PRODUCT CATALOGUE · OIL

CENTRALISED LUBRICATION SYSTEMS

Oil Lubrication Catalogue

Motor-driven and manual oil pumps, volumetric and resist-type distributors, fittings and tubing for centralised lubrication of production machinery.

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

00 Contents

WHAT A CIRCUIT IS

One pump, one main line, one distributor per group of points, one fitting per point. Four parts, in that order.

HOW TO CHOOSE

Pick the distributor by dose per point, then the pump by total dose and pressure. Not the other way round.

WHAT WE HOLD

Pumps, distributors, fittings and tubing in stock for same-day dispatch. Ask for the part number you need.

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 What a centralised oil circuit is

A centralised oil lubrication circuit is four parts in one order: a pump that draws from a reservoir and pressurises a main line, a distributor that decides how much oil each point receives, tube that carries it, and a fitting that delivers it. Everything in this catalogue is one of those four. The three circuit types below differ only in how the distributor meters.

01 Volumetric (inspecting) system

TZ or HL pump + RH-2 / RH-3 distributors

The pump charges each distributor piston chamber; a spring injects the metered dose to the point when main-line pressure is taken off. A signal pin on each outlet confirms the cycle by eye.

0.03 – 0.4 ml per outlet, per cycle
8 – 15 kgf/cm²

02 Pressure volumetric system

TZ or HL pump with pressure take-off + 34 / 35 type distributors

Pump pressure itself drives the distributor piston, so the dose arrives at the point at line pressure rather than at spring pressure. Needed where the point resists flow.

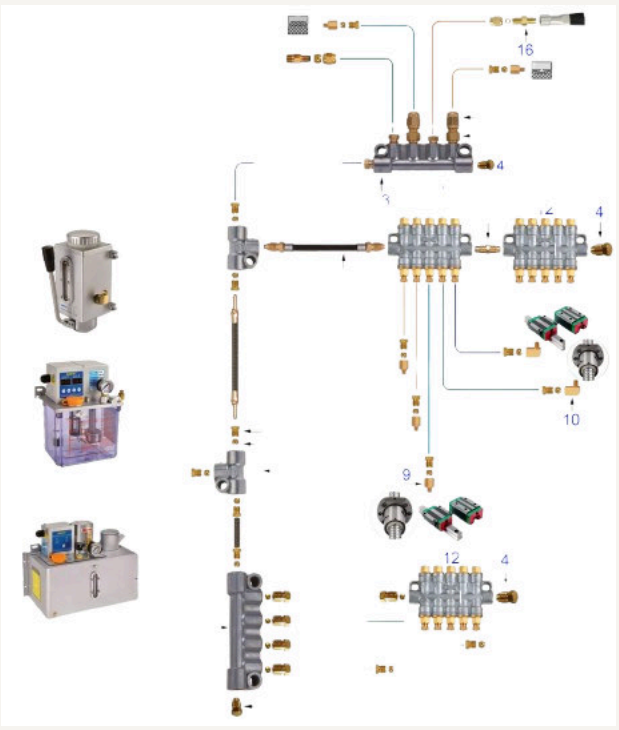
0.03 – 0.6 ml per outlet, per cycle
8 – 15 kgf/cm² (oil) · 30 – 40 kgf/cm² (grease)

03 Resist-type (proportional) system

NKHY-8, TZ or HL pump + VK / VM, TCJ / TCZ or TK distributors

No moving parts in the distributor. Each outlet carries a calibrated restriction, so oil splits between points in a fixed ratio for as long as the pump runs. Cheapest per point.

Proportional, set by restriction size
1.5 – 20 kgf/cm²

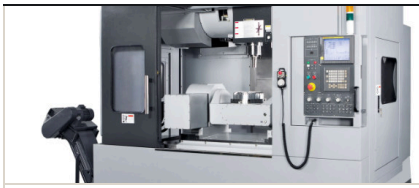


READING THE CIRCUIT

The pump sits at the reservoir and feeds one main line. Distributors tap that line in groups; each outlet then runs to exactly one point. Nothing branches after a distributor outlet — one outlet, one point, always.

Size the circuit from the points backwards: total the dose each point needs per cycle, add the distributors that deliver those doses, then pick a pump whose discharge covers the total at the distributor's action guarantee pressure.

MACHINES WE LUBRICATE



CNC machine tools

Ways, ball screws, LM guides on VMCs, turning centres, routers

Plastic injection moulding

Tie bars, platens, toggle pins on horizontal and vertical machines

Turning & milling centres

Slideways, turrets, tailstocks — high cycle-count points

Woodworking & routers

Gantry rails, rack and pinion drives, long-travel axes

Escalators & conveyors

Chains, sprockets, step rollers — continuous duty, hard access

Printing & textile

Cam boxes, spindles, weaving and spinning machinery

Section A

Pumps for oil lubrication

Five pumps: one manual, four motor-driven. Choose by total dose per cycle and by whether the circuit needs a pressure take-off mechanism.

A-01 · PUMPS FOR OIL LUBRICATION NKHY-8

NKHY-8 Hand Type Oil Pump

A hand lever delivers 8 cc to the main line per stroke, feeding a resist-type circuit without any electrical supply.

DISCHARGE	RESERVOIR
8 cc / stroke	0.6 L
MAX PRESSURE	**OUTLETS**
15 kgf/cm²	1 left + 1 right

Each stroke of the lever displaces 8 cc into the main line at up to 15 kgf/cm². In a resist-type circuit that volume splits between the lube points in the ratio set by their restrictions, so a fixed number of strokes gives a repeatable dose per point.

