YOUR SOLUTION PARTNER IN ATVF AUTOMATION...



KNIFE EDGE **GATE VALVES**

Bi-Directional























aira Euro automation pvt. ltd.

www.airaindia.com

INDIA































We welcome and thank you for referring out detailed catalogue.

aira is know all over continents as a manufacturer of quality products - Ball Valves, Butterfly Valves, Plug Valves, & Control On / Off Valves with Pneumatic Actuators for Pharma, Oil & Gas, Steel, Paper, Water, Chemical and all type of processing industries.

aira has walked through more than 3 decades, gaining valuable experience, offering equipment's in the products manufactured by OEMs in all spheres of engineering. aira products have gained reputations of consultants, and approvals of users, OEMs and other as a quality product.

aira has expanding business into foreign markets specially GCC, UAE, Asian & African countries. This is because increase its customer base and revenue, leading to overall growth and success. Now foreign users come to know and believe in the services provided by the aira. Along with the same, it also helps to reach a large number of users thereby leading to the increase their business.

Being and ISO 9001 BVQI certified company has put aira in fore front. Out motto is "Value the customer" and "Superior product", one among the best in the world.

Our Quality

- In-House full scale testing facility.
- Lean manufacturing practices
- Certified by: ISO 9001: 2015 (BVQI LONDON), CE, ATEX, CIMFR, BIS, PESO, SIL 3, IBR

Our Commitment

- To understand customer's need first before proposing our products.
- To keep on providing competitive rate's by adapting to continuous process improvement, without compromising on quality.
- To provide continuous support to our customers and go beyond their expectations in terms of delivery and after sale services.

Our Manufacturing Facility

 In house R & D, manufacturing and testing facility is all located in a spread over three campuses at Ahmedabad, Gujarat, INDIA.

Network - Sales Office

- 60 Plus Branch Offices in different states in India.
- Sales office in the Bangladesh, Dubai, Kenya, Malaysia, Nepal, Qatar, Singapore, South Africa, Sri Lanka, Turkey, USA (Expanding).

























CERTIFICATIONS

VALVE AUTOMATION

QMS (Quality Management) System)

ISO 9001: 2015

EMS

(Environment Management System)

ISO 14001: 2015

OHSAS (Occupational Health

& Safety Management System)

ISO 45001: 2018

IBR

PISTON VALVE GLOBE CONTROL VALVE (CKD/CND) DISC CHECK VALVE (DCV) PRESSSURE REDUCING VALVE (PRV) POP TYPE SAFETY VALVE BALL VALVE

Pneumatic Actuator

CE /

ATEX /

EXIDA SIL-3 / PROOF OF DESIGN Scotch & Yoke Actuator

CE / ATEX / SIL-3



Stainless Steel Actuator

CE / **IEP ATEX**



Positioner Enclosure

CE / CIMFR / IP67 / BIS / PESO



aira's

SOME OF OUR

Plug Valve

FUGITIVE EMISSIONS

AS PER ISO 15848-1 / IBR



Flameproof Solenoid Valve

IEP ATEX / CE / CIMFR / IP65/ IP67 / IP68 / BIS / PESO

Limit Switch

IEP ATEX / CE / CIMFR / IP67 / BIS / PESO / EQDC IP68

Ball Valve (Floating & Trunnion)

FIRE SAFE TEST DESIGN / FUGITIVE EMISSIONS TEST AS PER ISO 15848-1 / CE / PED / EXIDA SIL-3



Butterfly Valve (centric / Double) & Triple Eccentric)

FIRE SAFE TEST DESIGN / FUGITIVE EMISSIONS TEST AS PER ISO 15848-1 / CE / PED / EXIDA SIL-3 / IBR / PROOF OF DESIGN / FOOD GRADE / BIS / ISI



Multiport Ball Valve

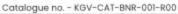
FUGITIVE EMISSIONS TEST AS PER ISO 15848-1 / CE PED / EIL





































KNIFE EDGE GATE VALVE **EXPLODED VIEW**

Bi-direcitional [BNR SERIES]

