DISTRIBUTORS · GREASE AMAG-DS-SD-01 · OVERVIEW

SD Block-Type Progressive Distributor

SD1 · SD2 · SD3 series

Modular block assembly feeding 3 to 20 points strictly one after another, at up to 25 MPa — the distributor that proves every point has been fed.

MAX WORKING PRESSURE	MIN STARTING PRESSURE
25 MPa	1.4 MPa
POINTS	**BLOCKS**
3 – 20 per assembly	3 – 10 middle wafers

HOW IT WORKS

Pressured grease from the pump enters the inlet and reaches the right side of piston I, which shifts left and strokes grease out of outlet 1. The grease then reaches piston II, which shifts and discharges outlet 2, then piston III and outlet 3; the pressure then returns to the left side of piston I and outlets 4, 5 and 6 discharge in turn. The cycle repeats for as long as grease is supplied.

Because each piston can only move after its neighbour has completed its stroke, the assembly cannot skip a point. Stop the supply and every piston stops where it is; restore it and the sequence resumes from the same point.

An assembly is a start block and an end block plus three to ten middle wafers, held together with tie rods. Middle wafers are single outlet (S) or double outlet (T), and every block has a built-in check valve.

SPECIFICATION

Type	Block-type progressive distributor, single-line
Classification	SD1 · SD2 · SD3 series
Max working pressure	25 MPa
Min starting pressure	1.4 MPa
Lube points	3 – 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 middle working blocks, tie-rod held

Outlet thread	**Rc 1/8 (SD1)**
Indicator options	**Mechanical circulating pin · electric micro-switch, NO or NC**

MODEL SELECTION

SERIES	DISCHARGE PER OUTLET (DOUBLE)	DISCHARGE PER OUTLET (SINGLE)	ASSEMBLY LENGTH A, 3 → 10 BLOCKS	HOLE CENTRES B, 3 → 10 BLOCKS
SD1	0.08 · 0.16 · 0.24 ml	0.16 · 0.32 · 0.48 ml	73.3 → 148.7 mm (3–8 blocks)	59.3 → 134.7 mm (3–8 blocks)
SD2	0.16 · 0.20 · 0.24 · 0.32 · 0.40 · 0.48 · 0.56 ml	0.32 → 1.12 ml	103.4 → 247.6 mm	89.4 → 233.6 mm
SD3	0.40 · 0.80 · 1.20 · 1.60 · 2.00 · 2.40 ml	0.80 → 4.80 ml	142.5 → 340.4 mm	129.1 → 330.7 mm

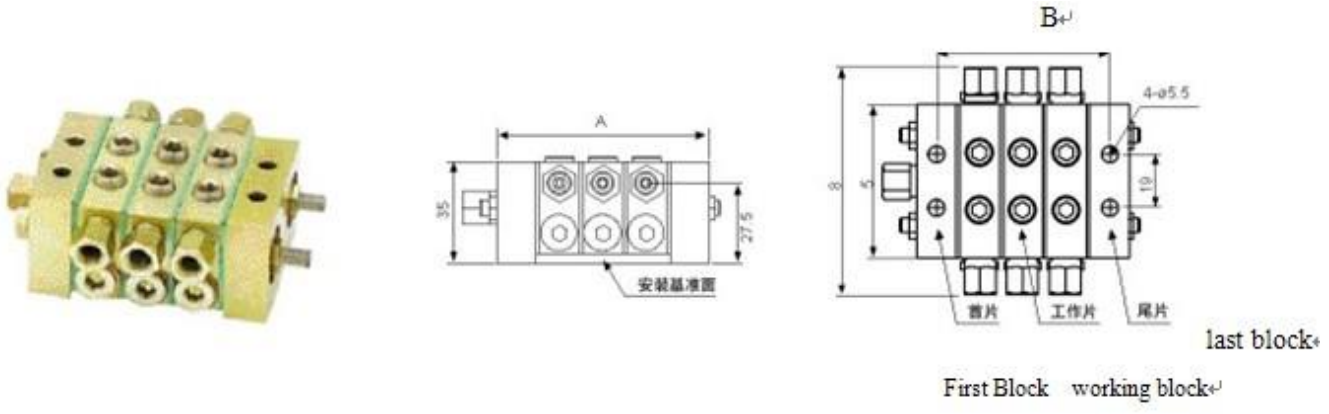
A is the overall assembly length and B the distance between the outer fixing-hole centres, both shown on the drawings below. Both are theoretical values for reference only — cumulative assembly deviation applies. Measure the built assembly before drilling a mounting plate.