Aluminium body with a sight window on the 0.6 L reservoir. Two outlets are machined M10×1, one on each side; use either or both.

SPECIFICATION

Type	Manual hand-lever oil pump
Body material	Aluminium
Discharge capacity	8 cc / stroke
Reservoir capacity	0.6 L
Max discharge pressure	15 kgf/cm²
Discharge bore	M10×1
Outlet quantity	1 left + 1 right
Suitable system	Resist-type lubrication

WHERE IT IS USED

- Manual machine tools
- Retrofits on machines with no spare electrical supply
- Low-cycle points topped up per shift

ORDER ALONGSIDE

- VK / VM resist-type distributor
- TCJ / TCZ proportion distributor
- TK adjustable resist-type distributor

CHECK BEFORE ORDERING Resist-type circuits only. It has no pressure take-off mechanism, so it cannot cycle an RH, 34 or 35 type volumetric distributor.

A-02 · PUMPS FOR OIL LUBRICATION TZ-2201 · TZ-2202 · TZ-3201 · TZ-3202

TZ Motor-Driven Lubrication Pump

Gear pump with a timer, a level switch and an optional pressure switch — the default choice for an automatic oil circuit on a production machine.

RATED PRESSURE	DISCHARGE
15 kgf/cm²	110 – 260 ml/min
RESERVOIR	**VISCOSITY**
2 L / 4 L	30 – 1000 cst

An alloy-steel gear set draws oil from the reservoir and delivers it to the main line at 15 kgf/cm² rated, 25 kgf/cm² maximum. Self-priming, so the pump can sit above the oil level. Volumetric efficiency is 75% or better across the speed range.

A level switch is fitted as standard. With the optional pressure switch the pump reports both tank level and line pressure, so run time, interval and alarm can be handled either by the pump's own timer module or by the machine's PLC.

SPECIFICATION

Type	Motor-driven gear pump
Supply voltage	110 V / 220 V / 415 V AC · 24 V DC
Rated rotary speed	3360 r/min (60 Hz) · 2800 r/min (50 Hz)
Motor power output	25 W
Current	0.35 – 0.8 A
Rated pressure	15 kgf/cm²
Max pressure	25 kgf/cm²
Volumetric efficiency	≥ 75%
Discharge capacity	110 – 260 ml/min, by model and frequency
Viscosity range	30 – 1000 cst
Reservoir	2 L or 4 L

Control	**Without timer · dual-timer module · NK-3 digital microcomputer**
Monitoring	**Level switch standard · pressure switch optional, 5 or 10 kgf/cm²**

MODEL SELECTION

MODEL	VOLTAGE	RATED SPEED	DISCHARGE CAPACITY
TZ-2201	110 V	3360 r/min · 60 Hz	130 ml/min
TZ-2202	220 V	2800 r/min · 50 Hz	110 ml/min
TZ-3201	110 V	3360 r/min · 60 Hz	260 ml/min
TZ-3202	220 V	2800 r/min · 50 Hz	220 ml/min

MODEL NUMBER — WORKED EXAMPLE

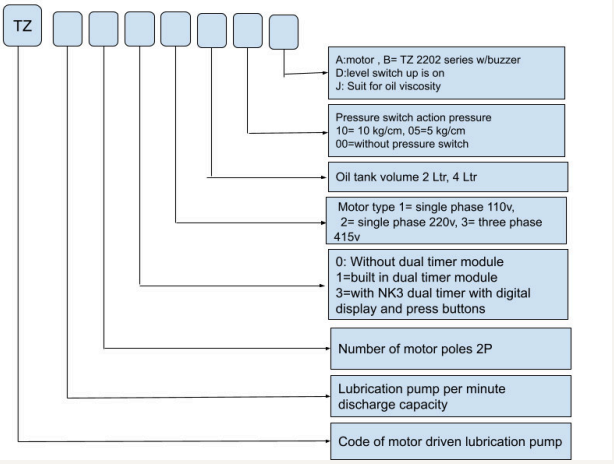
TZ-2232-410X

TZ type lubrication pump · single-phase 220 V · NK-3 digital display microcomputer · 10 kgf/cm² pressure switch action · built-in pressure take-off mechanism · 4 L oil tank.

RULES

> Positions read left to right: type · voltage · controller · pressure switch setting · take-off mechanism · tank size.

> Quote the full code when ordering. A pump without the take-off mechanism cannot run a volumetric distributor.



TZ model number — position by position

WHERE IT IS USED

Machine tools and machining centres

Plastic and printing machinery

Spinning and weaving machines

Escalators and conveyors

ORDER ALONGSIDE

RH-2 / RH-3 volumetric distributors

34 / 35 type pressure volumetric distributors

TCJ / TCZ / TK resist-type distributors

CHECK BEFORE ORDERING State the voltage and the tank size on the order — 110 V and 220 V pumps are not interchangeable and the tank is not a field-fit part.

A-03 · PUMPS FOR OIL LUBRICATION HL-2201 · HL-2202 · HL-3201 · HL-3202

HL Type Motor-Driven Lubrication Pump

Higher-flow gear pump on a 2 L or 4 L tank, for circuits with more points than a single TZ can carry.

