

Valvole rotative LDR_ - Rotary valves LDR_

A passaggio verticale 1bar - Drop-thru 1bar

- Alta efficienza di riempimento
High filling efficiency
- Minime perdite di trafileamento
Minimum gas leakage
- Costruzione robusta
Heavy duty construction
- Cuscinetti esterni e tenute flussate
Outboard bearings and air purge type seals
- Flange secondo DIN PN10 o ANSI 150
Flanges in accordance with DIN PN10 or ANSI 150
- Versioni antideflagranti fino a 10 bar per polveri St2
Explosion proof versions up to 10 bar and St2 products
- 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 o scaricatori e dosatori sottosili e tramogge. Ampia gamma di versioni ed accessori disponibili.

Volumetric feeders for powders in pneumatic conveying systems or discharger and metering valves below silos and hoppers. Large range of versions and options available.

Dimensioni *Size*

6, 8, 10, 12, 14
da 4 a 52 Litri/giro

6, 8, 10, 12, 14
4 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, Acciaio inossidabile
- 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, Cast stainless steel
- *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 LDR_ - Rotary valves LDR_

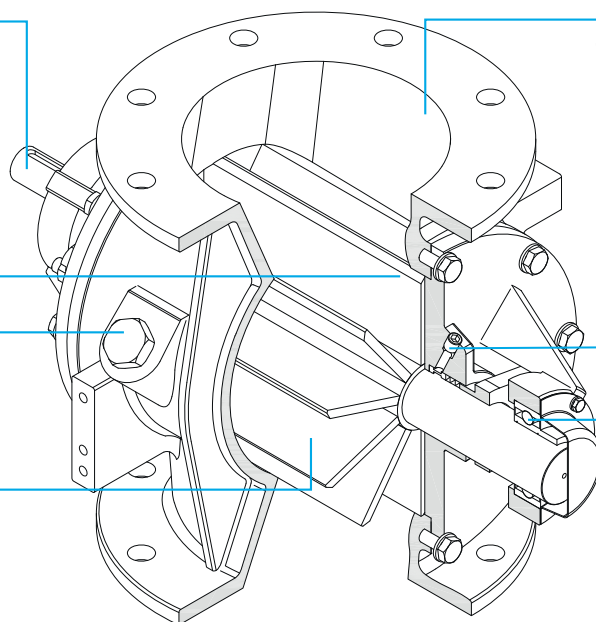
Caratteristiche - Design features

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



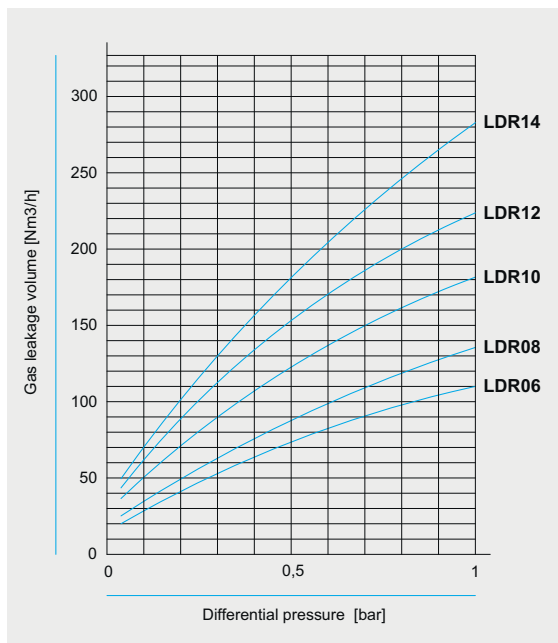
Robusto corpo in fusione con entrata ed uscita tonde di grandi dimensioni
Rugged cast body with large round inlet and outlet

Tenuta flussata (Versione standard)
Air purge type seal (Standard version)
Ampia gamma di tenute disponibili a richiesta
Large range of shaft sealing are available on request

