

PRODUCT CATALOGUE • GREASE

CENTRALISED LUBRICATION SYSTEMS

Grease Lubrication Catalogue

High, middle and low pressure grease pumps, progressive and volumetric distributors, fittings and hose for centralised lubrication of heavy and mobile machinery.



PUMPS	DISTRIBUTORS	DOCUMENT	REVISION
05	08	AMAG-CAT-GRS-01	Rev A

00 Contents

A	Pumps for grease lubrication Five pumps across the three pressure classes: one manual, four motor-driven. Choose the class first, then the reservoir and the controller.	GM Type Motor-Driven Grease Pump · ZJ Series High Pressure Piston Grease Pump · PJ Series Motor-Driven Grease Pump · NKGH Type Manual Grease Pump · AP Type Motor-Driven Grease Pump
B	Grease distributors Progressive blocks first — SD1, SD2, SD3 and the integrated U-shape — then the volumetric families for middle and low pressure circuits.	SD1 Series Block Progressive Distributor · SD2 Series Block Progressive Distributor · SD3 Series Block Progressive Distributor · U-Shaped Integrated Progressive Distributor · AD Volume Type Distributor · 35 Type Pressure Volumetric Distributor · RH-3 Inspecting Volume Type Distributor · DK Type Single Distributor
C	Filling & service equipment Barrel pumps, guns, tube and cutting tools. A grease circuit is only as reliable as the way it gets refilled.	Barrel grease replenish unit · Pneumatic grease gun · Manual grease gun · Copper tube assemblies · Nylon tube · Copper hose assemblies · Copper tube cutter · Nylon tube cutter · High pressure hose sets
D	Fittings & hose Brass fittings, copper and nylon tube, and high pressure hose rated for progressive circuits.	PA / PB / PT — Ø6 · PA / PB / PT — Ø4 · PL elbow fittings · PN fittings · Hose connectors · Sleeves, nuts and bushes · 3T manifold fitting · 4T manifold fitting · PD straight connector · Brass tee block · Union nuts · Tee fitting, large bore

PRESSURE DECIDES EVERYTHING Grade of grease, pump family, distributor type and hose rating all follow from one number: the output pressure the circuit runs at.	PROGRESSIVE VS VOLUMETRIC Progressive feeds points one after another from one pressure source. Volumetric meters a dose per point per cycle. Pick before you pick a pump.	CONTINUOUS IS WASTE Intermittent delivery forms and keeps the lubricant film. Continuous delivery adds heat, wastes grease and rarely lubricates better.
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HOW TO ORDER

Send the full model code on WhatsApp —

+91 73976 31796

. Every model number in this catalogue is built position by position; the coding rules are printed with each product. If you are unsure, send a photo of the fitting on the machine.

01 Three pressure classes

A grease circuit is classified by the output pressure of its drive source, and that one number decides everything downstream: which pump, which grease grade, which distributor family, which hose. High, middle and low. Every product in this catalogue belongs to one of the three, and mixing across them is the most common specification error we see.

01	High pressure progressive system ZJ series piston pump + SD or U-shaped progressive distributors A piston pump raises grease to as much as 30 MPa and feeds a master progressive distributor, which feeds secondary distributors, which feed the points in sequence. Full pump pressure reaches every point — none of it is divided. A blocked point raises system pressure until grease leaves the safety valve, so the circuit monitors itself.	NLGI 1# and 2#, also 0# / 00# / 000# 16 – 32 MPa · ZJ set to 30 MPa
02	Middle pressure system PJ pump or NKGH manual pump with take-off + 35 type pressure volumetric distributors The pump pressure drives the piston in each volumetric distributor, delivering the stored, metered dose to the point. The pump then stops and its pressure take-off valve relieves the line; the distributor re-meters and re-stores, ready for the next cycle.	NLGI 000# to 0# 10 – 16 MPa
03	Low pressure system AP type motor-driven pump + AD, RH-3 or 35 type distributors The same volumetric metering at chassis pressure. Two forms: inspecting volumetric, where a spring compressed during charging injects the dose at spring pressure; and pressure volumetric, where pump pressure itself makes the delivery.	NLGI 000# to 0# Below 10 MPa · AP set to 3.8 MPa

PROGRESSIVE Points are fed one after another from a single pressure source. Full pump pressure reaches every point in turn — nothing is divided — so a progressive circuit will push grease into a bearing that a volumetric circuit cannot. One blocked point stops the whole assembly and raises pressure until the safety valve opens. That is a feature: the circuit reports its own failure.	VOLUMETRIC Each outlet meters a stated dose per cycle, set at the distributor. Points work independently, so one blocked branch starves one point and leaves the rest running. Needs a pump with a pressure take-off mechanism: the distributor re-meters only when the main line is relieved. Choose volumetric when doses differ point to point.
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WHERE THESE CIRCUITS RUN

HIGH PRESSURE · ZJ + SD Engineering & construction Excavators, cranes, loaders — points that are hard to reach and easy to forget	HIGH PRESSURE · ZJ + SD3 Wind energy Main, pitch, blade and yaw bearings, and generators in wind turbines	HIGH PRESSURE · ZJ + SD2 Steel & heavy machinery Rolling mills, forging presses, mining and material handling plant
MIDDLE PRESSURE · GM + 35 TYPE Plastic injection moulding Tie bars, toggle pins and platens on horizontal and vertical machines	MIDDLE PRESSURE · PJ + 35 TYPE Presses & die casting Slides, gibs and ejector mechanisms under continuous shock load	LOW PRESSURE · AP + AD Automotive chassis Buses, trucks and trailers — the low pressure AP circuit's home ground

Section A

Pumps for grease lubrication

Five pumps across the three pressure classes: one manual, four motor-driven.

Choose the class first, then the reservoir and the controller.

GM Type Motor-Driven Grease Pump

Alloy-steel gear pump raising grease to 35 kgf/cm² on a 2 L or 4 L tank — the standard middle-pressure pump for plastic and engineering machinery.

	NOMINAL PRESSURE 3.5 MPa (35 kgf/cm ²)	DISCHARGE 260 – 300 ml
	RESERVOIR 2 L / 4 L	GREASE NLGI 00# / 000#

A special alloy-steel gear set gives stable output pressure and low noise at 90 W. Nominal pressure is 3.5 MPa, maximum 5.0 MPa — enough to cycle a 35 type pressure volumetric block, a progressive distributor or a resist-type distributor, and to feed each point a precise dose or a fixed proportion.

