

CONTROL VALVE SPECIFICATIONS



Masoneilan

Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-119

Item No. 1
 Date 2010/11/25
 Serial No. LE12A1190- 1
 Quantity 1

BODY	Model No.	87-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	78-80S (LOCKUP)	x 1
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	0.35 MPa	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	3"				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	140	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec.Supply	-
					Elec.Conn.	-
					Elec.Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Body	ASTM A216 Gr-WCC	SERVICE CONDITION		Elec.Conn.	-
	Plug	630(H1150D) SS			Elec.Class	-
	Seat Ring	316 SS HF Seat		Air Piping	Sig./Supply	- / 1/4"NPT
	Retainer or Cage	6 NM SS Cr. Plated			Tube Mat'l	316 ST. ST. TUBE
	Guide Bushing	Stellite #6			Fittings	DOUBLE-FERRULES
	Stem	660 SS (5/8")		Color	Body	RED
	Gasket	P#2600-H00-M			Yoke	RED
	Gland Packing	P#6610/ P#6710			Act'r Case	RED
	Gland O-ring	-			Handwheel	RED
	Seal Ring	Press.energized PTFE		Fluid	cycle H2	
ACTUATOR	Conical Spring	-	01	Case	MAX	NOR
	Flow to	CLOSE		Flow Rate	Nm3/h	91516 30505
	Signal Increase to	-		In.Press.	MPaG	16.29 16.29
	Fail Position	LOCK (OPEN)		Out.Press.	MPaG	15.5 15.5
	Actuator Type	DIAPHRAGM		Diff.Press.	MPa	0.79 0.79
	Size	# 16 (DIRECT) (A)		Temp.	°C	97 97
	Spring Range	0.040 - 0.205 MPa		Density	kg/Nm3	0.183 0.183
	Supply Pressure	0.35 MPa		Calculated Cv		48.7 15.9
	Rated Travel	50.8mm (2")		Cv%/Signal%		35 / 73 11 / 44 /
	Handwheel	YES (SIDE)		Predicted SPL(dBA)		78 73
POSITIONER	Positioner Type	FOUNDATION FIELDBUS		Shutoff Pr.	MPaG	P1 20.79 P2 0
	Model No.	SEE BELOW		Des.Press.	MPaG	18.9
	Input	Open 100 %		Des.Temp.	°C	- Max 200
	Signal	Close 0 %				
	Elec.Conn.	1/2"NPT				
	Elec.Class	II1GD EEx iaIIC T4				
	Model	-				
	In./Out.Signal	-				
	Elec.Conn.	-				
	Elec.Class	-				
TRANSDUCER	Air Set	-				
	Mounting	-				
	Lubr.&Isol.Valve	Yes				
	Grease No.	D 955				
	Travel Stopper	-				
	□Max □Min	-				
ACCESS.						

Note

- To be Conformed to NACE MR0175-2002
- Positioner is provided by customer to DJL Factory

By M. Shibayama

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CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-120

Item No. 2
 Date 2010/11/25
 Serial No. LE12A1190- 2
 Quantity 1

BODY	Model No.	87-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	78-80S (LOCKUP)	x 1
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	0.35 MPa	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	3"				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	140	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec.Supply	-
					Elec.Conn.	-
					Elec.Class	-
				Limit Switch	Model No.	-
					Position	-
ACTUATOR	Body	ASTM A216 Gr-WCC	SERVICE CONDITION		Elec.Conn.	-
	Plug	630(H1150D) SS			Elec.Class	-
	Seat Ring	316 SS HF Seat		Air Piping	Sig./Supply	- / 1/4"NPT
	Retainer or Cage	6 NM SS Cr. Plated			Tube Mat'l	316 ST. ST. TUBE
	Guide Bushing	Stellite #6		Color	Fittings	DOUBLE-FERRULES
	Stem	660 SS (5/8")			Body	RED
	Gasket	P#2600-H00-M			Yoke	RED
	Gland Packing	P#6610/ P#6710			Act'r Case	RED
	Gland O-ring	-			Handwheel	RED
	Seal Ring	Press. energized PTFE		Fluid	cycle H2	
POSITIONER	Conical Spring	-	OTHERS	Case	MAX	NOR
	Flow to	CLOSE		Flow Rate	Nm3/h	91516 30505
	Signal Increase to	-		In.Press.	MPaG	16.29 16.29
	Fail Position	LOCK (OPEN)		Out.Press.	MPaG	15.4 15.4
	Actuator Type	DIAPHRAGM		Diff.Press.	MPa	0.89 0.89
	Size	# 16 (DIRECT) (A)		Temp.	°C	97 97
	Spring Range	0.040 - 0.205 MPa		Density	kg/Nm3	0.183 0.183
	Supply Pressure	0.35 MPa		Calculated Cv		45.9 15
	Rated Travel	50.8mm (2")		Cv%/Signal%		33 / 72 11 / 43 /
	Handwheel	YES (SIDE)		Predicted SPL(dBA)		80 73
TRANSDUCER	Positioner Type	FOUNDATION FIELDBUS	OTHERS	Shutoff Pr.	MPaG	P1 20.79 P2 0
	Model No.	SEE BELOW		Des.Press.	MPaG	18.9
	Input	Open 100 %		Des.Temp.	°C	- Max 200
	Signal	Close 0 %				
	Elec.Conn.	1/2"NPT				
	Elec.Class	IIIGD EEx iaIIC T4				
	Model	-				
	In./Out.Signal	-				
	Elec.Conn.	-				
	Elec.Class	-				
ACCESS.	Air Set	-	OTHERS			
	Mounting	-				
	Lubr.&Isol.Valve	Yes				
	Grease No.	D 955				
	Travel Stopper	-				
	□Max □Min	-				

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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-121

Item No. 3
 Date 2010/11/25
 Serial No. LE12A1190- 3
 Quantity 1

BODY	Model No.	87-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	78-80S (LOCKUP)	x 1
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	0.35 MPa	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	3"				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	140	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec.Supply	-
					Elec.Conn.	-
					Elec.Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Body	ASTM A216 Gr-WCC	SERVICE CONDITION		Elec.Conn.	-
	Plug	630(H1150D) SS			Elec.Class	-
	Seat Ring	316 SS HF Seat		Air Piping	Sig./Supply	- / 1/4"NPT
	Retainer or Cage	6 NM SS Cr. Plated			Tube Mat'l	316 ST. ST. TUBE
	Guide Bushing	Stellite #6		Color	Fittings	DOUBLE-FERRULES
	Stem	660 SS (5/8")			Body	RED
	Gasket	P#2600-H00-M			Yoke	RED
	Gland Packing	P#6610/ P#6710			Act'r Case	RED
	Gland O-ring	-			Handwheel	RED
	Seal Ring	Press. energized PTFE		Fluid	cycle H2	
ACTUATOR	Conical Spring	-	01	Case	MAX	NOR
	Flow to	CLOSE		Flow Rate	Nm3/h	91516 30505
	Signal Increase to	-		In.Press.	MPaG	16.29 16.29
	Fail Position	LOCK (OPEN)		Out.Press.	MPaG	15.3 15.3
	Actuator Type	DIAPHRAGM		Diff.Press.	MPa	0.99 0.99
	Size	# 16 (DIRECT) (A)		Temp.	°C	97 97
	Spring Range	0.040 - 0.205 MPa		Density	kg/Nm3	0.183 0.183
	Supply Pressure	0.35 MPa		Calculated Cv		43.6 14.3
	Rated Travel	50.8mm (2")		Cv%/Signal%		31 / 70 10 / 42 /
	Handwheel	YES (SIDE)		Predicted SPL(dBA)		82 74
POSITIONER	Positioner Type	FOUNDATION FIELDBUS		Shutoff Pr.	MPaG	P1 20.79 P2 0
	Model No.	SEE BELOW		Des.Press.	MPaG	18.9
	Input	Open 100 %		Des.Temp.	°C	- Max 200
	Signal	Close 0 %				
	Elec.Conn.	1/2"NPT				
	Elec.Class	II1GD EEx iaIIC T4				
	Model	-				
	In./Out.Signal	-				
	Elec.Conn.	-				
	Elec.Class	-				
TRANSDUCER	Air Set	-				
	Mounting	-				
	Lubr.&Isol.Valve	Yes				
	Grease No.	D 955				
	Travel Stopper	-				
	□Max □Min	-				
ACCESS.						

