APPLICATIONS

. . . for multi-line systems (fig. 1)
In a single lubrication cycle each of the 8 and/or 9 lubrication points receives 0.5 cm^3 lubricant in turn, starting at no. 1.
The number of lubrication points must be stated on the order: the number can be changed subsequently only by changing the loose part groups (see operating instructions).
If it is required that a lubrication points hall receive 1.0 or 1.5 cm^3 lubricant per lubrication cycle, 2 or 3 outlets must be connected together.

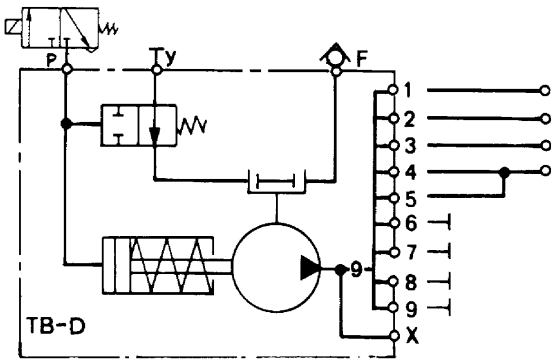


Fig. 1. Example of application :
multi-line pump with 3 normal outlets and 1 outlet with double delivery volume, pneumatically-operated.

. . . with progressive distributors
at operating through hand lever (fig. 2):
a progressive system can also be used to supply 4.0 cm^3 lubricant per stroke from outlet X, the outlet 1 to 8 in that case being closed. Depending on the local circumstances, this may enable a more favourable line layout to be used. Due to the appropriate design of the progressive distribur it is possible to supply connected lubrication points with different quantities of lubricant.

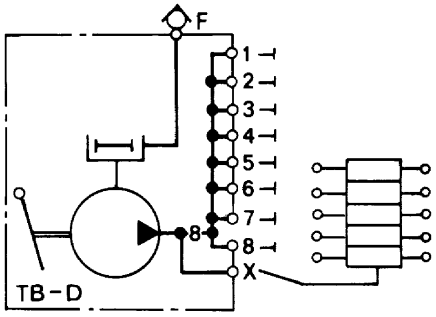


Fig. 2. Example of application :
progressive system for differently lubricant quantity.

at pneumatically-operated (fig. 3):
if more than 9 lubrication points are to be supplied with grease, or if certain lubrication points are to receive less than 0.5 cm^3 lubricant per lubrication cycle, progressive distributors can be added. Furthermore, it is possible to monitor the operation of the pump by means of a limit switch fitted on the progressive distributor, in conjunction with an electrical control system. In Fig. 3, e.g., the type ZP-A progressive distributor connected to outlet X, supplies each of the 12 lubrication points connected to it with 4.5 cm^3 per pump stroke, lubricant in a before choice relation.

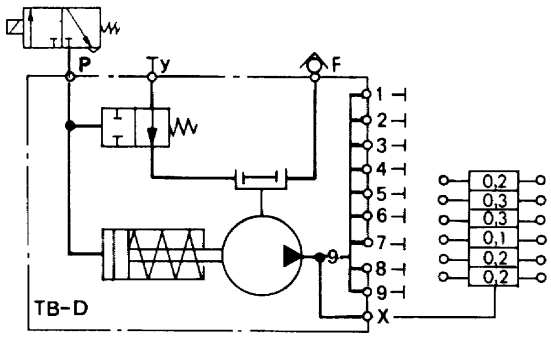


Fig. 3. Example of application :
progressive system for differently lubricant quantity.

. . . for single-line systems (fig. 4)
using type ZE-D distributors for oil or semifluid grease, or type ZE-E for oil. If the lubricant requirement for all the lubrications points is less than 1.5 cm^3 and if at the sam time, the main feed lines in the system are short (= 5 m), then all the lubrication points can be supplied with lubricant in one lubrication cycle. In this case the main feed line for the single-line system, is connected to outlet X. All the other outlets are closed. Pressure relief from the main feed line is effected via a second connection from the main feed line to Y.

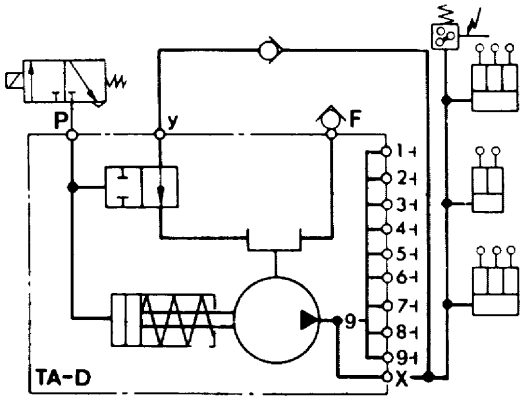


Fig. 4. Example of application :
single-line system for oil with about 15 lubrication points and an as the max. total amount of lubricant to be supplied from 1.5 cm^3.