A grease level sensor raises an inadequate-grease alarm on its own. A point-action switch lubricates the machine at any moment between cycles. With the pressure switch fitted, the pump reports line pressure to the main unit for fully automatic control; with the automatic pressure take-off device fitted, it forms a complete moderate-pressure circuit with our 35 type distributors.

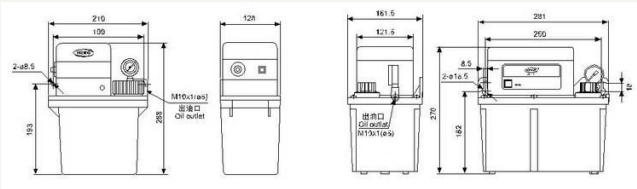
SPECIFICATION

Type	Motor-driven gear grease pump
Supply voltage	380 V, three-phase
Nominal rotary speed	2750 r/min (50 Hz) · 3300 r/min (60 Hz)
Motor power	90 W
Current	0.32 A (50 Hz) · 0.29 A (60 Hz)
Nominal pressure	3.5 MPa
Max pressure	5.0 MPa
Discharge capacity	260 ml (50 Hz) · 300 ml (60 Hz)
Oil tank volume	2 L or 4 L
Grease used	NLGI 00# / 000#

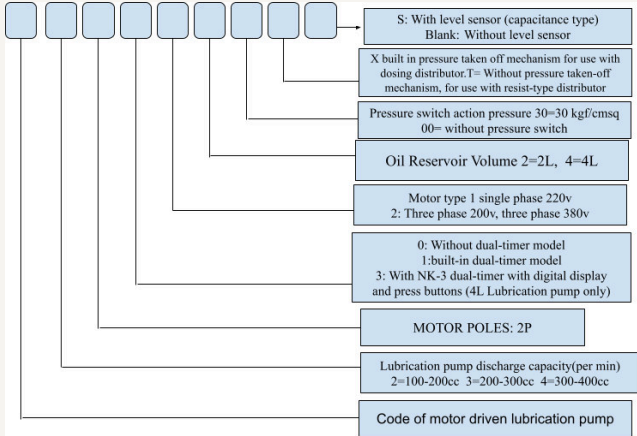
Monitoring	Grease level sensor standard · pressure switch optional
Options	Point-action switch · automatic pressure take-off device

MODEL SELECTION

MODEL	TANK	PRESSURE TAKE-OFF	TYPICAL CIRCUIT
GM-3204-2	2 L	Per order	35 type pressure volumetric
GM-3204-4	4 L	Per order	35 type pressure volumetric
GM-3234-4	4 L	Per order	Progressive or resist-type



Overall and mounting dimensions



GM model number – position by position

WHERE IT IS USED	ORDER ALONGSIDE
Plastic machinery	35 type pressure volumetric distributor
Engineering machinery	SD progressive distributors
Textile and printing machinery	Resist-type distributors
Woodworking, chemical and food machinery	NKGH-1804 manual pump for refilling

CHECK BEFORE ORDERING

Three-phase 380 V supply. Confirm the supply at the machine before ordering – this pump has no single-phase variant.

ZJ Series High Pressure Piston Grease Pump

Piston pump rated 30 MPa on DC 12 V or 24 V, handling grease up to NLGI 2# — the drive source for a high pressure progressive circuit.

	RATED PRESSURE 30 MPa (≈4350 psi)	GREASE NLGI 000# - 2#
	RESERVOIR 2 · 3 · 4 · 8 L	SUPPLY DC 12 V / 24 V · AC 230 V

Each outlet is served by its own piston mechanism, and the pump accepts up to two. Two mechanisms are available: ZJ-3602-05 with fixed output and ZJ-3602-05V with variable output, so dose per outlet is set at the pump rather than downstream.

The piston pair is special alloy steel, precision ground, for stable pressure and long life. An oil scraper releases air trapped in the grease as the paddle turns. A pressure switch gives a pressure signal and a liquid level switch gives a level signal, so a machine hundreds of metres away can be monitored from one panel.

Control is either time-programme (ZJ-3602-08-02A) or time-travel (ZJ-3602-08-02B), on the pump's own controller or from the main equipment's PLC.

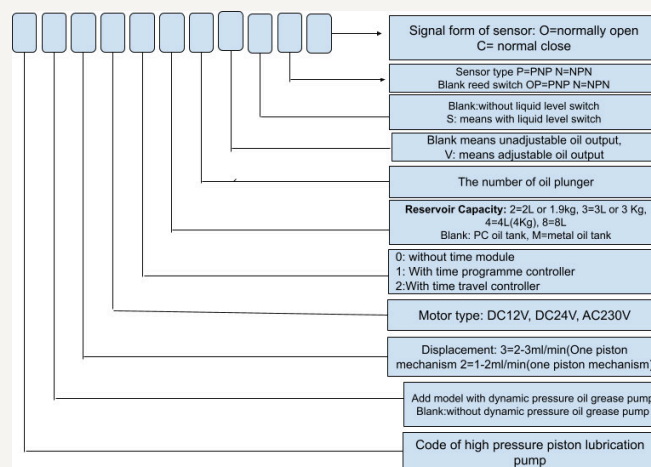
SPECIFICATION

Type	High pressure piston grease pump
Rated operating pressure	30 MPa
Piston mechanisms (outlets)	1 or 2 sets · fixed (ZJ-3602-05) or variable (ZJ-3602-05V)
Reservoir capacity	PC: 2 / 3 / 4 / 8 L · metal: 2 / 4 L
Lubricants used	NLGI 000# · 00# · 0# · 1# · 2# grease · mineral oil 40 mm²/s
Paddle rotation	Counterclockwise
Motor operating voltage	DC 12 V · DC 24 V · AC 230 V
Operating rotary speed	22 r/min

Operating current	0.8 / 0.4 / 0.1 / 4.0 / 2.0 / 0.3 A, by supply
Fusing current	5 A / 3 A / 1 A
Controller	Time-programme (-08-02A) or time-travel (-08-02B), or external PLC
Protection rating	IP65

MODEL SELECTION

MODEL	PISTON MECHANISMS	RESERVOIR	CONTROLLER
ZJ-3512 · ZJ-3612 · ZJ-3X12	1 set	2 L PC (1.9 kg)	Time-programme or time-travel
ZJ-3522 · ZJ-3622 · ZJ-3X22	1 set	2 L PC (1.9 kg)	Time-programme or time-travel
ZJ-3512/2 · ZJ-3612/2 · ZJ-3X12/2	2 sets	2 L PC (1.9 kg)	With controller
ZJ-3522/2 · ZJ-3622/2 · ZJ-3X22/2	2 sets	2 L PC (1.9 kg)	With controller



ZJ model number – position by position

WHERE IT IS USED

Engineering and mobile machinery
 Heavy equipment needing continuous monitored lubrication
 Progressive circuits with U-shaped or SD distributors

ORDER ALONGSIDE

SD1 / SD2 / SD3 progressive distributors
 U-shaped integrated progressive distributor
 High pressure hose rated above 30 MPa

CHECK BEFORE ORDERING Grease up to NLGI 2# only. The precision piston mechanism will be destroyed by sand, abrasive slurry or contaminated grease — filter what goes into the reservoir.