Note

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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-PV-149

Item No. 5
 Date 2010/11/25
 Serial No. LE18A1190- 1
 Quantity 1

BODY	Model No.	87-78442	ACCESSORIES	Air Set	78-40	x 1
	Body Type	ANGLE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	-	
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	-	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN50				
	Trim Size	TRIM B				
	Trim Form	4-STAGE (LINCOLNLOG)				
	Characteristic	MODIFIED-LINEAR				
MATERIAL	Rated Cv	6	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 5			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec.Supply	-
					Elec.Conn.	-
					Elec.Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Flow to	OPEN	OTHERS		Elec.Conn.	-
	Signal Increase to	-		Air Piping	Elec.Class	-
	Fail Position	OPEN			Sig./Supply	- / 1/4"NPT
	Actuator Type	DIAPHRAGM			Tube Mat'l	316 ST. ST. TUBE
	Size	# 23 (DIRECT) (A)			Fittings	DOUBLE-FERRULES
	Spring Range	0.040 - 0.115 MPa		Color	Body	RED
	Supply Pressure	0.25 MPa			Yoke	RED
	Rated Travel	9.53mm (3/8")			Act'r Case	RED
	Handwheel	YES (SIDE)			Handwheel	RED
	Positioner Type	FOUNDATION FIELDBUS		Fluid	GENERAL LIQUID	
ACTUATOR	Model No.	SEE BELOW	SERVICE CONDITION	Case	MAX	
	Input	Open 100 %		Flow Rate	kg/h	36000
	Signal	Close 0 %		In.Press.	MPaG	15.69
	Elec.Conn.	1/2"NPT		Out.Press.	MPaG	0.6
	Elec.Class	II1GD EEx ia IIC T4		Diff.Press.	MPa	15.09
	Model	-		Temp.	°C	75
	In./Out.Signal	-		Density	(Sp. Gr.)	0.9831
	Elec.Conn.	-		Calculated Cv		3.42
	Elec.Class	-		Cv%/Signal%		57 / 65 / /
	Air Set	-		Predicted SPL(dBA)		78
POSITIONER	Mounting	-	OTHERS	Shutoff Pr.	MPaG	P1 21.23 P2 0
	Lubr.&Isol.Valve	-		Des.Press.	MPaG	19.3
	Grease No.	-		Des.Temp.	°C	-
	Travel Stopper	-				Max 150
	□Max □Min	-				
TRANSDUCER			OTHERS			
ACCESS.			OTHERS			

Note
 • Positioner is provided by customer to DJL Factory

CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-036

Item No. 9
 Date 2010/11/25
 Serial No. LE12A1190- 4
 Quantity 1

BODY	Model No.		87-41325		ACCESSORIES	Air Set		78-40		x 1	
	Body Type		GLOBE			Booster Relay		-			
	Rating		ASME CLASS 1500			Transfer Valve or		78-80S (LOCKUP)		x 1	
	End Connection		RTJ			Lock Up Valve		-			
	Flange Face Finish		AS PER STANDARD			Set Press.		0.35 MPa			
	Bonnet Type		STANDARD			Volume Tank		-			
	Body Size		DN80								
	Trim Size		3"								
	Trim Form		CAGE								
	Characteristic		EQ%								
	Rated Cv		140								
	Leakage Spec.		CLASS 4								
MATERIAL	Body		ASTM A216 Gr-WCC		OTHERS	Solenoid Valve		Model No.		-	
	Plug		630(H1150D) SS			Energized		-			
	Seat Ring		316 SS HF Seat			De-Energized		-			
	Retainer or Cage		6 NM SS Cr. Plated			Manual Reset		-			
	Guide Bushing		Stellite #6			Terminal Box		-			
	Stem		660 SS (5/8")			Elec.Supply		-			
	Gasket		P#2600-H00-M			Elec.Conn.		-			
	Gland Packing		P#6610/ P#6710			Elec.Class		-			
	Gland O-ring		-			Limit Switch		Model No.		-	
	Seal Ring		Press.energized PTFE			Position		-		-	
	Conical Spring		-			Elec.Conn.		-			
	Flow to		CLOSE			Elec.Class		-			
ACTUATOR	Signal Increase to		-		SERVICE CONDITION	Air Piping		Sig./Supply		- / 1/4"NPT	
	Fail Position		LOCK (OPEN)			Tube Mat'l		316 ST. ST. TUBE			
	Actuator Type		DIAPHRAGM			Fittings		DOUBLE-FERRULES			
	Size		# 16 (DIRECT) (A)			Body		RED			
	Spring Range		0.040 - 0.205 MPa			Yoke		RED			
	Supply Pressure		0.35 MPa			Act'r Case		RED			
	Rated Travel		50.8mm (2")			Handwheel		RED			
	Handwheel		YES (SIDE)			Fluid		cycle H2			
	Positioner Type		FOUNDATION FIELDBUS			Case		MAX		NOR	
	Model No.		SEE BELOW								
	Input		Open 100 %			Flow Rate		Nm3/h		140283 46761	
	Signal		Close 0 %								
POSITIONER	Elec.Conn.		1/2"NPT		In.Press.		MPaG		16.29 16.29		
	Elec.Class		IIIGD EEx iaIIC T4		Out.Press.		MPaG		15.6 15.6		
	Model		-		Diff.Press.		MPa		0.69 0.69		
	In./Out.Signal		-		Temp.		°C		97 97		
	Elec.Conn.		-		Density		kg/Nm3		0.183 0.183		
	Elec.Class		-								
	Air Set		-		Calculated Cv		82.7 26.1				
	Mounting		-		Cv%/Signal%		59 / 87 19 / 57 /				
	Lubr.&Isol.Valve		Yes		Predicted SPL(dBA)		75 75				
	Grease No.		D 955		Shutoff Pr.		MPaG P1 20.79 P2 0				
	Travel Stopper		-		Des.Press.		MPaG 18.9				
	□Max □Min		-		Des.Temp.		°C -		Max 200		

Note

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CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-FV-018

