

AIRA EURO AUTOMATION PVT. LTD.

F-MKT-02-07A REV.01

W.O. No	BA-0679-KS-01			W.O. Date	01-01-26	 VALVE AUTOMATION
OA No	BA-0679			Department	AIRA WARE HOUSE (B)	
Customer PO No	4010045531	PO Date	26-12-25	Received		
Amended		Amended No		Amended Date		
Valve Type	PNEUMATIC OPERATED 2 PC 2 WAY BALL VALVE					
Item Description	"AIRA" MAKE PNEUMATIC DOUBLE ACTING ACTUATOR OPERATED / SS 304 BODY & SS 316L BALL / GFT SEAT / 2 PC 2 WAY / FLANGED END 150# BALL VALVE WITH FITTED ACCESSORIES:					
Media / Application	WATER					

Service Conditions

Sr. No.	Service Condition	Units	Max	Norm	Min	Sr. No.	Size	MATERIAL CODE	Qty
1	Flow Rate	KG/HR				1	40 MM	26000633	5
2	Working Pressure	Kg/Cm2	10 KG/CM2						
3	Design / Shut Off pressure	Kg/Cm2	AS PER 150#						
4	Working Temperature	Deg C	UPTO 200 DEG.C						
5	* Required Cv								
6	* Travel								
7	Allowable/*Predicted Spl	dBA							

LINE

1	ITEM NO.	1
2	ITEM TYPE	2 PC 2 WAY F/E BALL VALVE 150#
3	SIZE	40 MM
4	LEAKAGE CLASS	CLASS VI

OTHER

5	End CONNECTION	FLANGED END 150#
6	OPERATING TYPE	ACTUATOR OPERATED
7	MANUFACTURING STD.	BS EN 17292
8	TESTING STD.	BS EN 12266-1

MATERIAL OF CONSTRUCTION

9	BODY/BONNET	ASTM A 351 GR. CF8 (SS 304)
10	GATE/BALL/DISC	ASTM A 351 GR. CF3M (SS 316L)
11	STEM	AISI 316 / AISI 316L
12	GASKET//BODY SEAT RING	STD
13	SEAT/DISC SEAL	GFT
14	HANDLE MOC	STD
15	STUD-NUT	STD
16	SPRING	STD
17	ACTUATOR	DOUBLE ACTING

TEST

18	NON DSTRUCTIVE TEST	
19	PAINTING	
20	PACKING	
21	REF. STD. DESIGN NO.	
22	APPLICABLE LEGAL REG.	
23	API MONOGRAM MARKING	
24	APPROVAD DRAWING	
25	INSPECTION	
26	APPROVED QAP	

POSITIONER

27	MODLE	
28	MAKE	
29	TYPE	
30	INPUT SIGNAL	
31	OUTPUT FEED BACK	
32	ENCLOSURE	

ACTUATOR

33	Type	RACK & PINION TYPE
34	Model	STD
35	Size/TORQUE AT 4 BAR	
36	Supply Connection	1/4" NPT(F)
37	Travel/ Rotation	90 °
38	Action Open/Close	
39	Actuator Operation	DOUBLE ACTING
40	Fail Safe Condition	STAYPUT
41	Supply Pressure	5 BAR
42	Signal Range	STD
43	Handwheel (MO)	NO

SOLENOID VALVE

44	Type	5/2 WAY NAMUR TYPE SINGLE COIL SOV
45	Make	ROTEX
46	Model	51424-6-2R+I-24VDC-16
47	Enclosure	WEATHERPROOF IP 67
48	Power supply	24 V DC
49	Body Matrial	ALUMINUM
50	Operating Pressure KG/CM2	2 TO 10 BAR
51	Manual over ride	PROVIDED (PUSH BUTTON TYPE)
52	Supply Connection	1/4" NPT(F)
53	Cable Entry	STD

LIMIT SWICTH/ PROXIMITY

54	Make	HONEY WELL
55	Qty	2 NOS.
56	TYPE	CONTACT
57	Enclosure	WEATHER PROOF IP 67
58	Contact	1 NO + 1 NC (SPDT TYPE)
59	Power supply	STD