RATED PRESSURE	DISCHARGE
15 kgf/cm²	110 – 260 ml/min
MOTOR POWER	**RESERVOIR**
20 W	2 L / 4 L

The same gear-pump principle as the TZ with a wider volumetric flow rate, so one HL can serve a longer main line or a larger distributor group. Good self-absorbing performance; rated 15 kgf/cm², maximum 25 kgf/cm².

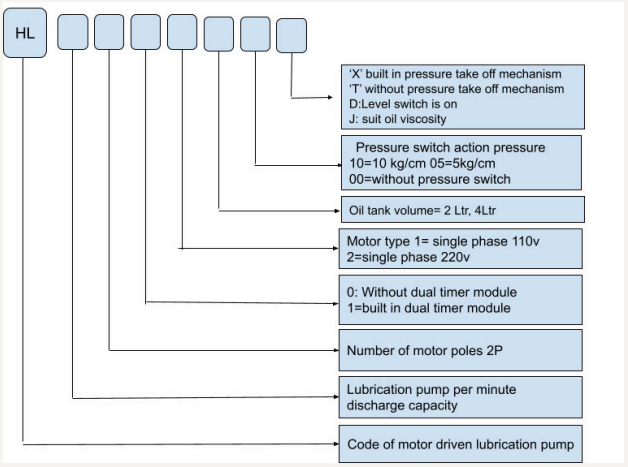
Fitted with a level switch as standard and, on request, a pressure switch. Both can run to the pump's own timer or to the machine's programming system, giving level, delivery-pressure and cycle monitoring from one pump.

SPECIFICATION

Type	Motor-driven gear pump
Supply voltage	100 V / 200 V AC (see model table)
Rated rotary speed	3360 r/min (60 Hz) · 2800 r/min (50 Hz)
Motor power output	20 W
Rated pressure	15 kgf/cm²
Max pressure	25 kgf/cm²
Volumetric efficiency	≥ 75%
Viscosity range	30 – 1000 cst
Reservoir	2 L or 4 L
Monitoring	Level switch standard · pressure switch optional

MODEL SELECTION

MODEL	VOLTAGE	RATED SPEED	DISCHARGE CAPACITY
HL-2201	100 V	3360 r/min · 60 Hz	130 ml/min
HL-2202	200 V	2800 r/min · 50 Hz	110 ml/min
HL-3201	100 V	3360 r/min · 60 Hz	260 ml/min
HL-3202	200 V	2800 r/min · 50 Hz	220 ml/min



HL model number — position by position

WHERE IT IS USED

Machine tools

Plastic, spinning and weaving machinery

Printing machinery

Escalators and conveyors

ORDER ALONGSIDE

RH volumetric distributors — volumetric circuit

TCJ / TCZ / TZJ / TZZ / TK resist-type distributors — proportional circuit

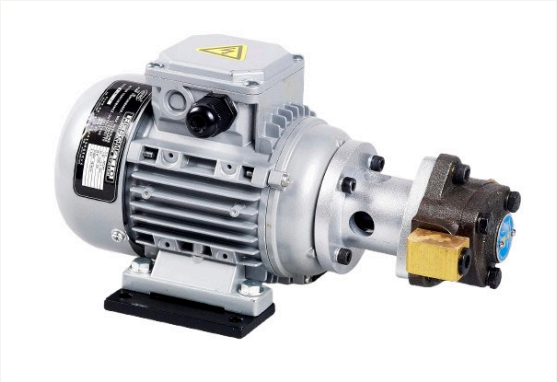
SD1 / SD2 progressive distributors — progressive circuit

CHECK BEFORE ORDERING The HL will drive all three circuit types, but only the version with a pressure take-off mechanism will cycle a volumetric distributor. Say which circuit you are building when you order.

A-04 · PUMPS FOR OIL LUBRICATION BMA-10A · BMA-11A · BMA-12A · BMA-13A

BMA Series Cycloidal Pump

Cycloidal-rotor pump unit delivering 1.2 – 7.5 L/min for circulating lubrication, where the requirement is flow rather than metered dose.



DISCHARGE	MAX PRESSURE
1.2 – 7.5 L/min	5.0 kgf/cm²
MAX SPEED	**PORTS**
3000 r/min	PT1/8 · PT1/4 · PT3/8

A cycloidal rotor set gives near-pulsation-free delivery and good self-priming at speed, which is what a circulating oil bath or a gearbox spray line needs. Theoretical displacement runs 0.8 to 4.5 cc per revolution across the four frames.

Delivered flow depends on drive speed: figures below are at 1500 and 1800 r/min. Maximum pressure is 5.0 kgf/cm² on all four — this is a flow pump, not a metering pump.