SR. NO.	PART NAME	MATERIAL	QTY.
1	Body	ASTM A536 Gr. 65-45-12 (Cast Iron,	1
		Cast Steel, Ductile Iron, S.S. 304 / 316)	
2	Gate	S. S. 304 / S. S. 316 / S. S. 316L / Duplex /	
		as per your request	
3	Seat	EPDM / NBR / Viton	1
		as per your request	
4	Gland Packing	PTFE Impregnated Synthetic Fiber	2
	Gasket	/ Graphite	
5	Gland	Gland ASTM A 536 Gr. 65-45-12 / Brass	
6	Stem	S. S. 304 / S. S. 316 / S. S. 316L / 410 /	1
		titanum / EN8	
7	Sleeve	Brass / Gun Metal / AB2	1
8	Bracket	M. S. / S. S.	1
9	Ring	S. S. 304 / S.S. 316	2
10	Hand Wheel	C. I. / Ductile Iron	1
11	Bush for Pipe	Plastic / Nylon	1
12	Pipe	M. S. / Plastic	1
13	Washer	Brass / Ab2 / Gun Metal	1
14	Sleeve Lock Nut	M. S. / S. S.	1
15	Fasners	M. S. / S. S.	

STANDARD FLANGE CONNECTION

DIN PN 10 and ANSI B16.5 (class 150)

Other Flange Connection Available On Request.

DIRECTIVES:

For EU Directives and other Certificates, please see the document: Directives and Certificates Compliance Knife Gate Valves-Catalogues and Datasheets

All valves are tested prior to shipping in accordance with the standard developed by the quality control department at "aira"

www.airaindia.com]





















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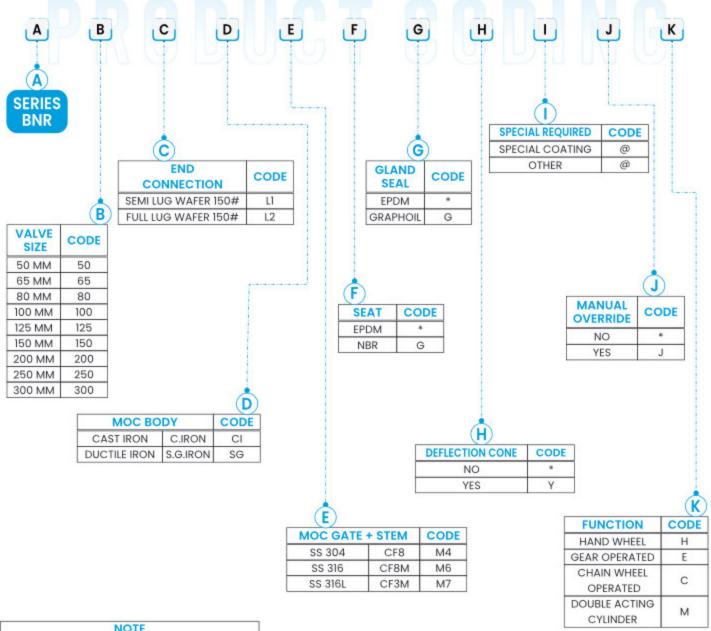
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PRODUCT CODING





NOTE					
SYMBOL	INDICATION				
@	Contact Factory.				
*	By Default, Do Not Mention.				

EXAMPLE-1	BNR 50L1CIM4H	KNIFE GATE VALVE SIZE 50MM SEMI LUG WAFER TYPE CAST IRON BODY CF8 GATE EPDM SEAT & GLAND SEAL HAND WHEEL OPERATED
EXAMPLE-2		KNIFE GATE VALVE SIZE 200MM FULL LUG WAFER TYPE CAST IRON BODY CF8M GATE EPDM SEAT & GRAPHOIL GLAND SEAL M.O. WITH DOUBLE ACTING CYLINDER OPERATED



























KNIFE EDGE GATE **VALVE FEATURES**

Bi Directional

OTHER MATERIALS

On request, the body and the gate can be supplied in other materials.

STEM

The standard stainless steel stem offers a long corrosion resistant life. For rising stem handwheel actuators only, a stem protector is provided for additional protection against dust while the valve is in the open position.

GATE

Standard AISI 304 stainless steel gate. The gate is polished on both sides for a greater seal between the gate with both packing and seat. The gate is fully guided in the body allowing for bi-directional service.

The material of the gate can be changed on request for higher pressure requirements.

PACKING

Standard PTFE impregnated synthetic fiber (st) with EPDM O-ring for better shut off, with an easy access packing gland ensuring a tight seal. Long-life braided packing is available in a wide range of materials.

