



BALL VALVE - 24V DCA

MODULATING BELIMO DAMPER ELECTRIC ACTUATORS

1/2" - 3" BRASS BODY, 2-WAY BALL VALVES

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STATIC PRESSURE: 360 psi
CLOSE OFF PRESSURE: 130 psi (1/2" - 3/4")
 100 psi (1" - 3")
TEMPERATURE: -22°F - 250°F
BODY: FORGED BRASS ASTM B283-06
END CONNECTIONS: FEMALE NPT
BALL: NICKEL-PLATED BRASS OR STAINLESS STEEL
STEM: BRASS OR STAINLESS STEEL
STEM SEALS: DUAL TEFLON SEALS AND EPDM O-RING
BALL SEALS: TEFLON SEALS WITH EPDM O-RINGS
FLOW CHARACTERISTIC: EQUAL PERCENTAGE
FLOW CHARACTERIZER: GLASS FILLED POLYMER
LEAKAGE RATE: CLASS IV
CONTROLLED MEDIUM: CHILLED WATER, HOT WATER,
 50% WATER-GLYCOL SOLUTIONS

MODULATING DAMPER ACTUATORS

NEMA 2 PROTECTION (NEMA 4 OPTION AVAILABLE)

POWER SUPPLY: 24VAC ± 20% 50/60Hz
 24VDC ± 10%

TEMPERATURE RANGE: -5°F to +125°F

RUNTIME: 75 to 150 sec

POWER CONSUMPTION

LMB24-SR: 3VA / 1.5W

TFB24-SR: 4VA / 2W

LF24-SR: 5VA / 2.5W

POWER CONNECTION

1/2" CONDUIT TO 3' CABLE (18 GA)



VALVE INFORMATION				NON-SPRING RETURN	SPRING RETURN
SIZE	MODEL #	Cv	CLOSE-OFF	LMB24-SR	LF24-SR
3"	UR2H1FB(S)	49.0	100 psi		
	UR2H2FB(S)	63.0			
	UR2H3FB(S)	82.0			
	UR2H4FB(S)	124.0			
	UR2H5FB(S)*	145.0			

VALVE INFORMATION				NON-SPRING RETURN	SPRING RETURN	
SIZE	MODEL #	Cv	CLOSE-OFF	LMB24-SR	TFB24-SR	LF24-SR
1/2"	UR2A1FB(S)	0.38	130 psi			
	UR2A2FB(S)	0.68				
	UR2A3FB(S)	1.3				
	UR2A4FB(S)	2.6				
	UR2A5FB(S)	4.7				
	UR2A6FB(S)*	11.7				
	UR2A7FB(S)	8.0				
3/4"	UR2B1FB(S)	2.5	130 psi			
	UR2B2FB(S)	4.3				
	UR2B3FB(S)*	14.7				
	UR2B4FB(S)	10.1				
	UR2B5FB(S)*	28.6				
	UR2B6FB(S)	0.31				
	UR2B7FB(S)	0.63				
	UR2B8FB(S)	1.2				
1"	UR2C1FB(S)	9.0	100 psi			
	UR2C2FB(S)*	28.4				
	UR2C3FB(S)	15.3				
	UR2C4FB(S)*	54.2				
	UR2C5FB(S)	26.1				
	UR2C6FB(S)*	43.9				
	UR2C7FB(S)	4.4				
1 1/4"	UR2D1FB(S)	14.9	100 psi			
	UR2D2FB(S)*	41.1				
	UR2D3FB(S)	36.5				
	UR2D4FB(S)*	102.3				
	UR2D5FB(S)	4.4				
	UR2D6FB(S)	8.3				
1 1/2"	UR2E1FB(S)	22.8	100 psi			
	UR2E2FB(S)*	73.9				
	UR2E3FB(S)	41.3				
	UR2E4FB(S)*	171.7				
2"	UR2F1FB(S)	41.7	100 psi			
	UR2F2FB(S)*	108.0				
	UR2F3FB(S)	71.1				
	UR2F4FB(S)*	266.0				
	UR2F5FB(S)	57.0				
	UR2F6FB(S)	100.0				
	UR2F7FB(S)	210.0				
2 1/2"	UR2G2FB(S)	45.0	100 psi			
	UR2G3FB(S)	55.0				
	UR2G4FB(S)	72.0				
	UR2G5FB(S)	101.0				
	UR2G6FB(S)	162.0				
UR2G7FB(S)*	202.0					

