OL-single-line distributor
VOE-D
with delivery monitoring

Use:

In OL®-lubrication systems that are based on the one-line system

- **Smallest oil volume per time unit as continuous oil flow.**
- **High functional safety because of visual and electrical delivery checking.**
- **Selectable proportioning volume per lubrication point each (11 ... 230 mm³ per cycle).**
- **Air throughput per lubrication point individually adjustable.**
- **Compact design.**

Item
1 Air metering screw
2 Oil proportioning element
3 Initiator
4 Outlet G1/8
5 Vent screw
6 Oil connector G1/8
7 Air connector G1/8

Outlets Number	2	4	6	8
Measure "A"	62	106	150	194
Measure "B"	without	55	55	55

Technical data:

Air operating pressure	
max.:	10 bar
min.:	2 bar
Oil operating pressure	
max.:	45 bar
min.:	Outlet pressure + 20 bar
Oil relief pressure:	< 1,2 bar
Medium:	Oil
Viscosity:	up to 3000 mm²/s
Temperature range:	0 ... 70 °C
Material:	Alu / steel
Visual range:	PMMA
Sealing material:	FPM (Viton)
Weight:	
VOE-D/2	0,8 kg
VOE-D/4	1,4 kg
VOE-D/6	2,0 kg
VOE-D/8	2,6 kg

Initiator:

Operating voltage:	10 ... 30 VDC
Residual ripple:	≤15%
Load current:	130 mA
System of protection:	IP67
Electrical connection:	Four-pole unit plug (M12) (for matching cable jack see auxiliaries)

Connection diagram:

- Subject to modifications -

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Mode of operation:

The oil volume as allocated by proportioning element **A** (DEB) causes pin **B** to shift. This pin attenuates initiator **D**. After completion of oil delivery, pin **B** is moved back into its home position by means of the spring.
The oil is delivered into the oil-air mixing channel via an oil check valve **RO**. The transport air coming from the air check valve **RL** moves the oil as a steady lubricant coating to the friction point.
Every point an air throttle screw **C** is allocated to. This screw enables the required compressed air throughput to be adjusted.

Functional scheme proportioning element DEB:

Idle position, no oil delivery

Lubricant delivery and pressure build-up. Proportioned lubricant volume is allocated to.

Pressure relief in oil inlet. Lubricant in proportioning element is rearranged.

Purchase-designation:

OL-single-line distributor

Outlets Number	Proportioning volume per point [mm³]	Electrical delivery monitoring
② ④ ⑥ ⑧	11 ① 110 ⑤ 22 ② 170 ⑥ 34 ③ 230 ⑦ 57 ④ without ⓪ (Blind element)	with initiator Ⓝ without initiator Ⓛ

Purchase-example:

OL-single-line distributor with 4 outlets, proportioning volume 57; 110; 230; 170 mm³ and initiator at point 1, 2, 4.

Purchase-designation:

VOE-D / 4 / 4N / 5N / 7L / 6N

Spare parts		Purchase-no.
Proportioning element	11	160.222-67
Proportioning element	22	160.224-67
Proportioning element	34	160.228-67
Proportioning element	57	160.234-67
Proportioning element	110	160.216-67
Proportioning element	170	160.218-67
Proportioning element	230	160.236-67
Blind element		160.208-67
Initiator		913.900-07
Cable jack per initiator (purchase separately, please)		913.404-46