



**BULK SOLIDS
INTERCEPTION
TECHNOLOGY**

INTERCEPTING YOUR NEEDS



BULK SOLIDS

INTERCEPTION TECHNOLOGY

The flow of bulk solids may be intercepted with valves designed for controlled flow interception rates, under silos, hoppers, mechanical conveying systems or on pneumatic conveying lines.

The choice of the right valve for a specific application must be made after taking into consideration the following main factors:

- ✓ Physical and chemical characteristics of the material
- ✓ Air flow pressure in case of applications on pneumatic conveying lines
- ✓ Degree of sealing required
- ✓ Required flow section with valve completely open
- ✓ Overall dimensional limits if any
- ✓ Type of valve: process control valve, shut-off valve for maintenance
- ✓ How many operating cycles are required over the entire service life of the valve
- ✓ Legislation in force

The WAM® VALVE range consists of:

- Butterfly Valves
- Slide Gate Valves
- Feeding Slide Valves
- Diverter Flap Valves
- Ball Segment Valves
- Lump Breaking Valves

The nature of bulk solids such as particle size, abrasiveness, corrosiveness, tendency to contaminate, degradability and temperature influence the choice of valve material, as well as the surface treatment of the contact parts that may be subject to wear.



18

TEST
LABORATORIES



60

TRADING
SUBSIDIARIES



20

MANUFACTURING
PLANTS



THE WAM® “PLUS”

All valves are manufactured in our own facilities. We supply valves worldwide from **local production** facilities in Europe, Asia and the Middle East.

Thanks to WAMGROUP®'s **global test lab network** and trading subsidiaries we can serve customers around the globe, no matter where they are.

INDUSTRIES

More than five decades in bulk solids handling technology make us leverage our **vast experience** and **technical knowledge** to understand **customer needs** and provide the best possible solution with **superior convenience**. Our valves are highly regarded components in plastics, chemicals, feed and food, minerals, building and construction to name but a few.





MATCHING PRODUCTS

TO MARKET NEEDS

Our dedicated global and regional sales & marketing teams are focused on understanding what drives our customers' markets. We have a deep understanding of global and local industry trends and we use this information to create standardised system components that **address the needs of our customers.**

QUALITY ASSURANCE & AFTER-SALES SUPPORT

Quality assurance streamlines production and helps to ensure that our products meet the requirements of the market. We currently supply certified valves for food and ATEX applications. Our range of products is backed by a **worldwide technical support** service. Our experienced staff ensure that expertise is on hand to help overcome any issue as quickly as possible. Across our global network of subsidiaries, we deliver **global assistance at local level**.

FLOW INTERCEPTION

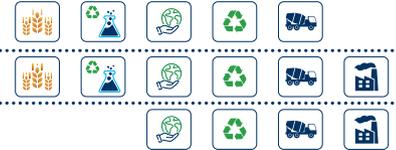
BUTTERFLY VALVES 8

FIT-FRAME BUTTERFLY VALVES VFP	10
BUTTERFLY VALVES VFS	14
"WAFER" BUTTERFLY VALVES VW	18
SILO CLOSURE BUTTERFLY VALVES VFF	22



SLIDE GATE VALVES 26

LOW PROFILE SLIDE GATE VALVES VIB	28
SLIDE GATE VALVES VL	32
SLIDE VALVES VG	36



BALL SEGMENT VALVES 40

BALL SEGMENT VALVES VSS	42
--------------------------------	----



FEEDER VALVES 46

INCLINED FEEDING SLIDE VALVES VDI	48
DOUBLE-FLAP VALVES VLDP	52
MULTIPLE CHOKE VALVES VPM	56



FLOW DIVERSION 60

DIVERTER FLAP VALVES DVA	62
---------------------------------	----



LUMP BREAKING 66

LUMP BREAKING FEEDER VALVES LBC	68
--	----



VALVE ACTUATORS 72

MANUAL LEVER ACTUATORS CM	74
LEVERS WITH EXTENSION CMP2	75
LEVERS WITH INDUCTIVE SENSOR PRESETTING CM51	76
HAND WHEELS WITH THREADED SHAFT CMG / CMGA	77
HAND WHEELS CMV	78
PNEUMATIC ROTARY ACTUATORS CPU	79
PNEUMATIC LINEAR ACTUATORS CPL	80
ELECTRIC ROTARY GEAR ACTUATORS AE / AR	81
ELECTRIC LINEAR GEAR ACTUATORS CRG / CRGA	83



Feed & Food



Plastics & Chemicals



Environmental



Recycling



Building & Construction



Heavy Industries



BUTTERFLY VALVES

“FIT-FRAME” BUTTERFLY VALVES **VFP**

10

BUTTERFLY VALVES **VFS**

14

“WAFER” BUTTERFLY VALVES **VW**

18

SILO CLOSURE BUTTERFLY VALVES **VFF**

22



VFP

Industry & Application



FEED & FOOD



PLASTICS & CHEMICALS



ENVIRONMENTAL



RECYCLING



BUILDING & CONSTRUCTION



WAM VALVES

VFP

“FIT-FRAME” BUTTERFLY VALVES



Features

- VFP2 with identical top and bottom flange (VFP1 featuring top flange only)
- Pressure-proof up to 0.6 bar (8.7 PSI)
- High-pressure die-cast aluminium-alloy semi bodies
- Disc in mild steel, SINT® engineering polymer or stainless steel
- Gaskets for standard or food-grade application
- Compatible with PN flanges (2.5/6 and 10/16 external indents)
- OR groove on flange
- Low overall height



Benefits

- Minimum contamination thanks to “FIT-FRAME”
- Highly abrasion-resistant interchangeable discs
- Easy to fit due to PN and ANSI flange compatibility
- Lightweight and easy to handle thanks to lowest possible overall height
- Ex-stock delivery from WAMGROUP® subsidiaries' warehouses worldwide
- Simple, time-saving maintenance thanks to few components
- Technical support and worldwide availability of spare parts thanks to the WAMGROUP® subsidiary network

ACTUATOR COMPATIBILITY



Manual Lever Actuator
CM



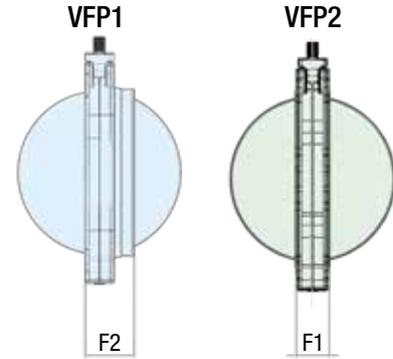
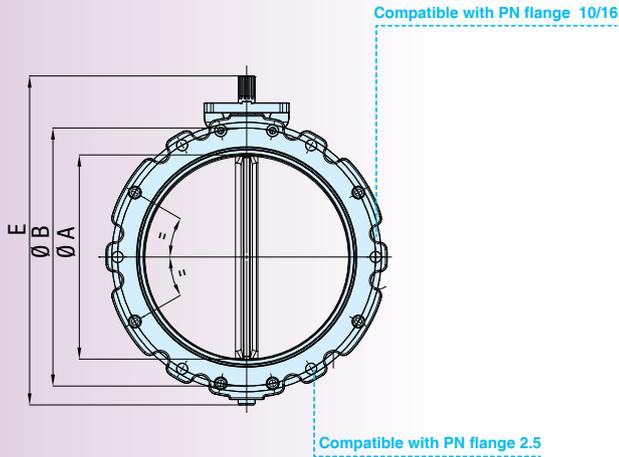
Pneumatic Rotary Actuator
CPU



Gear Motor Actuator
AE



Overall Dimensions



TYPE	Ø A	Ø B	E	F1	F2
VFP.100.	110	170	255	56	96
VFP.125.	136	200	285	56	96
VFP.150.	164	225	313	56	96
VFP.175.	190	250	336	56	96
VFP.200.	213	280	371	56	96
VFP.250.	267	335	427	56	96
VFP.300.	318	395	487	56	96
VFP.350.	377	445	556	68	108
VFP.400.	426	495	607	68	113
VFP.500.	522	600	712	76	-

Dimensions in mm



Options

- SINT®, mild steel or stainless-steel disc
- Anti-wear seal system
- Available with one or two flanges



ATEX version



Food-grade (EC 1935/2004 and FDA-compliant)