PJ Series Motor-Driven Grease Pump

Tank-type grease pump supplied in two builds — with pressure relief for volumetric circuits, without it for progressive circuits.

	GREASE NLGI 000# - 1#	TWO BUILDS With / without pressure relief
	CONTROL PLC or dedicated controller	TANK Pressure floating platform

Which build you order decides which distributor it can drive. Without the pressure relief mechanism, the PJ feeds progressive distributors — SDA, SD and DX series, and the U-shaped integrated block. With the pressure relief mechanism, it feeds positive volumetric distributors — 35 type, DK, AD and RH-3.

A pressure regulating valve sets the working pressure and protects the pump. A bleed valve clears air from the pump cavity so delivery starts clean. The tank uses a pressure floating platform, which draws grease down without leaving it to settle when a packed vacuum cartridge is used, and can carry a low-level alarm switch.

SPECIFICATION

Nominal pressure	8.0 MPa
Nominal flow	20 mL/min
Reservoir	0.3 · 0.8 · 1.5 · 2.5 L
Motor	AC 220 V · AC 380 V · DC 24 V
Type	Motor-driven tank-type grease pump
Builds	Without pressure relief (progressive) · with pressure relief (volumetric)
Control	Machine PLC or dedicated pump controller
Safety	Pressure regulating valve · bleed valve
Tank	Pressure floating platform, vacuum cartridge compatible

Monitoring	Low level switch, on request
Grease used	NLGI 000# - 1# - calcium, sodium, lithium, EP complex lithium, graphite calcium

WHERE IT IS USED	ORDER ALONGSIDE
Die casting equipment	SDA / SD / DX / U-shaped progressive distributors — build without pressure relief
Pressing machines	35 type, DK, AD, RH-3 distributors — build with pressure relief
Plastic injection moulding machines	
CNC machines and machining centres	NKGH-1804 manual pump for filling
Buses, robots and construction machinery	

CHECK BEFORE ORDERING

State the distributor type on the order. A PJ without the pressure relief mechanism will not cycle a volumetric distributor, and the mechanism is not a field-fit part.

NKGH Type Manual Grease Pump

Hand lever delivering 1.8 cc per stroke at up to 10 MPa, with two outlets — and the pump used to refill a PJ tank.

	DISCHARGE 1.8 cc / stroke	WORKING PRESSURE 10 MPa
	RESERVOIR 0.5 L, PC	GREASE NLGI 000# - 0#

Reciprocating the handle delivers grease to a separator or to a dosing distributor. On a resist-type circuit it feeds each point in proportion; on a U-shaped or SD progressive circuit it feeds the metered dose to each point in sequence.

Two outlets are provided, one blocked by a blank plug. Remove whichever suits the installation — left, right or both. On a progressive circuit only one outlet may be used.

SPECIFICATION

Model	NKGH-1804
Reservoir capacity	0.5 L
Reservoir material	PC
Suitable grease	NLGI 000# - 0#
Discharge capacity	1.8 cc / stroke
Working pressure	10 MPa
Pressure take-off	Not fitted
Outlets	2, one supplied plugged

WHERE IT IS USED

- Small progressive circuits
- Resist-type grease circuits
- Refilling PJ series pump tanks

ORDER ALONGSIDE

- U type progressive distributor
- SD type progressive distributor
- Resist-type proportion distributors
- PJ series pump — as its filling pump

CHECK BEFORE ORDERING On a progressive circuit use one outlet only, with the second left plugged. Two live outlets break the progressive sequence.

AP Type Motor-Driven Grease Pump

DC 12 V or 24 V chassis pump delivering 260 ml/min at 3.5 – 3.8 MPa, for vehicles and mobile plant.

	WORKING PRESSURE 3.5 – 3.8 MPa	DISCHARGE 260 ml/min
	RESERVOIR 3 L (3 kg), PC	SUPPLY DC 12 V / 24 V

Designed for automotive chassis — buses, trucks, trailers — and for engineering machinery, running off vehicle supply. Rated output pressure is 3.8 MPa, which is the ceiling of the low pressure class.

With a pressure take-off device fitted it drives AD volumetric, RH-3 and 35 type distributors. Without one it drives U type and SD progressive distributors. Both circuits are common on vehicles; say which you are building.

SPECIFICATION

Model	AP-31-300X · AP-32-300X
Reservoir capacity	3 L (3 kg)
Reservoir material	PC
Used lubricants	NLGI 000# – 0#
Operating voltage	DC 12 V / 24 V
Discharge capacity	260 ml/min
Working pressure	3.5 – 3.8 MPa



AP model number – position by position

WHERE IT IS USED

Bus, truck and trailer chassis
Engineering and construction machinery
Mobile plant on vehicle supply

ORDER ALONGSIDE

AD volumetric distributor
RH-3 positive volumetric distributor
35 type pressurised volumetric distributor
U type / SD progressive distributors – pump without take-off device

CHECK BEFORE ORDERING 3.8 MPa maximum. Do not specify an AP for a progressive circuit that needs high pressure at the point – that is a ZJ application.

Section B

Grease distributors

Progressive blocks first — SD1, SD2, SD3 and the integrated U-shape — then the volumetric families for middle and low pressure circuits.

SD1 Series Block Progressive Distributor

The smallest modular progressive block: three to ten working blocks assembled between an inlet and an end plate, feeding 1 to 20 points in strict sequence.

	MAX PRESSURE 25 MPa	MIN STARTING PRESSURE 1.4 MPa
	POINTS 1 – 20 per assembly	DOSE PER OUTLET 0.08 – 0.48 ml/cyc

Each working block's piston pair completes its stroke only after the adjacent block has completed its own, so the assembly delivers to the points one after another in a fixed order. While pressurised lubricant reaches the primary block the cycle continues indefinitely, dispensing the same metered dose every time; the moment supply stops, every piston stops where it is and restarts from that same point.