GUIDE TO ORDER

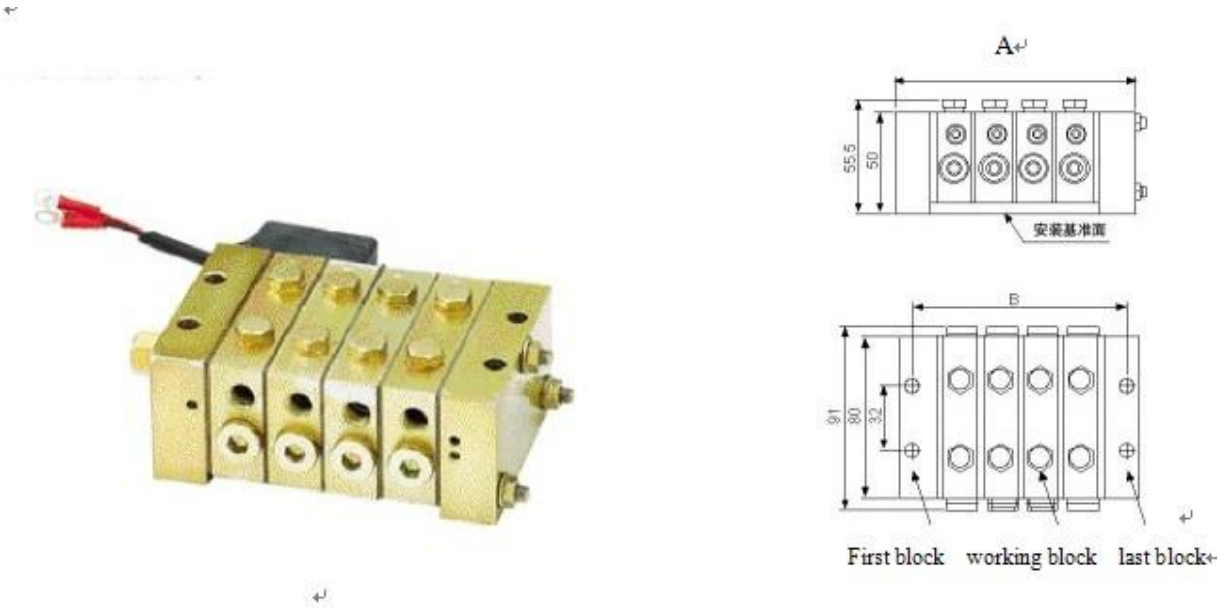
SD2-40JT SD2 series block · 0.40 ml discharge per outlet per cycle · with mechanical circulating indicator pin · double outlet.

1	Series	SD1 · SD2 · SD3
2	Discharge volume	SD1: 08 · 16 · 24 — SD2: 16 · 20 · 24 · 32 · 40 · 48 · 56 — SD3: 40 · 80 · 120 · 160 · 200 · 240
3	Feedback indicator	Blank = without · J = with mechanical circulating indicator pin · M = with electric circulating micro-switch indicator pin
4	Outlet configuration	S = single outlet · T = double outlet
5	Outlet side	R = single outlet on the right side · L = single outlet on the left side

