Valvole rotative LBT_ - *Rotary valves LBT_*

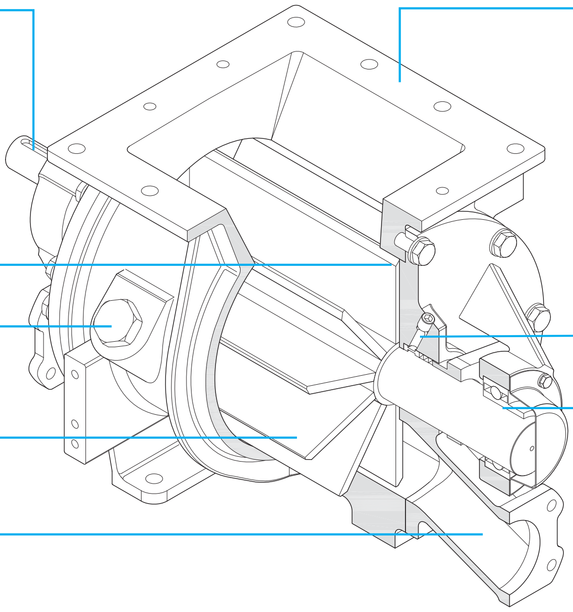
A flusso attraversato 1bar – *Blow-thru 1bar*

- Alta efficienza di riempimento
  High filling efficiency
- Minime perdite di trafilamento
  Minimum gas leakage
- Costruzione robusta
  Heavy duty construction
- Cuscinetti esterni e tenute flussate
  Outboard bearings and air purge type seals
- Flusso attraversato ottimizzato
  Optimized entrainment trough
- Versioni certificate ATEX 2014/34/EU
  Versions in accordance with ATEX 2014/34/EU
- Disponibili versioni a smontaggio rapido
  Fast opening versions available

Applicazione ***Application***	Alimentatori di materiali in polvere in sistemi di trasporto pneumatico dove il materiale richieda un aiuto per essere rimosso dalle tasche del rotore e/o dove si necessiti di un organo compatto da collegare direttamente alla linea di trasporto.	*Volumetric feeders for powders in pneumatic conveying systems where the product requires an assist to be removed from the vane pockets and/or when the valve must be connected directly with the conveying line.*
Dimensioni ***Size***	8, 10, 12, 14 da 7,5 a 52 Litri/giro	8, 10, 12, 14 *7,5 to 52 Litres/rev.*
Pressione ***Pressure range***	Fino a 1bar di pressione differenziale	*Up to 1bar differential pressure*
Temperatura ***Temperature***	Fino a 40°C (Versioni standard) Versioni per alte temperature fino a 350°C	*Up to 40°C (Standard versions)* *High temperature versions up to 350°C*
Materiali di costruzione ***Construction materials***	▪ Corpo e coperchi Fusioni di Ghisa ▪ Rotore Acciaio al carbonio, acciaio inossidabile ▪ Estremità delle pale Acciaio antiusura, acciaio inossidabile ▪ Trattamenti superficiali interni Nichelatura chimica, cromatura dura, carburo di tungsteno, teflonatura	▪ *Body and end covers* *Cast iron* ▪ *Rotor* *Carbon steel, stainless steel* ▪ *Replaceable blade tips* *Hardened steel, stainless steel* ▪ *Internal surface treatments* *Nickel-plating, hard chrome-plating, tungsten carbide, teflon*

Valvole rotative LBT_ - *Rotary valves LBT_*

Caratteristiche - *Design features*



Trasmissione diretta o a catena

***Direct drive** or chain drive*

Basse perdite di trafilamento e alta efficienza di riempimento
grazie ai minimi giochi interni

Minimal gas leakage loss and greater filling efficiency
due to tight internal clearances

Ampi fori di sfiato integrati (Opzionale)

Body vent openings integrated into housing (Optional)

Rotori aperti con 10 pale

10 vanes Open end rotor

Flusso attraversato ottimizzato
Migliore svuotamento del rotore

Optimized entrainment trough
Improved rotor sweeping

Robusto corpo in fusione
con entrata quadrata di grandi dimensioni

Rugged cast body
with large square inlet

Tenuta flussata (Versione standard)
Ampia gamma di tenute disponibili a richiesta