An assembly is a first and last block plus three to ten middle working blocks. Middle blocks with double outlets carry the suffix T; the second outlet can be taken from either end of the block, with a blank plug in the other. A built-in check valve is available on every block.

SPECIFICATION

Max working pressure	25 MPa
Min starting pressure	1.4 MPa
Lube points	1 – 20 per combined distributor
Suitable lubricant	Oil ≥ 68 mm²/s at 40 °C · grease penetration ≥ 265 at 25 °C, 150 g
Working temperature	–20 °C to +80 °C
Max cycling rate	200 cyc/min · 60 cyc/min on blocks with an indicator pin
Block assembly	3 to 10 working blocks
Optimum tube	Ø4 mm, 0.5 – 2.5 m · Ø6 mm, 1.2 – 3.5 m
Outlet thread	Rc 1/8

MODEL SELECTION

CODE	DOUBLE OUTLET	SINGLE OUTLET	DOUBLE	DOUBLE + PIN	SINGLE + PIN
08	0.08 ml	0.16 ml	SD1-08T	—	SD1-08SR
16	0.16 ml	0.32 ml	SD1-16T	—	SD1-16SR
24	0.24 ml	0.48 ml	SD1-24T	SD1-24JTR	SD1-24SR / SD1-24JSR

MODEL NUMBER — WORKED EXAMPLE

SD1-24JTR

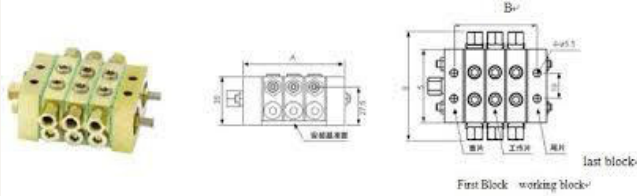
SD1 series block, 0.24 ml discharge per outlet per cycle, double outlet (T), with mechanical indicator pin on the right (JR).

RULES

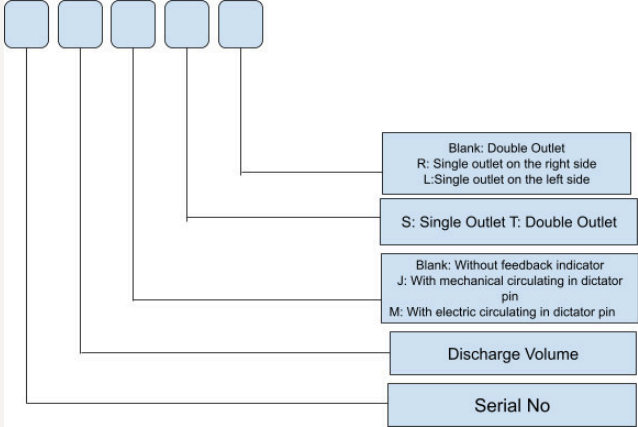
Discharge volume is per outlet, on one complete cycle of the block.

T = double outlet · S = single outlet · R = outlet or pin on the right · J = with indicator pin.

Block assembly sizes: 3 blocks 73.3 mm, 4 = 88.7, 5 = 103.5, 6 = 118.6, 7 = 133.6, 8 = 148.7 mm overall.



Block assembly and installation dimensions



SD1 order method

WHERE IT IS USED

- Large machinery and equipment
- Master distributors on single-line systems
- Any circuit where every point must be proved to have been fed

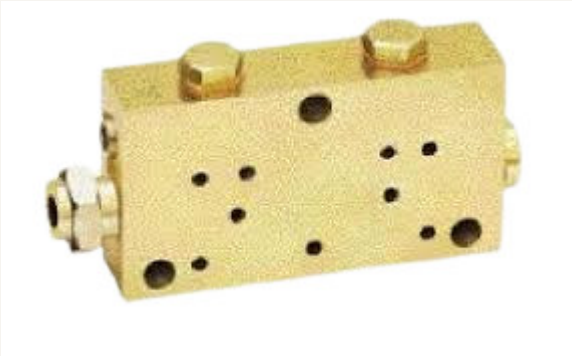
ORDER ALONGSIDE

- ZJ series high pressure piston pump
- PJ pump without pressure relief
- Ø4 / Ø6 branch tube

CHECK BEFORE ORDERING Progressive means sequential — one blocked point stops the whole assembly. That is the design intent: fit the safety valve at the pump and watch it.

SD2 Series Block Progressive Distributor

The mid-size progressive block: seven discharge volumes from 0.16 to 1.12 ml per outlet, three to ten blocks per assembly.

	MAX PRESSURE 25 MPa	MIN STARTING PRESSURE 1.4 MPa
	POINTS 1 – 20 per assembly	DOSE PER OUTLET 0.16 – 1.12 ml/cyc

Same progressive principle as SD1, in a larger frame with a wider dose range — the block to specify when the points need more grease per cycle than an SD1 can deliver.

Two indicator options. The mechanical pin extends and retracts with each cycle so the pump and distributor can be judged by eye. The electric micro-switch version is pushed by the piston to give a turn-on and turn-off signal, normally open or normally closed, which feeds back to the pump controller or the machine PLC.

SPECIFICATION

Max working pressure	25 MPa
Min starting pressure	1.4 MPa
Lube points	1 – 20 per combined distributor
Suitable lubricant	Oil ≥ 68 mm²/s at 40 °C · grease penetration ≥ 265 at 25 °C, 150 g
Working temperature	–20 °C to +80 °C
Max cycling rate	200 cyc/min · 60 cyc/min on blocks with an indicator pin
Block assembly	3 to 10 working blocks
Optimum tube	Ø6 mm, 1.2 – 3.5 m and 1.5 – 4.5 m

MODEL SELECTION

CODE	DOUBLE OUTLET	SINGLE OUTLET	DOUBLE	DOUBLE + PIN	SINGLE + PIN
16	0.16 ml	0.32 ml	SD2-16T	–	SD2-16SR

CODE	DOUBLE OUTLET	SINGLE OUTLET	DOUBLE	DOUBLE + PIN	SINGLE + PIN
20	0.20 ml	0.40 ml	SD2-20T	–	SD2-20SR
24	0.24 ml	0.48 ml	SD2-24T	–	SD2-24SR
32	0.32 ml	0.64 ml	SD2-32T	SD2-32JT	SD2-32SR / SD2-32JSR
40	0.40 ml	0.80 ml	SD2-40T	SD2-40JT	SD2-40SR / SD2-40JSR
48	0.48 ml	0.96 ml	SD2-48T	SD2-48JT	SD2-48SR / SD2-48JSR
56	0.56 ml	1.12 ml	SD2-56T	SD2-56JT	SD2-56SR / SD2-56JSR

MODEL NUMBER – WORKED EXAMPLE

SD2-40JT

SD2 series block, 0.40 ml per outlet per cycle, double outlet, with indicator pin.