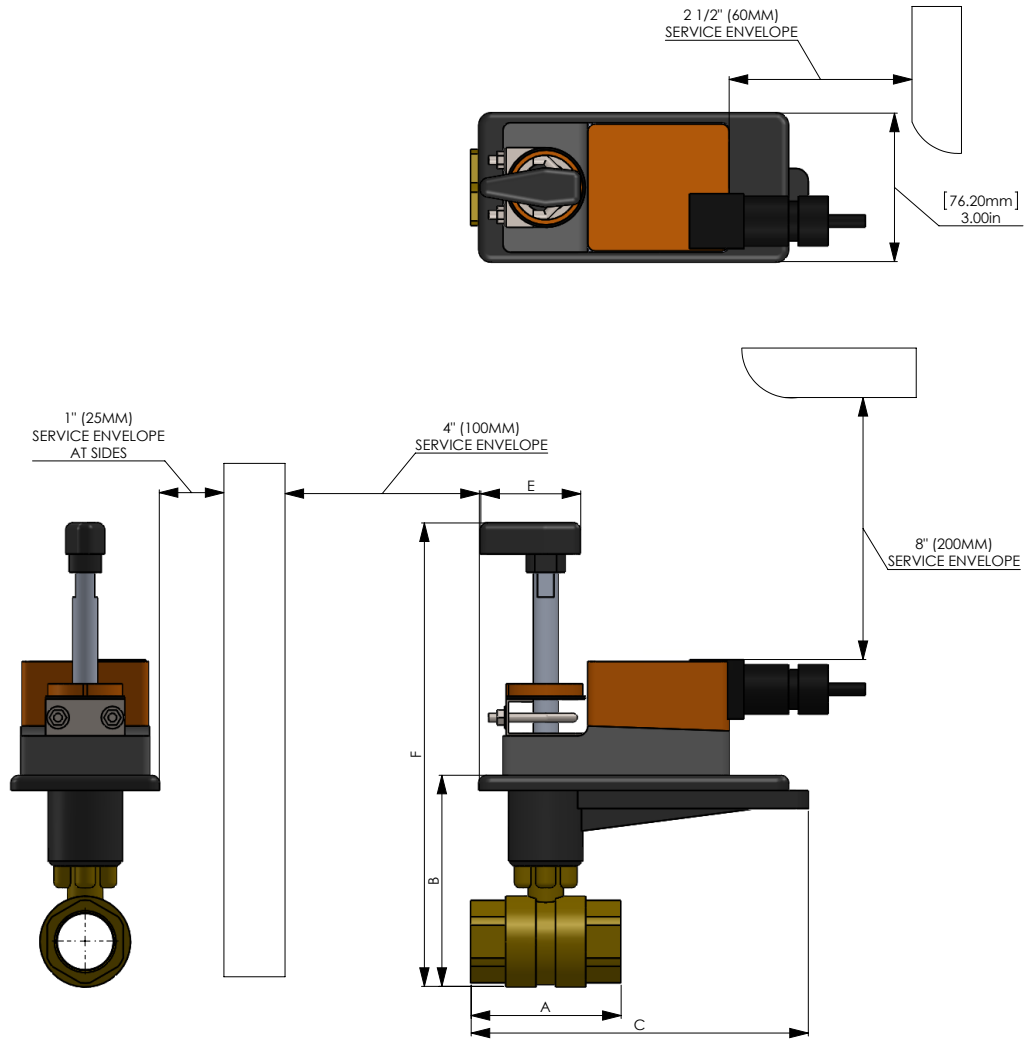
* DENOTES A FULL PORT VALVE WITHOUT FLOW OPTIMIZER INSERT.
 (S) DENOTES STAINLESS STEEL TRIM AND BALL.



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Dimensions

VALVE SIZE	MODEL	MODEL (Cv)	A	B	C	E	F	
1/2" (15)	UR2A_	1(0.38), 2(0.68), 3(1.3), 4(2.6), 5(4.7), 6(11.7)	2.37(60)	3.78(96)	6.65(169)	2.02 (51)	8.32(211)	
		7(8.0)	2.67(37)	4.10(104)			8.62(219)	
3/4" (20)	UR2B_	1(2.5), 2(4.3), 3(14.7), 6(0.31), 7(0.63), 8(1.2)	2.41(61)	3.78(96)	6.65(169)	2.02 (51)	8.62(219)	
		4(10.1), 5(28.6)	2.76(70)	4.05(103)				
1" (25)	UR2C_	1(9.0), 2(28.4)	2.76(70)	4.10(104)	6.65(169)	2.02 (51)	8.64(220)	
		3(15.3), 4(54.2), 7(4.4)	3.04(77)	4.39(112)			6.73(171)	8.96(228)
		5(26.1), 6(43.9)	4.29(109)	4.87(124)			7.38(188)	9.45(240)
1 1/4" (32)	UR2D_	1(14.9), 2(41.1), 5(4.4), 6(8.3)	3.01(76)	4.49(114)	6.71(171)	2.02 (51)	9.02(229)	
		3(36.5), 4(102.3)	3.62(92)	4.87(124)			7.05(179)	9.45(240)
1 1/2" (40)	UR2E_	1(22.8), 2(73.9)	3.43(87)	4.87(124)	6.96(177)	2.02 (51)	9.45(240)	
		3(41.3), 4(171.7)	4.06(103)	5.44(138)			7.27(185)	10.02(255)
2" (50)	UR2F_	1(41.7), 2(108.0)	3.98(101)	5.44(138)	7.21(183)	2.02 (51)	10.02(255)	
		3(71.1), 4(266), 5(57.0), 6(100.0), 7(210)	4.90(125)	6.06(154)			7.69(195)	10.65(271)
2 1/2" (65)	UR2G_	1(45.0), 2(55.0), 3(72.3), 4(101), 5(162), 6(202)	5.35(136)	6.06(154)	7.91(201)	2.02(51)	10.65(271)	
3" (75)	UR2H_	1(49.0), 2(63.0), 3(82.0), 4(124), 5(145)	5.73(146)	6.38(162)	8.10(206)	2.02(51)	10.91(277)	

Inch (mm)