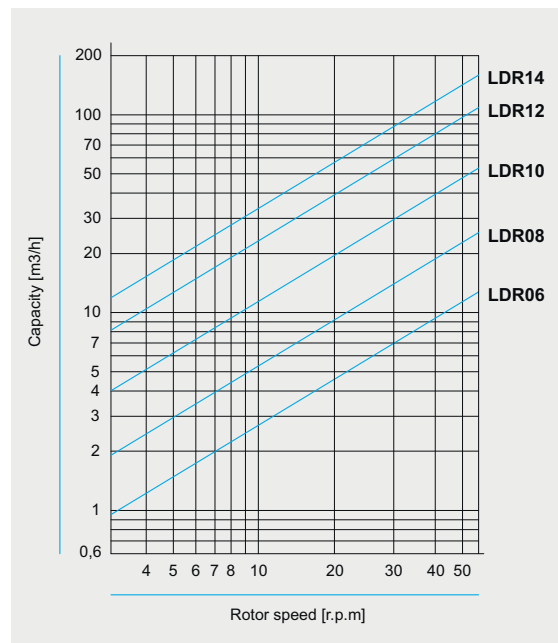
Cuscinetti montati esternamente, separati dal prodotto tramite lo spazio esterno tra tenuta e cuscinetto
Outboard mounted ball bearings, separated from product by outlet space between shaft seal and bearing

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)



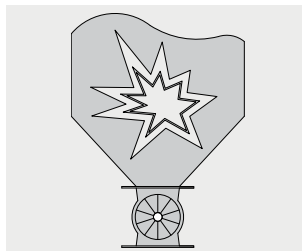
■ **Diagramma delle portate (Riempimento al 100%)**
Capacity diagram (Filling efficiency 100%)

Versioni - Versions

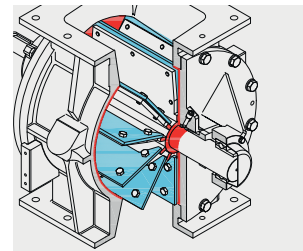
Versioni
Versions



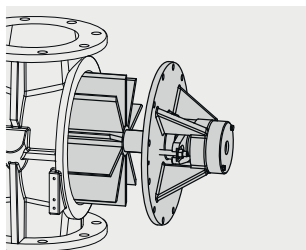
- **Versioni ATEX 2014/34/EU**
Gruppo II, Zona 1/21, Cat.2GD
Gruppo II, Zona 0/20, Cat.1GD
- **Versions ATEX 2014/34/EU**
Group II, Zone 1/21, Cat.2GD
Group II, Zone 0/20, Cat.1GD



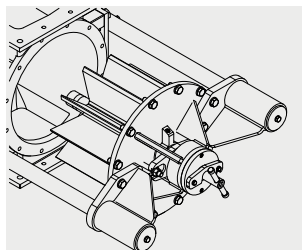
- **Versioni certificate EN15089**
“Sistemi di isolamento dell’esplosione”, per polveri St1 e St2 e resistenti a sovrappressioni fino a 10bar
- **Versions conforming to EN15089**
“Explosion isolation system”, for dusts St1 and St2 and pressure shock resistant up to 10bar



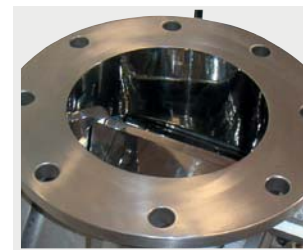
- **Versioni antiusura,**
differenti soluzioni e materiali con più livelli di protezione
- **Wear resistance versions,**
various designs and materials with different wear protection levels



- **Versioni a smontaggio rapido**
Fast opening versions



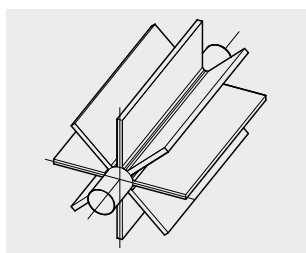
- **Versioni a smontaggio rapido con guide di estrazione**
Fast opening versions with supporting bars