Item No. 11
 Date 2010/11/25
 Serial No. LE12A1190- 5
 Quantity 1

BODY	Model No.		51-41925DR		ACCESSORIES	Air Set		78-40		x 1					
	Body Type		GLOBE			78-40 W/GAUGE		x 1							
	Rating		ASME CLASS 1500			Booster Relay		-							
	End Connection		RTJ			Transfer Valve or		78-80S		x 1					
	Flange Face Finish		AS PER STANDARD			Lock Up Valve		08-80S		x 1					
	Bonnet Type		STANDARD			Set Press.		0.28 MPa							
	Body Size		DN100			Volume Tank		-							
	Trim Size		4"												
	Trim Form		CAGE												
	Characteristic		EQ%												
	Rated Cv		225												
	Leakage Spec.		CLASS 4												
MATERIAL	Body		ASTM A216 Gr-WCC		OTHERS	Solenoid Valve		Model No.		-					
	Plug		630(H1075) SS					Energized		-					
	Seat Ring		410 SS					De-Energized		-					
	Retainer or Cage		6 NM SS Cr. Plated					Manual Reset		-					
	Guide Bushing		440C SS					Terminal Box		-					
	Stem		630(H1075) SS (5/8")					Elec.Supply		-					
	Gasket		P#2600-H00-M					Elec.Conn.		-					
	Gland Packing		V#VFT-22/V#6399L					Elec.Class		-					
	Gland O-ring		-												
	Seal Ring		GRAPHITE/A439 TY-D3			Limit Switch		Model No.		-					
	Conical Spring		-					Position		-					
	Flow to		CLOSE					Elec.Conn.		-					
ACT'N	Signal Increase to		-		Air Piping	Sig./Supply		-		/1/4"NPT					
	Fail Position		CLOSE			Tube Mat'l		316 ST. ST. TUBE							
ACTUATOR	Actuator Type		CYLINDER		Color	Fittings		DOUBLE-FERRULES							
	Size		#12(10)			Body		RED							
	Spring Range		-			Yoke		RED							
	Supply Pressure		0.28 MPa			Act'r Case		RED							
	Rated Travel		50.8mm (2")			Handwheel		RED							
	Handwheel		CM(SIDE)												
POSITIONER	Positioner Type		FOUNDATION FIELDBUS		SERVICE CONDITION	Fluid		GENERAL LIQUID							
	Model No.		SEE BELOW			Case		MAX		NOR		MIN			
	Input		Open			Flow Rate		kg/h		236996		197497		98748	
	Signal		Close												
TRANSDUCER	Elec.Conn.		1/2"NPT		In.Press.		MPaG		17.7		17.7		17.7		
	Elec.Class		II1GD EEx ia1IC T4		Out.Press.		MPaG		17.2		17.2		17.2		
	Model		-		Diff.Press.		MPa		0.5		0.5		0.5		
	In./Out.Signal		-		Temp.		°C		207		207		207		
	Elec.Conn.		-		Density		(Sp. Gr.)		0.7791		0.7791		0.7791		
	Elec.Class		-		Calculated Cv				148		121		58.5		
	Air Set		-		Cv%/Signal%				66 / 78		54 / 73		26 / 59		
	Mounting		-		Predicted SPL(dBA)				64		63		60		
	Lubr.&Isol.Valve		-		Shutoff Pr.		MPaG		P1 23.43		P2 0				
	Grease No.		-		Des.Press.		MPaG		21.3						
ACCESS.	Travel Stopper		-		Des.Temp.		°C		-		Max 225				
	□Max □Min		-												

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CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-FV-028

Item No. 12
 Date 2010/11/25
 Serial No. LE12A1190- 6
 Quantity 1

BODY	Model No.		51-41925DR		ACCESSORIES	Air Set		78-40		x 1					
	Body Type		GLOBE			78-40 W/GAUGE		x 1							
	Rating		ASME CLASS 1500			Booster Relay		-							
	End Connection		RTJ			Transfer Valve or		78-80S		x 1					
	Flange Face Finish		AS PER STANDARD			Lock Up Valve		08-80S		x 1					
	Bonnet Type		STANDARD			Set Press.		0.28 MPa							
	Body Size		DN100			Volume Tank		-							
	Trim Size		4"												
	Trim Form		CAGE												
	Characteristic		EQ%												
	Rated Cv		225												
	Leakage Spec.		CLASS 4												
MATERIAL	Body		ASTM A216 Gr-WCC		OTHERS	Solenoid Valve	Model No.		-						
	Plug		630(H1075) SS				Energized		-						
	Seat Ring		410 SS				De-Energized		-						
	Retainer or Cage		6 NM SS Cr. Plated				Manual Reset		-						
	Guide Bushing		440C SS				Terminal Box		-						
	Stem		630(H1075) SS (5/8")				Elec.Supply		-						
	Gasket		P#2600-H00-M				Elec.Conn.		-						
	Gland Packing		V#VFT-22/V#6399L				Elec.Class		-						
	Gland O-ring		-												
	Seal Ring		GRAPHITE/A439 TY-D3			Limit Switch	Model No.		-						
	Conical Spring		-				Position		-						
	Flow to		CLOSE				Elec.Conn.		-						
ACTUATOR	Signal Increase to		-		SERVICE CONDITION	Air Piping	Elec.Class		-						
	Fail Position		CLOSE				Sig./Supply		- /1/4"NPT						
	Actuator Type		CYLINDER				Tube Mat'l		316 ST. ST. TUBE						
	Size		#12(10)				Fittings		DOUBLE-FERRULES						
	Spring Range		-			Color	Body		RED						
	Supply Pressure		0.28 MPa				Yoke		RED						
	Rated Travel		50.8mm (2")				Act'r Case		RED						
	Handwheel		CM(SIDE)				Handwheel		RED						
	Positioner Type		FOUNDATION FIELDBUS			Fluid		GENERAL LIQUID							
	Model No.		SEE BELOW			Case		MAX		NOR		MIN			
	Input		Open			Flow Rate		kg/h		236996		197497		98748	
	Signal		Close												
Elec.Conn.		1/2"NPT		In.Press.		MPaG		17.7		17.7		17.7			
Elec.Class		II2G EEx d IIC T5		Out.Press.		MPaG		17.2		17.2		17.2			
TRANSDUCER	Model		-		Diff.Press.		MPa		0.5		0.5		0.5		
	In./Out.Signal		-		Temp.		°C		207		207		207		
	Elec.Conn.		-		Density		(Sp. Gr.)		0.7791		0.7791		0.7791		
	Elec.Class		-		Calculated Cv				148		121		58.5		
	Air Set		-		Cv%/Signal%				66 / 78		54 / 73		26 / 59		
	Mounting		-		Predicted SPL(dBA)				64		63		60		
	Lubr.&Isol.Valve		-		Shutoff Pr.		MPaG		P1 23.43		P2 0				
	Grease No.		-		Des.Press.		MPaG		21.3						
	Travel Stopper		-		Des.Temp.		°C		-				Max 225		
	□Max □Min		-												
	ACCESS.														

