M INDICATING RELAYS - 2400M51J3		
CODE	BASIC MODEL	
2400M	SPACE SAVING INDICATOR	ALUMINIUM
CODE	TYPE	
51	BASIC UNIT	NPT BLACK ANODISED

53	SPRING RETURN	NPT BLACK ANODISE D	
CODE	CONNECTION		
J	WITH ORIFICE		
E	WITHOUT ORIFICE		
CODE	SEAL MATERIAL		
3	VITON		
4400M INDICATING RELAYS - 2400M51H3			
CODE	BASIC MODEL		
4400M	SPACE SAVING INDICATOR	STAINLES S STEEL	
CODE	TYPE		
51	BASIC UNIT	NPT	
53	SPRING RETURN	NPT	
CODE	CONNECTION		
H	WITH ORIFICE		
CODE	SEAL MATERIAL		
3	VITON		
4054 TRIP INDICATOR - 4054C1A			
CODE	BASIC MODEL		
4054C2	TRIP INDICATOR	ALUMINIUM	
4054C1	TRIP INDICATOR	ALUMINIUM	
4454A2	TRIP INDICATOR	STAINLESS STEEL	
4454A1	TRIP INDICATOR	STAINLESS STEEL	
CODE	SEAL MATERIAL		
A	NITRILE		
B	VITON		

4057 THREE-WAY PILOT VALVE - 4057D019F1			
CODE	BASIC MODEL		
4057D	3 WAY PILOT VALVE ALUMINIUM		
CODE	TYPE	DESCRIPT ION	
019F	CA	MANUAL OPERATE D	
020F	CB	MANUAL PULL SPRING RETURN	
022H	CD	MANUAL OR PRESSUR E OPERATE D MANUAL RETURN	

023H	CE	MANUAL OR PRESSUR E OPERATE D SPRING RETURN	
025H	CP	MANUAL LATCH OR PRESSUR E OPERATE D, SPRING RETURN WHEN RELEASE D	
027K	SB	MANUAL LATCH OR PRESSUR E OPERATE D, SPRING RETURN WHEN RELEASE D	
029K	CT	ADJUSTA BLE PRESSUR E OPERATE D SPRING RETURN, VITON SEALS, BUNA-N DIAPHRA GM	
031H	CG	PRESSUR E OPERATE D, SPRING RETURN, VITON	
032J	CF	DOUBLE PILOT OPERATE D, VITON	

035J	C2	DOUBLE PILOT OPERATED, SPRING RETURN IN ONE DIRECTION, VITON	
CODE	SPOOL CODE		
1	STANDARD		
2	VALVE PORT OVERLAP		
5	STANDARD ONLY AVAILABLE WITH 027		
6	VALVE PORT OVERLAP ONLY AVAILABLE WITH 027		
4058 FOUR-WAY PILOT VALVE - 4058D019F1			
CODE	BASIC MODEL		
4058D	3 WAY PILOT VALVE ALUMINIUM		
CODE	TYPE	DESCRIPTION	
011B	CA	MANUAL OPERATED	
012B	CB	MANUAL PULL SPRING RETURN	
014E	CD	MANUAL OR PRESSURE OPERATED MANUAL RETURN	
015E	CE	MANUAL OR PRESSURE OPERATED SPRING RETURN	
016H	CF	DOUBLE PILOT OPERATED	
017E	CG	PRESSURE OPERATED, SPRING RETURN	

018E	CP	MANUAL LATCH OR PRESSURE OPERATED, SPRING
019L	CT	ADJUSTABLE PRESSURE OPERATED SPRING RETURN
CODE	SPOOL CODE	
1	STANDARD	

4457 THREE-WAY PILOT VALVE - 4457A01F1		
CODE	BASIC MODEL	
4457A	3 WAY PILOT VALVE STAINLESS STEEL	
CODE	TYPE	DESCRIPTION
001F	CA	MANUAL OPERATED
002F	CB	MANUAL PULL SPRING RETURN
004H	CD	MANUAL OR PRESSURE OPERATED MANUAL RETURN
005H	CE	MANUAL OR PRESSURE OPERATED SPRING RETURN
007H	CP	MANUAL LATCH OR PRESSURE OPERATED, SPRING
013H	CG	PRESSURE OPERATED, SPRING RETURN
014J	CF	DOUBLE PILOT OPERATED
CODE	SPOOL CODE	
1	STANDARD	
2	VALVE PORT OVERLAP	

4458 FOUR-WAY PILOT VALVE - 4057D019F1		
CODE	BASIC MODEL	
4458A	3 WAY PILOT VALVE STAINLESS STEEL	
CODE	TYPE	DESCRIPTION
003E	CP	MANUAL LATCH OR PRESSURE OPERATED, SPRING

004E	CG	PRESSURE OPERATED, SPRING RETURN	
005H	CF	DOUBLE PILOT OPERATED	
006E	CE	MANUAL OR PRESSURE OPERATED SPRING RETURN	
007E	CD	MANUAL OR PRESSURE OPERATED MANUAL RETURN	
010B	CA	MANUAL OPERATED	
CODE	SPOOL CODE		
1	STANDARD		
4229 / 4429 PNEUMATIC INDICATOR			
CODE	BASIC MODEL		
4229B1	PNEUMATIC WARNING INDICATOR	NPT, ALUMINIUM, BLACK ANODISED	
4429B1	PNEUMATIC WARNING INDICATOR	NPT, STAINLESS STEEL	
CODE	INDICATOR COLOUR ON	INDICATOR COLOUR ON	
A	YELLOW	BLACK	
B	WHITE	BLACK	
C	GREEN	BLACK	
D	RED	BLACK	
E	YELLOW	RED	
F	WHITE	RED	
G	GREEN	RED	
CODE	SEAL MATERIAL		
1	NITRILE		
2	VITON		

4125 VENT CLOSURE			
CODE			
4125	VENT CLOSURE	1/4" COMPOSITE THREAD	
4125B	VENT CLOSURE	1/8" COMPOSITE THREAD	
PNEUMATIC ACCESSORIES			
CODE			

2690L001	ACCUMULATOR	STAINLESS STEEL	
2760B001	CHECK VALVE	BRASS	
2760B011	CHECK VALVE	BLACK EPOXY	
2790D012	SELECTOR VALVE	BLACK EPOXY	
2768B001	QUICK RELEASE VALVE	BRASS	
2768B011	QUICK RELEASE VALVE	BLACK EPOXY	
40378	AIR HORN	STANDARD FINISH	
44469	AIR HORN	BLACK EPOXY	