Please refer to product brochures and manuals for further technical details



VFS

Industry & Application



HEAVY
INDUSTRIES



ENVIRONMENTAL



RECYCLING



BUILDING &
CONSTRUCTION



PLASTICS &
CHEMICALS



VFS

BUTTERFLY VALVES



Features

- V1FS with top flange and beaded bottom section suitable for fixing of flexible sleeve
- V2FS with identical top and bottom flange
- WAM Standard coupling flanges
- Dust-tight and pressure-proof up to 0.2 bar (2.9 PSI)
- High-pressure aluminium alloy die-cast semi-bodies
- Disc in cast iron, SINT® engineering polymer, or stainless steel
- Gaskets for both standard and food-grade applications
- Few components
- Lightweight and easy to handle



Benefits

- Highly abrasion-resistant due to specific component design
- Interchangeable discs
- Ex-stock delivery from WAMGROUP® subsidiaries' warehouses worldwide
- Time-saving maintenance
- Easy to fit
- Optimum price-performance ratio
- Technical support and worldwide availability of spare parts thanks to the WAMGROUP® subsidiary network

ACTUATOR COMPATIBILITY



Manual Lever Actuator
CM



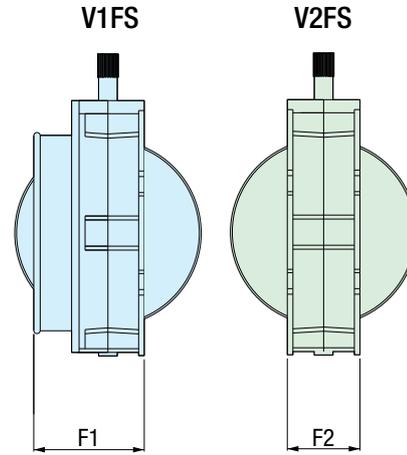
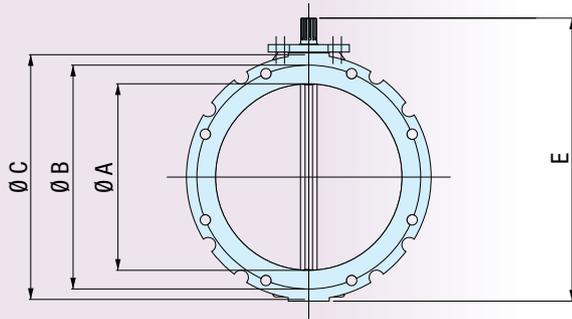
Pneumatic Rotary Actuator
CPU



Gear Motor Actuator
AE



Overall Dimensions



TYPE	Ø A	Ø B	Ø C	E	F1	F2
V.FS 100.	95	180	220	250	117	77
V.FS 150.	150	200	228	290	117	77
V.FS 200.	200	250	278	340	117	77
V.FS 250.	250	300	328	390	117	77
V.FS 300.	300	350	378	440	117	77
V.FS 350.	350	400	440	530	125	85
V.FS 400.	400	470	530	580	125	85

Dimensions in mm



Options

- SINT®, cast iron or stainless-steel disc
- Anti-wear seal system
- Available with one or two flanges



ATEX version



Food-grade (EC 1935/2004 and FDA-compliant)

Please refer to product brochures and manuals for further technical details



Learn more about this product



VW

Industry & Application



**PLASTICS &
CHEMICALS**



ENVIRONMENTAL



RECYCLING



**BUILDING &
CONSTRUCTION**



VW

“WAFER” BUTTERFLY VALVES



Features

- Gauge: EN 558 Series 20; ISO 5752; API 609
- Coupling flanges: DIN 2501 PN 2.5 / 6 / 10 / 16; ANSI B 16.5, class 150
- Coupling flange surface design: DIN 2526, form A
- Actuator coupling flange: DIN 5482
- Valve identification: DIN EN 19
- Leak test: EN 12 266-1, EN 12 266-2, A-grade
- Operating temperature: -20 °C ~ 90 °C [-4 °F ~ 194 °F]
- Differential pressure: max. 2.5 bar (36.3 PSI)
- Operating pressure: max. 2.5 bar (36.3 PSI)



Benefits

- Highly abrasion-resistant
- Short delivery time
- Easy to fit
- Interchangeable discs
- Quick maintenance
- Replaceable gasket
- Technical support and worldwide availability of spare parts through WAMGROUP® subsidiary network

ACTUATOR COMPATIBILITY



Manual Lever Actuator
CM



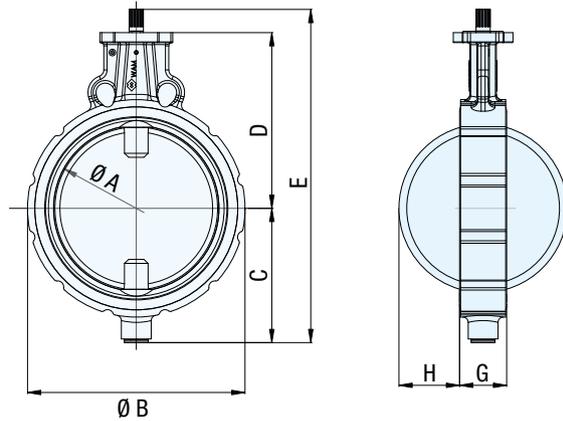
Pneumatic Rotary Actuator
CPU



Gear Motor Actuator
AE



Overall Dimensions



TYPE	Ø A	Ø B	C	D	E	G	H
VW 150	150	218	141	203	372	59	46
VW 200	200	272	167	228	423	63	68
VW 250	250	328	203	265	503	71	92
VW 300	300	378	228	291	552	81	110

Dimensions in mm



Options

- Mild-steel or stainless-steel discs

Please refer to product brochures and manuals for further technical details



VFF

Industry & Application



WAM[®] VALVES

VFF

SILO CLOSURE BUTTERFLY VALVES



Features

- Mild-steel frame and disc
- SINT® engineering polymer frame liner acting as dust-tight disc gasket
- Few components



Benefits

- Anti-wear SINT® engineering polymer body lining
- Ex-stock delivery from WAMGROUP® subsidiaries' warehouses worldwide
- Dust-tight thanks to special gasket geometry

ACTUATOR COMPATIBILITY

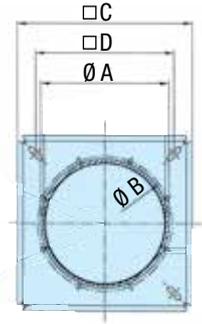
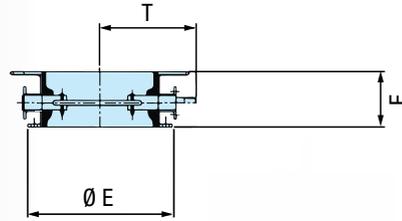


Manual Lever Actuator
CM



Overall Dimensions

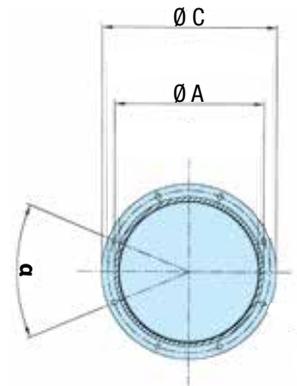
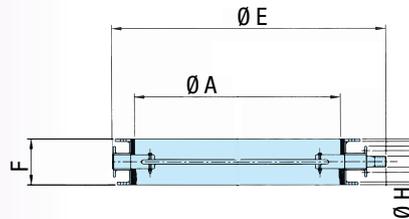
VERSION WITH SQUARE TOP AND ROUND BOTTOM FLANGE



TYPE	Ø A	Ø B	□ C	□ D	Ø E	F	T
V2FF 250 F14N	275	375	400	322	328	100	202
V2FF 300 F19N	325	400	450	370	378	100	210

Dimensions in mm

VERSION WITH ROUND TOP AND BOTTOM FLANGES



TYPE	Ø A	Ø C	Ø E	F	DIN 5482 Ø H	α
V2FF 250 F34N	265	328	400	100	22 x 19	45°
V2FF 300 F35N	315	378	450	100	22 x 19	45°
V2FF 500 F61N	560	620	688	200	28 x 25	45°

Dimensions in mm



Options

- Square top flange, circular bottom flange
- Identical circular top and bottom flange
- Swivel bottom flange