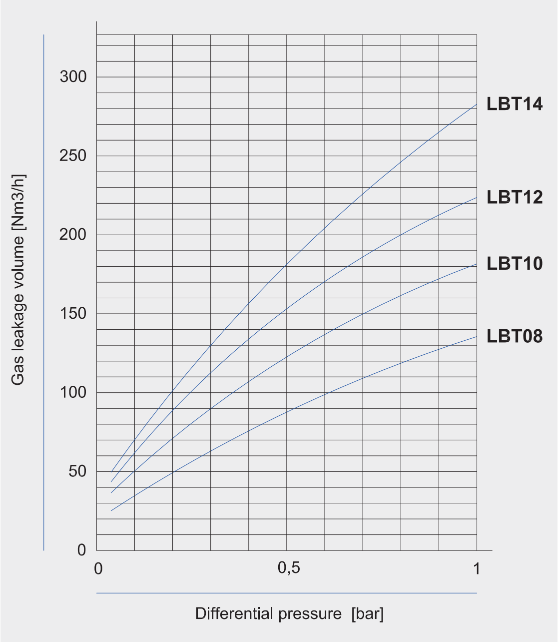
Air purge type seal (Standard version)
Large range of shaft sealing are available on request

Cuscinetti montati esternamente,
separati dal prodotto tramite lo spazio esterno tra tenuta e cuscinetto

Outboard mounted ball bearings,
separated from product by outlet space between shaft seal and bearing

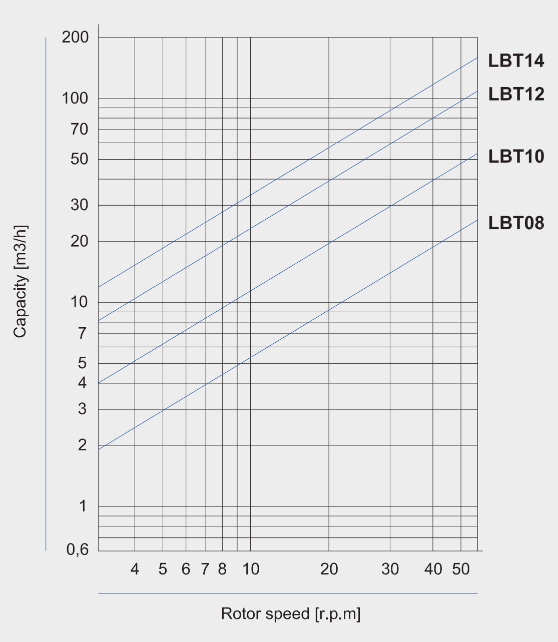
Dati tecnici - *Technical data*

Diagrammi
Diagrams



- **Diagramma delle perdite di trafilamento**
  (Valvole nuove con giochi standard, senza prodotto)

  Gas leakage diagram
  (New valves with standard clearances, without product)



- **Diagramma delle portate** (Riempimento al 100%)

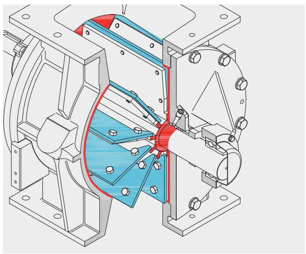
  ***Capacity diagram** (Filling efficiency 100%)*

Versioni - *Versions*

Versioni
Versions

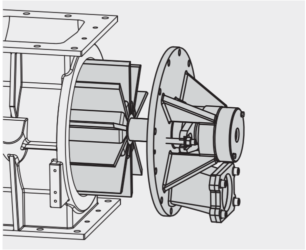
- **Versioni ATEX 2014/34/EU**
  Gruppo II, Zona 1/21, Cat.2GD
  Gruppo II, Zona 0/20, Cat.1GD

  Versions ATEX 2014/34/EU
  Group II, Zone 1/21, Cat.2GD
  Group II, Zone 0/20, Cat.1GD