Note
 • Positioner is provided by customer to DJL Factory

CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-FV-060

Item No. 18
 Date 2010/11/25
 Serial No. LE12A1190- 7
 Quantity 1

BODY	Model No.	88-21119ASH	ACCESSORIES	Air Set	78-40	x 1
	Body Type	ANGLE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	-	
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	-	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN25				
	Trim Size	1/2"				
	Trim Form	SINGLE				
	Characteristic	LINEAR				
MATERIAL	Rated Cv	6	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 5			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec.Supply	-
					Elec.Conn.	-
					Elec.Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Body	ASTM A216 Gr-WCC	SERVICE CONDITION		Elec.Conn.	-
	Plug	Stellite #6			Elec.Class	-
	Seat Ring	316 SS HF Bore		Air Piping	Sig./Supply	- / 1/4"NPT
	Retainer or Cage	630 (H1150M) Cr. Plated			Tube Mat'l	316 ST. ST. TUBE
	Guide Bushing	-			Fittings	DOUBLE-FERRULES
	Stem	660 SS (1/2")		Color	Body	RED
	Gasket	T#1808-GR-H00			Yoke	RED
	Gland Packing	P#6610/ P#6710			Act'r Case	RED
	Gland O-ring	-			Handwheel	RED
	Seal Ring	-		Fluid	cycle H2	
ACTUATOR	Conical Spring	-	01	Case	MAX	
	Flow to	OPEN		Flow Rate	Nm3/h	12000
	Signal Increase to	OPEN		In.Press.	MPaG	13.54
	Fail Position	CLOSE		Out.Press.	MPaG	3
	Actuator Type	DIAPHRAGM		Diff.Press.	MPa	10.54
	Size	# 10 (REVERSE) (A)		Temp.	°C	66
	Spring Range	0.145 - 0.310 MPa		Density	kg/Nm3	0.183
	Supply Pressure	0.40 MPa		Calculated Cv		2.79
	Rated Travel	20.32mm (0.8")		Cv%/Signal%	46 / 45	/ /
	Handwheel	YES (SIDE)		Predicted SPL(dBA)	90	
POSITIONER	Positioner Type	ELEC/PNEUMA. (HART)		Shutoff Pr.	MPaG	P1 16.46 P2 0
	Model No.	SEE BELOW		Des.Press.	MPaG	14.96
	Input	Open 20 mA		Des.Temp.	°C	-
	Signal	Close 4 mA				Max 150
	Elec.Conn.	1/2"NPT				
	Elec.Class	IIIGD EEx ia IIC T4				
	Model	-				
	In./Out.Signal	-				
	Elec.Conn.	-				
	Elec.Class	-				
TRANSDUCER	Air Set	-				
	Mounting	-				
	Lubr.&Isol.Valve	Yes				
	Grease No.	D 955				
	Travel Stopper	-				
	□Max □Min	-				
ACCESS.						

Note

- To be Conformed to NACE MR0175-2002
- Positioner is provided by customer to DJL Factory

By M. Shibayama

Rev.Date 2010/12/27

No. 01

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CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-FV-066

Item No. 19
 Date 2010/11/25
 Serial No. LE12A1190- 8
 Quantity 1

BODY	Model No.		51-41325DR		ACCESSORIES	Air Set		78-40		x 1	
	Body Type		GLOBE			78-40 W/GAUGE		x 1			
	Rating		ASME CLASS 1500			Booster Relay		-			
	End Connection		RTJ			Transfer Valve or		78-80S		x 1	
	Flange Face Finish		AS PER STANDARD			Lock Up Valve		08-80S		x 1	
	Bonnet Type		STANDARD			Set Press.		0.20 MPa			
	Body Size		DN150			Volume Tank		-			
	Trim Size		6"								
	Trim Form		CAGE								
	Characteristic		EQ%								
	Rated Cv		360								
	Leakage Spec.		CLASS 4								
MATERIAL	Body		ASTM A216 Gr-WCC		OTHERS	Solenoid Valve	Model No.		-		
	Plug		630(H1150D) SS				Energized		-		
	Seat Ring		316 SS HF Seat				De-Energized		-		
	Retainer or Cage		6 NM SS Cr. Plated				Manual Reset		-		
	Guide Bushing		Stellite #6				Terminal Box		-		
	Stem		630(H1150M) SS (3/4")				Elec.Supply		-		
	Gasket		P#2600-H00-M				Elec.Conn.		-		
	Gland Packing		V#VFT-22/V#6399L				Elec.Class		-		
	Gland O-ring		-								
	Seal Ring		Press.energized PTFE			Limit Switch	Model No.		-		
	Conical Spring		-				Position		-		
	Flow to		CLOSE				Elec.Conn.		-		
ACTUATOR	Signal Increase to		-		SERVICE CONDITION	Air Piping	Elec.Class		-		
	Fail Position		CLOSE				Sig./Supply		- /1/4"NPT		
	Actuator Type		CYLINDER				Tube Mat'l		316 ST. ST. TUBE		
	Size		#12(10)			Fittings		DOUBLE-FERRULES			
	Spring Range		-			Color	Body		RED		
	Supply Pressure		0.20 MPa				Yoke		RED		
	Rated Travel		50.8mm (2")				Act'r Case		RED		
	Handwheel		CM(SIDE)				Handwheel		RED		
	Positioner Type		FOUNDATION FIELDBUS			Fluid		GENERAL LIQUID			
	Model No.		SEE BELOW			Case		MAX		NOR	MIN
	Input		Open	100 %		Flow Rate		kg/h	260000	216197	95802
	Signal		Close	0 %		In.Press.		MPaG	14.8	14.8	14.8
Elec.Conn.		1/2"NPT		Out.Press.		MPaG	14.65	14.65	14.65		
Elec.Class		II1GD EEx iaIIC T4		Diff.Press.		MPa	0.15	0.15	0.15		
TRANSDUCER	Model		-		Temp.		°C	67	67	67	
	In./Out.Signal		-		Density		(Sp. Gr.)	0.9836	0.9836	0.9836	
	Elec.Conn.		-		Calculated Cv		256	210	91.7		
	Elec.Class		-		Cv%/Signal%		71 / 78	58 / 71	25 / 51		
	Air Set		-		Predicted SPL(dBA)		60	59	55		
	Mounting		-		Shutoff Pr.		MPaG	P1 20.02	P2 0		
	Lubr.&Isol.Valve		-		Des.Press.		MPaG	18.2			
	Grease No.		-		Des.Temp.		°C	-	Max 100		
	Travel Stopper		-								
	□Max □Min		-								

Note
 + • Positioner is provided by customer to DJL Factory
 * • To be Conformed to NACE MR0175-2002

CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-037

Item No. 20
 Date 2010/11/25
 Serial No. LE12A1190- 9
 Quantity 1

BODY	Model No.	87-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	78-80S (LOCKUP)	x 1
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	0.35 MPa	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	3"				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	140	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec.Supply	-
					Elec.Conn.	-
					Elec.Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Body	ASTM A216 Gr-WCC	SERVICE CONDITION		Elec.Conn.	-
	Plug	630(H1150D) SS			Elec.Class	-
	Seat Ring	316 SS HF Seat		Air Piping	Sig./Supply	- / 1/4"NPT
	Retainer or Cage	6 NM SS Cr. Plated			Tube Mat'l	316 ST. ST. TUBE
	Guide Bushing	Stellite #6		Color	Fittings	DOUBLE-FERRULES
	Stem	660 SS (5/8")			Body	RED
	Gasket	P#2600-H00-M			Yoke	RED
	Gland Packing	P#6610/ P#6710			Act'r Case	RED
	Gland O-ring	-			Handwheel	RED
	Seal Ring	Press. energized PTFE		Fluid	cycle H2	
ACTUATOR	Conical Spring	-	01	Case	MAX	NOR
	Flow to	CLOSE		Flow Rate	Nm3/h	140283 46761
	Signal Increase to	-		In.Press.	MPaG	16.29 16.29
	Fail Position	LOCK (OPEN)		Out.Press.	MPaG	15.5 15.5
	Actuator Type	DIAPHRAGM		Diff.Press.	MPa	0.79 0.79
	Size	# 16 (DIRECT) (A)		Temp.	°C	97 97
	Spring Range	0.040 - 0.205 MPa		Density	kg/Nm3	0.183 0.183
	Supply Pressure	0.35 MPa		Calculated Cv		77 24.5
	Rated Travel	50.8mm (2")		Cv%/Signal%		55 / 85 17 / 55 /
	Handwheel	YES (SIDE)		Predicted SPL(dBA)		78 78
POSITIONER	Positioner Type	FOUNDATION FIELDBUS		Shutoff Pr.	MPaG	P1 20.79 P2 0
	Model No.	SEE BELOW		Des.Press.	MPaG	18.9
	Input	Open 100 %		Des.Temp.	°C	- Max 200
	Signal	Close 0 %				
	Elec.Conn.	1/2"NPT				
	Elec.Class	II1GD EEx iaIIC T4				
	Model	-				
	In./Out.Signal	-				
	Elec.Conn.	-				
	Elec.Class	-				
TRANSDUCER	Air Set	-				
	Mounting	-				
	Lubr.&Isol.Valve	Yes				
	Grease No.	D 955				
	Travel Stopper	-				
	□Max □Min	-				
ACCESS.						

Note

- To be Conformed to NACE MR0175-2002
- Positioner is provided by customer to DJL Factory

CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-FV-082

Item No. 24
 Date 2010/11/25
 Serial No. LE12A1190-10
 Quantity 1

BODY	Model No.	88-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	-	
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	-	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	REDUCED				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	56	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec. Supply	-
					Elec. Conn.	-
					Elec. Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Flow to	CLOSE	OTHERS		Elec. Conn.	-
	Signal Increase to	-			Elec. Class	-
	Fail Position	CLOSE		Air Piping	Sig./Supply	- / 1/4"NPT
	Actuator Type	DIAPHRAGM			Tube Mat'l	316 ST. ST. TUBE
	Size	# 16 (REVERSE) (A)			Fittings	DOUBLE-FERRULES
	Spring Range	0.145 - 0.310 MPa		Color	Body	RED
	Supply Pressure	0.40 MPa			Yoke	RED
	Rated Travel	50.8mm (2")			Act'r Case	RED
	Handwheel	YES (SIDE)			Handwheel	RED
	Positioner Type	FOUNDATION FIELDBUS		Fluid	WATER	
ACTUATOR	Model No.	SEE BELOW	SERVICE CONDITION	Case	MAX	NOR
	Input	Open 100 %			MIN	
	Signal	Close 0 %		Flow Rate	kg/h	36000
	Elec. Conn.	1/2"NPT				27582
	Elec. Class	IIIGD EEx ia IIC T4				13791
	Model	-		In. Press.	MPaG	15.7
	In./Out. Signal	-				15.7
	Elec. Conn.	-		Out. Press.	MPaG	15.55
	Elec. Class	-				15.55
	Air Set	-		Diff. Press.	MPa	0.15
POSITIONER	Mounting	-	SERVICE CONDITION			0.15
	Lubr. & Isol. Valve	-		Temp.	°C	75
	Grease No.	-				75
	Travel Stopper	-		Density	(Sp. Gr.)	0.983
	□Max □Min	-				0.983
				Calculated Cv		34.5
						26.4
				Cv%/Signal%		62 / 88
						47 / 81
				Predicted SPL(dBA)		< 50
TRANSUCER			SERVICE CONDITION			< 50
				Shutoff Pr.	MPaG	P1 21.23
						P2 0
				Des. Press.	MPaG	19.3
				Des. Temp.	°C	-
						Max 150
ACCESS.			SERVICE CONDITION			

Note
 • Positioner is provided by customer to DJL Factory

CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-038

Item No. 31
 Date 2010/11/25
 Serial No. LE12A1190-11
 Quantity 1

BODY	Model No.		87-41325		ACCESSORIES	Air Set		78-40		x 1	
	Body Type		GLOBE			Booster Relay		-			
	Rating		ASME CLASS 1500			Transfer Valve or		78-80S (LOCKUP)		x 1	
	End Connection		RTJ			Lock Up Valve		-			
	Flange Face Finish		AS PER STANDARD			Set Press.		0.35 MPa			
	Bonnet Type		STANDARD			Volume Tank		-			
	Body Size		DN80								
	Trim Size		3"								
	Trim Form		CAGE								
	Characteristic		EQ%								
	Rated Cv		140								
	Leakage Spec.		CLASS 4								
MATERIAL	Body		ASTM A216 Gr-WCC		OTHERS	Solenoid Valve		Model No.		-	
	Plug		630(H1150D) SS			Energized		-			
	Seat Ring		316 SS HF Seat			De-Energized		-			
	Retainer or Cage		6 NM SS Cr. Plated			Manual Reset		-			
	Guide Bushing		Stellite #6			Terminal Box		-			
	Stem		660 SS (5/8")			Elec.Supply		-			
	Gasket		P#2600-H00-M			Elec.Conn.		-			
	Gland Packing		P#6610/ P#6710			Elec.Class		-			
	Gland O-ring		-			Limit Switch		Model No.		-	
	Seal Ring		Press.energized PTFE			Position		-		-	
	Conical Spring		-			Elec.Conn.		-			
	Flow to		CLOSE			Elec.Class		-			
ACTUATOR	Signal Increase to		-		SERVICE CONDITION	Air Piping		Sig./Supply		- /1/4"NPT	
	Fail Position		LOCK (OPEN)			Tube Mat'l		316 ST. ST. TUBE			
	Actuator Type		DIAPHRAGM			Fittings		DOUBLE-FERRULES			
	Size		# 16 (DIRECT) (A)			Body		RED			
	Spring Range		0.040 - 0.205 MPa			Yoke		RED			
	Supply Pressure		0.35 MPa			Act'r Case		RED			
	Rated Travel		50.8mm (2")			Handwheel		RED			
	Handwheel		YES (SIDE)			Fluid		cycle H2			
	Positioner Type		FOUNDATION FIELDBUS			Case		MAX		NOR	
	Model No.		SEE BELOW			Flow Rate		Nm3/h		140283 46761	
POSITIONER	Input	Open	100 %	01	In.Press.		MPaG		16.29 16.29		
	Signal	Close	0 %		Out.Press.		MPaG		15.4 15.4		
	Elec.Conn.		1/2"NPT		Diff.Press.		MPa		0.89 0.89		
	Elec.Class		IIIGD EEx ia IIC T4		Temp.		°C		97 97		
TRANSDUCER	Model		-		Density		kg/Nm3		0.183 0.183		
	In./Out.Signal		-		Calculated Cv		72.3 23.1				
	Elec.Conn.		-		Cv%/Signal%		52 / 83 17 / 54 /				
	Elec.Class		-		Predicted SPL(dBA)		80 79				
ACCESS.	Air Set		-		Shutoff Pr.		MPaG		P1 20.79 P2 0		
	Mounting		-		Des.Press.		MPaG		18.9		
	Lubr.&Isol.Valve		Yes		Des.Temp.		°C		- Max 200		
	Grease No.		D 955								
Travel Stopper		-									
□Max □Min		-									