SPECIFICATION

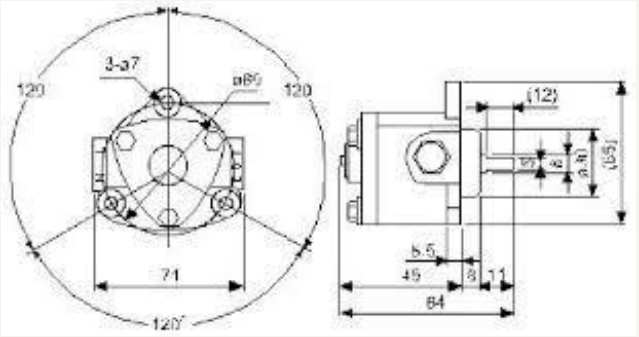
Type	Cycloidal-rotor oil pump
Theoretical displacement	0.8 – 4.5 cc / rev
Discharge capacity	1.2 – 7.5 L/min
Max pressure	5.0 kgf/cm²
Max rotary speed	3000 r/min (BMA-10A); 1800 – 2000 r/min on larger frames
Entrance / outlet thread	PT1/8 · PT1/4 · PT3/8, by model
Weight	0.55 kg (pump unit)

MODEL SELECTION

MODEL	CC / REV	L/MIN @ 1500	L/MIN @ 1800	MAX PRESSURE	MAX SPEED	PORT THREAD
BMA-10A	0.8	1.2	1.4	5.0 kgf/cm²	3000 r/min	PT1/8
BMA-11A	1.5	2.2	2.7	5.0 kgf/cm²	2000 r/min	PT1/8 · PT1/4
BMA-12A	2.5	3.7	4.5	5.0 kgf/cm²	1800 r/min	PT1/4

MODEL	CC / REV	L/MIN @ 1500	L/MIN @ 1800	MAX PRESSURE	MAX SPEED	PORT THREAD
BMA-13A	4.5	6.7	7.5	5.0 kgf/cm²	1800 r/min	PT3/8

Pump body, port face



Mounting and port dimensions

WHERE IT IS USED

Machine tool circulating lubrication

Textile machinery

Printing machinery

Light industrial machinery

ORDER ALONGSIDE

Pressure gauge and relief valve

Suction strainer

Nylon or copper main line to match port thread

CHECK BEFORE ORDERING 5.0 kgf/cm² maximum. Do not put a BMA on a volumetric or resist-type metering circuit — it cannot reach the action guarantee pressure of any distributor in Section B.

A-05 · PUMPS FOR OIL LUBRICATION MTA-150

MTA-150 Thin Oil Lubrication Pump

Compact thin-oil pump with level switch and optional microcomputer control, for small and medium machines where a TZ is more pump than the circuit needs.

LUBRICANT	CONTROL
Thin oil	Microcomputer, optional
MONITORING	**SIGNALLING**
Level switch standard	Buzzer + NO / NC output

DATA PENDING Pressure, discharge and reservoir figures on request

Built for medium and small machinery where cost per circuit matters: CNC machines and machining centres, injection moulding machines, production lines, textile and woodworking machinery.

The liquid level switch and the optional pressure switch connect to the host controller so that actuation, interval and alarm are handled as one integrated function. With the microcomputer option, run and interval times are set freely on the pump; abnormal conditions raise a buzzer and an output, with both NO and NC interfaces provided.

SPECIFICATION

Type	Motor-driven thin oil lubrication pump
Monitoring	Liquid level switch standard · pressure switch optional
Control	Host-controlled, or optional microcomputer with free time setting
Alarm	Buzzer with abnormal output; NO and NC interface

MTA-150, front panel and reservoir

WHERE IT IS USED

CNC machinery and machining centres

Plastic injection moulding machines

Production lines

Textile and woodworking machinery

ORDER ALONGSIDE

RH-2 / RH-3 volumetric distributors

TK adjustable resist-type distributor

CHECK BEFORE ORDERING Thin oil only. Confirm reservoir size and discharge with us against your point count before ordering.

Section B

Oil distributors

The distributor decides the dose at each point; the pump only has to supply the total. Volumetric first, then pressure volumetric, then resist-type.

B-01 · OIL DISTRIBUTORS
RH-22 · RH-23 · RH-25

RH-2 Inspecting Volumetric Distributor

Two, three or five outlets, each set to its own dose between 0.03 and 0.3 ml per cycle, with a signal pin per outlet.

OUTLETS	DOSE PER OUTLET
2 · 3 · 5	0.03 – 0.3 ml
ACTION PRESSURE	**VISCOSITY**
8 – 12 kgf/cm²	20 – 500 cst

The first-generation inspecting volumetric block. Oil from the main line charges each piston chamber and compresses its spring; when line pressure is taken off, the spring injects the measured dose to the point. A signal pin extends while charging and retracts on delivery, so a working circuit can be confirmed by eye without instruments.

SPECIFICATION

Number of outlets	2 (RH-22) · 3 (RH-23) · 5 (RH-25)
Common discharge capacity	0.03 · 0.06 · 0.1 · 0.2 · 0.3 cc per outlet, per cycle
Action guarantee pressure	8 – 12 kgf/cm²
Recommended viscosity	20 – 500 cst

MODEL NUMBER — WORKED EXAMPLE

RH-250306102030

RH-2 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-2503 — five outlets, all 0.03 ml. One dose code means every outlet is the same.
- RH-220306 — two outlets at 0.03 and 0.06 ml. List doses in outlet order.

WHERE IT IS USED

Machine tool ways and screws

Light machinery with few points

ORDER ALONGSIDE

TZ or HL pump

PA / PB / PT branch fittings, Ø4 or Ø6 tube

CHECK BEFORE ORDERING Specify RH-3 instead for new designs — same principle, higher action pressure and a four-outlet option.

B-02 · OIL DISTRIBUTORS RH-32 · RH-33 · RH-34 · RH-35 (G = GREASE)

RH-3 Inspecting Volumetric Distributor

The second-generation volumetric block: two to five outlets, 0.03 – 0.4 ml per outlet, action guaranteed at 12 – 15 kgf/cm².