- **Versioni antiusura**,
  differenti soluzioni e materiali
  con più livelli di protezione

  Wear resistance versions,
  various designs and materials
  with different wear protection levels

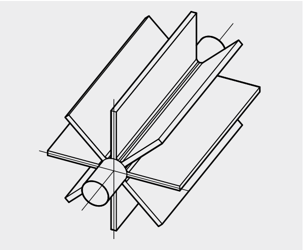


- **Versioni a smontaggio rapido**

  Fast opening versions

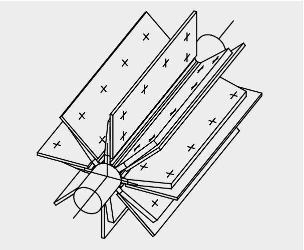
Rotori - *Rotors*

Rotori
Rotors



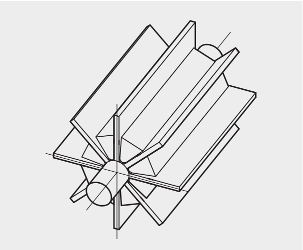
- **Rotore A**
  Rotore aperto

  Rotor A
  Open end rotor



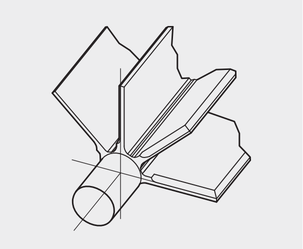
- **Rotore C**
  Rotore aperto con pale sostituibili

  Rotor C
  Open end rotor with replaceable blades



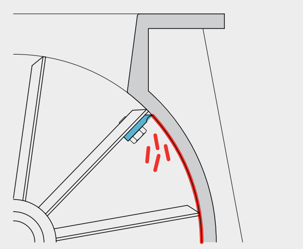
- **Rotori parzialmente riempiti**

  Partially filled rotors



- **Rotori con pale smussate**

  Rotors with beveled edge blades

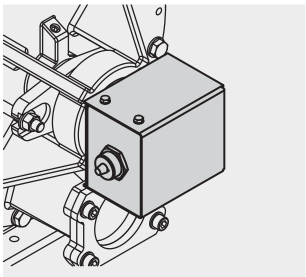


- **Rotori con raschiatori**

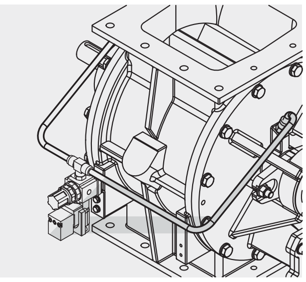
  Scraper blades rotors

Accessori - *Accessories*

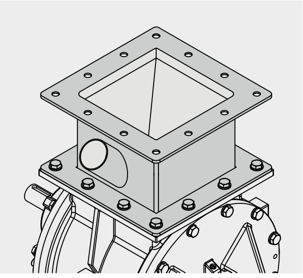
Accessori
Accessories



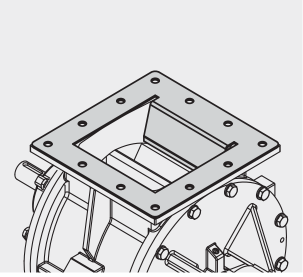
- **Controllo di rotazione**
  Motion indicator