RULES

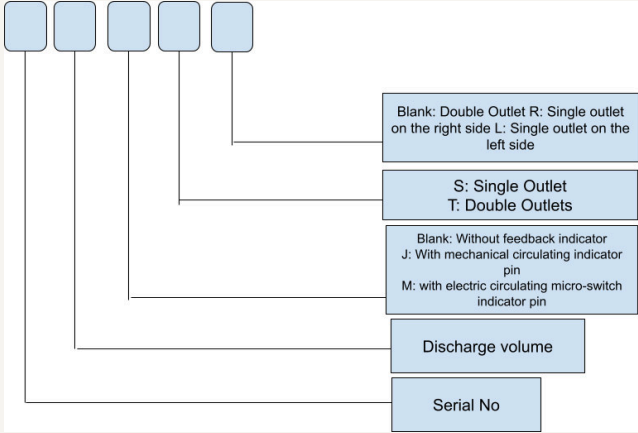
Assembly sizes A: 3 blocks 103.4 mm · 4 = 124 · 5 = 144.6 · 6 = 165.2 · 7 = 185.8 · 8 = 206.4 · 9 = 227 · 10 = 247.6 mm.

Sizes B run 89.4 mm at 3 blocks to 233.6 mm at 10.

A and B are theoretical values for reference – cumulative assembly deviation applies. Confirm before machining a mounting.



Working block with electric micro-switch indicator pin



SD2 order method

WHERE IT IS USED

Heavy machinery
Steel processing and forging plant
Master distributors feeding secondary blocks

ORDER ALONGSIDE

ZJ series high pressure piston pump
SD1 or SD3 blocks as secondary distributors
Ø6 branch tube

CHECK BEFORE ORDERING

Assembly dimensions are theoretical. Measure the built assembly before drilling the mounting plate.

SD3 Series Block Progressive Distributor

The largest progressive block: 0.40 to 4.80 ml per outlet per cycle, for points that need a lot of grease and get it rarely.

	MAX PRESSURE 25 MPa	MIN STARTING PRESSURE 1.4 MPa
	POINTS 1 – 20 per assembly	DOSE PER OUTLET 0.40 – 4.80 ml/cyc

Six discharge volumes from 40 to 240, single-outlet doses reaching 4.80 ml per cycle. Used where the master distributor has to move a large volume onward to secondary blocks, and on large bearings that take a substantial charge at long intervals.

Mechanical indicator pin or electric micro-switch, as SD2. Blocks are available with single or double outlets throughout the assembly.

SPECIFICATION

Max working pressure	25 MPa
Min starting pressure	1.4 MPa
Lube points	1 – 20 per combined distributor
Suitable lubricant	Oil viscosity ≥ 68 mm²/s
Working temperature	–20 °C to +80 °C
Max cycling rate	200 cyc/min · 60 cyc/min on blocks with an indicator pin
Block assembly	3 to 10 working blocks
Optimum tube	Ø6 mm, 1.2 – 3.5 m and 1.5 – 4.5 m

MODEL SELECTION

CODE	DOUBLE OUTLET	SINGLE OUTLET	DOUBLE	DOUBLE + PIN	SINGLE + PIN
40	0.40 ml	0.80 ml	SD3-40T	–	SD3-40SR
80	0.80 ml	1.60 ml	SD3-80T	SD3-80JT	SD3-80SR / SD3-80JSR

CODE	DOUBLE OUTLET	SINGLE OUTLET	DOUBLE	DOUBLE + PIN	SINGLE + PIN
120	1.20 ml	2.40 ml	SD3-120T	SD3-120JT	SD3-120SR / SD3-120JSR
160	1.60 ml	3.20 ml	SD3-160T	SD3-160JT	SD3-160SR / SD3-160JSR
200	2.00 ml	4.00 ml	SD3-200T	SD3-200JT	SD3-200SR / SD3-200JSR
240	2.40 ml	4.80 ml	SD3-240T	SD3-240JT	SD3-240SR / SD3-240JSR

MODEL NUMBER – WORKED EXAMPLE

SD3-120JSR

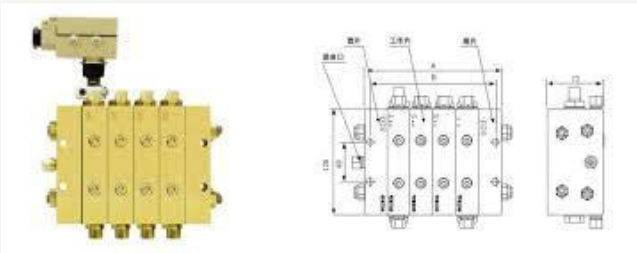
SD3 series block, 1.20 ml per outlet per cycle, single outlet on the right, with indicator pin.

RULES

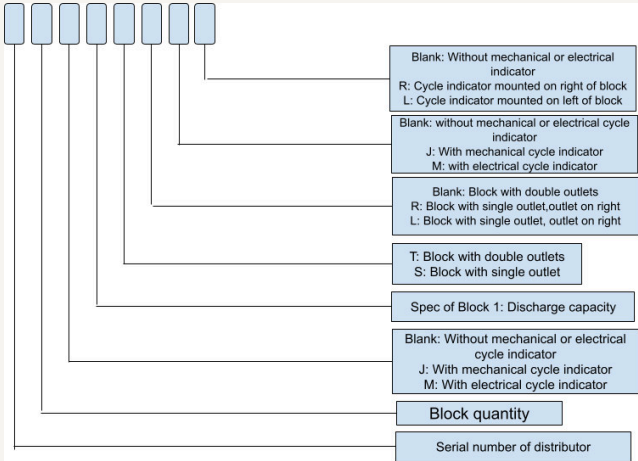
Assembly sizes A: 3 blocks 141.5 mm · 4 = 169.9 · 5 = 198.5 · 6 = 226.7 · 7 = 255.0 · 8 = 283.5 · 9 = 311.9 · 10 = 340.4 mm.

Sizes B run 129.1 mm at 3 blocks to 330.7 mm at 10.

T = double outlet · S = single · R = right · J = indicator pin.