OUTLETS	DOSE PER OUTLET
2 · 3 · 4 · 5	0.03 – 0.4 ml
ACTION PRESSURE	**VISCOSITY**
12 – 15 kgf/cm²	20 – 500 cst

Oil 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 oil in the piston chamber leaves via E into branch tube H and reaches the lube point. Signal pin I extends while metering and retracts on delivery, confirming the cycle. At low dose settings the chamber uses a trunk-piston structure.

SPECIFICATION

Number of outlets	2 (RH-32) · 3 (RH-33) · 4 (RH-34) · 5 (RH-35)
Common discharge capacity	0.03 · 0.06 · 0.1 · 0.2 · 0.3 · 0.4 ml per outlet, per cycle
Action guarantee pressure — oil	12 – 15 kgf/cm² (1.2 – 1.5 MPa)
Action guarantee pressure — grease (G)	2.0 – 5.0 MPa
Recommended lubricant	Oil 20 – 500 cst · grease NLGI 00# / 000# on G models
Confirmation	Mechanical signal pin per outlet

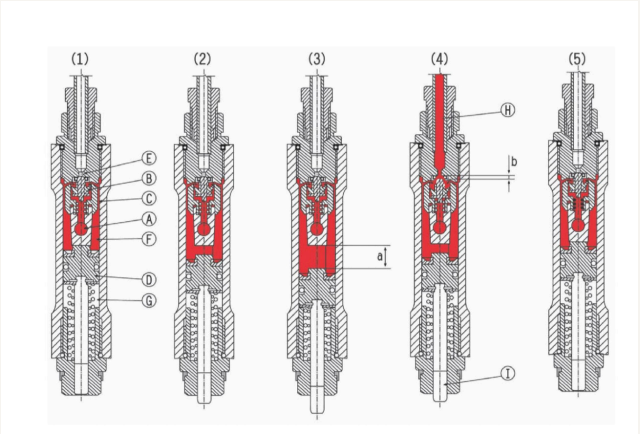
MODEL NUMBER — WORKED EXAMPLE

RH-350306102030

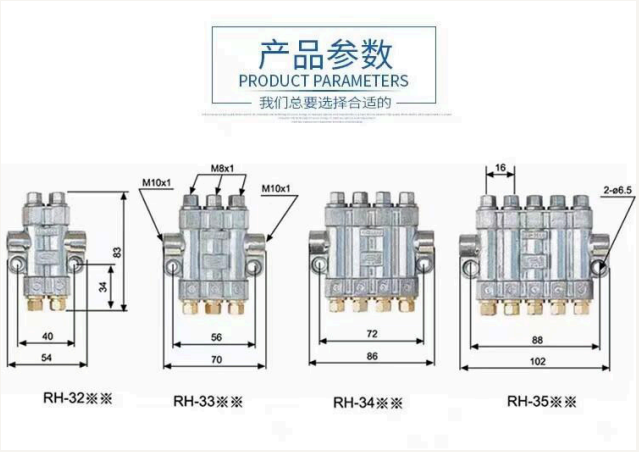
RH-3 type, five outlets, doses 0.03 · 0.06 · 0.1 · 0.2 · 0.3 ml per cycle in outlet order.

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.
- Add G for the grease version: RH-35G.



Operating principle — charge, meter, deliver



Overall dimensions, 2 to 5 outlets

WHERE IT IS USED

CNC machine tools

Injection moulding machines

Printing and textile machinery

Any circuit needing a different dose per point

ORDER ALONGSIDE

TZ or HL pump with pressure take-off mechanism

Ø4 / Ø6 nylon or copper 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.

B-03 · OIL DISTRIBUTORS RH-342 · RH-343 · RH-344 · RH-345

34 Type Pressure Volumetric Distributor

Pump pressure drives the piston, so the dose arrives at the point at line pressure — for points that resist flow.

OUTLETS	DOSE PER OUTLET
2 · 3 · 4 · 5	0.03 – 0.16 ml
ACTION PRESSURE	**VISCOSITY**
Oil 8 – 12 kgf/cm²	20 – 500 cst

Instead of a spring, the pump's own pressure injects the metered dose. The result is a firmer delivery at the point at the cost of a smaller dose range than the RH series — 0.03 to 0.16 ml per outlet.

SPECIFICATION

Number of outlets	2 · 3 · 4 · 5
Common discharge capacity	0.03 · 0.06 · 0.1 · 0.16 ml per outlet, per cycle
Action guarantee pressure	Oil 8 – 12 kgf/cm²
Recommended viscosity	20 – 500 cst