- **Sistema di flussaggio delle tenute**
  Shaft seals air purge system



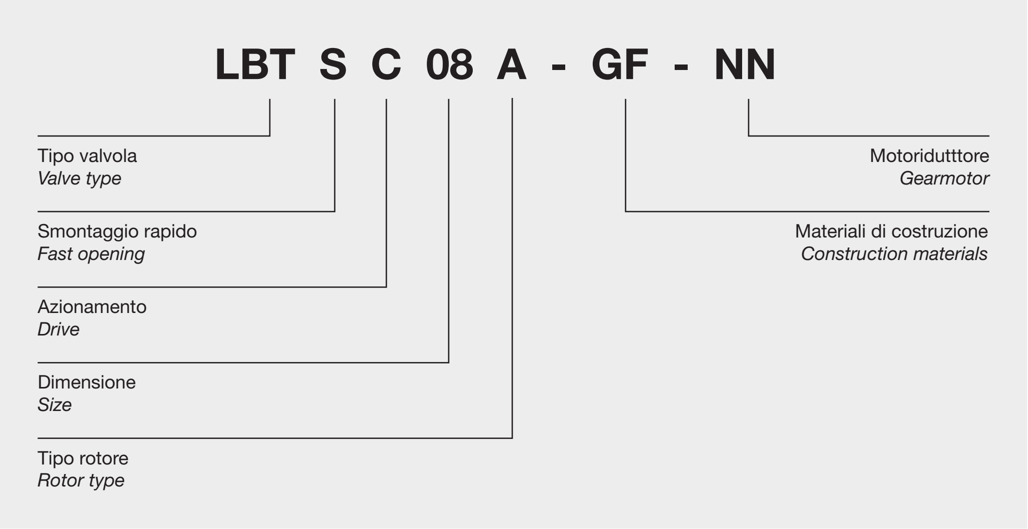
- **Sistema di sfiato AVS**
  Air vent system AVS



- **Entrata a deflettore**
  Inlet material deflector

Designazione del tipo - *Type designation*

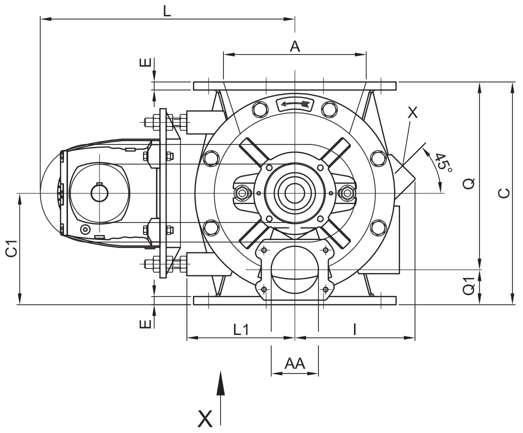
Esempio
Example

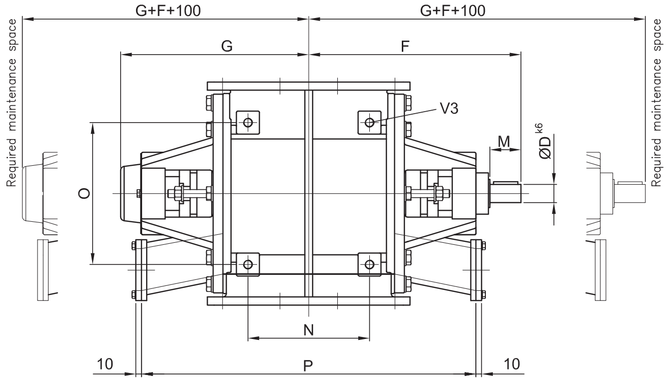


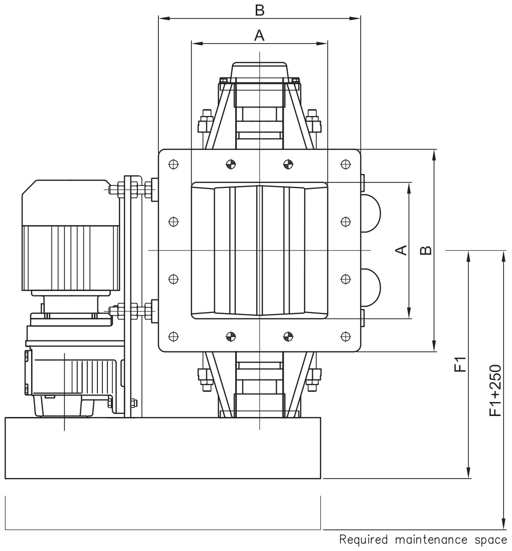
LBT S C 08 A - GF - NN

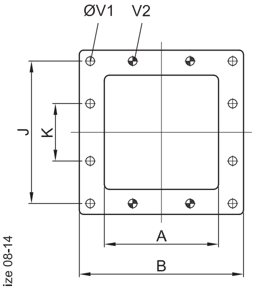
LBT: Tipo valvola / *Valve type*
S: Smontaggio rapido / *Fast opening*
C: Azionamento / *Drive*
08: Dimensione / *Size*
A: Tipo rotore / *Rotor type*
GF: Materiali di costruzione / *Construction materials*
NN: Motoriduttttore / *Gearmotor*