SEAT: (RESILIENT)

Completely new design sleeve, slotted in the top half to allow the gate travel.

guaranteeing full fitness with low friction. The sleeve is held by means of two seat rings which support it and also guide the gate. The resilient seat is an elastomer sleeve, also available in different materials.

YOKE OR ACTUATOR SUPPORT

Made of EPOXY coated steel (stainless steel available on request). Compact design makes it extremely robust even under the most severe conditions.

BODY

Wafer-style cast monoblock faces and reinforcing ribs in large diameters for extra body strength. Full part design for greater flow capacity and minimal pressure drop. The internal body design avoids any accumulation of solids that would prevent the valve from closing. Flush ports may be added to allow for the cleaning of solids trapped within the body cavities that can obstruct the flow or prevent the valve from closing (purging can be made with air, steam, liquids, etc)These bi-directional knife gate valves are not suitable for dead-end service without a slight modification or a counter flange, please contact the Technical Department at aira

EPOXY COATING

The epoxy coating on all "aira" cast iron & carbon steel valve bodies and components is applied by means of an electrostatic process, making the valves corrosion-resistant with a high quality finished surface. The "aira" standard color is RAL-5015 blue.

ACTUATORS

All actuators supplied by "aira" are interchangeable, & supplied with a standard mounting kit for installation purposes on site. *Contact Factory for Actuator More Info.

























RESILIENT SEAT



SEAT MATERIALS

MATERIAL MAX. T (°C)		APPLICATIONS
EPDM (E)	120	Acids & Non Mineral Oils
Nitrile (N)	120	Resistance to Petroleum Products
FKM - FPM (v)	200	Chemical Service / High Temp.

More details & other material on request.

Resilient seat

The new seat is a slotted sleeve on its top half and includes a metal core in the bottom half which provides a great resistance to demanding working conditions and pressures. The seat is held by means of Two Stainless Steel Rings. This design provides water tightness in both directions while avoiding any buildup of solids that could prevent the valve from closing. The seat can be supplied In different resilient material qualities



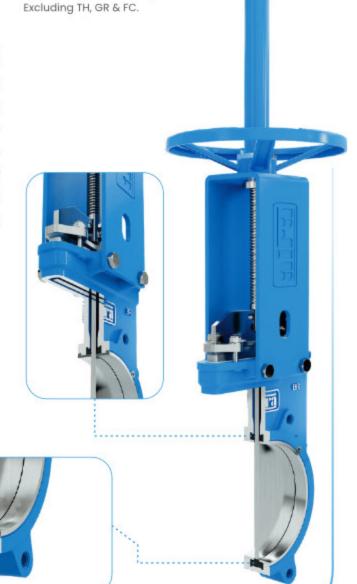


PACKING OPTIONS

(Same material as seal),

MATERIAL	MAX. T (°C)	PH	
PTFE Impregn. Synth. Fiber (ST)	250	2-3	
Braided PTFE (TH)	260	0 - 14	
Graphited (GR)	600	0 - 14	
Ceramic Fiber (FC)	1200	1	

Note: All types include an elastomere 'O' - Ring































VALVE AUTOMATION



AUTOMATION

Pneumatic (single & double acting)

Electric (rising & non-rising stem)

MANUAL

>Handwheel (rising stem)

Bevel Gear

Chainwheel

Fail Safe Systems

SINGLE ACTING/SPRING RETURN

Available From

Dn 50mm/2" To Dn 300mm/12"

Supply Pressure

Min.5 Bar-max.10 Bar

Options

- Pneumatic Or Electric Fail Open
- Pneumatic Or Electric Fail Close
- Other Options On Request

DOUBLE ACTING WITH AIR TANK

Available for all valve sizes

Supply pressure

min.3.5bar - max. 10 bar

Options

- Pneumatic or electric fail open
- Pneumatic or electric fail close
- Other options on request

