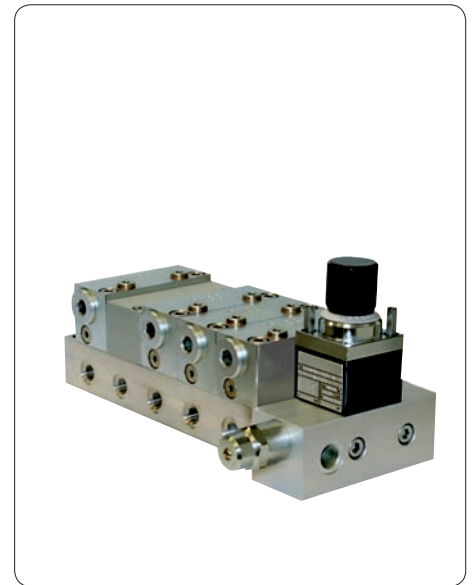


PSG3 Modular Feeder

for use in oil or grease lubrication systems



Application

Modular feeders of the PSG3 series are used in oil and grease lubrication systems. Fields of application include, for example, paper machinery, tunnel driving machinery, metal-forming machinery (presses) and general engineering.

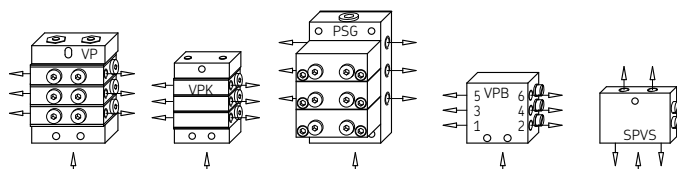
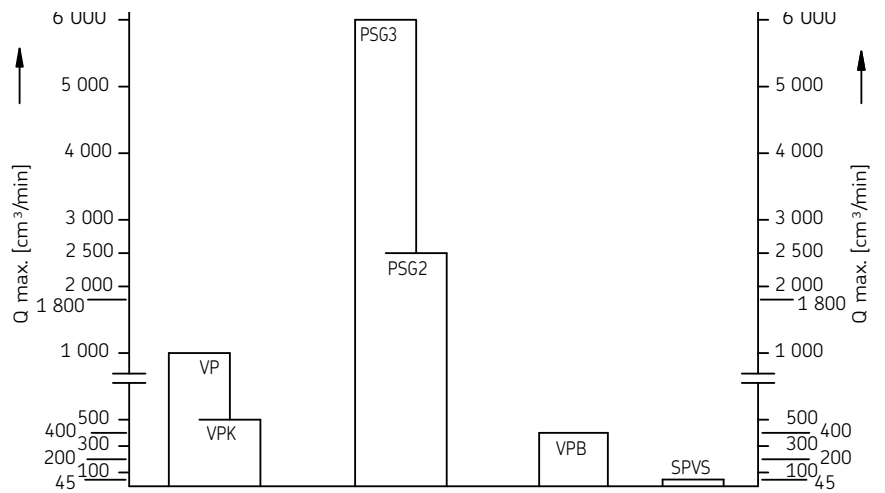
Advantages

- Easily servicable modular feeder technology through baseplate design
- Outlet quantities are especially easy to allocate, because the lubricant outlets are located directly below the metering piston.
- Flexible system design due to metering sections with volumes per cycle and outlets of 800, 1200, 1600, 2400 and 3200 mm³
- High operational reliability due to check valves installed standard
- High metering accuracy; the integrated check valves are located directly after the metering pistons.
- Flow limiters, flow regulators, gear-type flow indicator and directional solenoid valves can be attached.
- Up to 20 outlets
- Measurement connectors for system pressure and feeder outlets
- Retrofitting with piston detectors for monitoring is possible at any time
- The metering volume of opposite outlets can be connected internally, that of neighboring outlets externally using bridges.
- Also available in corrosion-resistant design (chemically nickel-plated).

Contents

Application	1	Modular feeder	7
General	4	- Basic design	7
Mode of operation	4	- with piston detector	8
- Operating pressure	5	- with cycle indicator	9
- Operating temperature	5	- with proximity switch	10
- Consolidation of outlets	5	- with gear-type flow indicator	11
- Dummy sections	5	- with flow regulator	12
- Attachment of bridges (crossporting)	5	- with flow limiter	13
- Information on the design	5	Accessories and spare parts	14
- Tightening torque of the sections	5	Retrofitting instructions for	
Monitoring and attachments	6	cycle indicator	15
		Bridge designs (crossporting)	16
		Explanation of order codes	18
		Attachments and screw unions	19
		Order Form	20

Overview of progressive feeders - types and frame sizes



See important product usage information on the back cover.

General information

The PSG3 Modular Feeder (Progressive Feeder) can be used for an inlet volume flow of up to 6 l/min. The inlet and all outlets of the feeder are located in the baseplate. The functional sections are attached to the baseplate and can be replaced without loosening.

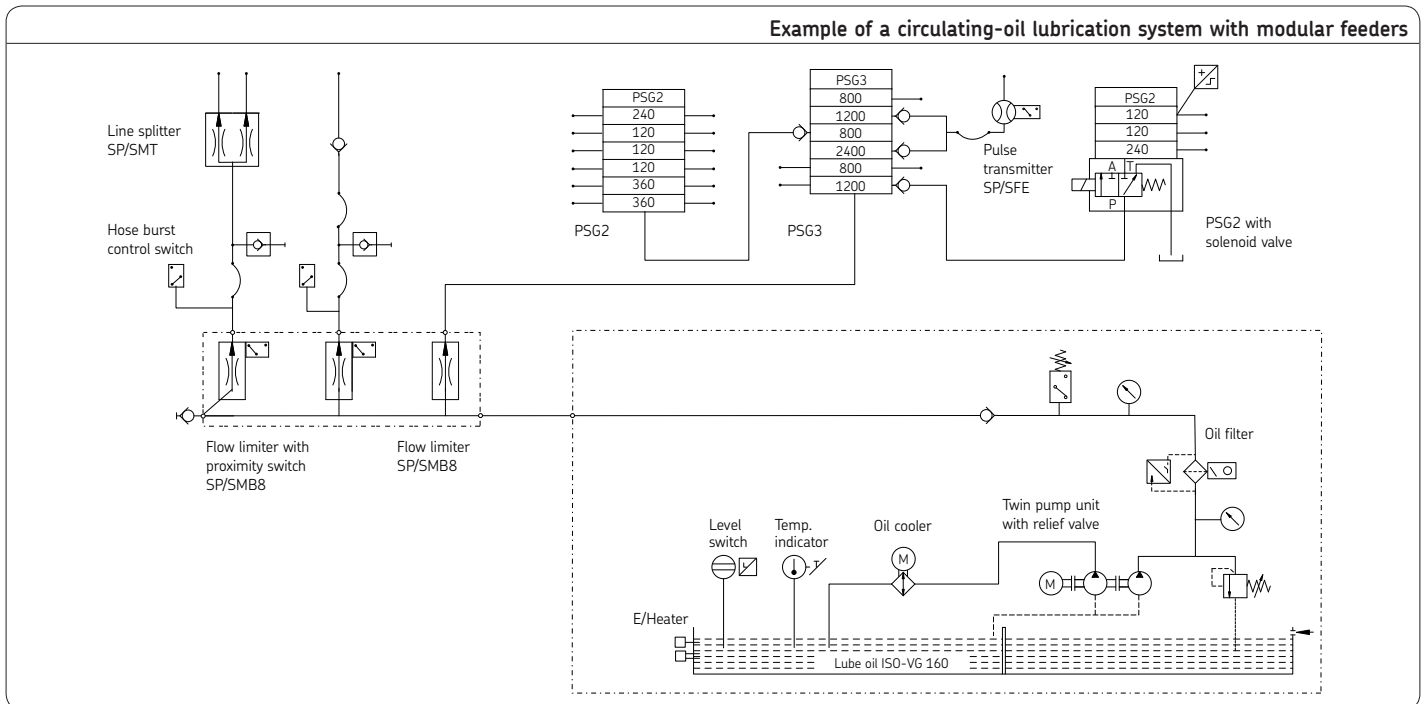
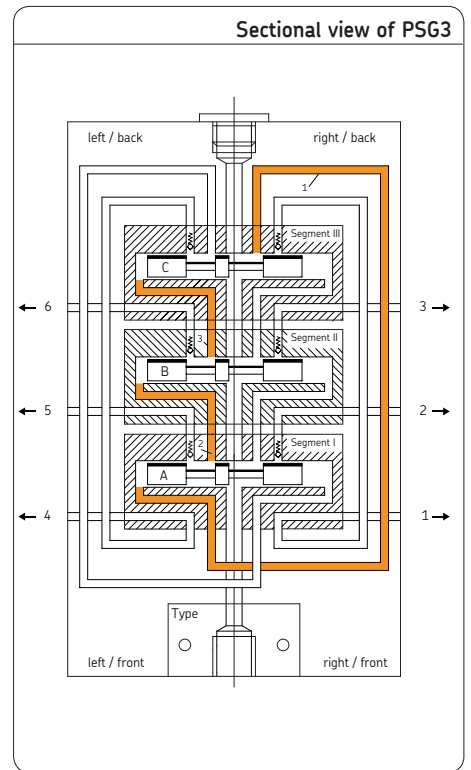
The volumetric flow which is sent via a tube is forcibly distributed in a predetermined ratio to the outlets, i.e. to the lubrication points or the downstream progressive feeders. Pistons, which are aligned in series, meter the lubricant for two opposite outlets each and control the function of the neighboring piston. This way, the function of the modular feeder can be checked by monitoring **any** piston (with a cycle indicator or piston detector) or the inlet volume flow (with gear-type flow indicator) can be monitored.