Please refer to product brochures and manuals for further technical details





SLIDE GATE VALVES

LOW-PROFILE SLIDE GATE VALVES **VIB**

28

SLIDE GATE VALVES **VL**

32

SLIDE GATE VALVES **VG**

36



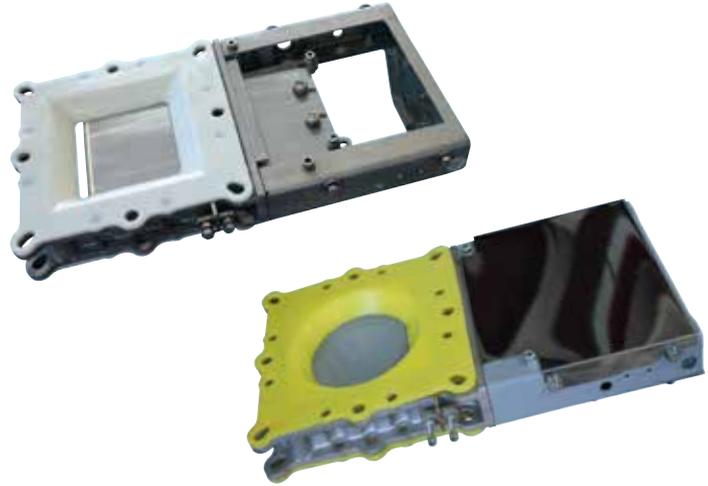
VIB

Industry & Application



VIB

LOW-PROFILE SLIDE GATE VALVES



Features

- PATENTED dustproof, friction-free design
- Compact: few components, minimum overall height
- Compatible with WAM® and CEMA flanges
- Wear compensating sealing system
- Semi-bodies in aluminium alloy
- Replaceable SINT® engineering polymer gaskets for both standard and food-grade applications



Benefits

- Problem-free assembly thanks to WAM® and CEMA flange compatibility
- Highly abrasion-resistant due to replaceable SINT® gasket
- No gasket adjustment required
- Easy integration into any process
- Technical support and worldwide availability of spare parts through WAMGROUP® subsidiary network

ACTUATOR COMPATIBILITY



Hand Wheel
CMGA



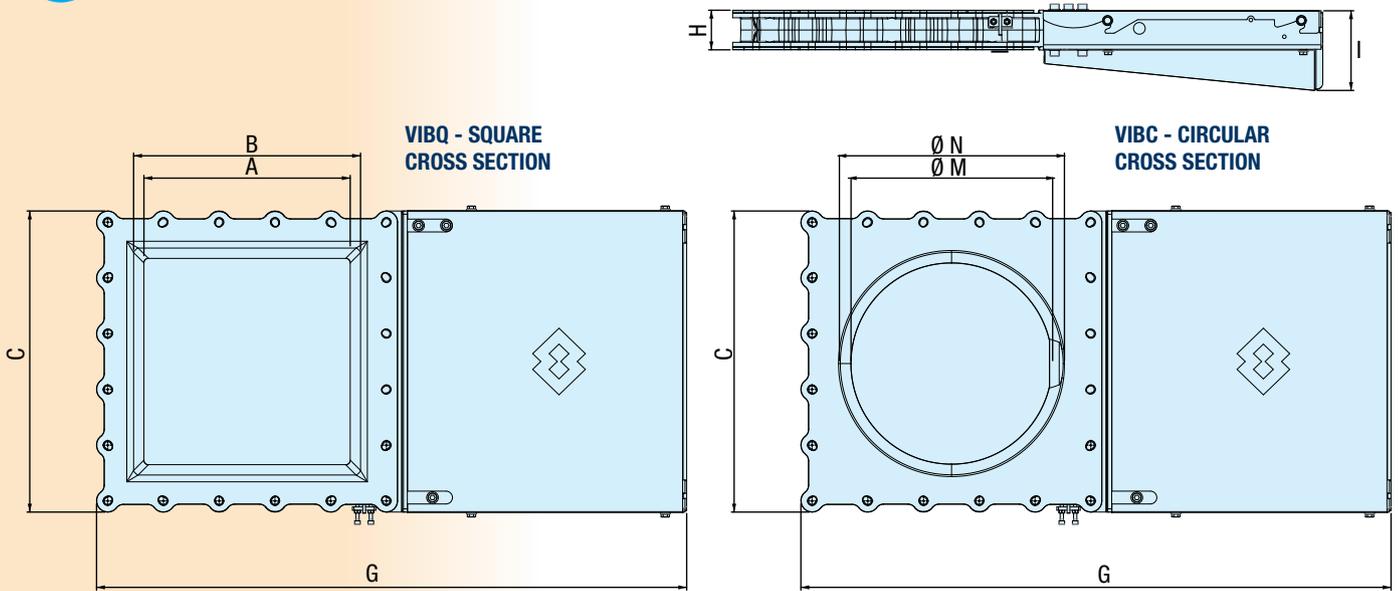
Linear Pneumatic Actuator
CPL



Electric Gear Motor Actuator
CRGA



Overall Dimensions



TYPE	A	B	Ø M	Ø N	C	G	H	I
VIB 150 (6")	120	175	130	162	261	510	61	122
VIB 200 (8")	170	225	180	213	311	610	61	122
VIB 250 (10")	220	275	230	267	361	710	61	122
VIB 300 (12")	270	325	280	317	438	840	61	122
VIB 350 (14")	320	375	330	377	489	961	71	145
VIB 400 (16")	370	425	380	427	540	1,058	71	145

* Compatible with CEMA flanges

Dimensions in mm



Options

- Interchangeable blade in carbon or stainless steel
- Food-grade gasket
- Square or round cross section



ATEX version



Food-grade (EC 1935/2004 and FDA-compliant)

Please refer to product brochures and manuals for further technical details



VL

Industry & Application



FEED & FOOD



PLASTICS & CHEMICALS



ENVIRONMENTAL



RECYCLING



BUILDING & CONSTRUCTION

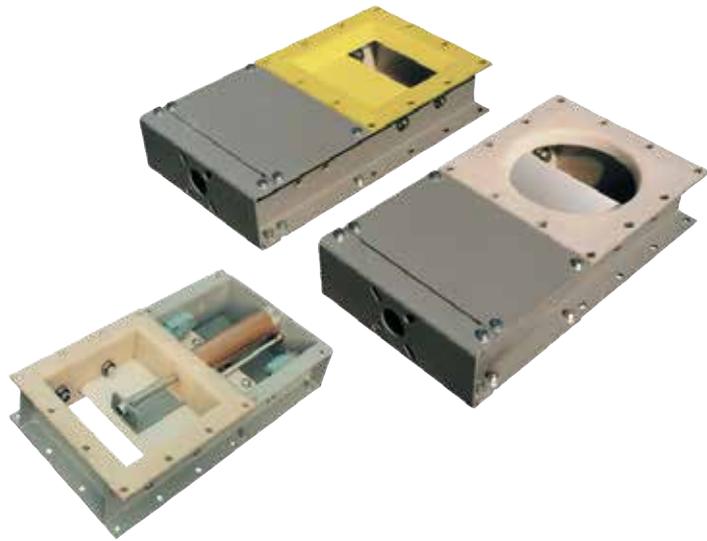


HEAVY INDUSTRIES



VL

SLIDE GATE VALVES



Features

- Horizontal or vertical mounting
- All round dustproof sealing
- Integrated inlet shaft deflecting material away from gasket and bearings
- Valve frame entirely coated with SINT® engineering polymer composite



Benefits

- Low-friction sliding blade fully SINT® polymer-coated in standard version
- Short delivery time
- Absence of pinch points and exposed moving parts ensuring safe operation
- Abrasion-resistant SINT® engineering polymer
- Few components making maintenance easy
- Technical support and worldwide availability of spare parts through WAMGROUP® subsidiary network

ACTUATOR COMPATIBILITY



Hand Wheel
CMG



Linear Pneumatic Actuator
CPL

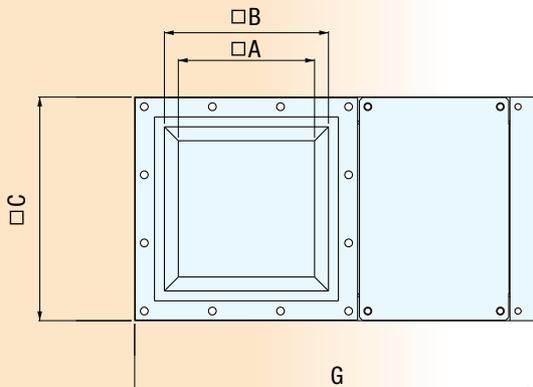


Electric Gear Motor Actuator
CRG



Overall Dimensions

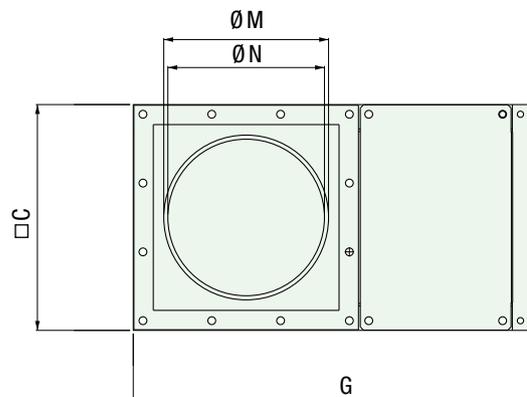
VLQ - SQUARE
CROSS SECTION



VALVE SIDE VIEW



VLC - CIRCULAR
CROSS SECTION



TYPE	□ A	□ B	□ C	G	H	Ø M	Ø N
VL.0150..	120	175	261	455	113	150	165
VL.0200..	170	225	311	555	113	200	215
VL.0250..	220	275	361	650	113	250	265
VL.0300..	270	325	431	765	113	300	315
VL.0350..	320	375	481	900	125	350	365
VL.0400..	370	425	531	1,000	125	400	415

