

perma FLEX perma FLEX PLUS

The flexible, compact lubrication system for high demands



perma FLEX



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



perma FLEX PLUS



I M1 Ex ia I Ma
II 1 G Ex ia IIC T6 Ga
II 1 D Ex ia IIIC T85 °C Da

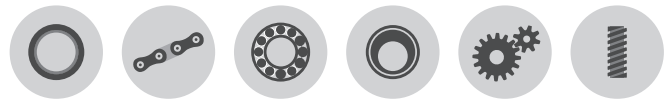
ANZEx



Flexible use – even on lubrication points with challenging requirements

perma FLEX and perma FLEX PLUS are compact, ready-to-use lubrication systems which are delivered as a complete unit. They can be used in various types of applications at temperatures ranging from $-20\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$ (FLEX PLUS: $+55\text{ }^{\circ}\text{C}$). The discharge period setting is freely adjustable from 1 to 12 months. The required pressure of up to 5 bar is built up using 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 cm^3 and 125 cm^3 ; perma FLEX PLUS also in 30 cm^3 .

Applications | Machine elements



perma FLEX and perma FLEX PLUS comply with IP 68 requirements (ingress of fluids / solids) and operate reliably in extremely dusty and moist ambient conditions. Lubrication can be interrupted if required. The discharge period can be changed even after activation. perma FLEX PLUS is ideal for use in the chemical-, pharma-, and food industry.



Product characteristics



perma FLEX PLUS
Drive with gas generating cells and boost function

→ Activation of boost function ensures quick lubricant supply



All-in-one system with rotary switch for setting the discharge period:
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



Ex-proof certification 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

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

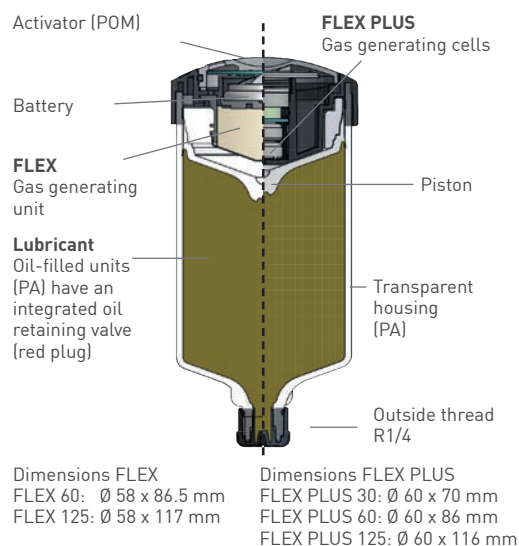
Lubricant volume
30 cm³ / 1.01 oz (FLEX PLUS)
60 cm³, 125 cm³ (FLEX & FLEX PLUS)
2.03 oz, 4.23 oz (FLEX & FLEX PLUS)

Operating temperature
-20 °C to +60 °C / +55 °C (FLEX PLUS)
-4 °F to +140 °F / +131 °F (FLEX PLUS)

Pressure build-up
Max. 5 bar / 75 psi

Protection class
IP 68

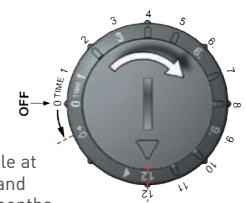
Standard & special lubricants
Greases up to NLGI 2 / Oils



Discharge period setting in months:

Reference values for emptying without counter pressure with lubricant NLGI 2 for perma FLEX 125 / perma FLEX PLUS 125.

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



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

perma-tec GmbH & Co. KG
Hammelburger Str. 21
97717 Euerdorf
GERMANY

Tel.: +49 9704 609 - 0
info@perma-tec.com
www.perma-tec.com