High operational reliability (at high or different back pressures) offered by the check valves installed standard. They also guarantee an accurate and safe blocking behavior, even for internal and external combinations.

Mode of operation

Observation of the movements beginning with the moment that all three pistons (**A, B, C**) on the left end stop shows that the lubricant and operating pressure reach from the inlet through the through-duct to the pistons **C-right, B-right** and **A-left**; that is, while pistons **C** and **B** retain their positions, the **A** piston is pushed right. The lubricant volume specified by the piston diameter and stroke is pressed into a duct on whose end (outlet 4) the same quantity exits. This stroke movement of piston **A** opens or closes multiple control ducts. Control duct 2, through which the lubricant reaches piston **B-left** and shifts it right, is now open. The corresponding metering volume is pressed into the outlet duct and exits at outlet 2. The stroke movement of piston **B** has now closed or opened control ducts. Control duct 3 is now open. The lubricant pressure moves piston **C** to the right, pushing the corresponding metering volume into the duct to outlet 3. This movement of piston **C** opens, among others, the reversing duct that reconnects the through-duct with piston **A-right**.

Analogous to the piston movement just described, pistons **A, B** and **C** now move consecutively back to the left.



Operating pressure

The maximum permissible operating pressure of the modular feeder depends on the monitoring type or the upstream attachments and is between 85 and 200 bar.

Operating temperature

The respective operating temperature range specified under the parameters has to be maintained.

Consolidation of outlets

The volumetric flow of an outlet can be doubled by internal combination of two opposite outlets. To do this, the threaded pin **G** in the baseplate -- the right input as seen from the feeder inlet -- must be screwed out. The outlet in the baseplate that is no longer needed is to be closed using a washer **D** and a screw plug **V**.

Adjacent outlets can be combined using external bridges (crossporting). One bridge can connect either two or three outlets.

Dummy section

Dummy and functional sections can be varied as desired within the frame size (a minimum of three functional sections are required per feeder). If dummy sections are installed, two lubricant outlets each must be closed in the baseplate (under the dummy section). Increased pressure loss must be expected if two dummy sections are installed side-by-side or if dummy sections are used as the start or end section.

Attachment of bridges (crossporting)

Bridges with or without an outlet (G 1/4") can be utilized to allow combinations between an internal crossporting and a bridge. It is still possible to use bridges with (a) check valve(s) (see page 16).

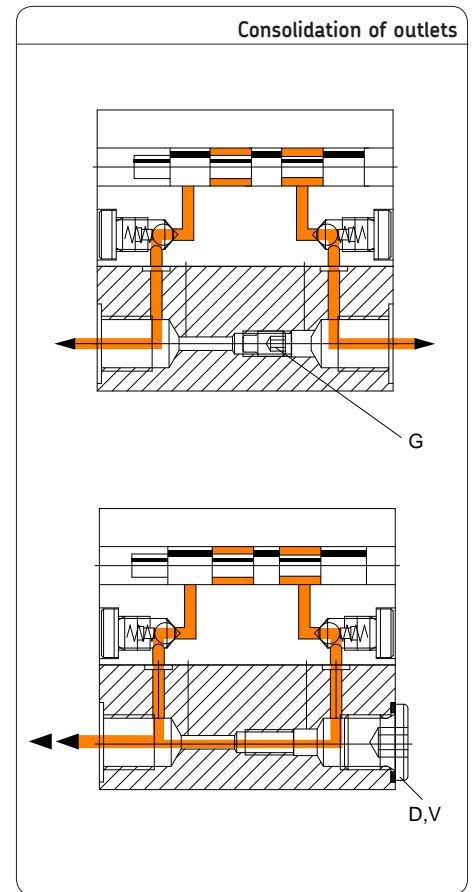
Information on the design

The general criteria for the design of progressive feeders also apply without restrictions to the PSG3 modular feeder. The stroke rate is the most important criterion. It should be held as low as possible by selecting high-volume sections. This reduces pressure losses and noise levels. In case of an installation on movable machine parts or in case of strong vibrations (e.g. on carbody presses), the piston position of the feeder **must not** correspond with the direction of movement of the machine part.

Tightening torque of the sections

When installing PSG3 sections on the baseplate, the following tightening torque must be complied with:

Damping torque: 23 Nm



Monitoring

All standard sections can be directly monitored by means of a piston detector (compare parameters for piston detector, monitoring type **P3**) and can be retrofitted. If piston movement is recorded using a cycle indicator (visual stroke monitoring, monitoring type **ZY**) with proximity switch (monitoring type **ZS**), the sections intended for this purposes are to be used.