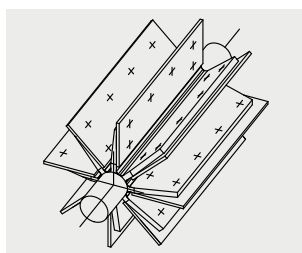
- **Versioni sanitarie:**
Parti a contatto con il prodotto e vani del rotore raccordati e lucidati Ra<0,8 µm, pale smussate e tenuta albero conformi FDA
- **Sanitary versions:**
Product contact surfaces and rotor pockets radiused and polished Ra<0,8 µm, chamfered blades and shaft seal FDA conforming

Rotori - Rotors

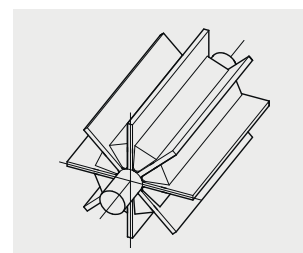
Rotori
Rotors



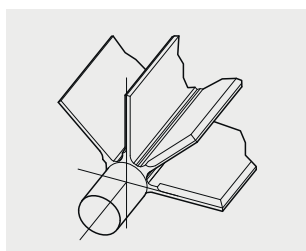
- **Rotore A**
Rotore aperto
- **Rotor A**
Open end rotor



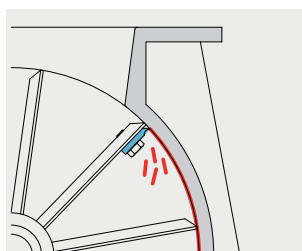
- **Rotore C**
Rotore aperto con pale sostituibili
- **Rotor C**
Open end rotor with replaceable blades



- **Rotori parzialmente riempiti**
Partially filled rotors



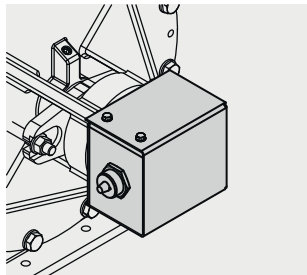
- **Rotori con pale smussate**
Rotors with beveled edge blades



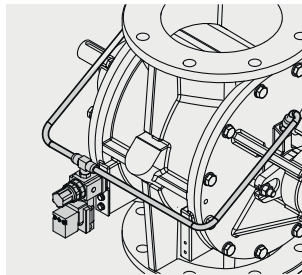
- **Rotori con raschiatori**
Scraper blades rotors

Accessori - Accessories

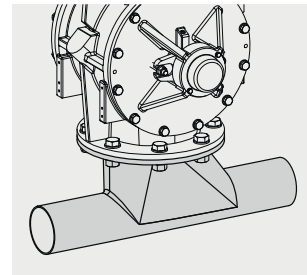
Accessori Accessories



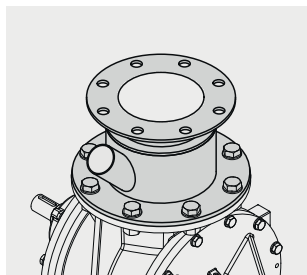
■ Controllo di rotazione
Motion indicator



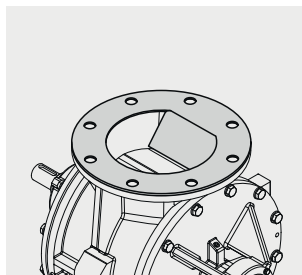
■ Sistema di flussaggio delle tenute
Shaft seals air purge system