APPLICATIONS (continuous)

. . . for spray lubrication systems (grease) (fig. 5)
For exposed gearwheels which only need to be sprayed with lubricant occasionally, it is possible to use a spray lubrication system with its air supply controlled by a timer. An signal issued from the series-connected pulse transmitter causes a way valve to operate momentarily, resulting in the pump operating and 0.5 cm^3 grease being delivered to the spray nozzles from each of the outlets 1 to 4, while at the same time cpmpressed air is fed to the nozzles to spray the grease.

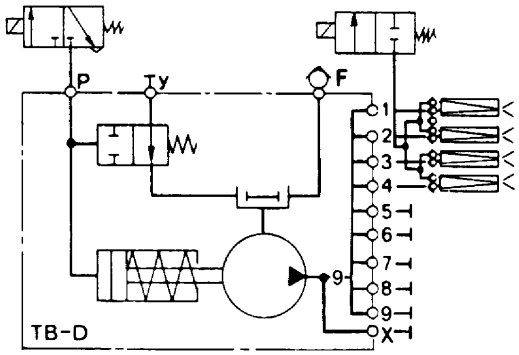


Fig. 5. Example of application :
spray lubrication system for grease.

. . . for mixed lubrication (oil or semifluid grease) (fig. 6)
In the system shown, the pump outlets 4 and 5 are directly connected to lubrication points and 3 spray lubrication points are connected via mixing segments to the pump outlets 1 to 3. In each pressure cycle, 0.5 cm^3 oil or semifluid grease is pumped into each of the 3 mixing segments. The compressed air supply to the mixing valve is turned on by a way solenoid valve. The lubricant is forced along the inside wall of the line to the spray nozzle, where the compressed air causes it to spray out during a period of some length.
If there are more than 8 lubrication points a single-line system with mixing distributors should be used. The system can be supplied with a system for monitoring the lubricant, the compressed air and any blockage of the nozzles. In this case the lubricant supply to the mixing distributors is via a progressive distributor (see publication X 60P 5e)

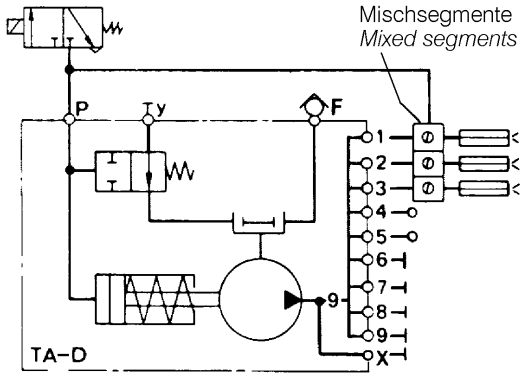


Fig. 6. Example of application :
combined multi-line and mixed lubrication system.

Control system dependent on the machine cycle (fig. 7)
e.g. by means of a mechanical pulse counter fitted to presses or machine tools. Each time after the set number of pulses has been counted, compressed air is applied momentarily to the pump, thereby initiated a lubrication cycle.