Assembly and installation dimensions



SD series model number rules

WHERE IT IS USED

Wind, hydro and thermal power machinery
Mining and material handling plant
Master distributors on large single-line systems

ORDER ALONGSIDE

ZJ series high pressure piston pump
SD1 / SD2 blocks as secondary distributors
High pressure hose

CHECK BEFORE ORDERING Large doses need proportionally long pump run times. Size the pump's discharge against the whole assembly, not against one block.

U-Shaped Integrated Progressive Distributor

One-piece progressive valve for 4 to 12 points at 0.3 ml per cycle each — no blocks to assemble, no joints to leak.



POINTS 4 · 6 · 8 · 10 · 12	STANDARD DISCHARGE 0.3 ml / cyc
MAX NOMINAL PRESSURE 15 MPa	GREASE NLGI 000# - 1#

Each trunk piston set delivers its fixed volume to a point using the hydraulic pressure produced by the progressive action of the set before it. Supply the valve with lubricant at pressure and the sequence runs continuously; stop the supply and every piston set stops, resuming from the same point when pressure returns.

R models have no cycling feedback switch. M models have one, so the controller or PLC can confirm that the valve is actually cycling rather than merely being fed.

SPECIFICATION

Number of lube points	4 · 6 · 8 · 10 · 12
Standard discharge	0.3 ml per cycle, per point
Ambient temperature	-20 °C to +80 °C
Grease used	NLGI 000# - 1#
Max cycle rate	200 cyc/min · 60 cyc/min with feedback switch
Max nominal pressure	15 MPa
Preferred output pipe	Ø4 mm, 0.5 - 2.5 m · Ø6 mm, 1.2 - 3.5 m

MODEL SELECTION

MODEL	POINTS	FEEDBACK SWITCH
U-4R / U-4M	4	No / Yes
U-6R / U-6M	6	No / Yes
U-8R / U-8M	8	No / Yes

MODEL	POINTS	FEEDBACK SWITCH
U-10R / U-10M	10	No / Yes
U-12R / U-12M	12	No / Yes

MODEL NUMBER — WORKED EXAMPLE

U-4M

Four-outlet U-shaped progressive distributor with cycling feedback switch.

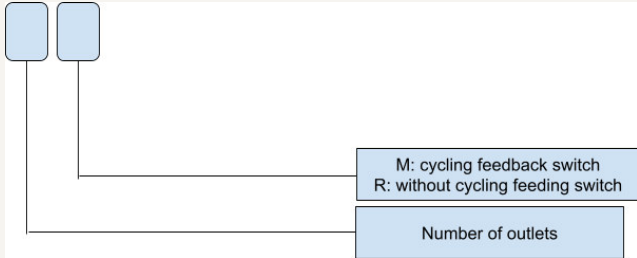
RULES

R = without cycling feedback switch. M = with.

The number is the outlet count, not the dose — dose is fixed at 0.3 ml per cycle.



U-M type with cycling feedback switch



U-shaped model number rules

WHERE IT IS USED	ORDER ALONGSIDE
Mobile machinery	ZJ or NKGH pump
Compact circuits with a fixed point count	PJ pump without pressure relief
Secondary distributors on a progressive master	AP pump without take-off device

CHECK BEFORE ORDERING

The dose is fixed at 0.3 ml per point. Where points need different doses, use an SD assembly instead.

AD Volume Type Distributor

Two to six metered outlets in a compact body designed around awkward installations and tight piping runs.

	OUTLETS 2 • 3 • 4 • 6	DOSE PER OUTLET 0.1 • 0.2 • 0.4 cc
	WORKING PRESSURE 2.5 – 5.5 MPa	GREASE NLGI 0# / 00# / 000#

Derived from the patented RH volumetric distributor and re-bodied for installation and piping constraints. Vibration-resistant construction and full testing at assembly; hole centres are 50 mm across all four sizes so one drilling pattern covers the family.

SPECIFICATION

Number of outlets	2 (AD2) • 3 (AD3) • 4 (AD4) • 6 (AD6)
Working pressure	2.5 – 5.5 MPa
Common discharge volume	0.1 • 0.2 • 0.4 cc per outlet, per cycle
Grease used	NLGI 0# / 00# / 000#
Installation hole	2 × Ø6.5 mm, 50 mm centres

MODEL SELECTION

MODEL	OUTLETS	OVERALL L × H × T
AD2	2	62 × 76 × 55 mm
AD3	3	79 × 76 × 55 mm
AD4	4	96 × 76 × 55 mm
AD6	6	130 × 76 × 55 mm

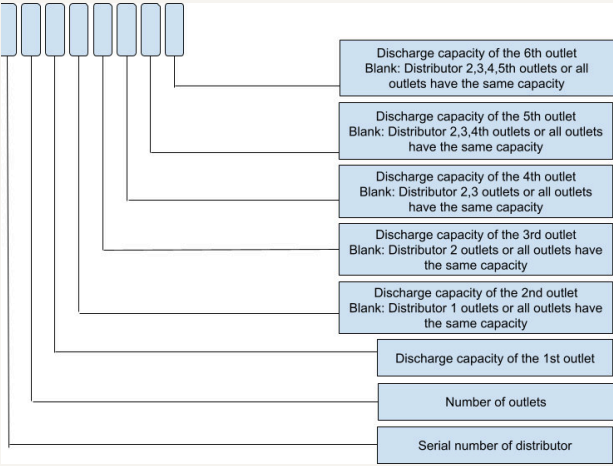
MODEL NUMBER – WORKED EXAMPLE

AD6103010203030

AD type, six outlets, doses $0.1 \cdot 0.3 \cdot 0.1 \cdot 0.2 \cdot 0.3 \cdot 0.3$ ml per cycle in outlet order.

RULES

- Dose codes: $10 = 0.1$ ml · $20 = 0.2$ · $30 = 0.3$ · $40 = 0.4$ ml per cycle.
- AD230 – two outlets, both 0.3 ml per cycle. One dose code means every outlet is the same.



AD model number rules

WHERE IT IS USED

- Automobile chassis
- Railway vehicles
- Engineering machinery

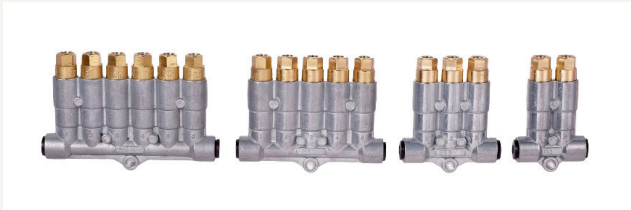
ORDER ALONGSIDE

- AP type motor-driven grease pump
- PJ pump with pressure relief
- Ø4 / Ø6 branch tube

CHECK BEFORE ORDERING 2.5 – 5.5 MPa working range. Below 2.5 MPa the distributor will not complete its stroke and points will be starved without any visible fault.