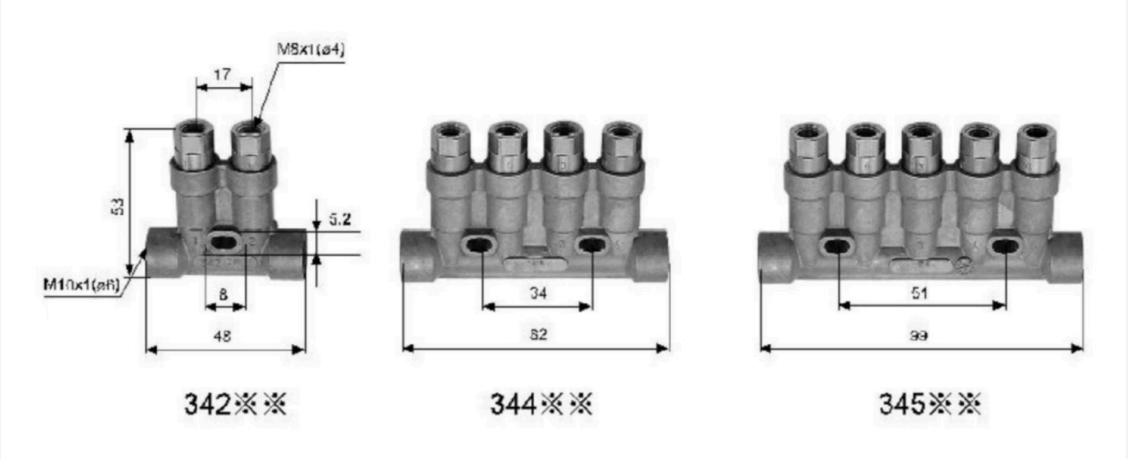
MODEL NUMBER — WORKED EXAMPLE

3450306101616

34 type, five outlets, doses 0.03 · 0.06 · 0.1 · 0.16 · 0.16 ml per cycle in outlet order.

RULES

- Dose codes: 03 = 0.03 ml · 06 = 0.06 · 10 = 0.1 · 16 = 0.16 ml per cycle.
- 34503 — five outlets, all 0.03 ml.
- 3420310 — two outlets at 0.03 and 0.1 ml.



Overall dimensions, 2 to 5 outlets

WHERE IT IS USED

Points with back pressure

Long branch runs

Machine tools and light presses

ORDER ALONGSIDE

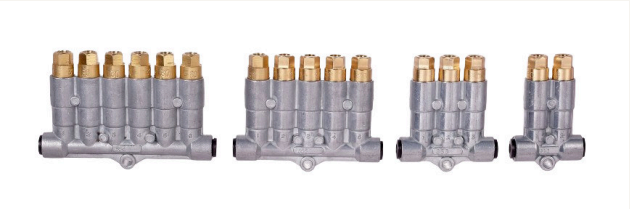
TZ or HL pump with pressure take-off mechanism

CHECK BEFORE ORDERING Maximum dose is 0.16 ml per outlet. Where a point needs more, use a 35 type.

B-04 · OIL DISTRIBUTORS 352 · 353 · 355 · 356

35 Type Pressure Volumetric Distributor

The high-dose pressure volumetric block: 0.1 to 0.6 ml per outlet, and the only distributor here rated for both oil and grease.



OUTLETS	DOSE PER OUTLET
2 · 3 · 4 · 5	0.1 – 0.6 ml
ACTION PRESSURE	**LUBRICANT**
Oil 12 – 15 · grease 30 – 40 kgf/cm²	Oil 20 – 500 cst · grease 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 lubricant enters the chamber.

Because the delivery is driven by line pressure, the same block handles NLGI 00# and 000# grease at 30 – 40 kgf/cm² as well as oil at 12 – 15 kgf/cm².

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	Oil 12 – 15 kgf/cm² · grease 30 – 40 kgf/cm²
Recommended lubricant	Oil 20 – 500 cst · grease NLGI 00# / 000#
Main tube connection	M12×1 at both ends

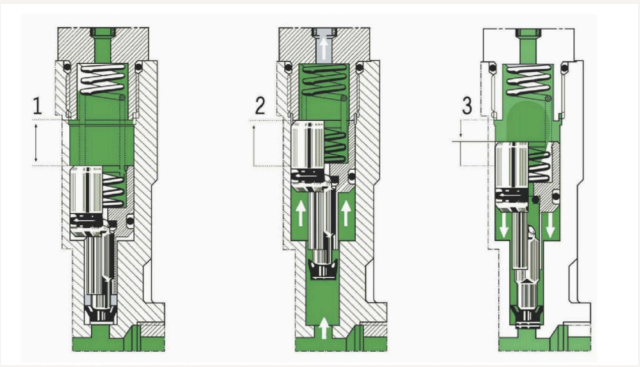
MODEL NUMBER — WORKED EXAMPLE

356102040601020

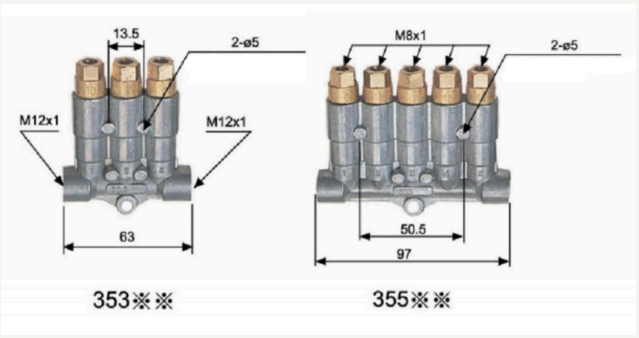
35 type, six outlets, doses 0.1 · 0.2 · 0.4 · 0.6 · 0.1 · 0.2 ml per cycle in outlet order.

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.



Working principle — take-off, pressurise, restore



Overall dimensions

WHERE IT IS USED

- Injection moulding machines
- Presses and die-casting machines
- Heavy machine tools
- Mixed oil / grease plants

ORDER ALONGSIDE

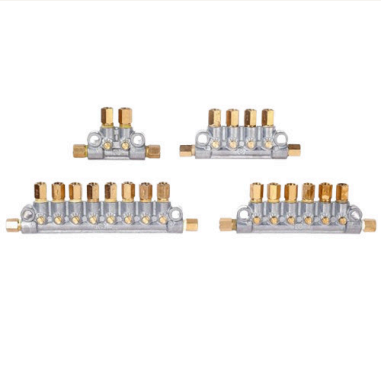
- TZ or HL pump with pressure take-off mechanism
- GM type grease pump for grease circuits
- PD35612 / PD35812 adapters

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.