Dimensions in mm



Options

- Internally integrated pneumatic actuator (VLS-type)
- Square, circular or rectangular cross section
- Available in different materials
- Ex-stock delivery

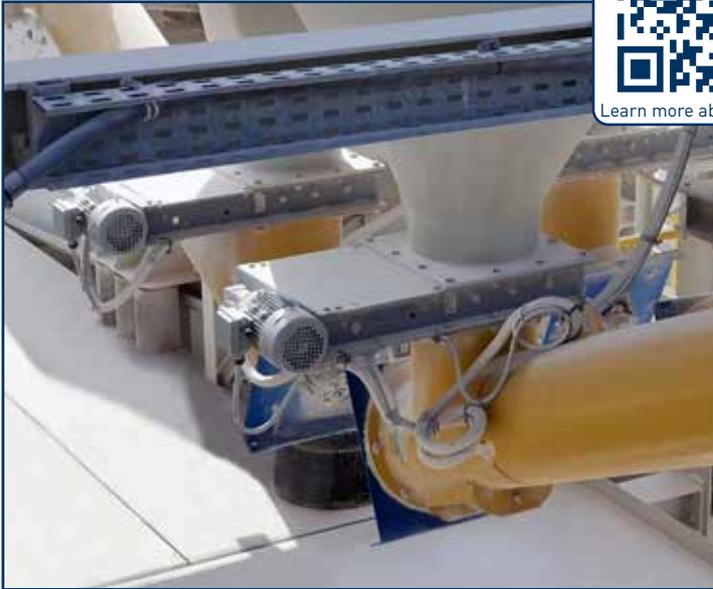


ATEX version



Food-grade (FDA-compliant)

Please refer to product brochures and manuals for further technical details



VG

Industry & Application



ENVIRONMENTAL



RECYCLING



BUILDING & CONSTRUCTION



HEAVY INDUSTRIES



VG

SLIDE GATE VALVES



Features

- Mild-steel or stainless-steel valve frame and blade
- Powder-coated mild-steel frame
- Sizes of up to 1,000 x 1,000 mm (3.3 x 3.3 ft)
- Interchangeable actuators: manual, pneumatic or electric gear motor
- Inlet shaft deflecting material away from seals and blade bearings reducing wear



Benefits

- Highly reliable
- Low number of parts makes maintenance easy
- Quick and easy maintenance
- Durable
- Short delivery time
- Technical support and worldwide availability of spare parts through WAMGROUP® subsidiary network

ACTUATOR COMPATIBILITY



Hand Wheel
CMV



Linear Pneumatic Actuator
CPL



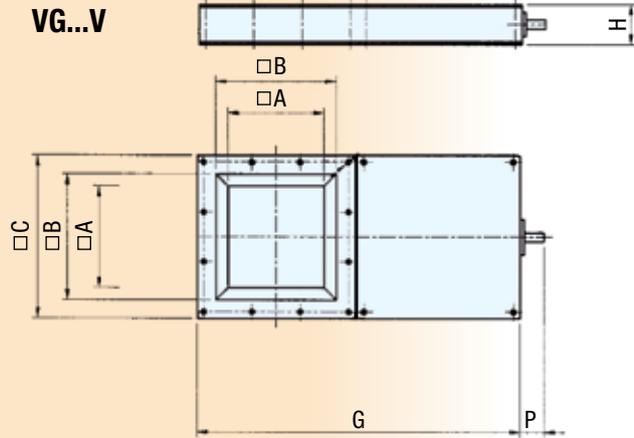
Electric Gear Motor Actuator
AR



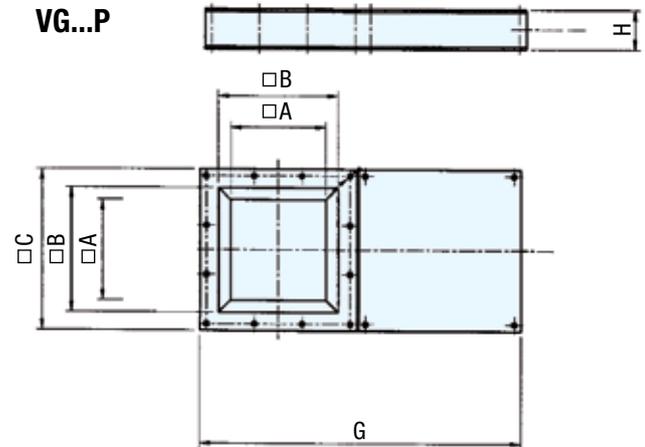
Overall Dimensions

SQUARE CROSS SECTION

V-type: manual and electric actuators



P-type: pneumatic actuators only



TYPE	$\square A$	$\square B$	$\square C$	G	H	P
VG 0500..	450	525	653	1,300	133	60
VG 0600..	550	625	753	1,500	133	60
VG 0700..	650	725	895	1,720	133	60
VG 0800..	750	825	995	1,920	133	60
VG 1000..	950	1.025	1.235	2,340	133	60

Dimensions in mm



Options

- Rectangular cross section (VGR-type)

Please refer to product brochures and manuals for further technical details







BALL SEGMENT VALVES

BALL SEGMENT VALVES **VSS**

42

VSS

Industry & Application



FEED & FOOD



PLASTICS &
CHEMICALS



ENVIRONMENTAL



RECYCLING



WAM VALVES

VSS

BALL SEGMENT VALVES



Features

- Compact overall dimensions, simple design, few components
- Valve body made from mild steel or stainless steel with replaceable SINT® engineering polymer gasket
- Full bore-through material flow
- Suitable for both standard and food-grade applications



Benefits

- Energy-saving
- Low friction
- Cost-effective
- Easy to fit and maintain

ACTUATOR COMPATIBILITY



Manual Lever Actuator
CM



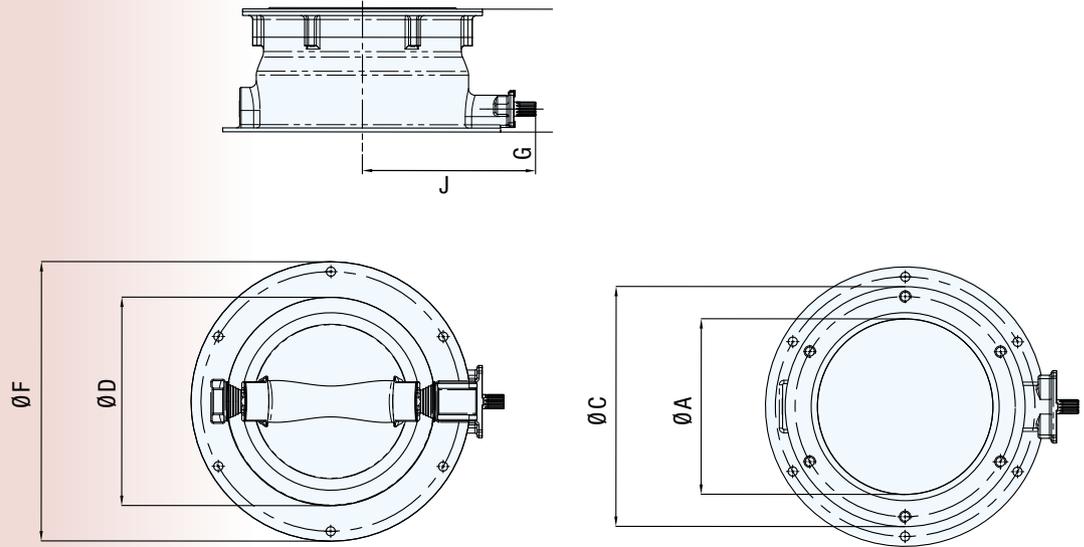
Pneumatic Rotary Actuator
CPU



Gear Motor Actuator
AE



Overall Dimensions



TYPE	Ø A	Ø C	Ø D	Ø F	G	J
VSS 150	255	164	213	310	140	212
VSS 200	310	213	267	365	160	239
VSS 250	365	267	317	425	187	264
VSS 300	424	316	427	525	210	319