35 Type Pressure Volumetric Distributor

The middle-pressure workhorse: 0.1 to 0.6 ml per outlet per cycle, action guaranteed on grease at 30 – 40 kgf/cm².

	OUTLETS 2 · 3 · 4 · 5	DOSE PER OUTLET 0.1 – 0.6 ml
	ACTION PRESSURE Grease 30 – 40 kgf/cm²	GREASE NLGI 00# / 000#

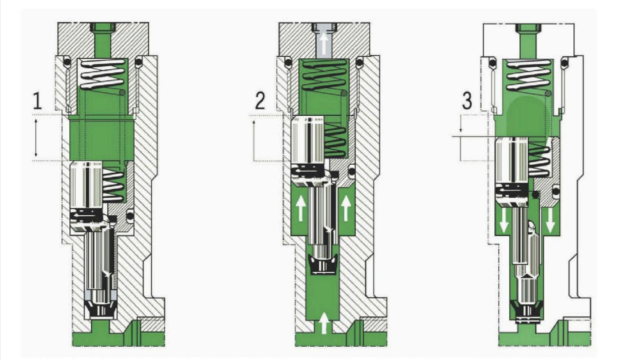
Three stages per cycle. One: pressure take-off complete and the dose accumulated, waiting to feed. Two: the pump raises pressure and the metered dose is fed to the points. Three: pressure is taken off in the main tube, the piston restores and fresh grease enters the chamber.

The same block handles oil at 12 – 15 kgf/cm², which makes it the one distributor to hold in stock for a plant running both.

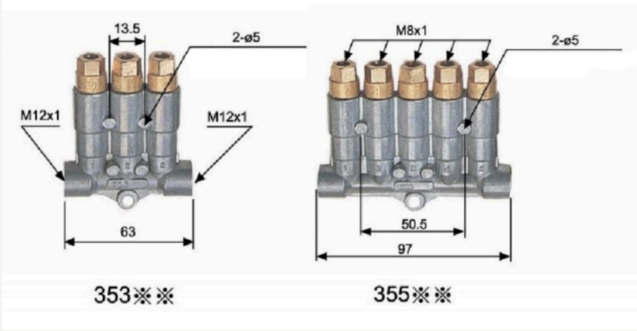
SPECIFICATION

Number of outlets	2 (352) · 3 (353) · 5 (355) · 6 (356)
Common discharge capacity	0.1 · 0.2 · 0.3 · 0.4 · 0.5 · 0.6 ml per outlet, per cycle
Action guarantee pressure	Grease 30 – 40 kgf/cm² · oil 12 – 15 kgf/cm²
Recommended lubricant	Grease NLGI 00# / 000# · oil 20 – 500 cst
Main tube connection	M12×1 at both ends

MODEL NUMBER – WORKED EXAMPLE 356102040601020 35 type, six outlets, doses 0.1 · 0.2 · 0.4 · 0.6 · 0.1 · 0.2 ml per cycle in outlet order.	RULES Dose codes: 10 = 0.1 ml · 20 = 0.2 · 40 = 0.4 · 6 = 0.6 ml per cycle. 35610 — six outlets, all 0.1 ml. 3521020 — two outlets at 0.1 and 0.2 ml.
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Working principle – take-off, pressurise, restore



Overall dimensions

WHERE IT IS USED

Injection moulding machines
Presses and die casting machines
Punching and heavy machinery

ORDER ALONGSIDE

GM or PJ pump with pressure take-off
AP pump with take-off device
PD35612 / PD35812 adapters

CHECK BEFORE ORDERING

The M12×1 ports need a PD35612 or PD35812 adapter to connect Ø8 or Ø6 main tube at either end. Order the adapters with the block. NLGI 00# or 000# only — a stiffer grade will stall the piston.

RH-3 Inspecting Volume Type Distributor

Volumetric block with a signal pin per outlet, in its grease build: two to five outlets, 0.03 to 0.4 ml, action guaranteed at 2.0 – 5.0 MPa.

	OUTLETS 2 · 3 · 4 · 5	DOSE PER OUTLET 0.03 – 0.4 ml
	ACTION PRESSURE Grease 2.0 – 5.0 MPa	GREASE NLGI 00# / 000#

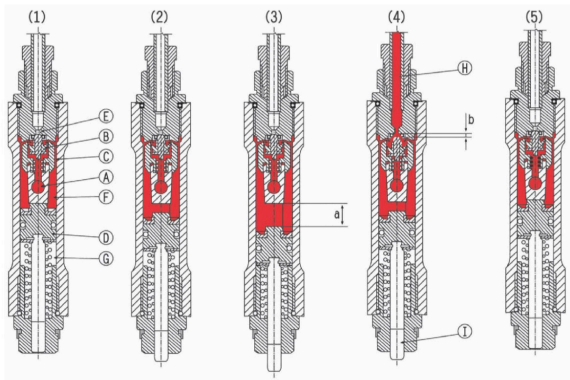
Grease injected through main tube A pushes open the umbrella-shaped double-sided valve B and passes via path C into piston chamber F. The piston moves down, spring G compresses, and the dose is measured and accumulated.

When pressure in main tube A is taken off, the valve moves down under the pressure difference and opens outlet E. The measured charge leaves via E into branch tube H and reaches the point. Signal pin I extends while metering and retracts on delivery, so the circuit can be proved by eye.

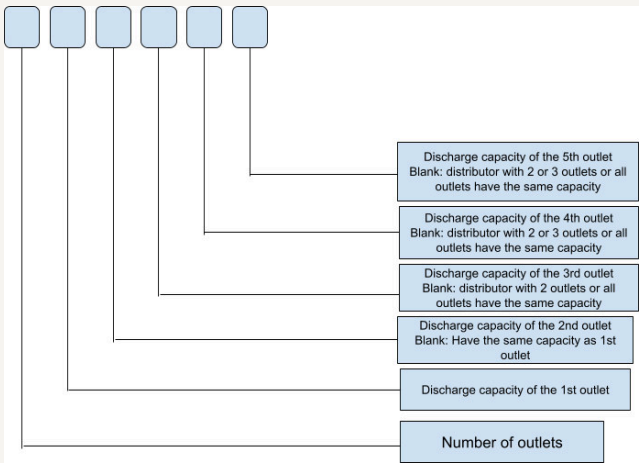
SPECIFICATION

Number of outlets	2 (RH-32G) · 3 (RH-33G) · 4 (RH-34G) · 5 (RH-35G)
Common discharge capacity	0.03 · 0.06 · 0.1 · 0.2 · 0.3 · 0.4 ml per outlet, per cycle
Action guarantee pressure	Grease 2.0 – 5.0 MPa · oil 1.2 – 1.5 MPa
Recommended lubricant	Grease NLGI 00# / 000# · oil 20 – 500 cst
Confirmation	Mechanical signal pin per outlet

