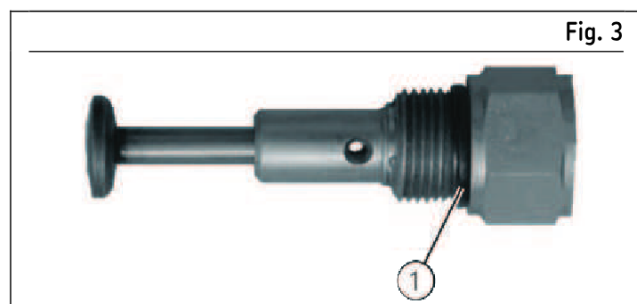


3.1.1 Model designs

Table 3						
Model designs						
Application	Designation	Monitoring		Control		Mounted manifold
		Fill level	Cycle switch	external	Internal	
Commercial vehicles 12 V / 24 VDC	KFA1	-	-	•	-	-
	KFA1-W	•	-	•	-	-
	KFAS1	-	-	-	•	-
	KFAS1-W	•	-	-	•	-
	KFAS1-W-3 (4, ...9)	•	-	-	•	•
Industrial applications 24 VDC	KFA1-M	-	-	•	-	-
	KFA1-M-W	•	-	•	-	-
	KFAS1-M	-	-	-	•	-
	KFAS1-M-Z	-	•	-	•	-
	KFAS1-M-W	•	-	-	•	-
	KFAS1-M-W-Z	•	•	-	•	-
Industrial applications 115 V / 230 VAC	VKFA10	-	-	•	-	-
	KFA10-W	•	-	•	-	-
	KFAS10	-	-	-	•	-
	KFAS10-W	•	-	-	•	-
	KFAS10-W-3 (4, ...9)	•	-	-	•	•

3.2 Pump elements



Pump element with O-ring

Legend to Figure 3:

1 O-ring

Piston pump units with reservoir possess two lubricant outlets that can be equipped with a pump element. Unused pump outlets must be closed using a plug screw.

The pump elements meter the lubricant then feed it into the main lubricant line of the centralized lubrication system.

Model designs with progressive distributors (3- to 9-port) mounted on the pump housing feed the lubricant directly into the progressive distributor. The lubricant is then transported from the metering device's outlets directly to the lubrication points.

The pump elements are designed for different delivery rates depending on the lubrication task. The different designs are indicated by grooves on the wrench hexagon: see following table.

For additional details about the pump elements, see the associated documentation.

Table 4		
Available pump elements		
Order No.	Delivery rate in cm ³ /min ¹⁾	Number of grooves
KFA1.U1	2.0	1
KFA1.U2	1.5	2
KFA1.U3	1.0	3

¹⁾ Output of NLGI Grade 2 grease at a temperature of 20 °C and back pressure of 50 bar

3.3 Pressure limiting valve

⚠ WARNING



Pressure

Damage and injury from operation without a pressure limiting valve

Piston pump units with reservoir must only be operated with the pressure limiting valve installed. Non-observance may result in severe injury or death and damage to property due to overpressure.