Dimensions in mm



Options

- Mild steel or stainless steel frame
- SINT® gasket for food applications



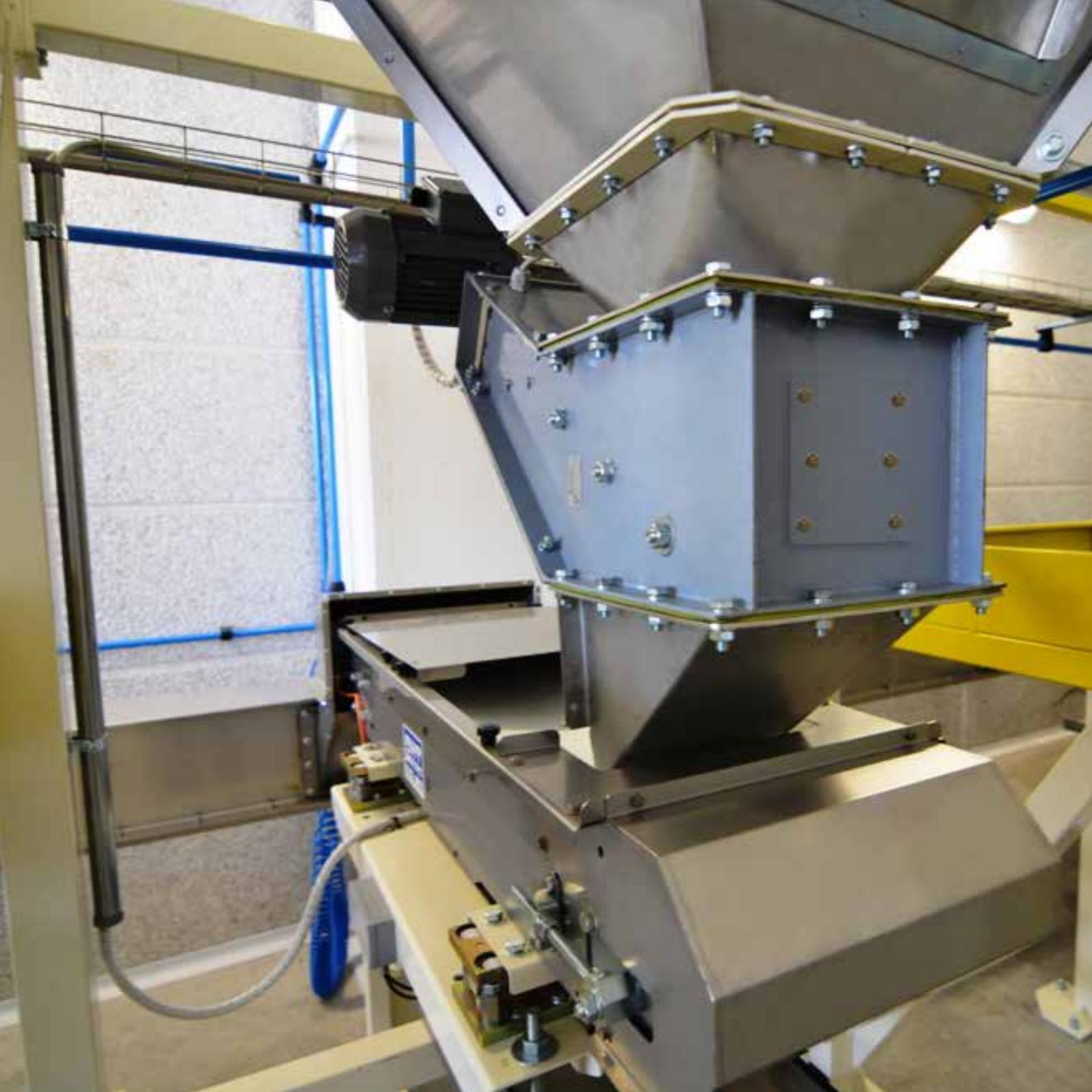
ATEX version



Food-grade (EC 1935/2004 and FDA-compliant)

Please refer to product brochures and manuals for further technical details







FEEDER VALVES

INCLINED FEEDING SLIDE VALVES **VDI**

48

DOUBLE-FLAP VALVES **VLDP**

52

MULTIPLE CHOKE VALVES **VPM**

56

VDI

Industry & Application



VDI

INCLINED FEEDING SLIDE VALVES



Features

- SINT® engineering polymer-lined contact parts of mild-steel or stainless-steel frame
- Interchangeable mild-steel, stainless-steel or SINT® engineering polymer-coated blades
- Interchangeable actuators: manual, pneumatic, electric gear motor-type
- Intermediate blade positions to enhance feeding characteristics
- Tapered inlet
- Dustproof design



Benefits

- Even material flow
- SINT® anti-wear engineering polymer additionally easing material flow
- More flow-efficient than butterfly valves or slide gate valves
- Enhanced feeding accuracy

ACTUATOR COMPATIBILITY



Hand Wheel
CMG



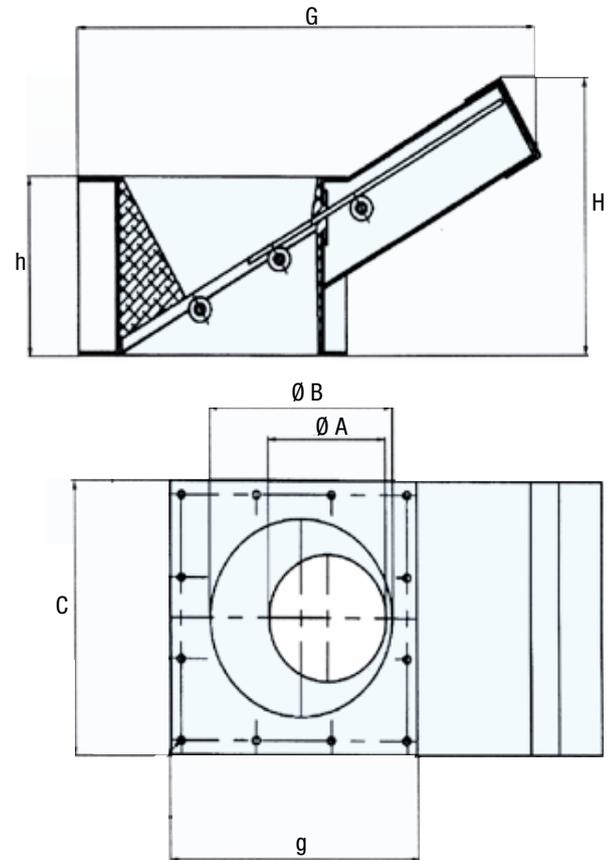
Linear Pneumatic Actuator
CPL



Electric Gear Motor Actuator
CRG



Overall Dimensions



TYPE	Ø A	Ø B	C	G	g	H	h
VDI 0150..	137	225	311	593	311	358	233
VDI 0250..	200	310	431	780	422	392	258
VDI 0300..	250	360	481	832	481	462	296

Dimensions in mm



Options

- Interchangeable blade in SINT®, mild steel or stainless steel



Food-grade

Please refer to product brochures and manuals for further technical details



Learn more about this product



VLDP

Industry & Application



VLDP

DOUBLE-FLAP VALVES



Features

- Reduced overall dimensions
- Free material flow
- Dustproof
- Wear-resistant
- Accurate material feeding due to two independent flaps



Benefits

- Residue-free unobstructed opening
- Material feeding through movable, separately operated flaps
- Dustproof
- Compact dimensions
- Highly abrasion-resistant due to SINT® engineering polymer

