

perma FLEX

The all-in-one lubrication system



II 1G Ex ia IIC T6
II 1D Ex iaD 20 T85°C
I M1 Ex ia I



TIIS



Flexible use – even on lubrication points with challenging requirements

perma FLEX is a compact, ready-to-use lubrication system supplied as a complete unit. It can be used in various types of applications at temperatures ranging from -20 °C to +60 °C / -4 °F to +140 °F. Discharge period setting is freely adjustable from 1 to 12 months. The required pressure is developed via an electronically controlled chemical reaction. The lubrication point is continuously supplied with fresh lubricant throughout the selected discharge period. perma FLEX is available in sizes 60 cc / 2.03 oz and 125 cc / 4.23 oz.

perma

Applications / machine elements



perma FLEX is suitable for single-point lubrication in all types of applications. It fulfils the requirements of IP 68 (ingress of water/contamination) and functions reliably in extremely dusty and moist environments. It can furthermore be used at various temperatures, also outdoors. Discharge can be suspended if required. The discharge period can also be adjusted after activation.



Product characteristics

Benefits



All-in-one system with rotary switch for discharge period setting:
1, 2, 3 ... 12 months

- System is supplied fully mounted and is ready to use immediately
- Easy setting and activation using rotary switch
- Discharge period can be regulated from 1–12 months in monthly steps



System operates reliably from
-20 °C to +60 °C / -4 °F to 140 °F

- Flexible use in various temperature ranges
- Year-round outdoor use possible



Ex-proof certification
FM approval
IP 68

- Safe and reliable lubrication in explosive areas
- Can be used in very moist and dusty environments
- Increased workplace safety

Technical data

Drive

Electrochemical reaction via gas generating unit

Discharge period at +20 °C / 68 °F perma Multipurpose grease SF01
1, 2, 3 ... 12 months

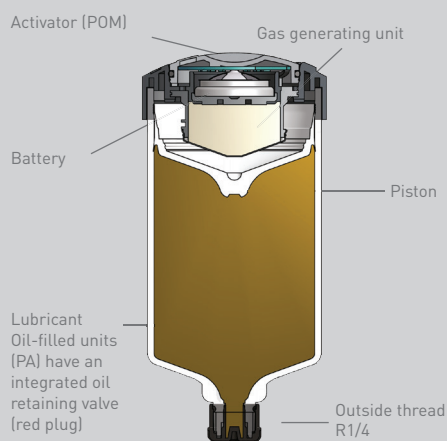
Lubricant volume
60 cc or 125 cc / 2.03 oz or 4.23 oz

Operating temperature
-20 °C to +60 °C / -4 °F to 140 °F

Pressure build-up
Max. 5 bar / 73 psi

Protection class
IP 68

Standard & special lubricants
Greases up to NLGI 2/oils



Dimensions FLEX 60:
Ø 58 x 86.5 mm
Ø 2.28 x 3.41 Inch

Dimensions FLEX 125:
Ø 58 x 117 mm
Ø 2.28 x 4.61 Inch

Discharge period setting in months:

Reference values for emptying without counter pressure using NLGI 2 lubricant.

Grease residues possible at temperatures >+40 °C / 104 °F and discharge periods >6 months.



	1	3	6	9	12
at -20 °C / -4 °F	2	5	10	13	15
at 0 °C / 32 °F	1.3	3.8	7.2	11	13
at +20 °C / 68 °F	1	3	6	9	12
at +40 °C / 104 °F	0.8	2.5	5.2	7.5	10
at +60 °C / 140 °F	0.6	2	4	-	-