Mechanical stops

Locking device

Manual override

Solenoid valves

Positioners

Limit switches

Proximity switches

Floor stands

Stem extensions

Wide Range of valve Extensions Available

www.airaindia.com Catalogue no. - KGV-CAT-BNR-001-R00











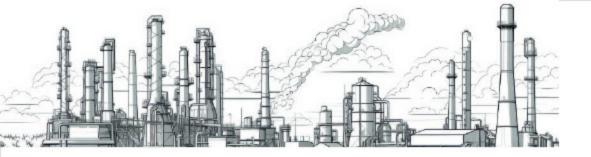












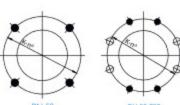


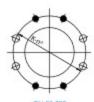
VALVE MOUNTING Details

EN 1092-2 PN10

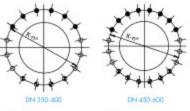
SIZE (DN)	Nº	K	M		1 🗘 🖯
50	4	125	M-16	11	4-0-0
80	8	160	M-16	11	4-4-0
100	8	180	M-16	11	4-4-0
125	8	210	M-16	11	4-4-0
150	8	240	M-20	14	4-4-0
200	8	295	M-20	14	4-4-0
250	12	350	M-20	14	6-6-0
300	12	400	M-20	18	6-6-0
350	16	460	M-20	22	6-6-4
400	16	515	M-24	25	6-6-4
450	20	565	M-24	25	8-6-6
500	20	620	M-24	25	8-6-6
600	20	725	M-27	25	8-6-6

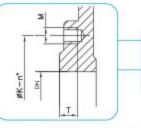
All dimensions are in mm









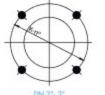




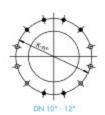
ANSI B16.5, CLASS 150

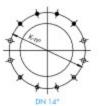
SIZE (DN)	Nº	K	M		$\oplus \oplus \oplus$
2"	4	4%"	5/8"-11 UNC	3/8"	4-0-0
3*	4	6"	5/8"-11 UNC	3/8"	4-0-0
4"	8	7½"	5/8"-11 UNC	3/8"	4-4-0
5"	8	8½"	3/4"-10 UNC	3/8"	4-4-0
6"	8	91/2"	3/4"-10 UNC	1/2"	4-4-0
8"	. 8	11%"	3/4"-10 UNC	1/2"	4-4-0
10"	12	14%"	7/8"-9 UNC	1/2"	6-6-0
12"	12	17"	7/8"-9 UNC	3/4"	6-6-0
14"	12	18%"	1"-8 UNC	7/8"	4-4-4
16"	16	21¼"	1"-8 UNC	1"	6-6-4
18"	16	22%"	11/8"-7 UNC	1"	6-6-4
20"	20	25	11/8*-7 UNC	1"	8-6-6
24"	20	29½"	11/8"-7 UNC	1"	8-6-6

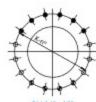
All dimensions are in inch













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PNEUMATIC CYLINDER OPERATED KNIFE EDGE GATE VALVE

Bi directional

Our bi-directional knife edge gate valve, operated by a pneumatic cylinder, ensures precise flow control and reliability in demanding applications. Engineered for durability and efficiency, it excels in handling clean media such as water, oil, solvents and air. Trust aira for advanced valve solutions that meet industrial needs.



THE STANDARD PNEUMATIC ACTUATOR (DOUBLE ACTING ON-OFF CYLINDER) CONSISTS OF:

- Aluminum end covers / CI / SGI
- Stainless Steel (AISI 304) piston rod
- Nitrile coated steel piston
- Supply Pressure : Min. 3.5 Bar Max. 10 Bar. Actuator designed with 6 Bar air supply.
- For valves installed in a horizontal position, We recommend U-type support plates and / or actuator support.

OPTIONS

- Hard anodized barrel and covers
- Stainless Steel barrel and covers
- Over / Undersized cylinder
- Manual Override
- Fail safe system
- Travel stops

INSTRUMENTATION (ON REQUEST):

request

SIZE RANGE DN 50 TO DN 2000

**Air receiver tank also can be

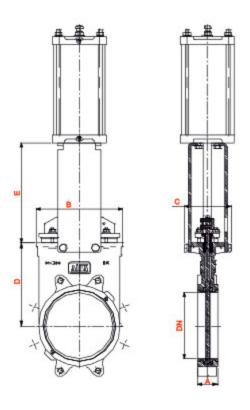
provided based on the customer

- Positioners
- Solenoid Valves
- Flow Regulators
- Air Preparation Units

SIZE in mm	WORKING PRE.
50 to 250	10 bar
300 to 400	6 bar
450	5 bar
500 to 600	4 bar