■ Iniettore per trasporti pneumatici
Pneumatic conveying manifold



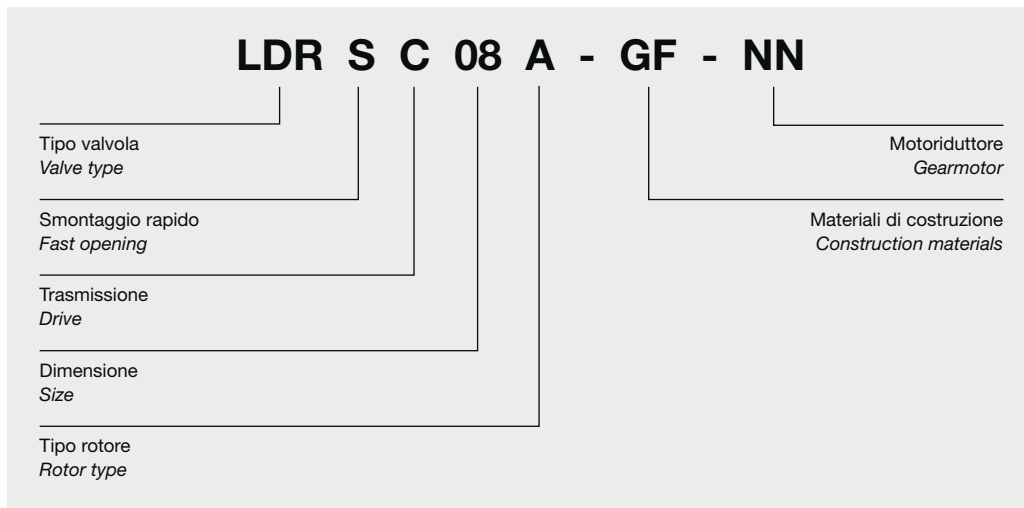
■ Sistema di sfiato AVS
Air vent system AVS



■ Entrata a deflettore
Inlet material deflector

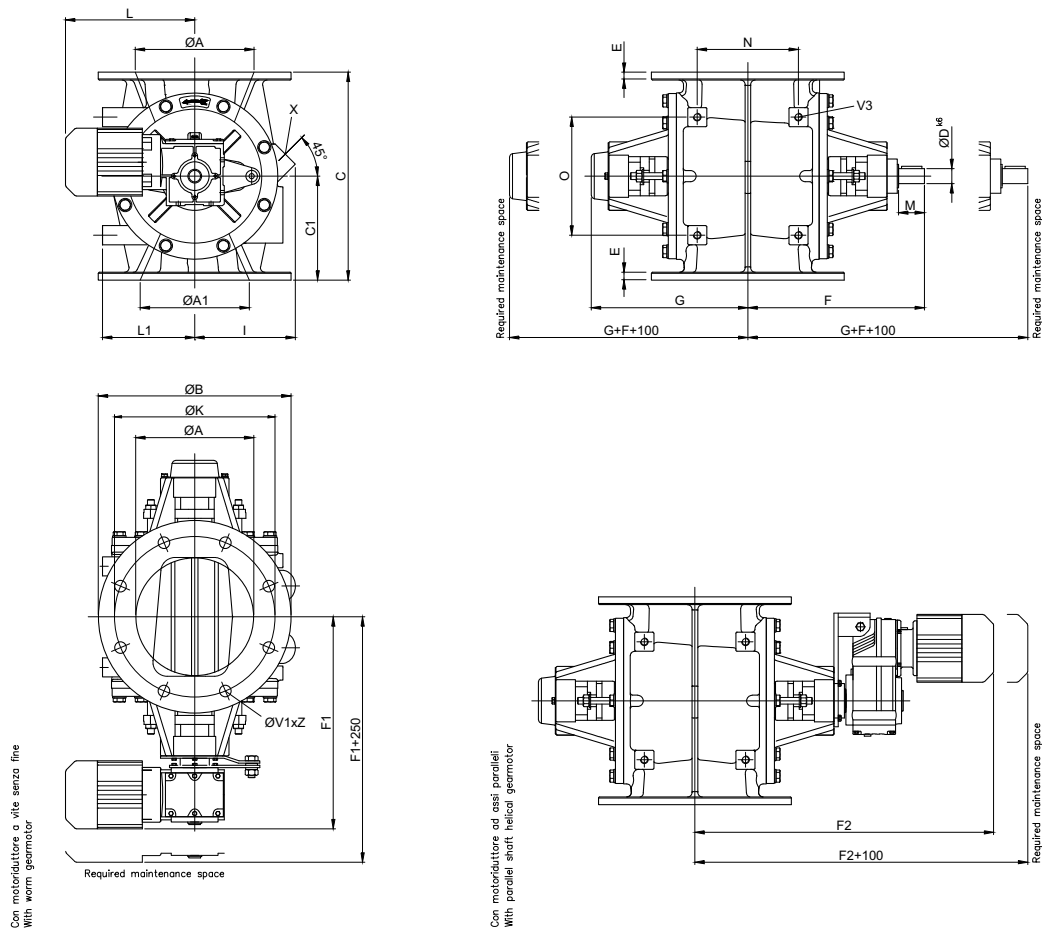
Designazione del tipo - Type designation