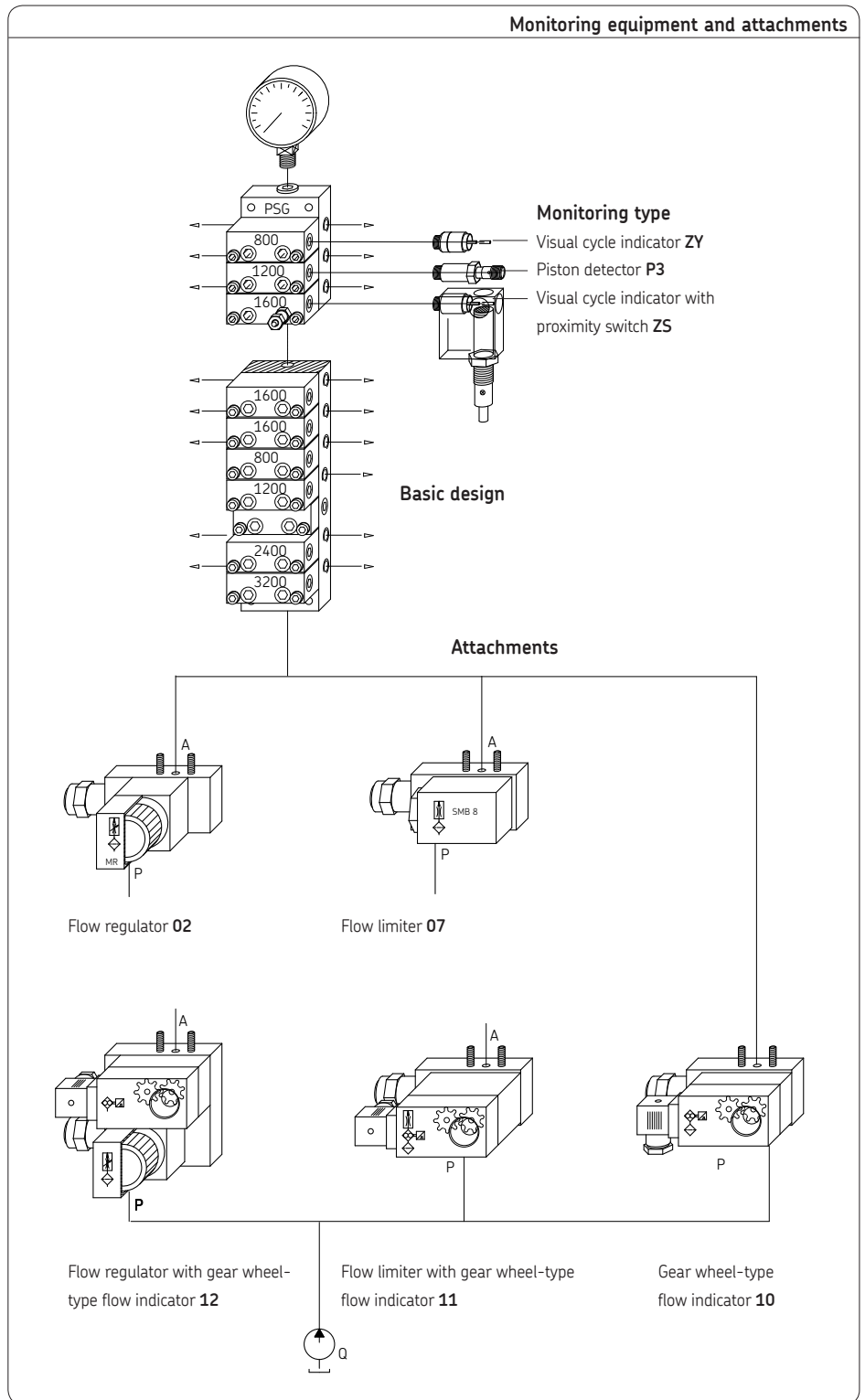
Attachments

The modular structure of the modular feeder becomes particularly apparent in the range of attachments. It can be equipped with an upstream:

- Flow limiter (attachment **07**)
- Flow regulator (attachment **02**)

The attachments can be supplied with or without a gear wheel-type flow indicator. Further designs with directional solenoid valve available on request.

If the inlet volume flow should be visually and electrically controlled, an upstream gear wheel-type flow indicator (attachments **10**, **11** and **12**) can be used.

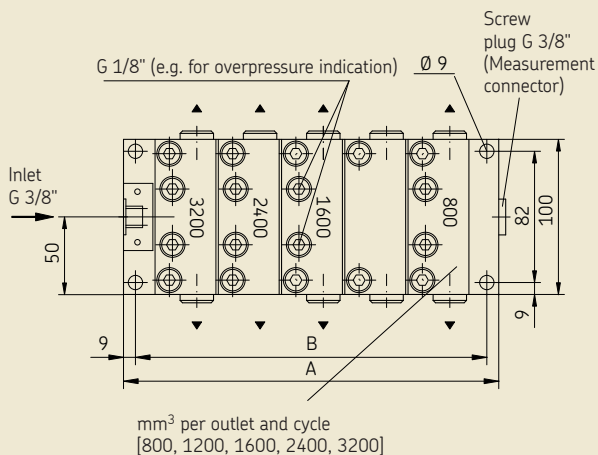
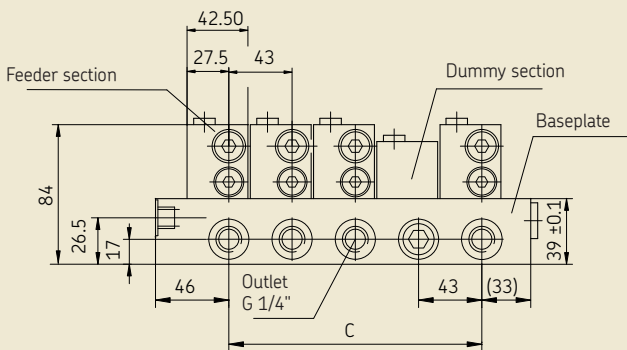


PSG3 modular feeder, basic design

for oil and grease, without attachments, without monitoring



PSG3 modular feeder, basic design



mm³ per outlet and cycle
[800, 1200, 1600, 2400, 3200]

Technical Data

General information

Type hydraulically controlled
 Mounting position discretionary ¹⁾
 Ambient temperature range - 15 to + 110 °C
 Baseplate with 6, 8, 10, 12, 14, 16, 18, 20 outlets
 working outlets without bridges 3 to 20
 working outlets with bridges 1 to 19

Material

Baseplate Al Cu Mg Pb F 38
 Sections GGC 25 ²⁾

Hydraulic

Operating pressure max. 200 bar
 Einlassvolumenstrom up to 6 l/min
 Volume per outlet and cycle ... 800-, 1200-, 1600-, 2400-, 3200 mm³
 Dividing ratio 1 : 1 to 1 : 4 ³⁾
 Pressure difference 5 to 15 bar ⁴⁾
 Lubricant Mineral oils, greases based on mineral oil,
 environmentally friendly and synthetic oils and greases
 Operating viscosity > 12 mm²/s
 Worked penetration ≥ 265 x 0.1 mm (up to NLGI Grade 2)

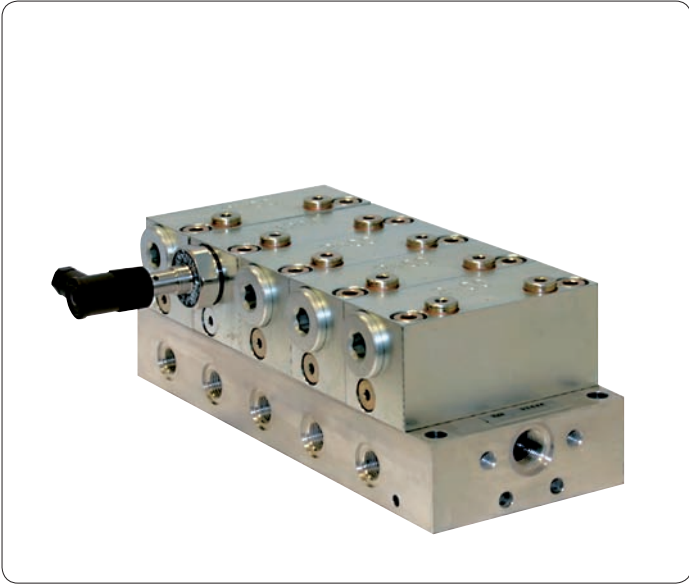
- 1) In case of attachments on movable machine parts or in case of strong vibrations (e.g. on pressing machines), the piston position of the feeder **must not** correspond with the direction of movement of the machine part.
- 2) Also available in corrosion-resistant design (chemically nickel-plated).
- 3) Larger dividing ratios are possible when consolidated.
- 4) Depending on volume index and viscosity or penetration and volumetric flow.

Dimensions

Number of Sections	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]	Complete weight [kg]
3	165	147	2 x 43 = 86	6.83
4	208	190	3 x 43 = 129	8.55
5	251	233	4 x 43 = 140	10.27
6	294	276	5 x 43 = 140	11.99
7	337	319	6 x 43 = 168	13.71
8	380	362	7 x 43 = 196	15.43
9	423	405	8 x 43 = 224	17.15
10	466	448	9 x 43 = 252	18.87

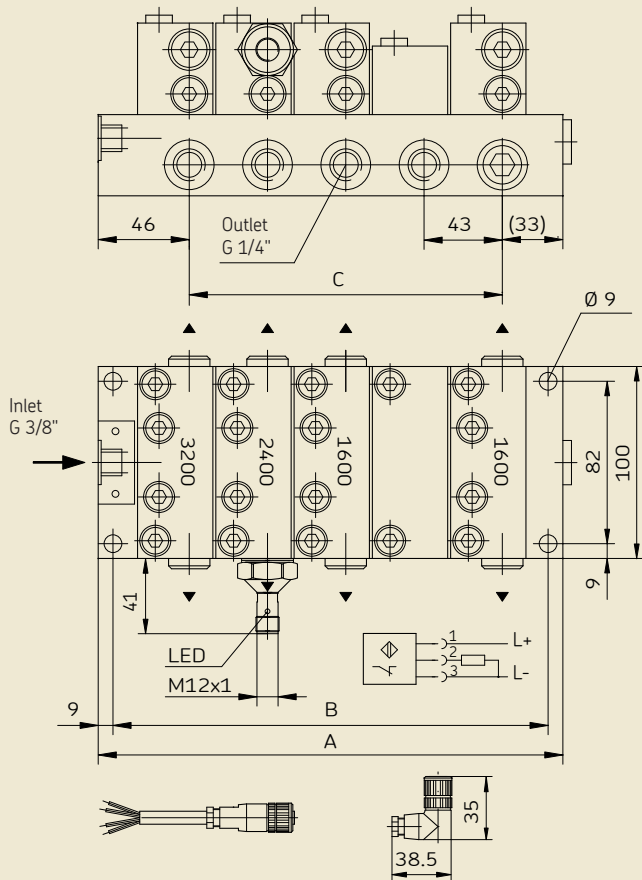
PSG3 modular feeder with piston detector

for oil and grease, monitoring type P3



PSG3 modular feeder with piston detector

For further measurements, see "basic design", page 7



Technical Data

General information

For further technical data, see "PSG3 basic design", page 7

Type hydraulically controlled
 Ambient temperature range - 15 to + 80 °C
 Piston detector weight 0.12 kg