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SIZE (DN) in mm	Ā	В	C	D	E	STANDARD Cyl.	AIR Connection
50	45	124	125	105	129	C100-62	¼"G
65	45	139	125	115	145	C100-85	¼"G
80	50	149	125	124	162	C100-95	¼"G
100	50	169	125	142	187	C100-115	¼"G
125	50	190	125	165	211	C125-143	¼"G
150	60	217	125	190	237	C125-168	¼"G
200	60	268	142	250	309	C160-220	¼"G
250	70	356	142	308	364	C200-270	3/8°G
300	70	396	142	360	414	C200-320	3/8"G
350	96	429	197	348	500	C250-375	3/8"G
400	100	472	197	398	550	C250-425	3/8"G
450	106	527	270	442	600	C300-475	½"G
500	110	592	270	495	660	C300-525	½"G
600	110	695	270	590	760	C300-625	½"G

All dimensions are in mm 600 & Above On Request.



























GEAR OPERATED KNIFE EDGE GATE VALVE

Bi directional



Our bi-directional gear operated knife edge gate valve offers superior control and durability. Designed for clean water, oil, and air applications, it ensures reliable sealing and smooth operation. aira provides advanced valve solutions that meet the highest industrial standards.

SIZE RANGE DN 200 TO DN 2000

SIZE in mm	WORKING PRE.		
50 to 250	10 bar		
300 to 400	6 bar		
450	5 bar		
500 to 600	4 bar		

CONSISTS OF :

- Stem
- Stem Protector
- Bevel Gear Actuator with Handwheel
- Yoke

OPTIONS:

- Locking Device
- Extension
- Chainwheel
- Rising Stem & Non Rising Stem



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SIZE (DN) in mm	A	В	C	D	E	F	Н
200	60	268	142	250	305	625	775
250	70	356	142	308	360	738	888
300	70	396	142	360	410	840	990
350	96	429	197	348	490	913	1138
400	100	472	197	398	540	1013	1238
450	106	527	270	442	592	1109	1334
500	110	592	270	495	652	1222	1447
600	110	965	270	590	755	1420	1645

600 & Above On Request.

All dimensions are in mm

Catalogue no. - KGV-CAT-BNR-001-R00

























HAND WHEEL (RISING STEM) OPERATED KNIFE EDGE GATE **VALVE** Bi directional

SIZE RANGE DN 50 TO DN 2000

The hand wheel operated knife edge gate valve, bi-directional by design, offers exceptional control and longevity. Perfect for demanding environments, it guarantees full flow and bubble tight lock. aira delivers high-quality valve solutions for industrial excellence.



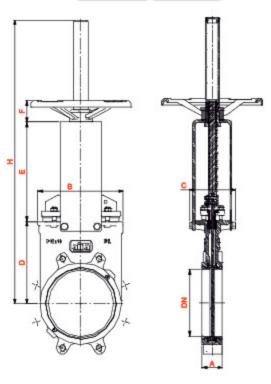
STANDARD MANUAL ACTUATOR CONSISTS OF:

- Handwheel
- Stem
- Stem Nut
- Stem Protector

OPTIONS

- Locking Device
- Extension
- Square nut drive
- Chainwheel

SIZE in mm	WORKING PRE.		
50 to 250	10 bar		
300 to 400	6 bar 5 bar		
450			
500 to 600	4 bar		



SIZE (DN) in mm	A	В	C	D	E	F	Н
50	45	124	125	105	144	63	430
65	45	139	125	115	145	63	454
80	50	149	125	124	177	63	480
100	50	169	125	142	202	63	570
125	50	190	125	165	226	63	615
150	60	217	125	190	252	63	670
200	60	268	142	250	317	73	870
250	70	356	142	308	372	73	1093
300	70	396	142	360	422	73	1187
350	96	429	197	348	509	98	-
400	100	472	197	398	559	98	-
450	106	527	270	442	611	98	-
500	110	592	270	495	671	98	-
600	110	695	270	590	771	98	-

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CHAINWHEEL OPERATED KNIFE EDGE GATE VALVE

Bi directional



Experience top-tier performance with our bi-directional chain wheel operated knife edge gate valve. Engineered for rugged environments, it provides reliable sealing and easy operation. Choose aira for innovative and durable valve technology.