ACTUATOR COMPATIBILITY



Manual Lever Actuator
CM



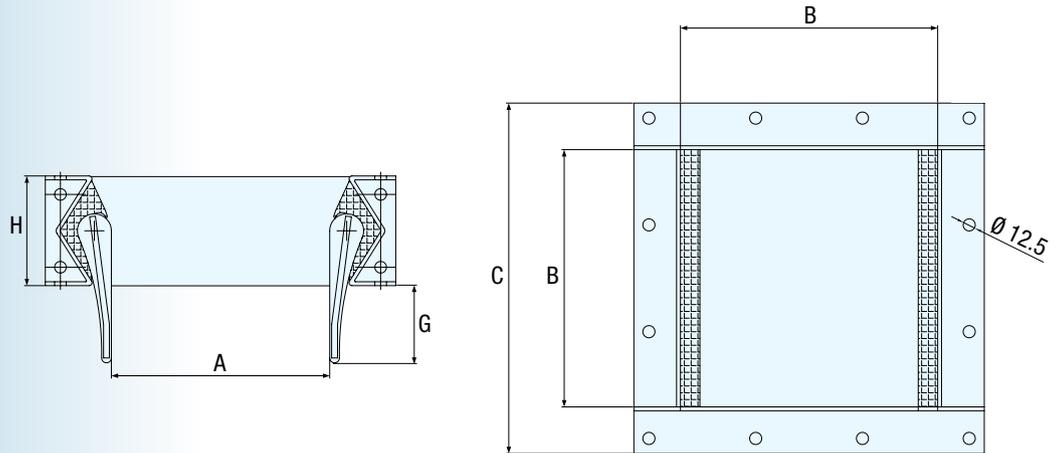
Pneumatic Rotary Actuator
CPU



Gear Motor Actuator
AE



Overall Dimensions



TYPE	A	B	C	G	H
VLDP 0150..	120	175	261	31	113
VLDP 0200..	170	225	311	56	113
VLDP 0250..	225	275	361	80	113
VLDP 0300..	270	325	431	106	113
VLDP 0350..	320	375	481	130	125
VLDP 0400..	370	425	531	156	125

Dimensions in mm



Options

- SINT® coating for food applications

Please refer to product brochures and manuals for further technical details



VPM

Industry & Application



VPM

MULTIPLE CHOKE VALVES



Features

- Dustproof
- For interception and feeding applications
- Anti-wear liner
- Replaceable gasket
- Multiple flap opening



Benefits

- Mass flow
- Continuous flow adjustment
- Constant material flow (mass flow)
- For all bulk solids

ACTUATOR COMPATIBILITY



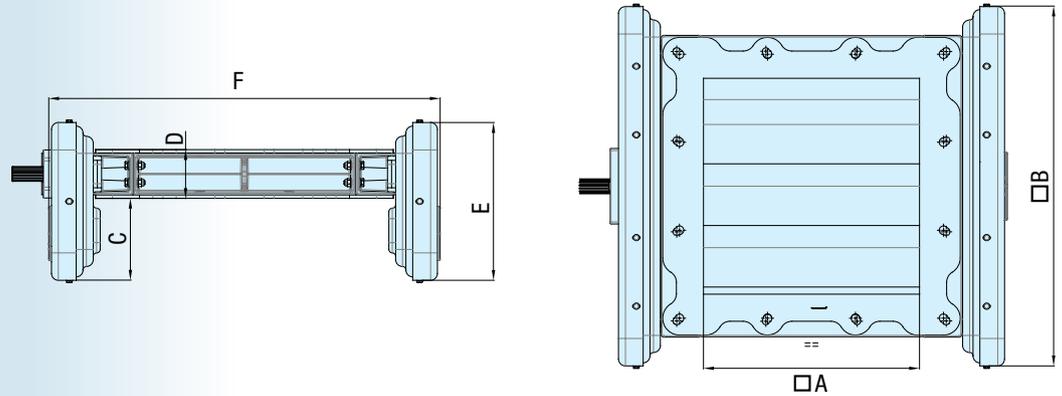
Manual Lever Actuator
CM



Pneumatic Rotary Actuator
CPU



Overall Dimensions



TYPE	□ A	□ B	C	D	E	F
VPM 150 EP	175	275	115	150	160	235
VPM 200 EP	225	325	115	150	160	235
VPM 250 EP	275	375	115	150	160	235
VPM 300 EP	325	425	115	150	160	235
VPM 350 EP	375	475	115	150	160	235
VPM 400 EP	425	525	125	150	160	235
VPM 500 EP	525	625	125	150	160	235
VPM 600 EP	635	755	125	200	210	300
VPM 700 EP	735	855	125	200	210	300
VPM 800 EP	835	955	125	200	210	300
VPM 1000 EP	1035	1195	125	200	210	300

Dimensions in mm



Options

- SINT® coating for food-grade applications

Please refer to product brochures and manuals for further technical details





FLOW DIVERSION



DIVERTER FLAP VALVES **DVA**

62

DVA

Industry & Application



FEED & FOOD



PLASTICS &
CHEMICALS



ENVIRONMENTAL



RECYCLING



BUILDING &
CONSTRUCTION



DVA

DIVERTER FLAP VALVES



Features

- Replaceable SINT® engineering polymer body liner
- Polymer on polymer contact between housing and flap ensuring dustproof sealing
- Hand lever, pneumatic or electric actuator



Benefits

- Dustproof sealing
- Highly flow-favourable and wear-resistant
- Minimised maintenance and easy access for parts replacement
- Elastic outline of the SINT® flap guarantees material flow without particle breakdown, grinding or jamming

ACTUATOR COMPATIBILITY



Manual Lever Actuator
CM



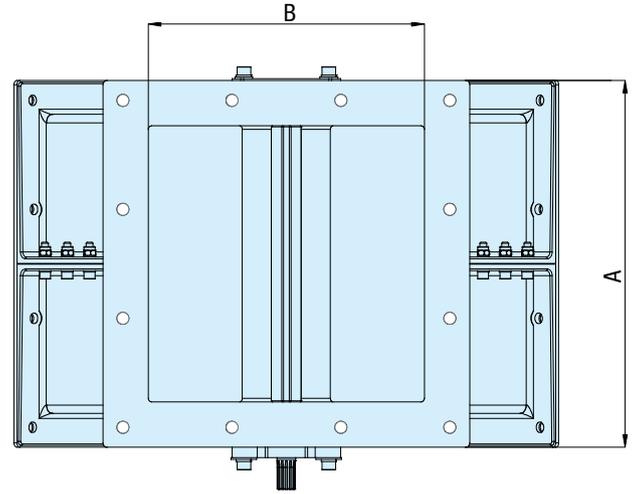
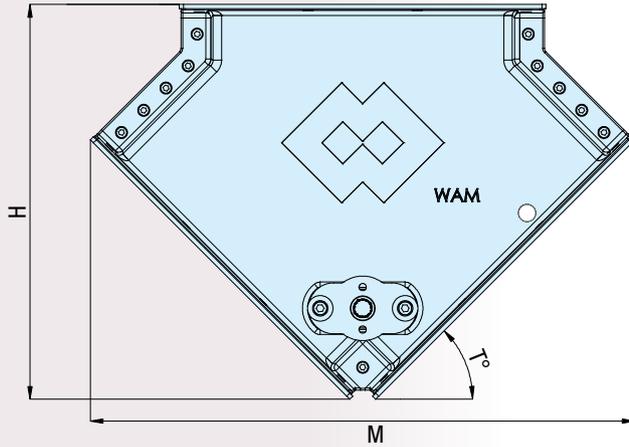
Pneumatic Rotary Actuator
CPU



Gear Motor Actuator
AE



Overall Dimensions



TYPE	A	B	H	M	T
DVA 150	260	175	312	399	45°
DVA 200	310	225	357	470	45°
DVA 250	360	275	403	538	45°
DVA 300	432	325	465	641	45°

Dimensions in mm



Options

- Square or circular connecting spigot
- Anti-wear seal system



Food-grade (EC 1935/2004 and FDA-compliant)

Please refer to product brochures and manuals for further technical details





LUMP BREAKING

LUMP BREAKING FEEDER VALVES **LBC**

68



LBC

Industry & Application



FEED & FOOD



PLASTICS &
CHEMICALS



ENVIRONMENTAL



RECYCLING



BUILDING &
CONSTRUCTION



LBC

LUMP BREAKING FEEDER VALVES



Features

- Pipe spigots
- Single-shaft configuration
- Compatible with PN flanges (2.5/6 and 10/16 external indents)
- Replaceable blades in mild steel or stainless steel
- Easy to disassemble and clean
- Compact design for easy maintenance



Benefits

- Segregation without particle degradation
- Enhancing quality of bulk solids
- Improved material flow
- Less maintenance of downstream plant components
- Cost-effective