Esempio Example



Valvole rotative LDRM_ - Rotary valves LDRM_

Dimensioni - Dimensions



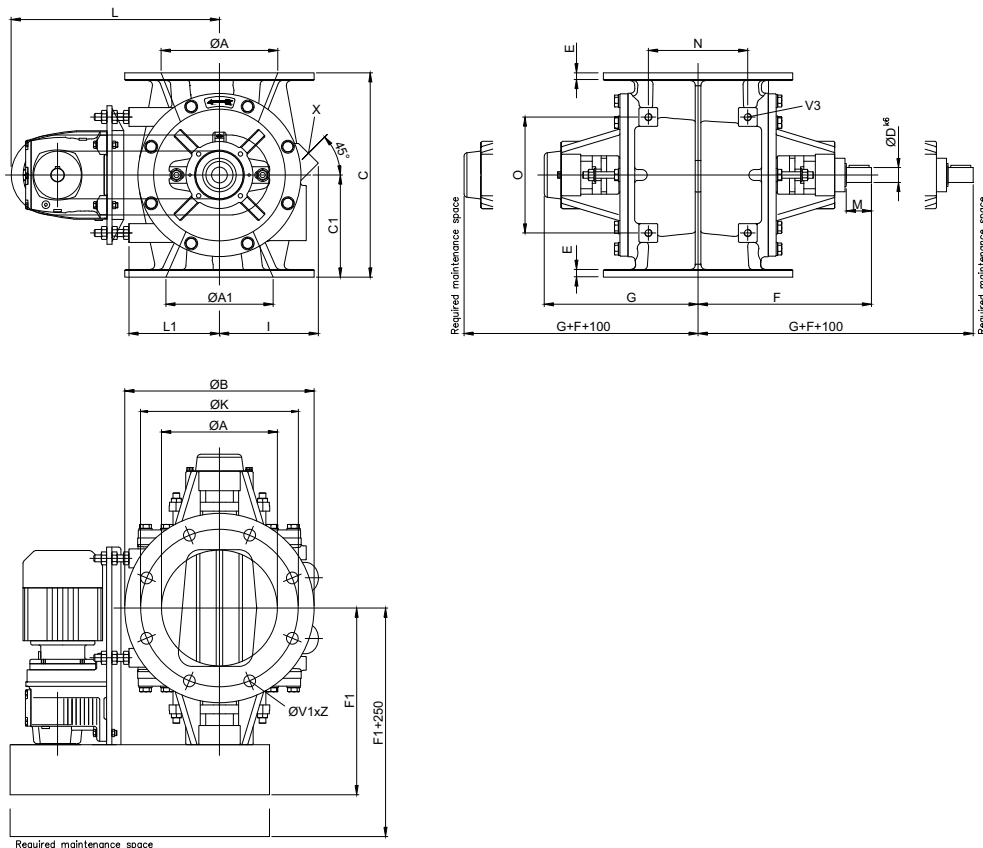
	Ltr/rev Ltr/giro	Ø A	Ø A1	Ø B	Ø K DIN	Ø K ANSI	C	C1	Ø D ^{k6}	E	F	F1 ²⁾	F2 ²⁾
LDRM06	4	160	152	285	240	241,3	300	150	25	12	310	390	540
LDRM08	7,5	210	203	343	295	298,4	370	185	30	14	333	440	605
LDRM10	17	265	252	406	350	361,9	450	225	35	16	370	---	660
LDRM12	33	316	302	483	400	431,8	540	270	35	18	400	---	730
LDRM14	52	360	350	530	460	476,2	610	305	40	20	441	---	785