SIZE RANGE DN 50 TO DN 2000

SIZE in mm	WORKING PRE.		
50 to 250	10 bar		
300 to 400	6 bar 5 bar		
450			
500 to 600	4 bar		

STANDARD MANUAL ACTUATOR CONSISTS OF:

- Handwheel
- Stem
- Stem Nut
- Stem Protector

OPTIONS

- Extension
- Square nut drive
- Chainwheel



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SIZE (DN) in mm	A	В	C	D	E	F	Н
50	45	124	125	105	144	63	420
65	45	139	125	115	145	63	454
80	50	149	125	124	177	63	480
100	50	169	125	142	202	63	570
125	50	190	125	165	226	63	615
150	60	217	125	190	252	63	670
200	60	268	142	250	317	73	870
250	70	356	142	308	372	73	1093
300	70	396	142	360	422	73	1187
350	96	429	197	348	509	98	-
400	100	472	197	398	559	98	-
450	106	527	270	442	611	98	-
500	110	592	270	495	671	98	-
600	110	695	270	590	771	98	-

600 & Above On Request.

DIMENCIONS

All dimensions are in mm

Catalogue no. - KGV-CAT-BNR-001-R00

























PNEUMATIC ROTARY **ACTUATOR ACCESSORIES**

AIR FR + L SETS 2PC WITH PRESSURE GAUGE



Model size body seals pressure temperature media

:JHFRCLM

:1/4", 3/8", 1/2", 3/4", 1" :Aluminium Pressure Die Cast

:NBR

:10kg/cm2 :50 C

:Compressed air

Pneumatic - Pneumatic & Electro Pneumatic LINEAR Valve Positioner



Model AEP-1000-LSN

Input Signal



Model APP-1200-LSN







Supply Air Pressure Standard Stroke Air Pipe Connection **Ambient Temperature** Degree of Protection **Out-put Characteristics**

Conduit Connection **Body Material**

Model

Type

: 3 ~ 15 (0.2 ~ 1.0 Kgf/cm3) : 100 psi Max. (7.0 Kgf/cm2)

: 10 ~ 80 mm : 1/4" NPT

: -20 °C to 70 °C : IP 65

: Linear : 1/2" NPT

: Aluminium Die Cast

SMART Positioner LINEAR





Model Body Set Point Signal

: 4 - 20mA DC **Ambient Temperature** : Normal Version : -20 °C ~ 70 °C Optional Version : -40 °C ~ 70 °C

: IP 6000 Series

: Aluminium

Supply Pressure : 0.14 - 0.7 MPa

Flow : 55L/min (Sup=0.14MPa)

Weatherproof Limit Switch Box



MMLS-BX-WP-01-B MMLS-BX-WP-01-C Switch

: Honeywell ZM / NJ2-V3-N / NBB-V3-Z4

: MMLS-BX-WP-01-A

: 1 NO + 1 NC / 2 Switch

: IP 67 Enclosure Protection Ambient : -20 °C to 80 °C

Temperature Conduit Entry : 1/2* - NPT Terminal : 8 Point

: Namur VDI / VDE3845 / Mounting Bracket ISO 5211

: Aluminium, S.S - CF8M Material

Flameproof Limit Switch Box



Model

: MLS-BX-FLP-01-A MLS-BX-FLP-01-B MLS-BX-FLP-01-C MLS-BX-FLP-01-D

: Honeywell V15 / Honeywell V 15 PCB Type / NCB2-V3-NO / NJ2-V3-N NBB-V3-Z4 / NBB3-V3-Z4

:1 NO +1 NC / 2 NO + 2 NC

2 Switch : IP 67

Enclosure Protection Ambient Temp. Conduit Entry

: -20 °C to 80 °C : 1/2" - NPT Terminal : 8 Point : Namur VDI / VDE3845 / Mounting

Bracket Material

ISO 5211 : Aluminium, S.S - CF8M

Weatherproof Limit Switch Box (Big Box)



Model : MLS-BX-01-A MLS-BX-01-B MLS-BX-01-C

MLS-BX-01-D : Honeywell V 15 / NJ2-V3-N / Switch

NBB-V3-Z4 / NCB2-V3-NO : 1 NO + 1 NC / 2 NO + 2 NC

: -20 °C to 80 °C

2 Switch : IP 67

Protection Ambient Temperature Conduit Entry

Enclosure

: 1/2" - NPT

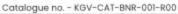
Terminal 8 Point Mounting Namur VDI / VDE3845 /