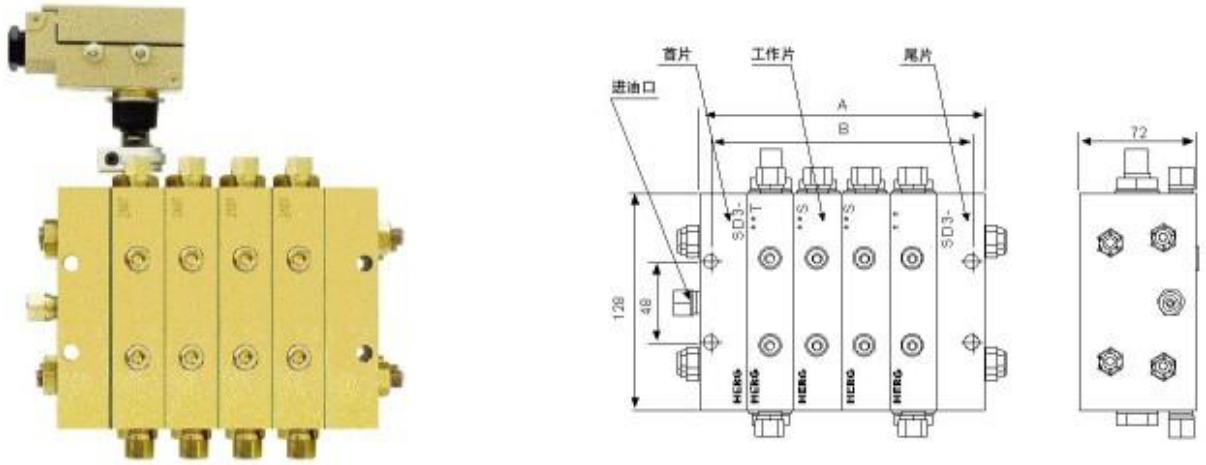
DIMENSIONS



SD1 — configuration, installation and main components. The Chinese callout under the view carrying A marks the mounting datum surface.



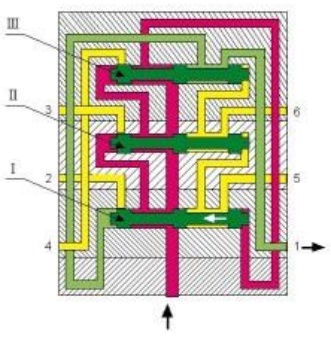
SD2 — configuration, installation and main components. The Chinese callout under the view carrying A marks the mounting datum surface.



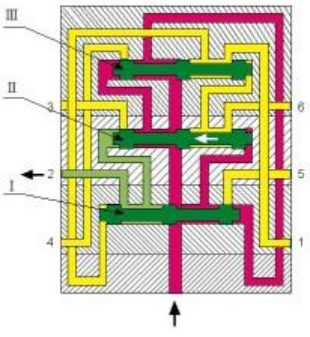
SD3 — configuration, installation and main components. Its callouts are Chinese only: far left is the oil inlet port, and the three across the top mark the first, working and last blocks.

Dimensions in millimetres. Confirm critical dimensions with us before machining a mounting.

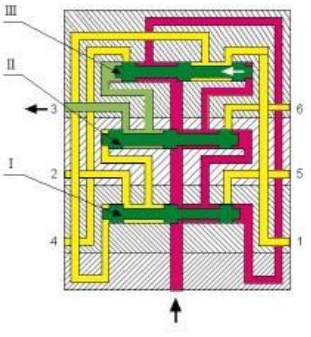
OPERATING PRINCIPLE



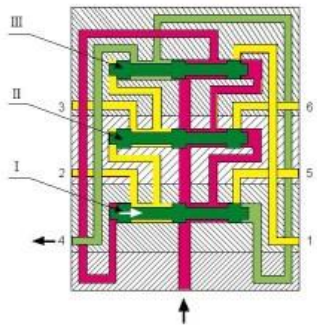
Piston I strokes right to left — outlet 1 discharges



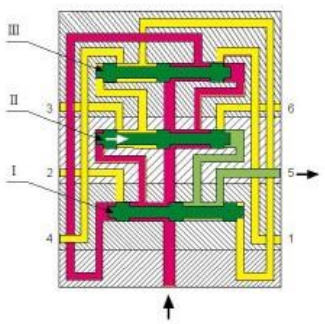
Piston II strokes right to left — outlet 2 discharges



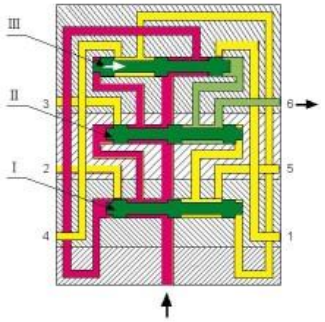
Piston III strokes right to left — outlet 3 discharges



Return stroke: piston I strokes left to right — outlet 4 discharges



Return stroke: piston II strokes left to right — outlet 5 discharges



Return stroke: piston III strokes left to right — outlet 6 discharges

APPLICATIONS

Large machinery and equipment

Master distributors on single-line systems

Wind, hydro and thermal power plant

Steel processing and mining machinery

SYSTEM PAIRING

ZJ series high pressure piston pump

ZD type middle pressure piston pump — SD2

PJ pump without pressure relief

Ø4 / Ø6 branch tube

CHECK BEFORE ORDERING

Never plug an outlet on a double-outlet block. It will stop the distributor working normally and damage it.

One blocked point stops the whole assembly and raises pressure until the pump's safety valve opens. Fit the safety valve and watch it.

ORDER THIS PART

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WhatsApp the model code.

EMAIL & WEB

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amagcnc.com

WARRANTY

One year against manufacturing defect from date of invoice.

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