MODEL NUMBER – WORKED EXAMPLE RH-350306102030 RH-3 type, five outlets, doses 0.03 · 0.06 · 0.1 · 0.2 · 0.3 ml per cycle in outlet order.	RULES Dose codes: 03 = 0.03 ml · 06 = 0.06 · 10 = 0.1 · 20 = 0.2 · 30 = 0.3 · 40 = 0.4 ml per cycle. RH-3503 — five outlets, all 0.03 ml. G suffix denotes the grease build. Oil models carry no suffix.
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Operating principle – charge, meter, deliver



RH-3 model number rules

WHERE IT IS USED

- Low pressure vehicle and chassis circuits
- Machine tools running grease at the point
- Circuits needing a different dose per point

ORDER ALONGSIDE

- AP or PJ pump with pressure relief
- Ø4 / Ø6 branch tube

CHECK BEFORE ORDERING The pump must have a pressure take-off mechanism. Without pressure relief the piston never returns and no dose is delivered.

DK Type Single Distributor

One metered outlet in one small body, fitted at the point — for the point a block distributor cannot reach.

	OUTLETS 1	DOSE 0.05 – 0.5 ml
	ACTION PRESSURE Grease 30 – 40 kgf/cm²	OUTLET TUBE Ø4

Used with PA and PB fittings on Ø4 tube and combinable with a TH type connector, so a single awkward point receives a stated dose without running a branch back to a manifold.

MODEL SELECTION

MODEL	DOSE PER CYCLE	LENGTH
DK-05 / DK-05G	0.05 ml	46.5 mm
DK-10 / DK-10G	0.1 ml	46.5 mm
DK-20 / DK-20G	0.2 ml	53.5 mm
DK-30 / DK-30G	0.3 ml	53.5 mm
DK-50 / DK-50G	0.5 ml	65.5 mm

MODEL NUMBER – WORKED EXAMPLE DK-30G Grease distributor, single outlet, 0.3 ml per cycle.	RULES Dose codes: 05 = 0.05 ml · 10 = 0.1 · 20 = 0.2 · 30 = 0.3 · 50 = 0.5 ml per cycle. G = grease build. Oil models carry no suffix.
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WHERE IT IS USED

Single remote points
Points added after commissioning
Machines with no room for a block

ORDER ALONGSIDE

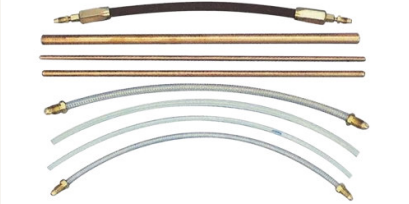
PA / PB fittings, Ø4 tube
TH type connector

CHECK BEFORE ORDERING Grease models take NLGI 000# and 00# only.

Section C

Filling & service equipment

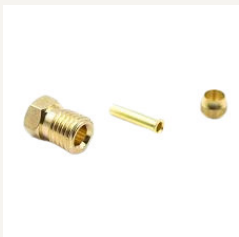
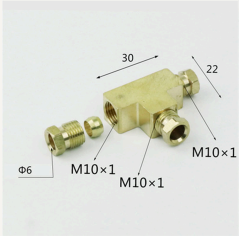
Barrel pumps, guns, tube and cutting tools. A grease circuit is only as reliable as the way it gets refilled.

		
Barrel grease replenish unit Motorised Fills pump reservoirs from a standard grease barrel without opening the tank to workshop dust.	Pneumatic grease gun Air operated Shop-air gun for manual top-up points and for priming a new circuit before first run.	Manual grease gun Lever type For filling PJ and AP reservoirs and for points deliberately left off the circuit.
		
Copper tube assemblies Ø4 · Ø6 Pre-formed with fittings both ends, for hot or exposed runs.	Nylon tube Ø4 · Ø6 · Ø8 Coil lengths for branch lines where there is no heat and no abrasion.	Copper hose assemblies Made to length Short flexible links between a fixed distributor and a moving point.
		
Copper tube cutter Ratchet type Square cut without swarf inside the tube — a burr is the most common cause of a blocked point.	Nylon tube cutter Shear type Clean square cut on Ø4 to Ø8 nylon tube.	High pressure hose sets Assorted lengths Rated for progressive circuits; supplied with couplers, elbows and extensions.

Section D

Fittings & hose

Brass fittings, copper and nylon tube, and high pressure hose rated for progressive circuits.

		
PA / PB / PT — Ø6 PA6 • PB6 • PT6 Straight, banjo and tee branch fittings for Ø6 tube.	PA / PB / PT — Ø4 PA4 • PB4 • PT4 The same family for Ø4 branch lines.	PL elbow fittings PL series 90° take-off where the tube cannot be bent to the point.
		
PN fittings PN series Nozzle-end fittings for open points and grease nipples.	Hose connectors 6 mm Tube-to-hose transition, brass body, M10×1.	Sleeves, nuts and bushes Assorted Compression parts to match every tube size in this catalogue.
		
3T manifold fitting 3T-10-10 Three-way brass block, M10×1 throughout, Ø6 tube.	4T manifold fitting 4T10-10 Four-way brass cross for splitting a main line.	PD straight connector PD series In-line union, including the PD35612 / PD35812 adapters the 35 type block needs.

		
Brass tee block Assorted Heavy brass tee for main-line branching at pressure.	Union nuts Assorted Replacement nuts and ferrules for field re-termination.	Tee fitting, large bore Assorted For Ø8 main lines on progressive circuits.

02 Ordering

Four things make a quote same-day: the model code, the machine it goes on, the quantity, and the NLGI grade of grease you are running. Send those on WhatsApp and you will get a price and a stock position back, not a form to fill in.

WHAT TO SEND Product: SD2 Progressive Block Model: SD2-40JT × 6 blocks Machine: 40 T crawler excavator Quantity: 2 assemblies Grease: NLGI 2#	IF YOU DO NOT HAVE A MODEL CODE Photograph the pump nameplate and the fitting at the point, and tell us how many points the machine has. That is enough for us to specify the circuit. For a replacement, add the original part number cast or printed on the old unit — most imported lubrication parts have an equivalent held in stock.
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