Bracket ISO 5211 Material : Aluminium, S.S - CF8M

CE





























PNEUMATIC ROTARY **ACTUATOR ACCESSORIES**



3/2 Way Internal Pilot Operated STAINLESS STEEL 316 Single Namur Solenoid Valve



Model Coil Voltage Frequency

Connection Type Conduit Coil Insulation Grade : Class "F" & "H"

Ambient Temp. MOC Seals Working Pressure

: MPT-S6-32 : All Std. Voltage Available

: 50 - 60 Hz :1/4" (NPT) : PF 1/2"

: -20 °C - 70 °C : ASTM A351 Gr. CFBM : NBR (Viton On Request) : Upto 2.5 to 10 Kg/cm²

5/2 Way Poppet Type STAINLESS STEEL 316 Single Namur Solenoid Valve



Model OTX-\$6-52 Coll Voltage : All Std. Voltage Available :50 - 60 Hz Frequency

:1/4" (NPT) Connection Type Conduit : PF 1/2" Coil Insulation Grade : Class "F" & "H"

: -20 °C ~ 70 °C Ambient Temp. : ASTM A351 Gr. CF8M MOC : NBR (Viton On Request) Seals Working Pressure : Upto 2.5 to 10 Kg/cm2

5/2 way single solenoid valve



2ADDS Model :1/4", 1/2"

body :Aluminium, S.S - CF8M :NBR / Nitrile seals :1 to 10kg/cm2 pressure temperature :5 to 50 C media :Compressed air (filtered & Lubricated)

3/2 way single solenoid valve



2ADDS Model :1/4", 1/2" size

body :Aluminium, S.S - CF8M :NBR / Nitrile seals :1 to 10kg/cm2 pressure :5 to 50 C temperature :Compressed air media (filtered & Lubricated)

2/2 & 3/2 Way Direct Acting Solenoid Valve



Model AMV, AJ :1/4" size

body :Aluminium Hard anodized :0 to 8kg/cm2 pressure media

:Compressed air (filtered & Lubricated)

Manual Direction Control Valve 5/2 Way Hand Lever Valve Spring Return



2ARMHLV Model :1/4", 1/2" size

body :Aluminium, S.S - CF8M :Upto 10kg/cm2 pressure :Compressed air media (filtered & Lubricated)

Filter + Regulator Air Combination



Model Air Connection Max. Supply

Pressure

: 1/4"

8FQ: 0.5 to 8 Kg / cm2 FRJ: 1 to 9 Kg/cm

Gauge Connection Ambient Temp.

Mini Filtering Size

Material

: 4FQ / 8 FQ / FRJ

: 4FQ: 0.5 to 4 Kg / cm3

: 1/8" : -20 °C ~ 70 °C

: 5 Micron

· SAIV

: Aluminium, Stainless steel - CF8M

Air Volume Booster



Model Size

MOC Seals : 1/4" to 1" : Aluminium, S.S - CF8M : NBR

: VLB

Supply Pressure : 10 Bar **Output Pressure** : 7 Bar Temperature :-20 °C~70 °C

Single & Double Air Lock Valve





Model Single Model Double

: DALV : 1/4" to 3/4" : Aluminium, S. S - CF8M MOC

Seals : 10 Bar Supply Pressure Output Pressure: 7 Bar : -20 °C ~ 70 °C

Manual Override Clutch Type (MO)



Model

Torque : 200 Nm to 10000 Nm : Aluminium . S. G. Iron, MS Body : Stainless Steel

Lever Wheel Hand Wheel

: S.S. / M.S. (Fabricated)

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Temperature



























MAIN MARKETS

Usage & Applications

Knife gate and slurry valves are rarely used where conventional valve designs such as gate, globe, ball, plug or butterfly valves would work well, in particular, these designs are seldom used in services involving clean liquids or gases as their limitations far outweigh the advantages. However, where solids (Free flowing powders), mixtures of liquids and solids. or solids and gases are involved, these valves provide superior functional features. and service life compared to conventional valve designs.