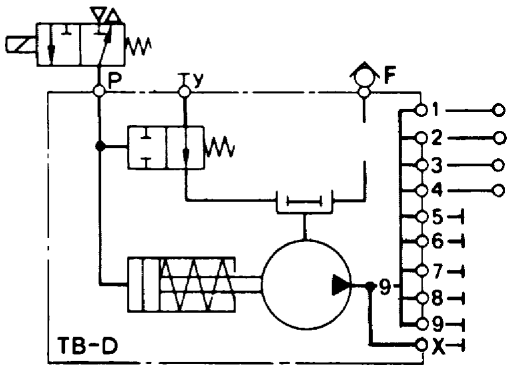
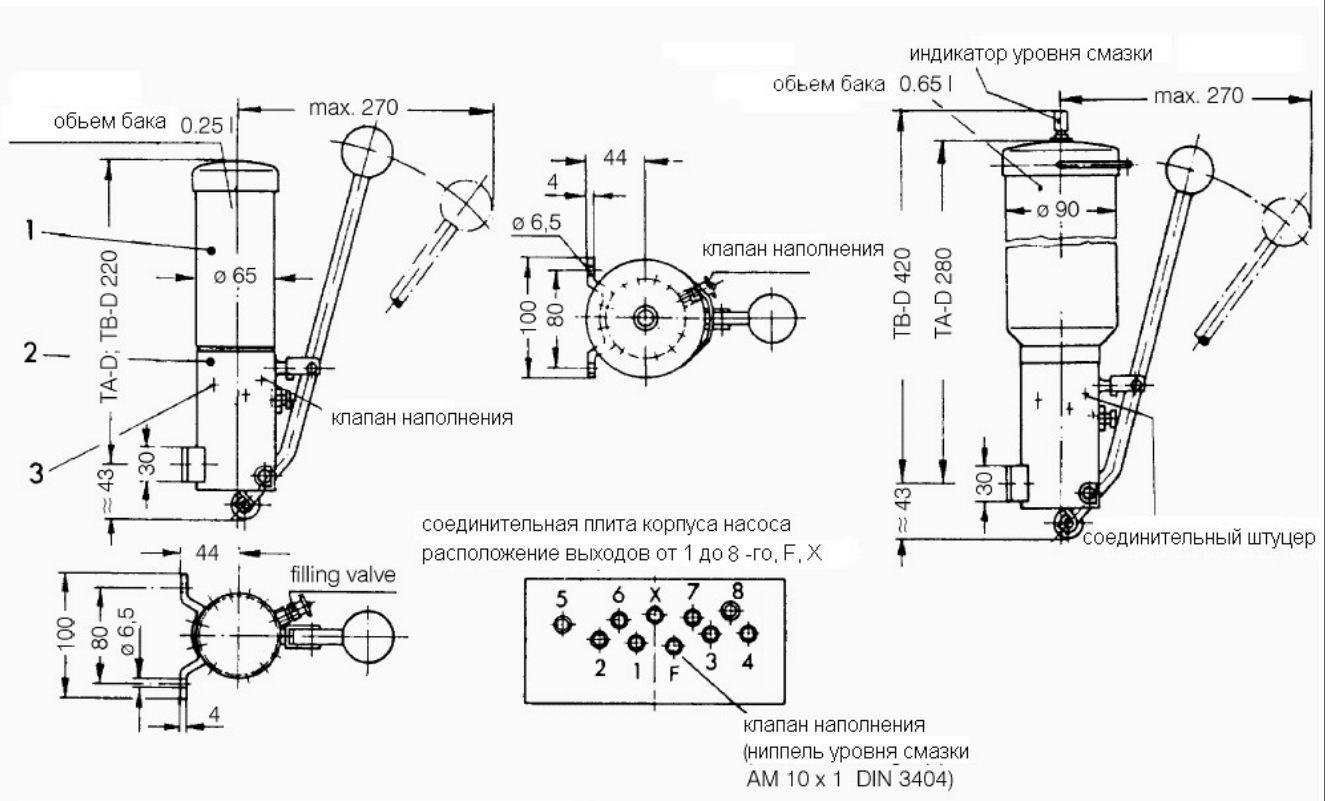
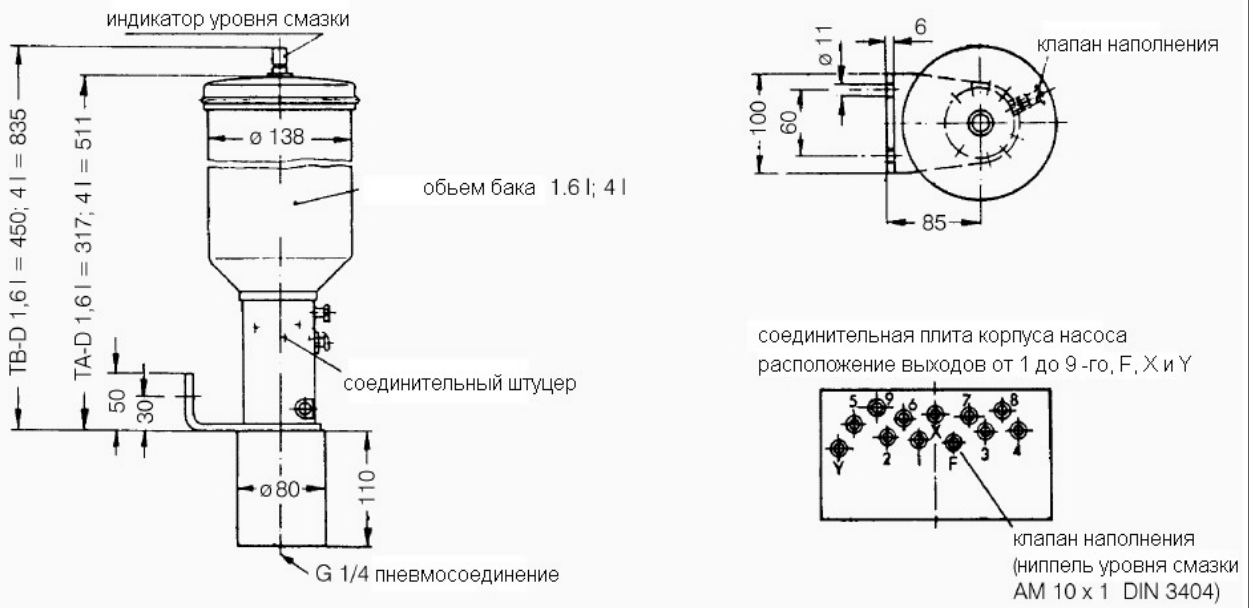