B-05 · OIL DISTRIBUTORS VK-2-8 … VK-8-8 · VM-4-8

VK / VM Resist-Type Distributor

A manifold of calibrated restrictions: two to eight outlets that split flow in a fixed ratio, with no moving parts to fail.



OUTLETS	MAIN TUBE
2 · 4 · 6 · 8	Ø4 (M8×1)
BRANCH TUBE	**MOUNTING**
Ø4 (M8×1)	Ø7 holes

The simplest and cheapest way to feed a group of points. Flow divides between outlets according to their restriction, continuously, for as long as the pump runs — so dose per point is set by run time rather than by cycle count.

MODEL SELECTION

MODEL	MAIN TUBE	BRANCH TUBE	OUTLETS	FIXING HOLE	HOLE CENTRES
VK-2-8	Ø4 (M8×1)	Ø4 (M8×1)	2	Ø7	34 mm
VK-4-8	Ø4 (M8×1)	Ø4 (M8×1)	4	Ø7	62 mm
VK-6-8	Ø4 (M8×1)	Ø4 (M8×1)	6	Ø7	90 mm
VK-8-8	Ø4 (M8×1)	Ø4 (M8×1)	8	Ø7	118 mm
VM-4-8	Ø4 (M8×1)	Ø4 (M8×1)	4	Ø7	21 mm

WHERE IT IS USED

Chains and conveyors

Groups of similar, low-demand points

Retrofit circuits on older machines

ORDER ALONGSIDE

NKHY-8 hand pump

TZ or HL pump without take-off mechanism

CHECK BEFORE ORDERING Resist-type distribution is proportional, not metered. Where each point needs a stated volume per cycle, use RH-3 or 35 type instead.

B-06 · OIL DISTRIBUTORS TCJ 1 – 5 · TCZ 1 – 5

TCJ / TCZ Restriction Resist-Type Proportion Distributor

In-line restrictor fitted at the point itself, in five flow grades from 1 to 16, working anywhere between 1.5 and 20 kgf/cm².

FLOW GRADES	WORKING PRESSURE
1 · 2 · 4 · 8 · 16	1.5 – 20 kgf/cm²
VISCOSITY	**INLET**
20 – 50 cst	M8×1

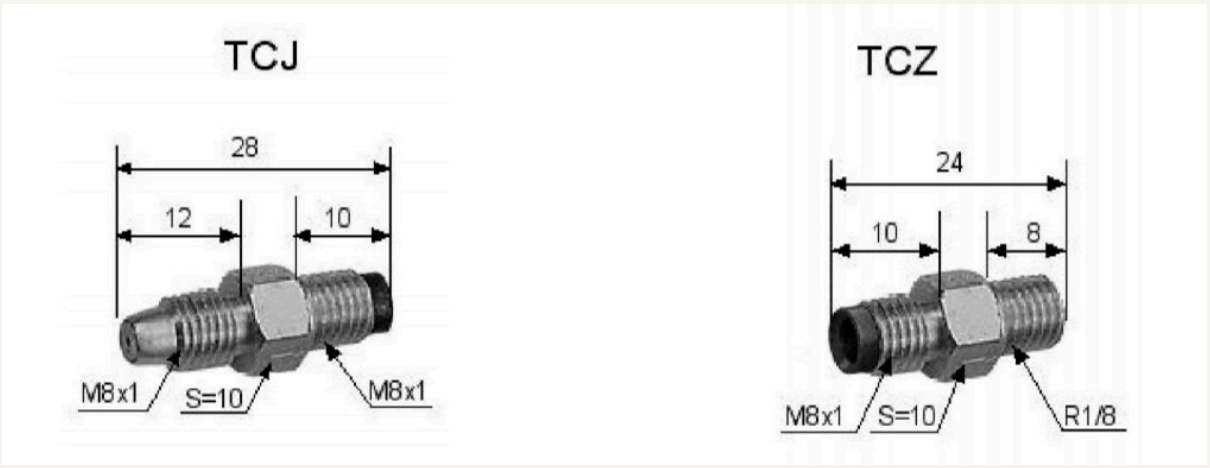
Because the restrictor sits in the line rather than in a manifold, points can be added or re-proportioned one at a time by changing a single fitting. TCJ takes an M8×1 outlet, TCZ an R1/8.

SPECIFICATION

Connector diameter — TCJ	IN M8×1 · OUT M8×1
Connector diameter — TCZ	IN M8×1 · OUT R1/8
Working pressure	1.5 – 20 kgf/cm²
Viscosity of oil used	20 – 50 cst

MODEL SELECTION

STANDARD GRADE	RELATIVE FLOW RATE
1	1
2	2
3	4
4	8
5	16



TCJ and TCZ dimensions

WHERE IT IS USED

Point-by-point proportioning

Circuits extended after commissioning

Machines with widely different point demands

ORDER ALONGSIDE

NKHY-8, TZ or HL pump

VK / VM manifold upstream

CHECK BEFORE ORDERING Viscosity range is 20 – 50 cst, narrower than the RH series. A heavier oil changes the proportion between points.