Hydraulic

Operating pressure max. 200 bar
 Inlet volume flow up to 6 l/min
 Lubricant Mineral oils, greases based on mineral oil,
 environmentally friendly and synthetic oils and greases
 Operating viscosity > 12 mm²/s
 Worked penetration ≥ 265 x 0.1 mm (up to NLGI Grade 2)

Electrical

Piston detector

design with 4-point LED
 Rated voltage 10 to 36 V DC
 Residual ripple ≤10%
 Load current max. 100 mA
 Protection class IP 67
 Outlet function PNP contact

Accessories

Designation	Order no.
Cable socket M12 x 1, 4-pin, without LED,	
without cable	179-990-371
with 5 m cable	179-990-600
with 10 m cable	179-990-603
angled, without cable	179-990-372
angled, with 5 m cable	179-990-601

Spare parts

Designation	Order no.
Piston detector M22 x 1,5 with gasket	24-1884-2469
O-ring for piston detector	44-0411-2046

Note

The cable socket of the piston detector must be ordered separately!
 For technical data, please refer to leaflet no. 1-1730-EN, "Electrical Plug-In Connections".

PSG3 modular feeder with cycle indicator

for oil and grease, monitoring type ZY



Technical Data

General

For further technical data, see "PSG3 basic design", page 7

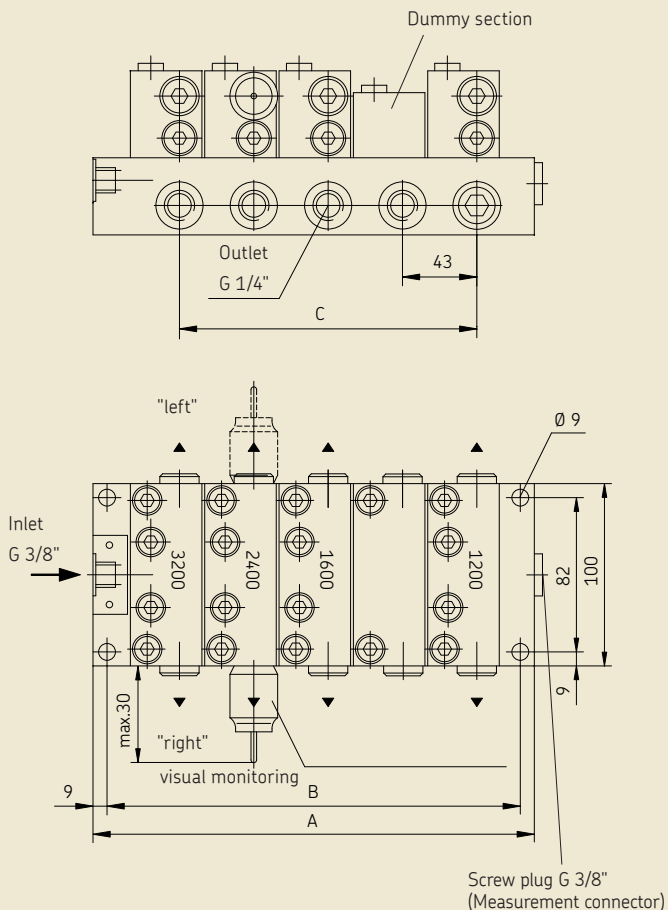
Typehydraulically controlled
 Ambient temperature range - 15 to + 90 °C
 Cycle indicator weight. 0.05 kg

Hydraulic

Operating pressure max. 200 bar
 Inlet volume flow up to 6 l/min
 Lubricant Mineral oils, greases based on mineral oil,
 environmentally friendly and synthetic oils and greases
 Operating viscosity > 12 mm²/s
 Worked penetration ≥ 265 x 0.1 mm (up to NLGI Grade 2)

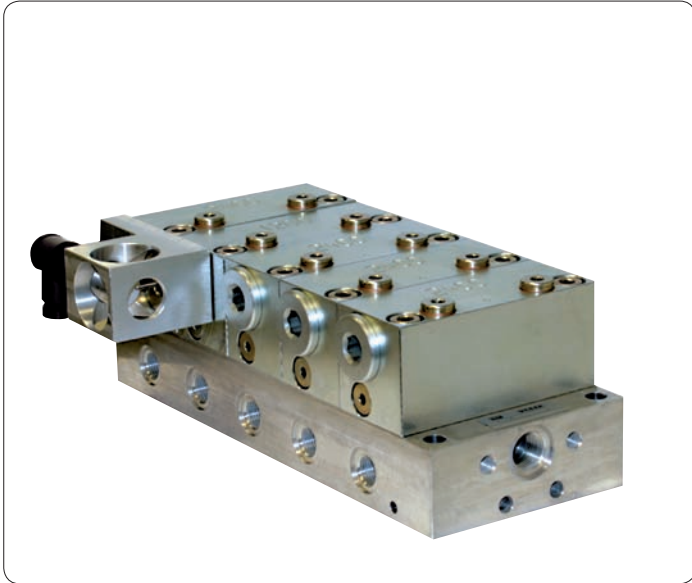
PSG3 modular feeder with cycle indicator

For further measurements, see "basic design", page 7



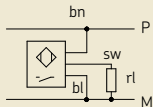
PSG3 modular feeder with proximity switch

for oil and grease, monitoring type ZS

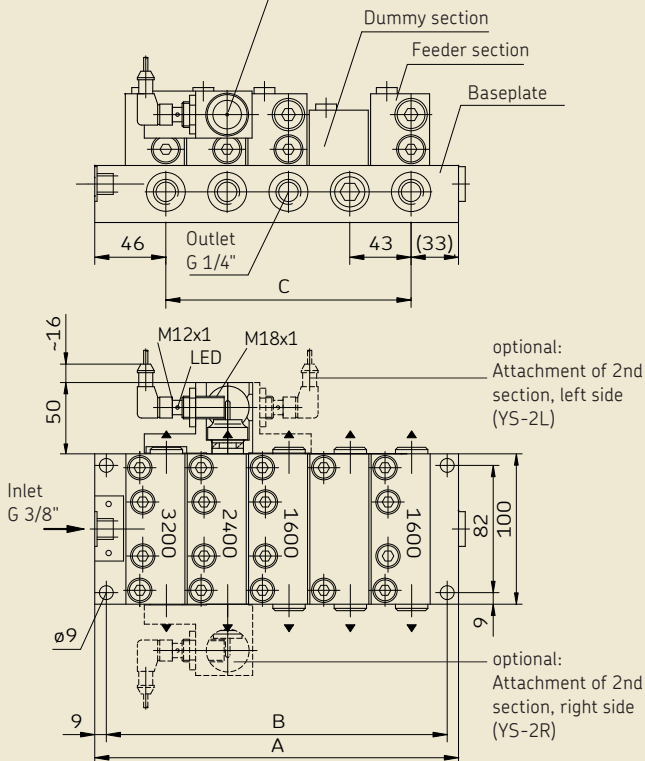


PSG3 modular feeder with proximity switch

For further measurements, see "basic design", page 7



Attachment is made on left or right from the second to second-to-last section



Technical Data

General

For further technical data, see "PSG3 basic design", page 7

Type hydraulically controlled
 Ambient temperature range - 15 to + 70 °C
 Proximity switch weight 0.17 kg