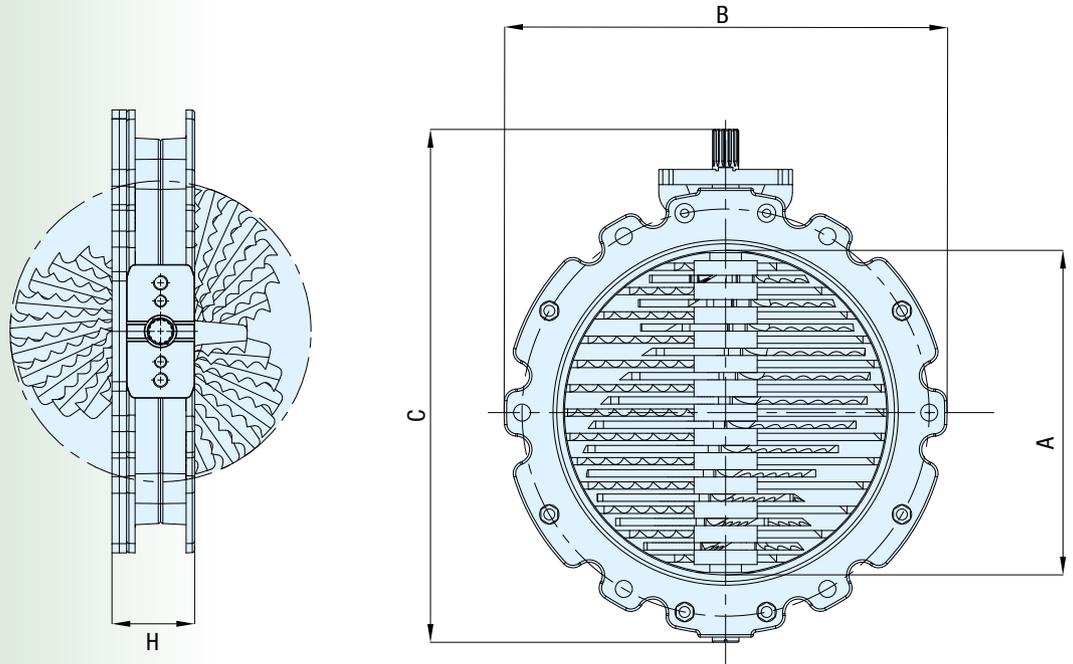
ACTUATOR COMPATIBILITY



Gear Motor Actuator
AE



Overall Dimensions



TYPE	A	B	C	H
LBC 0150	164	255	306	66
LBC 0200	213	310	367	68
LBC 0250	267	365	422	68
LBC 0300	318	425	488	68
LBC 0350	374	475	552	80
LBC 0400	424	525	603	80

Dimensions in mm



Options

- Connecting spigot
- Anti-wear seal system



Food-grade (EC 1935/2004 and FDA-compliant)

Please refer to product brochures and manuals for further technical details







VALVE ACTUATORS

MANUAL LEVER ACTUATORS **CM** 74

LEVERS WITH EXTENSION **CMP2** 75

LEVERS WITH INDUCTIVE SENSOR
PRESETTING **CM51** 76

HAND WHEELS WITH
THREADED SHAFT **CMG / CMGA** 77

HAND WHEELS **CMV** 78

PNEUMATIC ROTARY ACTUATORS **CPU** 79

PNEUMATIC LINEAR ACTUATORS **CPL** 80

ELECTRIC ROTARY
GEAR ACTUATORS **AE / AR** 81

ELECTRIC LINEAR
GEAR ACTUATORS **CRG / CRGA** 83

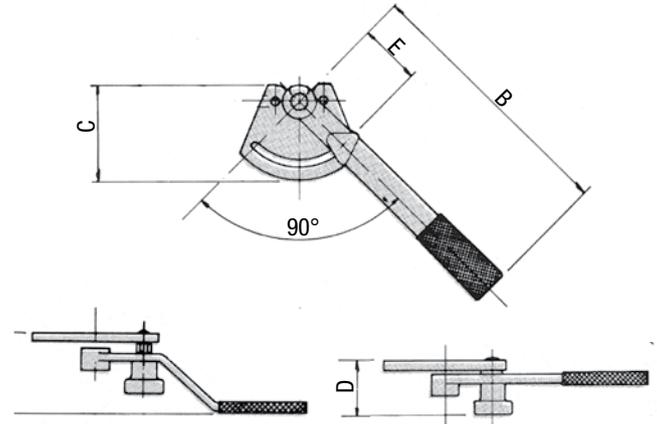
CM

MANUAL LEVER ACTUATOR



Benefits

- Sturdy, durable, compact
- Interchangeable with other WAM® actuators
- Matchless cost effectiveness due to mass production



MATCHING VALVE TYPES



VFS



VFP



VFF



VW



VSS



DVA

TYPE	B	C	D	E
CM 4	300	105	115	72
CM 3B	500	107	60	72

Dimensions in mm

Please refer to product brochures and manuals for further technical details

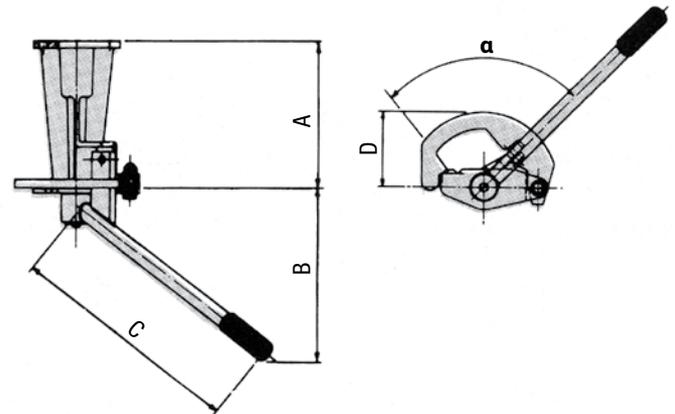
CMP2

EXTENDED HAND LEVER



Benefits

- Sturdy, durable, compact
- Interchangeable with other WAM® actuators
- Matchless cost effectiveness due to mass production



MATCHING VALVE TYPES				
				
VFS	VFP	VFF	VSS	DVA

TYPE	A	B	C	D	α
CMP 2	180	200	350	60	90°

Dimensions in mm

Please refer to product brochures and manuals for further technical details

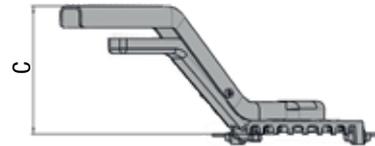
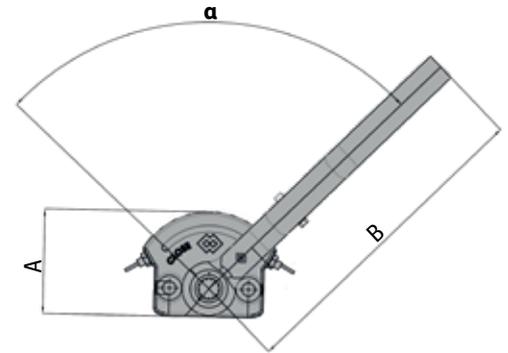
CM51

LEVER WITH INDUCTIVE SENSOR PRESETTING



Benefits

- Durable, compact
- Interchangeable with other WAM® actuators
- Matchless cost effectiveness due to mass production
- Preset for inductive limit switch



MATCHING VALVE TYPES



VFS



VFP



VFF



VW



VSS



DVA

TYPE	A	B	C	α
CM 51	106	324	128	90°

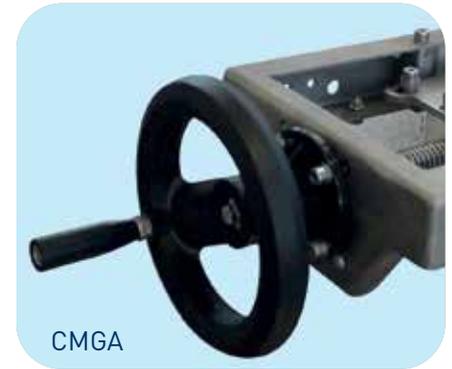
Dimensions in mm

CMG / CMGA

HAND WHEEL
WITH THREADED
SHAFT



CMG/CMGA

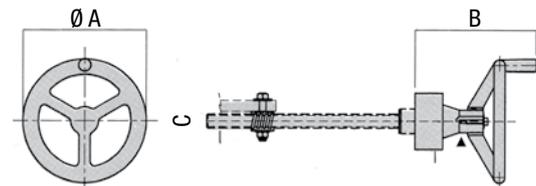


CMGA



Benefits

- Sturdy, durable, compact
- Interchangeable with other WAM® actuators
- Matchless cost effectiveness due to mass production