Dimensioni - *Dimensions*

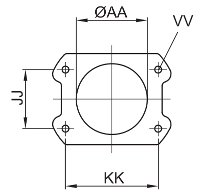




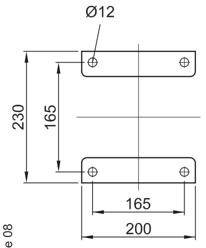




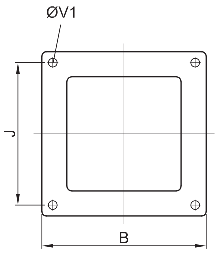
Inlet flange
Size 08-14



Blow-thru channel
connection



View 'X'
Size 08



View 'X'
Size 10-14

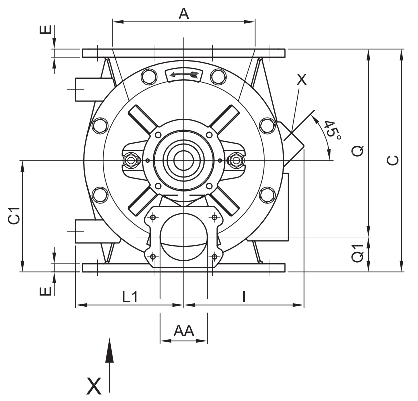
	Ltr/rev Ltr/giro	A	Ø AA	B	C	C1	Ø D^{k6}	E	F	F1	G	I	L	L1	M
LBTC08	7,5	200	71	290	345	180	30	12	333	348	280	170	445	160	60
LBTC10	17	250	84	350	400	200	35	16	370	374	305	212	445	194	70
LBTC12	33	300	108	430	490	245	35	16	400	404	335	264	522	236	70
LBTC14	52	350	133	480	560	280	40	20	441	438	375	290	590	267	70

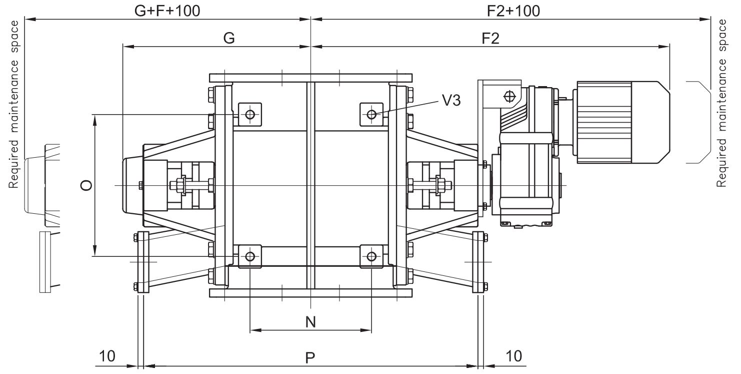
	N	O	P	Q	Q1	J	K	Ø V1	V2	JJ	KK	VV	V3	X[2]	kg [1]
LBTC08	180	210	495	290	55	255	85	14	M12	60	98	M10	M16	2xG1”	135
LBTC10	261	280	548	334	66	306	102	14	M12	70	110	M10	M16	2xG1”	190
LBTC12	304	320	608	400	90	390	130	14	M12	90	132	M10	M16	2xG1½”	295
LBTC14	360	340	678	462	98	432	144	14	M12	110	149	M12	M20	2xG1½”	375