Knife gate and slurry valves are predominantly used for shut-off/isolation services as "On/Off" valves. They are seldom used to throttle flow or as control valves as the media they handle are not suitable for throttling However, few exceptions and some special designs do exist for these limited throttling applications. Major industrial sectors where these valves are applied are shown in Fig-5.

Liquid + solid

These mixtures occur in a variety of industries and form the primary area of use for knife gate and slurry valves, the mixtures vary widely in composition and are usu? ly referred to as sludge on slurry. Typically, sludge contains relatively soft solid components whereas slurry has harder and more abrasive solid components. The composition of the solid component may vary from very small percentages to as high as 70 percent. The solid component, may be present in the form of very fine powder or as a mixture of fine powder and coarse lumps. Most of these media remain homogeneous only when kept agitated and mixed well, when kept still (as in stagnant pipes or vessels)they tend to settle and form separate solid and liquid layers. Many of them dewater and harden on cement I the liquid component drains off in the service All these factors create challenges to the effective functioning of these vales

Solid (Powders)

Primary toe with powders are to extract materials rom storage vessels like silos. This application is used across a wide variety of industries.

Media handled

Typical types of media where these valves are used:

Solid (Powders) + Gas

Inmarty these applications ivolve pneumatic conveying systems winerspowders are transported, these also pocuracross many industreis

Some of the knife gate vale designs can handle high temperatures as well as thermal cycling better than other valve designs. Exhaust gas heat regeneration and carbon black processing are typical sectors with such services. examples of typical media that knife gate and slurry valves handle are:

Paper mil





Wastewater

Chemical



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>> Slurry / Sludge Lines

>> Processing Fluids &

>> Petroleum Products

Chemicals

Food & Beverage

Drain Processing

₩ Winery

Brewery **Grain**

>> Storage Silo >> Spent Grain

Wastewater

Chemical

>> Pellets

S Z















Pulp & Paper

- >> Paper Stock
- >> Liquor Services
- » Recycle Project

General Industry

- >> Pneumatic Conveyance
- >> Raw & Treated Water
- >> Water Conveyed Solids
- >> Dry Media / Cement
- >> Hot Gases

Power

- >> Fly Ash
- Bottom Ash
- Branch Lines

Steel

- >> Slog
- Iron or Slurry







































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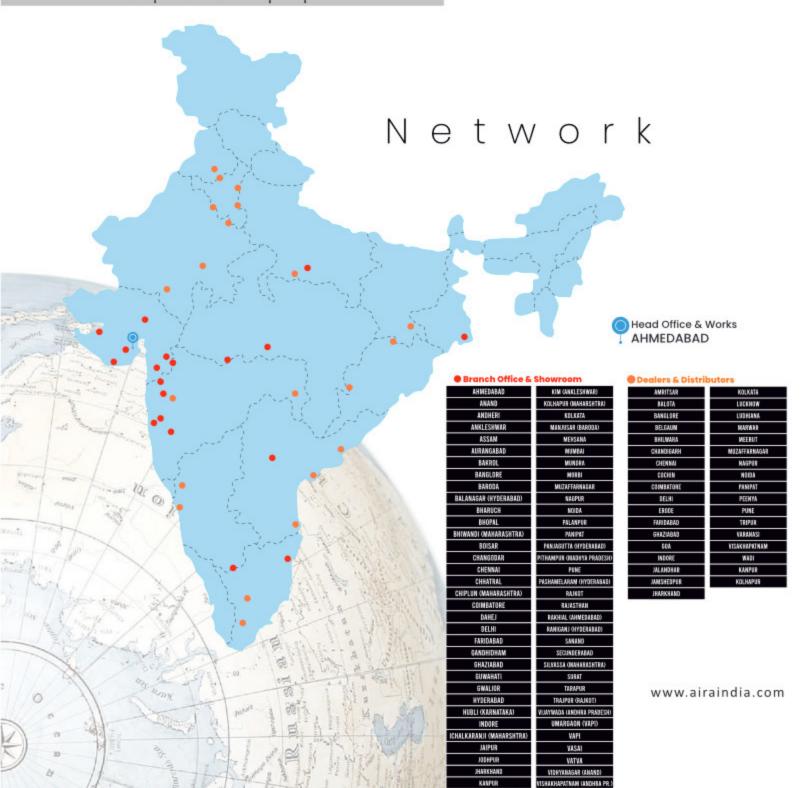
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