Hydraulic

Operating pressure max. 150 bar
 Inlet volume flow up to 6 l/min
 Lubricant Mineral oils, greases based on mineral oil, environmentally friendly and synthetic oils and greases
 Operating viscosity > 12 mm²/s
 Worked penetration ≥ 265 x 0.1 mm (up to NLGI Grade 2)

Electrical

Proximity switch ¹⁾

Design PNP with LED
 Rated voltage 10 to 30 V DC
 Load current max. 130 mA
 Protection class IP 67
 Outlet function NO-contact (electricity flows if switch damped)

1) Further designs available on request

Accessories

Designation	Order no.
Cable socket M12 x 1, 4-pin, without LED	
without cable	179-990-371
with 5 m cable	179-990-600
with 10 m cable	179-990-603
angled, without cable	179-990-372
angled, with 5 m cable	179-990-601

Spare parts

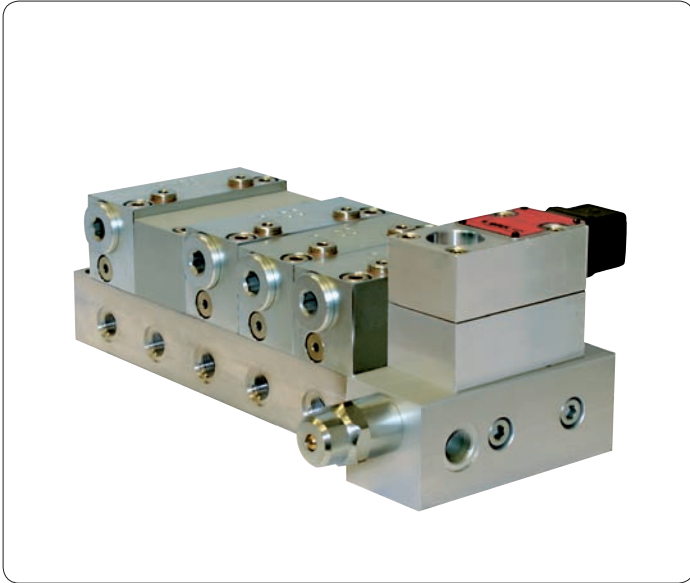
Designation	Order no.
Proximity switch	24-1884-2316
Housing proximity switch	44-0711-2593

Note

The cable socket of the proximity switch must be ordered separately! For technical data, please refer to leaflet no. 1-1730-EN, "Electrical Plug-In Connections".

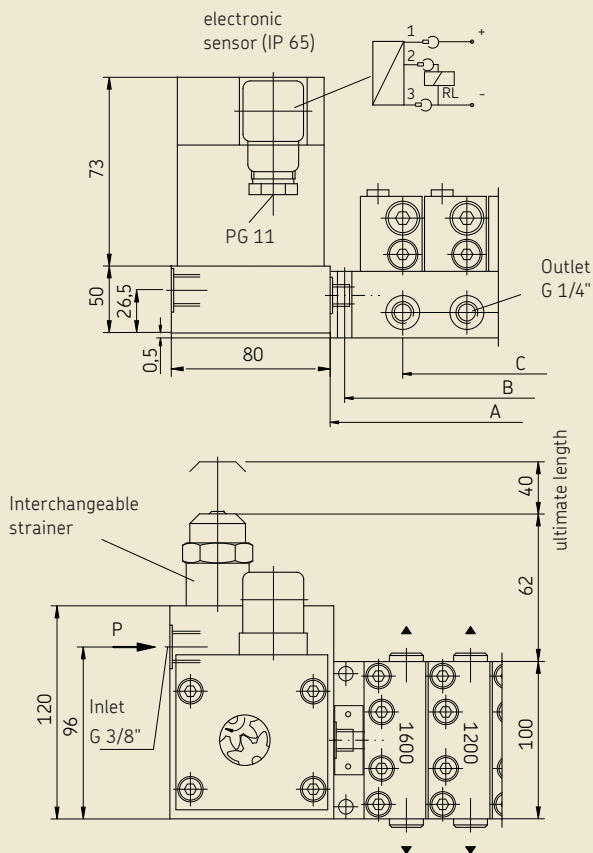
PSG3 modular feeder with gear-type flow indicator

for oil, Attachment 10



PSG3 modular feeder with gear-type flow indicator

For further measurements, see "basic design", page 7



Technical Data

General

For further technical data, see "PSG3 basic design", page 7

Type Gear motor
 Ambient temperature range - 15 to + 70 °C
 Gear-type flow indicator weight 0.9 kg

Hydraulic

Operating pressure max. 85 bar
 Inlet volume flow 2 l/min to 6 l/min
 Lubricant Mineral oils, environmentally friendly and synthetic oils
 Operating viscosity 20 to 600 mm²/s
 Gear-type flow indicator capacity. 4.6 cm³/rev
 Filtering unit/interchangeable strainer 0.3 mm

Electrical

Sensor

Type Hall sensor (PNP technology)
 Rated voltage 24 V DC
 Residual ripple ≤10%
 Protection class IP 65
 Proportionality factor 4.6 cm³/pulse

Accessories

Designation

Cable socket, DIN 43 650 type A (ISO 4400)
 without cable and LED

Order no.

179-990-034

Spare parts

Designation

Gear-type flow indicator with baseplate G 3/8"

Order no.

24-1883-2234

Note

The cable socket of the gear-type flow indicator must be ordered separately! For technical data, please refer to leaflet no. 1-1730-EN, "Electrical Plug-In Connections".

PSG3 modular feeder with flow regulator

for oil, attachment 02



Technical Data

General

For further technical data, see "PSG3 basic design", page 7

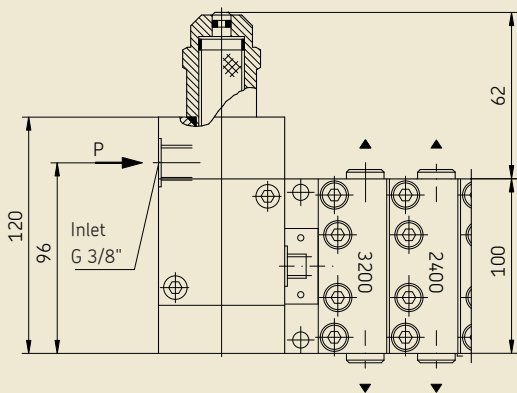
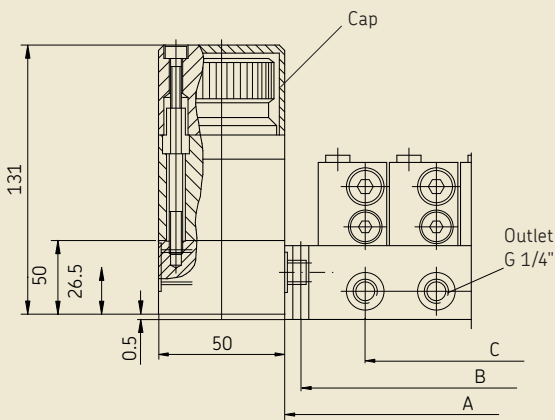
Type 2-way flow control valve
 Ambient temperature range - 15 to + 75 °C
 Flow regulator weight 1.3 kg

Hydraulic

Operating pressure max. 200 bar
 Inlet volume flow 0.1 to 6 l/min
 Lubricant Mineral oils, environmentally friendly and synthetic oils
 Operating viscosity 12 - 350 mm²/s
 Filtering unit/interchangeable strainer 0.3 mm
 Scale graduation 1 - 10