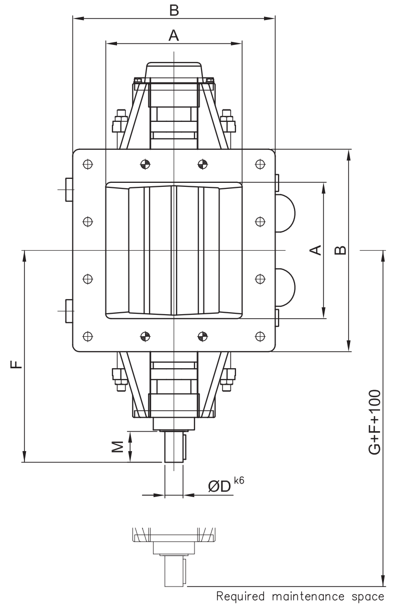
1) Peso approssimativo / *Weight approx.*
2) Opzionale: Foro di sfiato / *Option: Body vent opening*

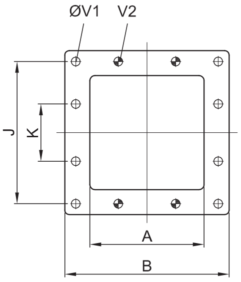
Valvole rotative LBTM_ - *Rotary valves LBTM_*

Dimensioni - *Dimensions*

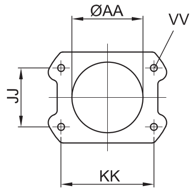




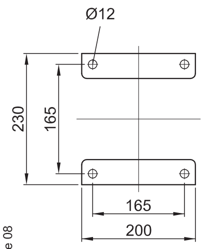




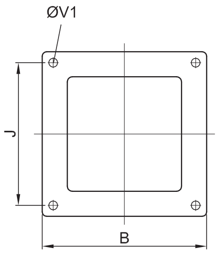
Inlet flange
Size 08-14



Blow-thru channel
connection



View 'X'
Size 08



View 'X'
Size 10-14

	Ltr/rev Ltr/giro	A	Ø AA	B	C	C1	Ø D ^{k6}	E	F	F2	G	I	L1	M
LBTM08	7,5	200	71	290	345	180	30	12	333	605	280	170	160	60
LBTM10	17	250	84	350	400	200	35	16	370	660	305	212	194	70
LBTM12	33	300	108	430	490	245	35	16	400	730	335	264	236	70
LBTM14	52	350	133	480	560	280	40	20	441	785	375	290	267	70

	N	O	P	Q	Q1	J	K	Ø V1	V2	JJ	KK	VV	V3	X[2]	kg[1]
LBTM08	180	210	495	290	55	255	85	14	M12	60	98	M10	M16	2xG1"	130
LBTM10	261	280	548	334	66	306	102	14	M12	70	110	M10	M16	2xG1"	180
LBTM12	304	320	608	400	90	390	130	14	M12	90	132	M10	M16	2xG1½"	275
LBTM14	360	340	678	462	98	432	144	14	M12	110	149	M12	M20	2xG1½"	365

1) Peso approssimativo / *Weight approx.*
2) Opzionale: Foro di sfiato / *Option: Body vent opening*

Altri prodotti YOUNG-MASSA - *Other YOUNG-MASSA products*

LDC_
Valvole rotative – 0,1 bar
Rotary valves – 0,1 bar

DC_
Valvole rotative – 0,1 bar
Rotary valves – 0,1 bar

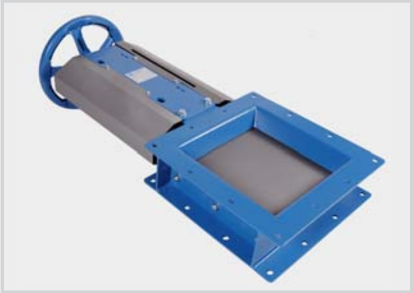
LDR_
Valvole rotative – 1 bar
Rotary valves – 1 bar

LDT_
Valvole rotative – 1 bar
Rotary valves – 1 bar

LSE
Valvole rotative per granuli – 1 bar
Rotary valves for pellets – 1 bar

Versioni a smontaggio rapido
Fast opening versions

Versioni con guide di estrazione
Versions with supporting bars



VP_, VPH_
Valvole a ghigliottina
Slides Valves

SA_
Valvole a doppio clapet
Double flap gate valves

YOUNG-MASSA

YOUNG-MASSA Srl

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