AIR SET

60	Mfr. & Model	YES
61	QTY	1 NOS.
62	Set Pressure	STD
63	Filter	YES
64	Gauges	YES
65	Connection	STD

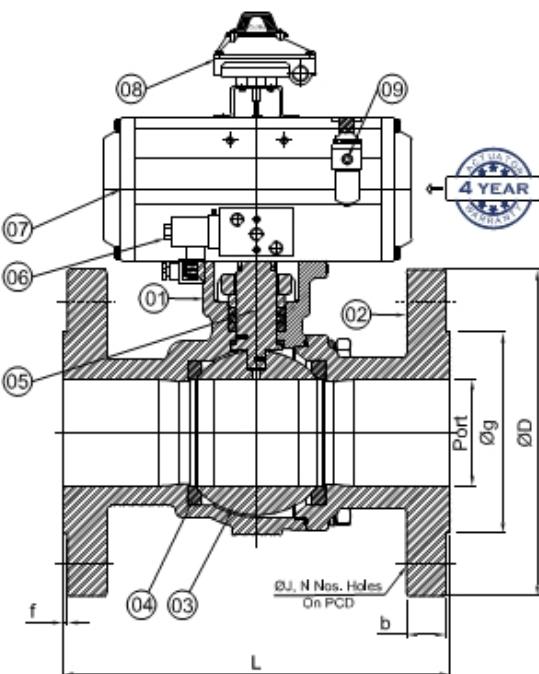
OTHER

66	TUBING & FITTING	
67	Actuator Nuts & Bolts	
68	COMPANION FLANGE	
69	FASNER AND GASKET	

Last Revision : TECHINCAL ISSUE - 01-01-2026 02:29 PM
Note : AS PER LAST WO NO: BA-0457 / 07-07-25
KISHAN SOLANKI
PREPARED BY
BHARAT SOLANKI

7567860302

AUTHORISED SIGNATORY

REVISION	00	aira Euro automation pvt. ltd. PNEUMATIC ROTARY ACTUATOR WITH 4 YEARS WARRANTY "APPROVALS" :- ATEX, SIL-3 & CE (ONLY ON ACTUATORS) MADE IN INDIA																																															
											<p>"AIRA" MAKE BALL VALVE DETAIL:-</p> <p>TYPE OF VALVE BODY & BALL : ON/OFF TYPE, 2 PIECE, 2 WAY DESIGN BALL VALVE</p> <p>WORKING TEMPERATURE : 200° C</p> <p>WORKING PRESSURE : 10 BAR</p> <p>PRESSURE RATING : 150#</p> <p>END CONNECTION : FLANGED END AS PER ASME B 16.5 150#</p> <p>LEAKAGE CLASS : CLASS VI</p> <p>SERVICE : WATER</p> <p>SPECIAL NOTE:- PLS NOTIFY WHEN USING IN VACUUM SERVICE ALSO INFORM VACUUM PRESSURE mbar / torr / mm of hg</p> <p>"AIRA" MAKE ACTUATOR DETAIL(CE-ATEX & SIL3 APPROVED):-</p> <p>METHOD OF TRANSMISSION : DOUBLE RACK AND PINION TYPE</p> <p>DOUBLE ACTING : AIR TO OPEN & AIR TO CLOSED AIR FAIL TO STAY PUT</p> <p>BODY : EXTRUDED ALUMINUM HARD ANODIZED</p> <p>CAPS AND RACK : ALUMINUM PRESSURE DIE CAST</p> <p>PINION : EN 8</p> <p>SEALS : BUNA - N</p> <p>AIR PRESSURE : NORMAL AIR SUPPLY PRESSURE -5KG/CM² MAX. AIR SUPPLY PRESSURE -7KG/CM²</p> <p>ACTUATOR DESIGN : ISO 5211 (ACTUATOR CAN BE QUICKLY AND EASILY MOUNTING)</p> <p>ACTUATION : 90°-QUARTER TURN</p> <p>AIR CONNECTION : 1/4"NPT (F)</p> <p>"AIRA" MAKE MICRO LIMIT SWITCH BOX WITH DOWNTYPE ON OFF INDICATOR. DETAILS:- (CE-CIMFR APPROVED)</p> <p>SENSING ELEMENT : CONTACT TYPE MICRO LIMIT SWITCH ENCLOSURE OF AIRA MAKES</p> <p>NO. OF CONTACTS : 2 NOS-NC SWITCH FITTED AS (1 NO + 1 NC - SPDT TYPE)</p> <p>ENCLOSURE : WEATHER PROOF IP 67</p> <p>5/2 WAY NAMUR STANDARD SINGLE COIL - SOLENOID VALVES :-</p> <p>MAKE OF COIL : "ROTEX"</p> <p>END CONNECTIONS : 1/4" NPT (F)</p> <p>OPERATING PRESSURE : 2 TO 10 BAR</p> <p>COIL VOLTAGE : 24 V DC</p> <p>COIL ENCLOSURE : WEATHER PROOF IP 67</p> <p>VALVE STANDARD:- DESIGN AND MANUFACTURING : BS EN ISO 17292 VALVE FACE TO FACE DIM. : ASME B 16.10 FLANGE STANDARD CONFORMITY : AS PER ASME B 16.5 150# INSPECTION & TESTING STANDARD : BS EN 12266-1</p> <p>TESTING DETAIL:- HYDRAULIC TEST PRESSURE : 30 BAR(G) VALVE BODY : 22 BAR(G) SEAT : 07 BAR(G) PNEUMATIC TEST PRESSURE :</p>																																						
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DRAWN BY	CHD. BY	APPD. BY	DATE	All changes must be rechecked. Dimensions in mm.									aira Euro automation pvt. ltd. AHMEDABAD-382405 INDIA	TITLE: DIM. DRG. OF 25,40MM DIA. ACTUATOR OPERATED BALL VALVE F/E:150# WITH ACC.																																			
RAESH			23/08/2024	PO NO	PO DATE	SCALE																																											
SHEET:	01 OF 01		4010036349	05/07/2024	NTS.																																												
DRG. NO.	AEAPL-DRG-24 OKM-BV-221.dwg		CLIENT NAME :																																														
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