MATCHING VALVE TYPES		
		
VL	VDI	VIB
CMG		CMGA

TYPE	Ø A	B	C
CMG/CMGA 0150I	200	165	TPM 25 x 5
CMG/CMGA 0200I	200	165	TPM 25 x 5
CMG/CMGA 0250I	200	165	TPM 25 x 5
CMG/CMGA 0300I	200	165	TPM 25 x 5
CMG/CMGA 0350I	250	241	TPM 35 x 6
CMG/CMGA 0400I	250	241	TPM 35 x 6

Dimensions in mm

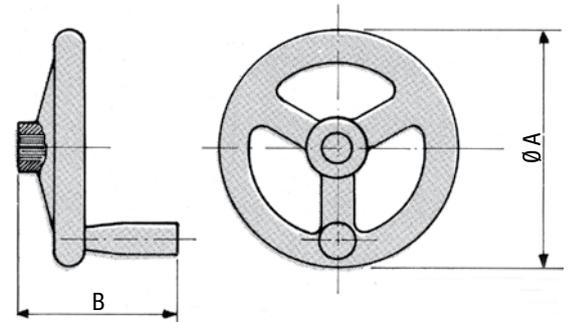
CMV

HAND WHEEL



Benefits

- Sturdy, durable, compact
- Matchless cost effectiveness due to mass production



MATCHING VALVE TYPE



VG

TYPE	Ø A	B
CMV 2	200	145
CMV 4	250	145
CMV 6	300	180

Dimensions in mm

Please refer to product brochures and manuals for further technical details

CPU

PNEUMATIC ROTARY ACTUATOR



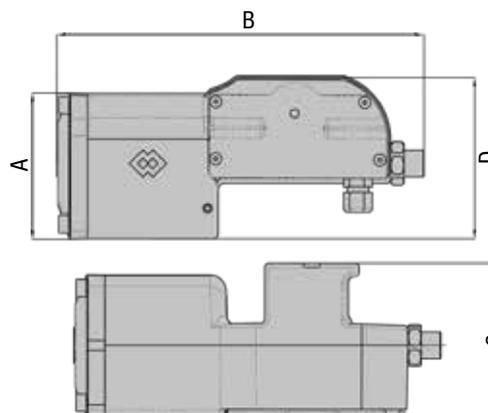
Benefits

- Easy cleaning thanks to compact, smooth surface design
- Signalling system options available
- Easy adjustment of signalling system due to special cam design
- Quick installation thanks to plug-in supply
- Improved industrial processes due to increased speed (absence of connecting tubes between actuator and solenoid valve eliminates leakage problems)
- Reduced overall dimensions



Options & Accessories

- ATEX-versions
- Mechanical and inductive limit switches
- Electronic positioner
- 5/2 NAMUR monostable and bistable solenoid valves
- Solenoid coils



MATCHING VALVE TYPES



VFS



VFP



VW



VSS



DVA



ATEX version

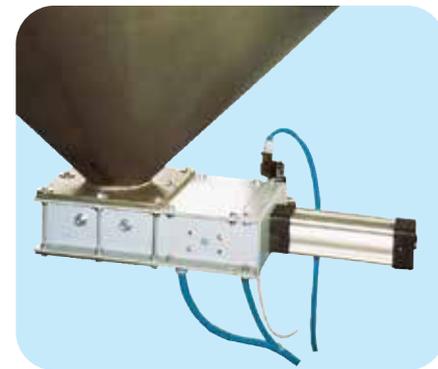
Please refer to product brochures and manuals for further technical details

TYPE	A	B	C	D
CPU 064	80	260	116	111
CPU 102	106	265	116	123
CPU 127	143	424	164	166

Dimensions in mm

CPL

PNEUMATIC LINEAR ACTUATOR



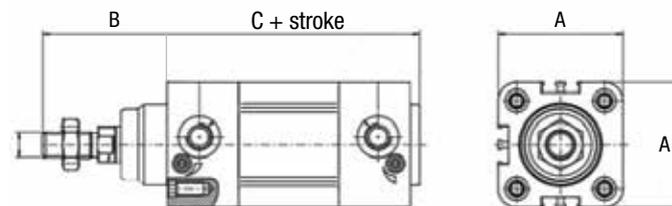
Benefits

- Interchangeable with other WAM® actuators
- Matchless cost effectiveness due to mass production



Options & Accessories

- ATEX-version
- Equipped with additional reeds



MATCHING VALVE TYPES



ATEX version

TYPE	A	B	C
CPL 063	77	69	121
CPL 080	95	86	128
CPL 100	115	91	138
CPL 125	140	119	160

Dimensions in mm

Please refer to product brochures and manuals for further technical details

AE

ELECTRIC ROTARY GEAR ACTUATOR



Benefits

- Sturdy, compact design
- Interchangeable with other WAM® actuators
- Durable
- Matchless cost effectiveness due to mass production (for CV-type emergency hand wheel refer to specific page)



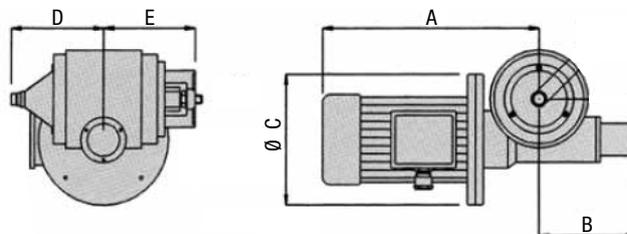
Options & Accessories

- ATEX-version
- Equipped with additional CV emergency hand wheel (AE-type Gear Motor Actuators can be operated without power supply)

MATCHING VALVE TYPES



ATEX version



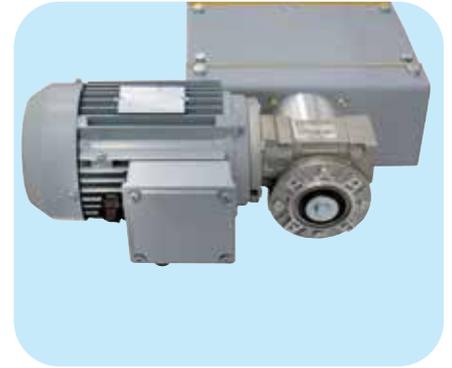
TYPE	A	B	Ø C	D	E
AE 040A10	-	101	140	98	107
AE 040A11	95				
AE 050A10	-	119	160	110	110
AE 050A11	288				
AE 051A11	-	135	200	120	150
AE 060A10	-				
AE 060A11	330				
AE 060A21	-	150	200	120	150
AE 070A10	-				
AE 070A1N	331				
AE 070A2N	-				

Dimensions in mm

Please refer to product brochures and manuals for further technical details

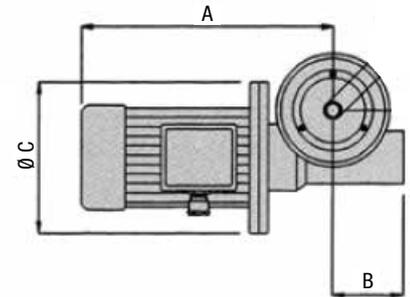
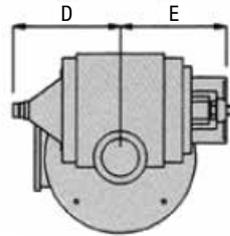
AR

ELECTRIC ROTARY GEAR ACTUATOR



Benefits

- Sturdy and durable
- Interchangeable with other WAM® actuators
- Matchless cost effectiveness due to mass production



MATCHING VALVE TYPE



VG

TYPE	A	B	Ø C	D	E
AR 070A20	100	90	200	120	150
AR 070A1N	331	90	200	120	150
AR 070A2N	331	90	200	120	150

Dimensions in mm

Please refer to product brochures and manuals for further technical details

CRG / CRGA

ELECTRIC LINEAR GEAR ACTUATOR



Benefits

- Sturdy, durable, compact
- Interchangeable with other WAM® actuators



CRG-CRGX / CRGA-CRGAX

MATCHING VALVE TYPES			
			
VL	VDI	VG	VIB
CRG			CRGA



ATEX version

TYPE	A	Ø B	C	D
CRG.. 150	340	105	144	143
CRG.. 200	340	105	144	143
CRG.. 250	340	105	144	143
CRG.. 300	340	105	144	143
CRG.. 350	340	105	144	143
CRG.. 400	340	105	144	143

Dimensions in mm

Please refer to product brochures and manuals for further technical details