Note

- To be Conformed to NACE MR0175-2002
- Positioner is provided by customer to DJL Factory

By M. Shibayama

Rev. Date 2010/12/27

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CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-LV-028

Item No. 32
 Date 2010/11/25
 Serial No. LE18A1190- 2
 Quantity 1

BODY	Model No.	88-78447	ACCESSORIES	Air Set	78-40	x 1
	Body Type	ANGLE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	-	
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	-	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN25				
	Trim Size	TRIM A				
	Trim Form	4-STAGE (LINCOLNLOG)				
	Characteristic	MODIFIED-LINEAR				
MATERIAL	Rated Cv	1	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 5			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec.Supply	-
					Elec.Conn.	-
					Elec.Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Flow to	OPEN	OTHERS		Elec.Conn.	-
	Signal Increase to	-			Elec.Class	-
	Fail Position	CLOSE		Air Piping	Sig./Supply	- / 1/4"NPT
	Actuator Type	DIAPHRAGM			Tube Mat'l	316 ST. ST. TUBE
	Size	# 10 (REVERSE) (A)			Fittings	DOUBLE-FERRULES
	Spring Range	0.150 - 0.205 MPa		Color	Body	RED
	Supply Pressure	0.28 MPa			Yoke	RED
	Rated Travel	6.35mm (1/4")			Act'r Case	RED
	Handwheel	YES (SIDE)			Handwheel	RED
	Positioner Type	FOUNDATION FIELDBUS		Fluid	GENERAL LIQUID	
ACTUATOR	Model No.	SEE BELOW	SERVICE CONDITION	Case	MAX	NOR
	Input	Open 100 %			MIN	
	Signal	Close 0 %		Flow Rate	kg/h	3500
	Elec.Conn.	1/2"NPT				1500
	Elec.Class	IIIGD EEx ia IIC T4				600
	Model	-		In.Press.	MPaG	13.6
	In./Out.Signal	-				13.6
	Elec.Conn.	-		Out.Press.	MPaG	3.3
	Elec.Class	-				3.3
	Air Set	-		Diff.Press.	MPa	10.3
POSITIONER	Mounting	-	SERVICE CONDITION			10.3
	Lubr.&Isol.Valve	-		Temp.	°C	60
	Grease No.	-				60
	Travel Stopper	-		Density	(Sp. Gr.)	0.606
	□Max □Min	-				0.606
				Calculated Cv		0.513
						0.22
				Cv%/Signal%		51 / 60
						22 / 36
				Predicted SPL(dBA)		53
TRANSDUCER						< 50
				Shutoff Pr.	MPaG	P1 16.456
						P2 0
				Des.Press.	MPaG	14.96
				Des.Temp.	°C	-
						Max 150
ACCESS.						

Note

- To be Conformed to NACE MR0175-2002
- Positioner is provided by customer to DJL Factory

By M. Shibayama

Rev.Date 2010/12/27

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CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-LV-034

Item No. 35
 Date 2010/11/25
 Serial No. LE18A1190- 3
 Quantity 1

BODY	Model No.		88-78447		ACCESSORIES	Air Set		78-40		x 1	
	Body Type		ANGLE			Booster Relay		-			
	Rating		ASME CLASS 1500			Transfer Valve or		-			
	End Connection		RTJ			Lock Up Valve		-			
	Flange Face Finish		AS PER STANDARD			Set Press.		-			
	Bonnet Type		STANDARD			Volume Tank		-			
	Body Size		DN25								
	Trim Size		TRIM A								
	Trim Form		4-STAGE (LINCOLNLOG)								
	Characteristic		MODIFIED-LINEAR								
	Rated Cv		1								
	Leakage Spec.		CLASS 5								
MATERIAL	Body		A351 Gr-CF8C		OTHERS	Solenoid Valve		Model No.		-	
	Plug		630(H1150M) SS			Energized		-			
	Seat Ring		Nitronic 50 or Eq.			De-Energized		-			
	Retainer or Cage		Nitronic 50 or Eq.			Manual Reset		-			
	Guide Bushing		-			Terminal Box		-			
	Stem		630(H1075) SS			Elec.Supply		-			
	Gasket		T#1808-GR-K00			Elec.Conn.		-			
	Gland Packing		P#6610/ P#6710			Elec.Class		-			
	Gland O-ring		-			Limit Switch		Model No.		-	
	Seal Ring		-			Position		-		-	
	Metal Seal		-			Elec.Conn.		-			
	Flow to		OPEN			Elec.Class		-			
ACT'N	Signal Increase to		-		SERVICE CONDITION	Air Piping		Sig./Supply		-	
	Fail Position		CLOSE			Tube Mat'l		316 ST. ST. TUBE		/1/4"NPT	
	Actuator Type		DIAPHRAGM			Fittings		DOUBLE-FERRULES			
	Size		# 10 (REVERSE) (A)			Body		-			
	Spring Range		0.150 - 0.205 MPa			Yoke		RED			
	Supply Pressure		0.28 MPa			Act'r Case		RED			
	Rated Travel		6.35mm (1/4")			Handwheel		RED			
	Handwheel		YES (SIDE)			Fluid		GENERAL LIQUID			
	Positioner Type		FOUNDATION FIELDBUS			Case		MAX		NOR	
	Model No.		SEE BELOW							MIN	
	Input		Open			Flow Rate		kg/h		4000	
	Signal		Close							2300	
ACTUATOR	Elec.Conn.		1/2"NPT		In.Press.		MPaG		13.54		
	Elec.Class		II1GD EEx ia IIC T4		Out.Press.		MPaG		1.2		
	Model		-		Diff.Press.		MPa		12.34		
	In./Out.Signal		-		Temp.		°C		60		
	Elec.Conn.		-		Density		(Sp. Gr.)		0.9866		
	Elec.Class		-		Calculated Cv				0.42		
	Air Set		-		Cv%/Signal%				42 / 52		
	Mounting		-		Predicted SPL(dBA)				66		
	Lubr.&Isol.Valve		Yes		Shutoff Pr.		MPaG		P1 16.456		
	Grease No.		D 955		Des.Press.		MPaG		14.96		
	Travel Stopper		-		Des.Temp.		°C		-		
	POSITIONER	□Max □Min		-						Max 260	