PSG3 modular feeder with flow regulator

For further measurements, see "basic design", page 7

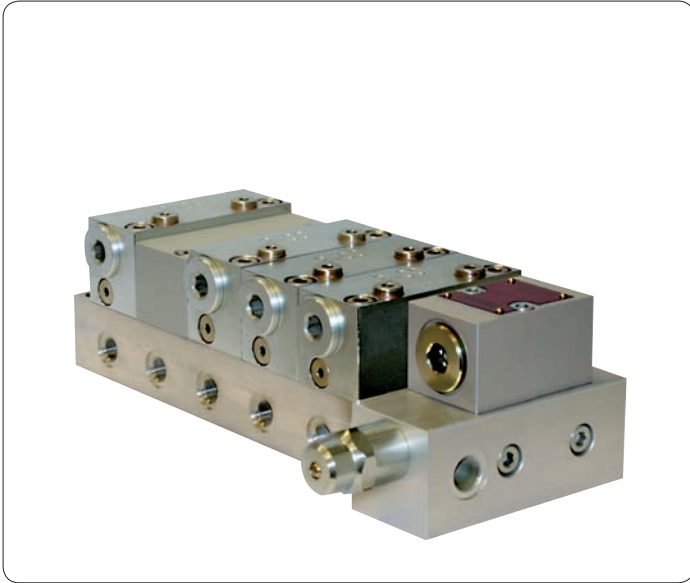


Spare parts

Designation	Order no.
Baseplate G 3/8" for flow regulator	24-1883-2238
Flow regulator up to 0.6 l/min	24-1883-2211
Flow regulator up to 1.6 l/min	24-1883-2201
Flow regulator up to 2.5 l/min	24-1883-2024
Flow regulator up to 4.0 l/min	24-1883-2025
Flow regulator up to 6.0 l/min	24-1883-2083

PSG3 modular feeder with SP/SMB8 flow limiter

for oil, attachment 07



Technical Data

General

For further technical data, see "PSG3 basic design", page 7

Type 2-way flow control valve
 Ambient temperature range - 15 to + 90 °C
 Flow limiter weight 1.1 kg

Hydraulic

Operating pressure max. 200 bar
 Inlet volume flow 1.8 - 6 l/min
 Lubricant Mineral oils, environmentally friendly and synthetic oils
 Operating viscosity 20 to 600 mm²/s
 Filtering unit/interchangeable strainer 0.3 mm

Spare parts

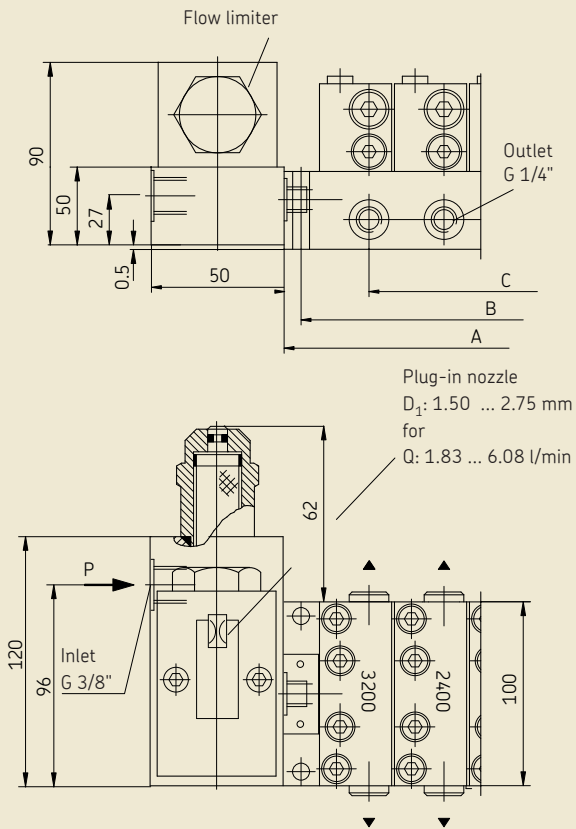
Designation

Order no.

Flow limiter with baseplate G3/8"	24-1883-2230
Flow limiter with baseplate UNF	24-1883-2244

PSG3 modular feeder with SP/SMB8 flow limiter

For further measurements, see "basic design", page 7



See plug-in nozzle table for SP/SMB8 flow limiter

Nominal volumetric flow ¹⁾ [l/min]	Nozzle [Ø mm]	Nozzle index	Spare part complete plug-in nozzle D ₁ Order no.
1.83	1.50	150	24-0455-2594
1.96	1.55	155	24-0455-2595
2.09	1.60	160	24-0455-2596
2.22	1.65	165	24-0455-2597
2.36	1.70	170	24-0455-2598
2.50	1.75	175	24-0455-2599
2.64	1.80	180	24-0455-2600
2.79	1.85	185	24-0455-2601
2.94	1.90	190	24-0455-2602
3.10	1.95	195	24-0455-2603
3.25	2.00	200	24-0455-2604
3.42	2.05	205	24-0455-2605
3.58	2.10	210	24-0455-2606
3.75	2.15	215	24-0455-2607
3.93	2.20	220	24-0455-2608
4.10	2.25	225	24-0455-2609
4.29	2.30	230	24-0455-2610
4.47	2.35	235	24-0455-2611
4.66	2.40	240	24-0455-2612
4.85	2.45	245	24-0455-2613
5.05	2.50	250	24-0455-2614
5.25	2.55	255	24-0455-2615
5.45	2.60	260	24-0455-2616
5.66	2.65	265	24-0455-2617
5.87	2.70	270	24-0455-2618
6.08	2.75	270	24-0455-2619

¹⁾ at a service viscosity of 300 mm²/s

Accessories and spare parts, PSG3 modular feeder

				Accessories
Designation	Number of sections	Volume per cycle and outlet [mm ³]	Order no.	Weight [kg]
Baseplate complete	3		24-0714-3310	1.60
Inlet thread G 3/8"	4		24-0714-3311	2.02
Outlet thread G 1/4"	5		24-0714-3312	2.42
	6		24-0714-3313	2.83
	7		24-0714-3314	3.24
	8		24-0714-3315	3.64
	9		24-0714-3316	4.08
	10		24-0714-3317	4.54
Baseplate complete	3		24-0714-2290	1.60
Inlet thread 3/4-16 UNF	4		24-0714-2291	2.02
Outlet thread 9/16-18 UNF	5		24-0714-2292	2.42
	6		24-0714-2293	2.83
	7		24-0714-2294	3.24
	8		24-0714-2295	3.64
	9		24-0714-2296	4.08
	10		24-0714-2297	4.54
Feeder section complete		800	24-2151-4240	1.31
prepared for the		1200	24-2151-4244	1.31
Piston detector assembly		1600	24-2151-4241	1.31
Monitoring type P3		2400	24-2151-4242	1.31
		3200	24-2151-4243	1.31
Complete feeder cycle indicator right ¹⁾		800	24-2151-4250	1.43
Monitoring type ZY (not on the first or the last section)		1.200	24-2151-4258	1.43
		1600	24-2151-4251	1.43
		2400	24-2151-4252	1.43
		3200	24-2151-4253	1.43
Complete dummy section without screw plug for baseplate			24-2151-4211	0.50

1) Feeder section with cycle indicator is supplied in the "plunger rod right" design.
Retrofitting to the "plunger rod left" design is described on page 15.