	G	I	L ²⁾	L1	M	N	O	Ø V1 x Z DIN	Ø V1 x Z ANSI	V3	X ³⁾	Kg ¹⁾
LDRM06	255	135	315	124	60	172	162	22 x 8	22,2 x 8	M12	2 x G3/4"	95
LDRM08	280	170	323	160	60	180	210	22 x 8	22,2 x 8	M16	2 x G1"	130
LDRM10	305	212	---	194	70	261	280	22 x 12	25,4 x 12	M16	2 x G1"	180
LDRM12	335	264	---	236	70	304	320	22 x 12	25,4 x 12	M16	2 x G1-1/2"	275
LDRM14	375	290	---	267	70	360	340	22 x 16	28,6 x 12	M20	2 x G1-1/2"	365

1) Peso approssimativo / Weight approx.
 2) Misure approssimative / Measurements approx.
 3) Opzionale

Valvole rotative LDRC_ - Rotary valves LDRC_

Dimensioni - Dimensions



	Ltr/rev Ltr/giro	Ø A	Ø A1	Ø B	Ø K DIN	Ø K ANSI	C	C1	Ø D ^{K6}	E	F	F1
LDRC06	4	160	152	285	240	241,3	300	150	25	12	310	326
LDRC08	7,5	210	203	343	295	298,4	370	185	30	14	333	348
LDRC10	17	265	252	406	350	361,9	450	225	35	16	370	374
LDRC12	33	316	302	483	400	431,8	540	270	35	18	400	404
LDRC14	52	360	350	530	460	476,2	610	305	40	20	441	438

	G	I	L ²⁾	L1	M	N	O	Ø V1 x Z DIN	Ø V1 x Z ANSI	V3	X ³⁾	Kg ¹⁾
LDRC06	255	135	375	124	60	172	162	22 x 8	22,2 x 8	M12	2 x G3/4"	95
LDRC08	280	170	445	160	60	180	210	22 x 8	22,2 x 8	M16	2 x G1"	135
LDRC10	305	212	445	194	70	261	280	22 x 12	25,4 x 12	M16	2 x G1"	190
LDRC12	335	264	522	236	70	304	320	22 x 12	25,4 x 12	M16	2 x G1-1/2"	295
LDRC14	375	290	590	267	70	360	340	22 x 16	28,6 x 12	M20	2 x G1-1/2"	375

1) Peso approssimativo / Weight approx.
 2) Misure approssimative / Measurements approx.
 3) Optional



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



LDT_
Valvole rotative – 1 bar
Rotary valves – 1 bar



LBT_
Valvole rotative a flusso attraversato – 1 bar
Blow-thru Rotary valves – 1 bar



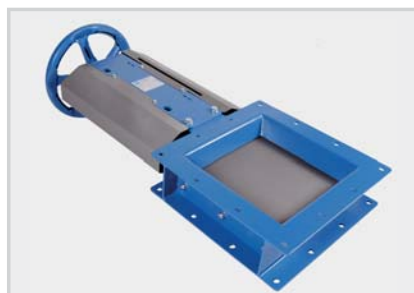
LSE_
Valvole rotative per granuli – 1 bar
Rotary valves for pellets – 1 bar



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

OVER
40
Years of service



2014/34/EU

YM
YOUNG-MASSA

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