Note
 • Positioner is provided by customer to DJL Factory

CONTROL VALVE SPECIFICATIONS



Masoneilan

Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-039

Item No. 37
 Date 2010/11/25
 Serial No. LE12A1190-12
 Quantity 1

BODY	Model No.	87-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	78-80S (LOCKUP)	x 1
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	0.35 MPa	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	3"				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	140	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec. Supply	-
					Elec. Conn.	-
					Elec. Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Body	ASTM A216 Gr-WCC			Elec. Conn.	-
	Plug	630 (H1150D) SS			Elec. Class	-
	Seat Ring	316 SS HF Seat		Air Piping	Sig./Supply	- / 1/4"NPT
	Retainer or Cage	6 NM SS Cr. Plated			Tube Mat'l	316 ST. ST. TUBE
	Guide Bushing	Stellite #6			Fittings	DOUBLE-FERRULES
	Stem	660 SS (5/8")		Color	Body	RED
	Gasket	P#2600-H00-M			Yoke	RED
	Gland Packing	P#6610/ P#6710			Act'r Case	RED
	Gland O-ring	-			Handwheel	RED
	Seal Ring	Press. energized PTFE	SERVICE CONDITION	Fluid		
ACTUATOR	Conical Spring	-		Case		
	Flow to	CLOSE		MAX		
	Signal Increase to	-		NOR		
	Fail Position	LOCK (OPEN)		Flow Rate	Nm3/h	140283 46761
	Actuator Type	DIAPHRAGM		In. Press.	MPaG	16.29 16.29
	Size	# 16 (DIRECT) (A)		Out. Press.	MPaG	15.3 15.3
	Spring Range	0.040 - 0.205 MPa		Diff. Press.	MPa	0.99 0.99
	Supply Pressure	0.35 MPa		Temp.	°C	97 97
	Rated Travel	50.8mm (2")		Density	kg/Nm3	0.183 0.183
	Handwheel	YES (SIDE)		Calculated Cv		68.5 22
POSITIONER	Positioner Type	FOUNDATION FIELDBUS		Cv%/Signal%		49 / 82 16 / 53 /
	Model No.	SEE BELOW		Predicted SPL(dBA)		82 79
	Input	Open 100 %		Shutoff Pr.	MPaG	P1 20.79 P2 0
	Signal	Close 0 %		Des. Press.	MPaG	18.9
	Elec. Conn.	1/2"NPT		Des. Temp.	°C	- Max 200
	Elec. Class	IIIGD EEx ia IIC T4				
	Model	-				
	In./Out. Signal	-				
	Elec. Conn.	-				
	Elec. Class	-				
TRANSDUCER	Air Set	-				
	Mounting	-				
	Lubr.& Isol. Valve	Yes				
	Grease No.	D 955				
	Travel Stopper	-				
	□Max □Min	-				
ACCESS.						

Note

- To be Conformed to NACE MR0175-2002
- Positioner is provided by customer to DJL Factory

By M. Shibayama

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2011/04/28

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37-1

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CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-072

Item No. 39
 Date 2010/11/25
 Serial No. LE12A1190-13
 Quantity 1

BODY	Model No.	87-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	78-80S (LOCKUP)	x 1
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	0.35 MPa	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	3"				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	140	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec. Supply	-
					Elec. Conn.	-
					Elec. Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Flow to	CLOSE	SERVICE CONDITION	Air Piping	Elec. Conn.	-
	Signal Increase to	-			Elec. Class	-
	Fail Position	LOCK (OPEN)		Color	Sig./Supply	- / 1/4"NPT
	Actuator Type	DIAPHRAGM			Tube Mat'l	316 ST. ST. TUBE
	Size	# 16 (DIRECT) (A)			Fittings	DOUBLE-FERRULES
	Spring Range	0.040 - 0.205 MPa			Body	RED
	Supply Pressure	0.35 MPa			Yoke	RED
	Rated Travel	50.8mm (2")			Act'r Case	RED
	Handwheel	YES (SIDE)			Handwheel	RED
	Positioner Type	FOUNDATION FIELDBUS		Fluid cycle H2		
ACTUATOR	Model No.	SEE BELOW	01	Case MAX NOR		
	Input	Open 100 %		Flow Rate	Nm3/h	140283 46761
	Signal	Close 0 %		In. Press.	MPaG	16.29 16.29
	Elec. Conn.	1/2"NPT		Out. Press.	MPaG	15.6 15.6
	Elec. Class	IIIGD EEx ia IIC T4		Diff. Press.	MPa	0.69 0.69
	Model	-		Temp.	°C	97 97
	In./Out. Signal	-		Density	kg/Nm3	0.183 0.183
	Elec. Conn.	-		Calculated Cv		82.7 26.1
	Elec. Class	-		Cv%/Signal%		59 / 87 19 / 57 /
	Air Set	-		Predicted SPL(dBA)		75 75
POSITIONER	Mounting	-		Shutoff Pr.	MPaG	P1 20.79 P2 0
	Lubr.& Isol. Valve	Yes		Des. Press.	MPaG	18.9
	Grease No.	D 955		Des. Temp.	°C	- Max 200
	Travel Stopper	-				
	□Max □Min	-				
TRANSUCER						
ACCESS.						

Note

- To be Conformed to NACE MR0175-2002
- Positioner is provided by customer to DJL Factory

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2011/04/28

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39-1

/CDNA101

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CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-081

Item No. 40
 Date 2010/11/25
 Serial No. LE12A1190-14
 Quantity 1

BODY	Model No.	87-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	78-80S (LOCKUP)	x 1
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	0.35 MPa	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	3"				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	140	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec. Supply	-
					Elec. Conn.	-
					Elec. Class	-
				Limit Switch	Model No.	-
					Position	-
ACTUATOR	Body	ASTM A216 Gr-WCC	SERVICE CONDITION		Elec. Conn.	-
	Plug	630 (H1150D) SS			Elec. Class	-
	Seat Ring	316 SS HF Seat		Air Piping	Sig./Supply	- / 1/4"NPT
	Retainer or Cage	6 NM SS Cr. Plated			Tube Mat'l	316 ST. ST. TUBE
	Guide Bushing	Stellite #6		Color	Fittings	DOUBLE-FERRULES
	Stem	660 SS (5/8")			Body	RED
	Gasket	P#2600-H00-M			Yoke	RED
	Gland Packing	P#6610/ P#6710			Act'r Case	RED
	Gland O-ring	-			Handwheel	RED
	Seal Ring	Press. energized PTFE		Fluid	cycle H2	
POSITIONER	Conical Spring	-	OTHERS	Case	MAX	NOR
	Flow to	CLOSE		Flow Rate	Nm3/h	140283 46761
	Signal Increase to	-		In. Press.	MPaG	16.29 16.29
	Fail Position	LOCK (OPEN)		Out. Press.	MPaG	15.5 15.5
	Actuator Type	DIAPHRAGM		Diff. Press.	MPa	0.79 0.79
	Size	# 16 (DIRECT) (A)		Temp.	°C	97 97
	Spring Range	0.040 - 0.205 MPa		Density	kg/Nm3	0.183 0.183
	Supply Pressure	0.35 MPa		Calculated Cv		77 24.5
	Rated Travel	50.8mm (2")		Cv%/Signal%		55 / 85 17 / 55 /
	Handwheel	YES (SIDE)		Predicted SPL(dBA)		78 78
TRANSDUCER	Positioner Type	FOUNDATION FIELDBUS	OTHERS	Shutoff Pr.	MPaG	P1 20.79 P2 0
	Model No.	SEE BELOW		Des. Press.	MPaG	18.9
	Input	Open 100 %		Des. Temp.	°C	- Max 200
	Signal	Close 0 %				
	Elec. Conn.	1/2"NPT				
	Elec. Class	IIIGD EEx ia IIC T4				
	Model	-				
	In./Out. Signal	-				
	Elec. Conn.	-				
	Elec. Class	-				
ACCESS.	Air Set	-	OTHERS			
	Mounting	-				
	Lubr.& Isol. Valve	Yes				
	Grease No.	D 955				
	Travel Stopper	-				
	□Max □Min	-				