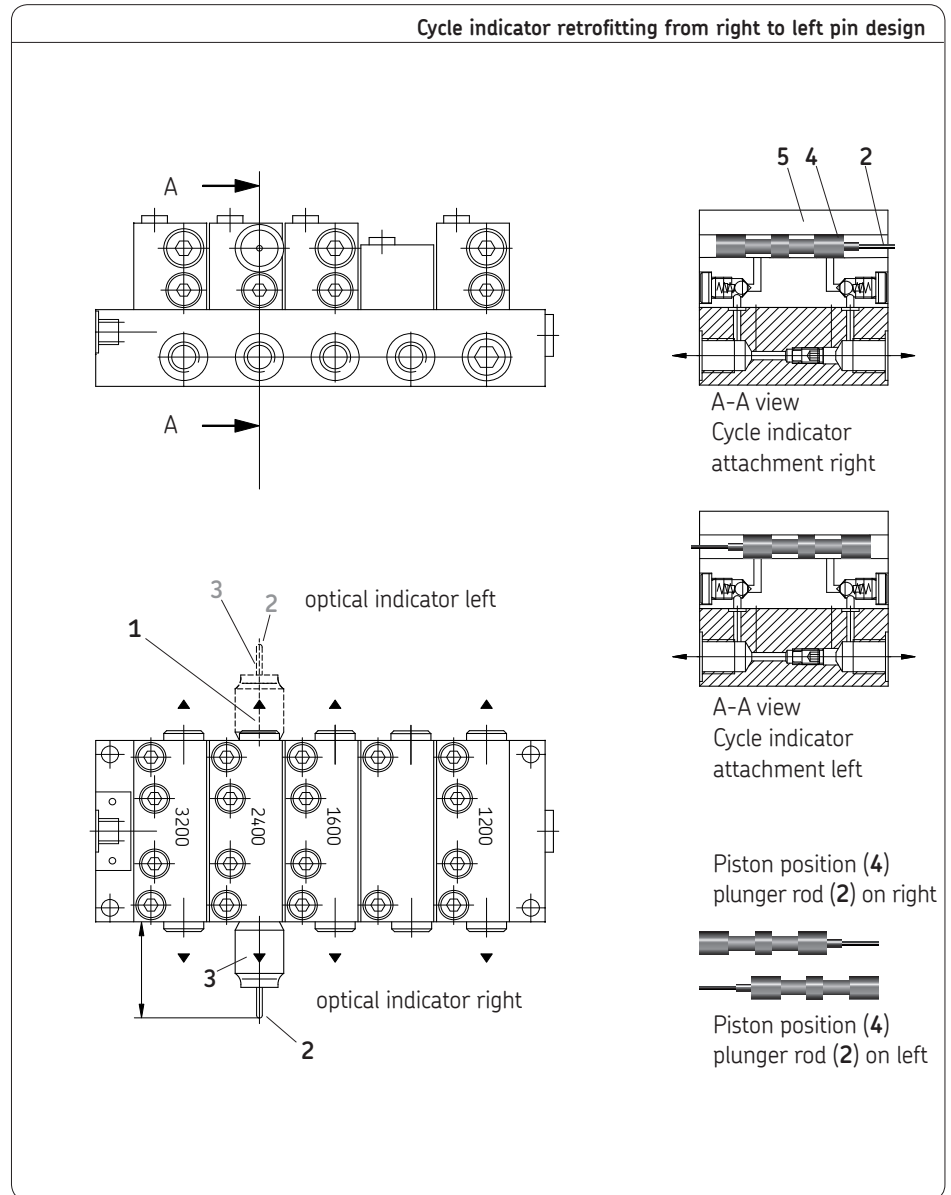
		Spare parts
Designation		Order no.
Piston stop screw,		44-1855-2106
Screw plug for baseplate outlet G 1/4"		DIN 908-R1-4-5.8
Washer for screw plugs G 1/4"		DIN 7603-A14x18-CU
Screw plug for baseplate outlet with gasket (Measurement connector) (3/4-16 UNF)		24-1855-2027
Screw plug for baseplate outlet with gasket (9/16-18 UNF)		24-1855-2028
Threaded pin for feeder baseplate		95-0812-0915
Baseplate O-ring (9 O-rings are required for one section)		96-9026-0062

Retrofitting instructions Cycle indicator

Note!

Pressure must not be applied to the feeder section during the retrofitting described below. Retrofitting the feeder section from a right cycle indicator design to a left cycle indicator design should therefore be performed before mounting the feeder section on the baseplate.

- Loosen up and remove screw plug (1) (left)
- **Push** plunger rod (2) of of the cycle indicator (right) **into cycle indicator housing (3)** (using finger)
- Carefully remove piston (4) with plunger rod (2) from left side of section housing (5)
- Loosen up and remove cycle indicator (3) (hexagon socket screw SW4) and install in left side
- ☞ Do not bend during subsequent installation piston (4) and plunger rod, do not shear off O-rings!
- Turn piston (4) with plunger rod (2) 180° and carefully install on the right side of section housing (5)
- Carefully insert the plunger rod (2) into the cycle indicator (3)
- Install the screw plug (1) on the right side



Bridge design for PSG3 modular feeder

Crossporting

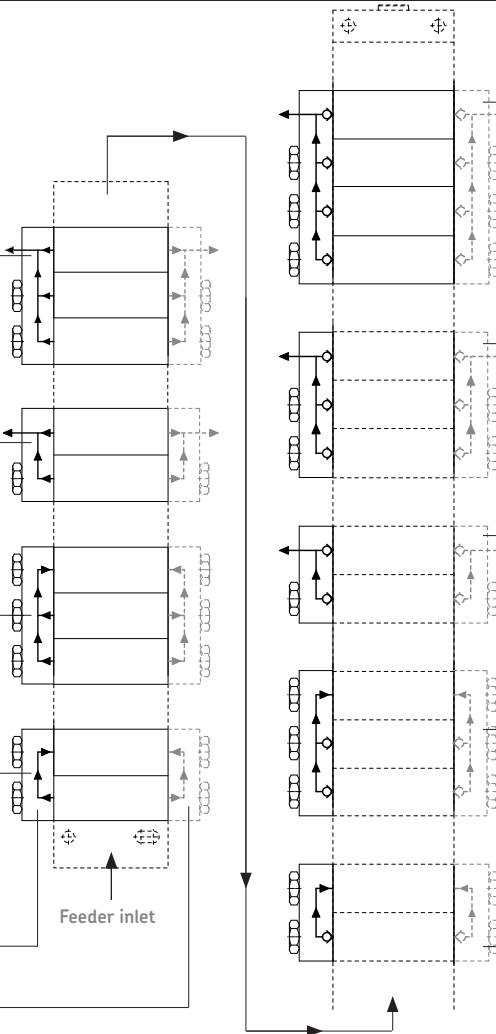
Designation
3-bridge, with one outlet
Order no.
G 1/4" 24-2151-3737

Designation
2-bridge, with one outlet
Order no.
G 1/4" 24-2151-3736

Designation
3-bridge, without outlet
Order no.
G 1/4" 24-2151-3735

Designation
2-bridge, without outlet
Order no.
G 1/4" 24-2151-3734

Bridge, installation position left
or
Bridge, installation position right



Designation
4-bridge, with one outlet,
with check valves
Order no.
on request

Designation
3-bridge, with one outlet,
with check valves
Order no.
G 1/4" 24-2151-3338
UNF 24-2151-4143

Designation
2-bridge, with one outlet,
with check valves
Order no.
G 1/4" 24-2151-3396
UNF 24-2151-3753

Designation
3-bridge, without outlet,
with check valves
Order no.
G 1/4" 24-2151-3393
UNF 24-2151-4142

Designation
2-bridge, without outlet,
with check valve
Order no.
G 1/4" 24-2151-3392
UNF 24-2151-4141

Notes

Key to order codes

Design

Example: **PSG 3 /10 15 / P3-4R /07 A 1 - 3200 - 2400L - X - 1600-1200L-2400R-1200-1200 ...**

PSG3 Progressive modular feeder on baseplate

Size 3: max. 6 l/min

Baseplate size

- 03 = for 3 sections (max. 6 outlets)
- 04 = for 4 sections (max. 8 outlets)
- 05 = for 5 sections (max. 10 outlets)
- 06 = for 6 sections (max. 12 outlets)
- 07 = for 7 sections (max. 14 outlets)
- 08 = for 8 sections (max. 16 outlets)
- 09 = for 9 sections (max. 18 outlets)
- 10 = for 10 sections (max. 20 outlets)

Number of working outlets

03 = 3 outlets open



20 = 20 outlets open (1 outlet usable with bridges)

Monitoring type

- 00 = without
- P3 = piston detector, 3-pin connection
- ZY = cycle indicator ²⁾
- ZS = cycle indicator with proximity switch ²⁾

Installation position of the monitoring system

- 1R = right side on first section
- 1L = left side on first section
- 2R = right side on second section



- OR = right side on 10th section
- OL = left side on 10th section

1- to max. 10 sections →

4th section ¹⁾
1600 mm³/stroke
left outlet: 1600 mm³/cycle
right outlet: 1600 mm³/cycle

Dummy section
left and right outlet closed

2nd section ¹⁾
Baseplate:
2400 mm³/stroke
left outlet: 2 x 2400 mm³/cycle
right outlet: closed

1st section ¹⁾
Baseplate:
3200 mm³/stroke
left outlet: 3200 mm³/cycle
right outlet: 3200 mm³/cycle

- 1 = Basic design:
Inlet G 3/8"
Outlet G 1/4"
- 2 = UNF version:
Inlet G 3/4-16 UNF - thread
Outlet 9/16-18 UNF - thread

A = change version

Attachments

- 00 = without attachments
- 02 = with flow regulator
- 07 = with flow limiter SP/SMB8
- 08 = with 4/2-directional solenoid valve, de-energized, continuity to feeder open P-A
- 09 = with 4/2-directional solenoid valve, de-energized, continuity to feeder closed P-B
- 10 = with gear-type flow indicator
- 11 = with flow limiter and gear-type flow indicator
- 12 = with flow regulator and gear-type flow indicator
- 13 = with 2/2-directional solenoid valve, de-energized closed

1) The sections are available in volumes per outlet and cycle of 800, 1200, 1600, 2400 and 3200 mm³ (volume index).