Fig. 7. Example of application :
control by pulse counter working on the machine cycle.

DIMENSIONS (mm)



Смазочная станция TA-D и TB-D с ручным приводом



Смазочная станция TA-D и TB-D с пневмоприводом

CODE NOS.

Item	Designation		TA - D (oil) hand lever operated	TB - D (grease) hand lever operated	TA - D (oil) pneumatically operated	TB - D (grease) pneumatically operated
—	lubrication pump		21153 - 9000	21153 - 4000	21153 - 9000	21153 - 4000
1	reservoir 0,25 l oil		63721 - 1141	—	—	—
	reservoir 0,65 l oil		63721 - 1161	—	—	—
	reservoir 0,25 l grease		—	63721 - 1151	—	—
	reservoir 0,65 l grease		—	63721 - 1171	—	—
	reservoir 1,6 l oil		—	—	63721 - 1811	—
	reservoir 4,0 l oil		—	—	63721 - 1821	—
	reservoir 1,6 l grease		—	—	—	63721 - 1831
	reservoir 4,0 l grease		—	—	—	63721 - 1841
2	pump body		62871 - 1321		62871 - 1221	
3	loose components group (L-group) outlet number					
	open	closed				
	1	2 up to 8 and X	69112 - 1611			
	1 and 2	3 up to 8 and X	69112 - 1621			
	1 up to 3	4 up to 8 and X	69112 - 1631			
	1 up to 4	5 up to 8 and X	69112 - 1641			
	1 up to 5	6 up to 8 and X	69112 - 1651		—	
	1 up to 6	7 and 8 and X	69112 - 1661			
	1 up to 7	8 and X	69112 - 1671			
	1 up to 8	X	69112 - 1681			
	X	1 up to 8	69112 - 1691			
	1	2 up to 9, X and Y			69112 - 1411	
	1 and 2	3 up to 9, X and Y			69112 - 1421	
	1 up to 3	4 up to 9, X and Y			69112 - 1431	
	1 up to 4	5 up to 9, X and Y			69112 - 1441	
	1 up to 5	6 up to 9, X and Y			69112 - 1451	
	1 up to 6	7 up to 9, X and Y		—	69112 - 1461	
	1 up to 7	8 up to 9, X and Y			69112 - 1471	
	1 up to 8	9 up to X and Y			69112 - 1481	
	1 up to 9	X and Y			69112 - 1491	
	X	1 up to 9 and Y			69112 - 1511	
	X and Y	1 up to 9			69112 - 1521	

EXAMPLE OF ORDERING

A grease pump TA - D for multi-line systems with a 1.6 l reservoir for oil with 9 outlets and pneumatic operation is required.

1 oil lubrication pump TA-D 9 / 1.6
pneumatically operated

Code no.: _____ 21153 - 9000

ACCESSORIES

Code no. for screw joints

Pipe external dia.		Designation	Code no.
optionally	6	male fitting	73511 - 5153
		double conical ring	73511 - 2644
	6	ring connection piece hollow bolt double conical ring male fitting 2 seal rings	63422 - 3071
optionally	8	connection piece	73490 - 5263
		seal ring	72712 - 1094
		male fitting	73511 - 5223
		double conical ring	73511 - 2654
	8	ring connection piece hollow bolt 2 seal rings male fitting double conical ring	63422 - 3091

Code no. for special accessories, pneumatically operated

Designation	Code no.
non return valve response pressure 0.5 bar	73611 - 5123
3/2-way solenoid valve 24 V DC	38152 - 1423
3/2-way solenoid valve 220 V 50 Hz	38152 - 1413

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