Note

- To be Conformed to NACE MR0175-2002
- Positioner is provided by customer to DJL Factory

CONTROL VALVE SPECIFICATIONS



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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-082

Item No. 41
 Date 2010/11/25
 Serial No. LE12A1190-15
 Quantity 1

BODY	Model No.	87-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	78-80S (LOCKUP)	x 1
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	0.35 MPa	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	3"				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	140	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec. Supply	-
					Elec. Conn.	-
					Elec. Class	-
				Limit Switch	Model No.	-
					Position	-
ACTUATOR	Body	ASTM A216 Gr-WCC	SERVICE CONDITION		Elec. Conn.	-
	Plug	630 (H1150D) SS			Elec. Class	-
	Seat Ring	316 SS HF Seat		Air Piping	Sig./Supply	- / 1/4"NPT
	Retainer or Cage	6 NM SS Cr. Plated			Tube Mat'l	316 ST. ST. TUBE
	Guide Bushing	Stellite #6		Color	Fittings	DOUBLE-FERRULES
	Stem	660 SS (5/8")			Body	RED
	Gasket	P#2600-H00-M			Yoke	RED
	Gland Packing	P#6610/ P#6710			Act'r Case	RED
	Gland O-ring	-			Handwheel	RED
	Seal Ring	Press. energized PTFE		Fluid	cycle H2	
POSITIONER	Conical Spring	-	OTHERS	Case	MAX	NOR
	Flow to	CLOSE		Flow Rate	Nm3/h	140283 46761
	Signal Increase to	-		In. Press.	MPaG	16.29 16.29
	Fail Position	LOCK (OPEN)		Out. Press.	MPaG	15.4 15.4
	Actuator Type	DIAPHRAGM		Diff. Press.	MPa	0.89 0.89
	Size	# 16 (DIRECT) (A)		Temp.	°C	97 97
	Spring Range	0.040 - 0.205 MPa		Density	kg/Nm3	0.183 0.183
	Supply Pressure	0.35 MPa		Calculated Cv		72.3 23.1
	Rated Travel	50.8mm (2")		Cv%/Signal%		52 / 83 17 / 54 /
	Handwheel	YES (SIDE)		Predicted SPL(dBA)		80 79
TRANSDUCER	Positioner Type	FOUNDATION FIELDBUS	OTHERS	Shutoff Pr.	MPaG	P1 20.79 P2 0
	Model No.	SEE BELOW		Des. Press.	MPaG	18.9
	Input	Open 100 %		Des. Temp.	°C	- Max 200
	Signal	Close 0 %				
	Elec. Conn.	1/2"NPT				
	Elec. Class	IIIGD EEx ia IIC T4				
	Model	-				
	In./Out. Signal	-				
	Elec. Conn.	-				
	Elec. Class	-				
ACCESS.	Air Set	-	OTHERS			
	Mounting	-				
	Lubr.& Isol. Valve	Yes				
	Grease No.	D 955				
	Travel Stopper	-				
	□Max □Min	-				

Note

- To be Conformed to NACE MR0175-2002
- Positioner is provided by customer to DJL Factory

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2011/04/28

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41-1

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Customer DRAGON AROMATICS (ZHANGZHOU)
DRAGON AROMATICS (ZHANGZHOU)
 Tag No. 21-TV-083

Item No. 43
 Date 2010/11/25
 Serial No. LE12A1190-16
 Quantity 1

BODY	Model No.	87-41325	ACCESSORIES	Air Set	78-40	x 1
	Body Type	GLOBE		Booster Relay	-	
	Rating	ASME CLASS 1500		Transfer Valve or	78-80S (LOCKUP)	x 1
	End Connection	RTJ		Lock Up Valve	-	
	Flange Face Finish	AS PER STANDARD		Set Press.	0.35 MPa	
	Bonnet Type	STANDARD		Volume Tank	-	
	Body Size	DN80				
	Trim Size	3"				
	Trim Form	CAGE				
	Characteristic	EQ%				
MATERIAL	Rated Cv	140	OTHERS	Solenoid Valve	Model No.	-
	Leakage Spec.	CLASS 4			Energized	-
					De-Energized	-
					Manual Reset	-
					Terminal Box	-
					Elec. Supply	-
					Elec. Conn.	-
					Elec. Class	-
				Limit Switch	Model No.	-
					Position	-
ACT'N	Body	ASTM A216 Gr-WCC	SERVICE CONDITION		Elec. Conn.	-
	Plug	630 (H1150D) SS			Elec. Class	-
	Seat Ring	316 SS HF Seat		Air Piping	Sig./Supply	- / 1/4"NPT
	Retainer or Cage	6 NM SS Cr. Plated			Tube Mat'l	316 ST. ST. TUBE
	Guide Bushing	Stellite #6		Color	Fittings	DOUBLE-FERRULES
	Stem	660 SS (5/8")			Body	RED
	Gasket	P#2600-H00-M			Yoke	RED
	Gland Packing	P#6610/ P#6710			Act'r Case	RED
	Gland O-ring	-			Handwheel	RED
	Seal Ring	Press. energized PTFE		Fluid	cycle H2	
ACTUATOR	Conical Spring	-	01	Case	MAX	NOR
	Flow to	CLOSE		Flow Rate	Nm3/h	140283 46761
	Signal Increase to	-		In. Press.	MPaG	16.29 16.29
	Fail Position	LOCK (OPEN)		Out. Press.	MPaG	15.3 15.3
	Actuator Type	DIAPHRAGM		Diff. Press.	MPa	0.99 0.99
	Size	# 16 (DIRECT) (A)		Temp.	°C	97 97
	Spring Range	0.040 - 0.205 MPa		Density	kg/Nm3	0.183 0.183
	Supply Pressure	0.35 MPa		Calculated Cv		68.5 22
	Rated Travel	50.8mm (2")		Cv%/Signal%		49 / 82 16 / 53 /
	Handwheel	YES (SIDE)		Predicted SPL(dBA)		82 79
POSITIONER	Positioner Type	FOUNDATION FIELDBUS		Shutoff Pr.	MPaG	P1 20.79 P2 0
	Model No.	SEE BELOW		Des. Press.	MPaG	18.9
	Input	Open 100 %		Des. Temp.	°C	- Max 200
	Signal	Close 0 %				
	Elec. Conn.	1/2"NPT				
	Elec. Class	IIIGD EEx ia IIC T4				
	Model	-				
	In./Out. Signal	-				
	Elec. Conn.	-				
	Elec. Class	-				
TRANSDUCER	Air Set	-				
	Mounting	-				
	Lubr. & Isol. Valve	Yes				
	Grease No.	D 955				
	Travel Stopper	-				
	□Max □Min	-				
ACCESS.						

Note

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2011/04/28

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43-1

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