2) Attachment is made on the left or right from the second to second-to-last section.

Progressive feeder, type PSG3 with a max. flow rate of 4.1 l/min (PSG3), baseplate for 10 sections (10), with 15 occupied outlets (15), with monitoring by 3-pin piston detector (P3), installed on the right side of the 4th section (4R), with upstream flow limiter (07), change version A (A), G3/8" inlet thread (1), 1st section with 3200 mm³/stroke (3200), 2nd section 2400 mm³/stroke, right outlet closed (2400L), dummy section (X), 4th section with 1600 mm³/stroke (1600), 5th section with 1200 mm³/stroke, right outlet closed (1200L), 6th section with 2400 mm³/stroke, left outlet closed (2400R), the further sections (section 7 to 10) with 1200, 1200, 800 and 800 mm³/stroke (1200-1200-800-800). The following bridges, check valves, screw unions as well as test or measurement connector have been allocated to the progressive feeder, as seen from the inlet.

Key to order codes

Attachments and screw unions

Connections - left feeder side
 Outlet open ← / outlet closed →
 Bridge **B**
 Check valve **RV**
 Overpressure indication [bar] **50 / 100 / 150 / 200**
 Outlet screw union
 Outlet- Ø mm **6 / 8 / 10 / 12**
customer-specific screw unions or bridges

Test and measurement connector (inlet pressure)
 Measurement connector **MA** or
 Pressure gauge max. pressure indication [bar] **160**

Connections - right feeder side
 Outlet open → / outlet closed ←
 Bridge **B**
 Check valve **RV**
 Overpressure indication [bar] **50 / 100 / 150 / 200**
 Outlet screw union
 Outlet- Ø mm **6 / 8 / 10 / 12**
customer-specific screw unions or bridges

	Order No.							Order No.
10		10					←	
9		10					←	
8		12					←	
7		12					←	
6					B		→	
5	24-2151-3392				RV	B	←	
4		12					←	
3							→	
2		12					←	
1		15					←	RV 15

Comments

Attachments

Note!
 When attaching a flow limiter, add the order number of the plug-in nozzle, (see page 13).
 Order no. **24-0455-2609**

16 — Inlet screw union
 Inlet - Ø mm 8 / 10 / 12 / 15/16
 customer-specific screw unions

Inlet screw union = with Ø 16 mm **(16)**,
 Attachments = with plug-in nozzle for the flow limiter for a volumetric flow of 4.1 l/min **(24-0455-2609)**
 1st section = outlet screw union on both sides with Ø 15 mm **(15)**, right side with additional check valve **(RV)**
 2nd section = outlet screw union on left with Ø 12 mm **(12)**, right side closed (480L),
 3rd section = dummy section **(X)**, closed on both sides,
 4th section = outlet screw union on both sides with Ø 10 mm **(10)**,
 5th section = outlet left bridge **(B)** and check valve **(RV)** (bridge between 5th (1200L) and 6th section (2400R) **(24-2151-3392)** -see page 17), outlet right closed (2400L),
 6th section = outlet left bridge **(B)**, outlet screw union with Ø 15 mm **(15)**,
 7th section = outlet screw union on both sides with Ø 12 mm **(12)**,
 8th section = outlet screw union on both sides with Ø 12 mm **(12)**, right with overpressure indication max. 100 bar **(100)**,
 9th-10th section = screw unions on both sides Ø 10 mm **(10)**.
 On baseplate outlet, pressure gauge with max. pressure indication 160 bar **(160)**.

Order Form Inquiry Form

Please arrange the following order code according to the sample of the order code explanation!
Note! The actual order number will be allocated after the order has been placed.

Configuration - order code PSG3

PSG 3 /10 15 / P3-4R /07 A 1 - 3200 - 2400L - X -1600-1200L-2400R-1200-800-800...

PSG3 / / ... - ... / ... A .. - - - - - - - - - -

Connections - left feeder side

Outlet open ← / outlet closed →

Bridge B

Check valve RV

Overpressure indication [bar] 50 / 100 / 150 / 200

Outlet screw union

Outlet- Ø mm 6 / 8 / 10 / 12

customer-specific screw unions or bridges

Test and measurement connector (inlet pressure)

Measurement connector MA or

Pressure gauge max. pressure indication [bar] 160

Connections - right feeder side

Outlet open → / outlet closed ←

Bridge B

Check valve RV

Overpressure indication [bar] 50 / 100 / 150 / 200

Outlet screw union

Outlet- Ø mm 6 / 8 / 10 / 12

customer-specific screw unions or bridges

	Order No.								Order No.
10									
9									
8									
7									
6									
5									
4									
3									
2									
1									

Attachments

Note! When attaching a flow limiter, add the order number of the plug-in nozzle, (see page 13).

Order no.

Inlet screw union
 Inlet - Ø mm 8 / 10 / 12 / 15 / 16

customer-specific screw unions

Comments

Company: Address: Reference:	Name: Function/dept.: Phone: Fax/E-Mail:
--	---

PSG3 Modular Feeder

The configuration of a PSG3 progressive feeder is customer-specific. The most important data for the generation of an order number are summarized on pages 18 to 19. As an illustration, an example of an order has been added.

Please read the two pages thoroughly!

An order / inquiry form is located on the inside of this leaflet.

Please fill this in according to the sample, whereby the blank line PSG3/... (configuration) must be completed according to the sample on page 18 and the graphic below according to the sample on page 19.

Note!

The configuration of a modular feeder (and thereby its order code) always starts at the baseplate inlet section.

First, copy the order sheet, then complete the copy and send it to the following address:

SKF Lubrication Systems Germany AG

2. Industriestrasse 4
68766 Hockenheim
Germany

Tel. +49 (0)62 05 27-0
Fax +49 (0)62 05 27-101

www.skf.com/lubrication

Please complete your address here:

Company: _____

Address: _____

Reference: _____

Name: _____

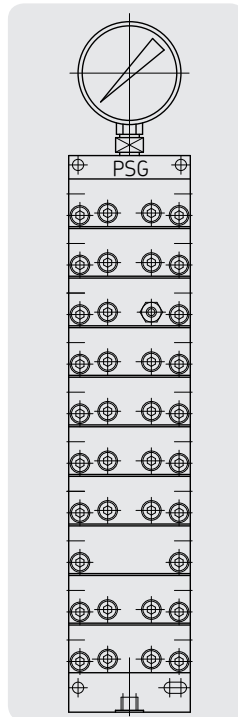
Function/dept.: _____

Phone: _____

Fax: _____

E-mail: _____

Additional amendments or remarks:



Order No. 1-3014-EN

Subject to change without notice! (07/2009)

Important product usage information

All products from SKF may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products, they must be read and followed.

Not all lubricants are suitable for use in centralized lubrication systems. SKF does offer an inspection service to test customer supplied lubricant to determine if it can be used in a centralized system. SKF lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1013 mbars) by more than 0.5 bar at their maximum permissible temperature.

Hazardous materials of any kind, especially the materials classified as hazardous by European Community Directive EC 67/548/EEC, Article 2, Par. 2, may only be used to fill SKF centralized lubrication systems and components and delivered and/or distributed with the same after consulting with and receiving written approval from SKF.

Brochure note

- 1-3011-EN Progressive modular feeder PSG3(PM)
- 1-3013-EN Progressive modular feeder PSG2
- 1-3015-EN Progressive sectional feeder VP
- 1-3016-EN Progressive sectional feeder VPK
- 1-3017-EN Progressive block feeder VPB
- 1-3029-EN Progressive block feeder SPVS

SKF Lubrication Systems Germany AG

2. Industriestrasse 4 · 68766 Hockenheim · Germany
Tel. +49 (0)62 05 27-0 · Fax +49 (0)62 05 27-101
www.skf.com/lubrication

This brochure was presented by:

® SKF is a registered trademark of the SKF Group.

© SKF Group 2009

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