B-07 · OIL DISTRIBUTORS TK-2-8 … TK-10-8

TK Adjustable Resist-Type Proportion Distributor

Two to ten outlets, each individually adjustable on site — the distributor to specify when the dose per point is not settled yet.

OUTLETS	MAIN TUBE PORT
2 – 10	Ø6
ADJUSTMENT	**LENGTH**
Per outlet, on site	47 – 167 mm

Each outlet carries an adjustable needle, so proportion between points is set during commissioning and re-set later without changing parts. The table gives block length A and hole centres B against outlet count; all main tubes are M10×1.

MODEL SELECTION

MODEL	MAIN TUBE PORT	OUTLETS	A (MM)	B (MM)
TK-2-8	Ø6	2	47	37
TK-3-8	Ø6	3	62	52
TK-4-8	Ø6	4	77	67
TK-5-8	Ø6	5	92	82
TK-6-8	Ø6	6	107	97
TK-7-8	Ø6	7	122	112
TK-8-8	Ø6	8	137	127
TK-9-8	Ø6	9	152	142
TK-10-8	Ø6	10	167	157

WHERE IT IS USED

Commissioning new machine designs

Circuits where point demand is unknown

Plants that re-tool frequently

ORDER ALONGSIDE

TZ or HL pump

Ø6 main tube, Ø4 branch tube

CHECK BEFORE ORDERING Adjustable means adjustable by someone who knows the target dose. Record the settings on the machine before handover.

B-08 · OIL DISTRIBUTORS
DK-05 … DK-50 (G = GREASE)

DK Type Single Distributor

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

OUTLETS	DOSE
1	0.05 – 0.5 ml
ACTION PRESSURE	**OUTLET TUBE**
Oil 12 – 15 · grease 30 – 40 kgf/cm²	Ø4

Used with PA and PB fittings on Ø4 tube, and combinable with a TH type connector, so a single awkward point gets 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.

> Add G for grease. Oil models carry no suffix.

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 Oil 20 – 500 cst; grease 000# and 00# only, and only on the G models.

Section C

Lubrication accessories

Switches, gauges, indicators, hose and cutting tools — the parts that make a circuit monitorable and serviceable.

Pressure switch

5 / 10 kgf/cm²

Confirms line pressure to the pump timer or machine PLC. Order with the pump — retrofitting means opening the pump head.

Pressure gauge

0 – 4 MPa

Panel or line mounted. The fastest way to tell a blocked point from a failed pump.

Oil level indicator

Sight type

Reservoir level at a glance from outside the cabinet, with max and min marks.

Pressure hose assembly

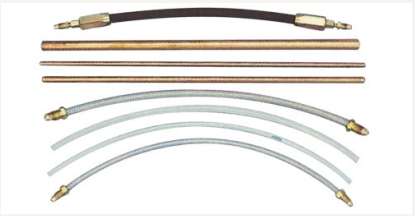
Made to length

Braided hose with fittings pressed both ends, for movement between a fixed pump and a travelling point.

Nylon tube

Ø4 · Ø6 · Ø8

Coil lengths. The default main and branch line where there is no heat and no abrasion.



Copper tube assemblies

Ø4 · Ø6

Pre-formed with fittings both ends. Use where the run is hot, tight or exposed to chip.

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.

Brush lubrication assembly

Single / multi

Feeds oil onto chains, racks and open gears through a bristle head instead of a nozzle.

Brush heads and adapters

Assorted

Replacement bristle heads with M8×1 and M10×1 adapters.

Section D

Fittings & tubing

Nylon, copper and aluminium tube with matched brass fittings. Thread sizes stated on every part; order tube and fittings together.

PA / PB / PT — Ø6

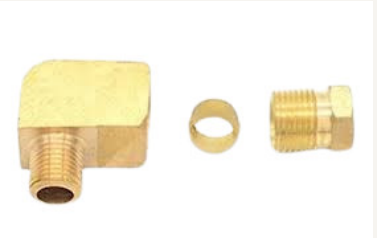
PA6 · PB6 · PT6

Straight, banjo and tee branch fittings for Ø6 tube.

PA / PB / PT — Ø4

PA4 · PB4 · PT4

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 drip feeds.

Hose connectors

6 mm

Tube-to-hose transition, brass body, M10×1.

Blanking dummies

PS-08Z · PS-10Z

8 mm and 10 mm plugs for unused distributor outlets. Never leave an outlet open.

PD straight connector

PD series

In-line union, including the PD35612 / PD35812 adapters the 35 type block needs.

3T / 4T manifold fittings

3T-10-10 · 4T10-10

Three- and four-way brass blocks, M10×1 throughout.

Sleeves, nuts and bushes

Assorted

Compression parts to match every tube size in this catalogue.

Assembled hose sets

Made to length

Tube, fittings and nozzle assembled and pressure-tested to your dimension.

High pressure hoses

Assorted lengths

For grease circuits and for pump-to-distributor runs above 40 kgf/cm².

Grease coupler sets

Assorted

Couplers, elbows and extensions for manual top-up points.

02 Ordering

Four things make a quote same-day: the model code, the machine it goes on, the quantity, and the lubricant 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: 35 Type Distributor
Model: 3521020
Machine: 120 T injection moulding
Quantity: 4
Lubricant: NLGI 000# grease

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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WHATSAPP
+91 73976 31796

EMAIL & WEB
mail@amagcnc.com
amagcnc.com

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