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Overview of multi-line oil pumps and pump units

Product (0								
	Dutiets	Reservoir		Metering quant	ity per outlet	Operating pre	ssure max	ATEX 1)	Page
		l	gal	cm³/min	in³/min	bar	psi		
SP/G 2	2 or 4	on request	on request	0,14-2,9	0.008-0.176	3	44	_	12
RA U 1	L-20	on request	on request	0,07-36	0.004-2.196	63	913	• 2)	14
55i 1	L-14	1-8	0.26-2.1	0,2-12,7	0.012-0.775	400	5 800	-	16
JM 1	L-28	2-14; any	0.5 – 3.7; any	0,17-5,0	0.010-0.305	600	8 700	• 3)	18
SP/PFE 1	L-5	on request	on request	1,0-75,0	0.061-4.576	4 000	58 000	• 3)	28

Hydraulically	operated pum	np units						
Product	Outlets	Reservo	ir	Metering quant	ity per outlet	Operating	pressure max	Page
		l	gal	cm³/min	in³/min	bar	psi	
PD	4-10	-	-	0-20	0 –1.22	63	913	20
PC	1-28	-	-	1,74-227	0.106 – 13,852	50	725	22

Electrically ope	rated pum	nps							
Product	Outlets	Reservoir	Reservoir		Metering quantity per outlet		Operating pressure max		Page
		l	gal	cm ³ /min	in³/min	bar	psi		
RA M/RA B	1-20	0,3-15, any	0.8–4; any	0,07-36	0.004-2.196	60	870	• 2)	24
PC	1-28	-	-	1,74-227	0.106-13.85	50	725	-	22
JM	1-28	2-14; any	0.5-3.7; any	0,15-7,95	0.009-0.485	600	8 700	• 3)	18
SP/PFE	1-5	on request	on request	1,0-75,0	0.061-4.576	4 000	58 000	• 3)	28



¹⁾ on request 2) for gas: II 2G c IICT4 Gb; for dust: II 2D c IIICT135°C Db 3) for gas: II 2G c IICT4 Gb

¹⁾ on request 2) for gas: II 2G c IICT4 Gb; for dust: II 2D c IIICT 135 °C Db 3) for gas: II 2G c IICT4 Gb

SP/G



Product description

The SP/G rotary-driven, multi-line piston pump features a fixed internal gear ratio of 33:1. Its compact pump design with only two rotating/movable parts is slide operated and requires no rubber seals, springs or additional non-return valves. The SP/G is available as a self-priming pump or as a pump with priming pressure. Designs with two or four outlets are available. The two-outlet version is offered in two different piston sizes respective of delivery volumes. One vibration-proof, stroke-regulating screw per outlet pair enables fine-tuned stroke settings.

Features and benefits

- Virtually maintenance-free, vibration-proof, 24/7 design
- Designed for high ambient temperatures and all standard lubrication oils
- Machine operated; no under- or over-lubrication
- Oil supply from machine sump or from existing oil-circulation system
- Adjustable output
- Available for two drive directions

Applications

- Marine industry; inlet valve seat lubrication for powerful four-stroke engines
- General machine-driven applications



Technical data

Group size

Function principle mechanically operated piston pump Metering quantity 1) piston K6:

max. 0,042 cm³/stroke max. 0.0026 in³/stroke

piston K7:

max. 0,058 cm³/stroken max. 0.0035 in³/stroke 2, 4, 6, 8, 10 flow meters

Lubricant mineral, synthetic, environmentally safe oil; up to 12 to 800 mm²/s

3 bar; 43 psi, plus inlet pressure 0 or 2 to 6 bar, Operating pressure Inlet pressure 0 or 30 to 85 psi

max. 100 °C; 212 °F Operating temperature 2 or 4 30:1 Outlets Internal ratio

300-3000 min-1 Drive speed Drive direction left/right for tube Ø 4 and 6 mm OD

Connection in/outlet 2 outlets: 56 × 88,5 × 44 mm **Dimensions**

2.22 × 3.5 × 1.8 in 4 outlets: $69 \times 85 \times 45 \text{ mm}$ $2.7 \times 3.4 \times 1.8 \text{ in}$

Mounting position any

customized pre-set volumes Options

1) With priming pressure increased delivery volume; see technical information

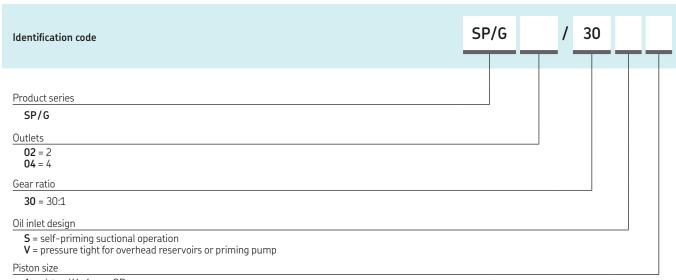


NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available on SKF.com/lubrication: 951-170-219-EN



SP/G



6 = piston K6, 6 mm OD 7 = piston K7, 7 mm OD

SP/G tube connections

Order number	Description
Inlet screw uni 406-001	ons double-tapered ring for tube Ø 6 mm 0D
406-002	socket union M10 \times 1 – tube \varnothing 6 mm 0D
Outlet screw u 404-001	nions double-tapered ring for tube ∅ 4 mm 0D
404-002	socket union M8×1 tube Ø4 mm OD

SP/G coupling element with snap ring				
Order number	·	Item		
44-1202-2038	coupling element	1		
44-0606-6302	snap ring for coupling element	2		



LINCOLN

RA... U





Product description

The RA multi-line pump is a unique radial piston pump with stackable pump elements. The modular pump design allows up to five pump elements, each with one, two or four outlets. A later outlet reduction or outlet extension is thus possible. The displacement of all outlets from a pump element is adjustable by a common setting device, setting range 33–100%. Several different mechanical or electric motor drives are available.

Features and benefits

- Modular pump-to-point solution for 1 to 20 lubrication points
- Depending on drive speed respective of selected drive ratio, RA pumps cover feed rates of some droplets until $36 \text{ cm}^3/\text{min} (2.2 \text{ in}^3/\text{min})$
- Drive direction left or right
- Compatible with mineral- and synthetic-based oil
- Vibration-proof, marine and ATEX versions available
- Supplies several different lubrication zones, lubrication points or chain pins

Applications

- Gas compressors and large pumps
- Economic power unit for sealing oil systems
- Marine, valve-seat lubrication on large four-stroke engines

Technical data

Function principle

Operating temperature

Operating pressure

Outlets

Lubricant

Metering quantity per outlet

Output per outlet

Internal ratio **Dimensions**

Drive speed Protection class Mounting position

radial piston pump with stackable

pumping elements -15 to 80 °C, +5 to +176 °F, 10 to 63 bar, 145 to 915 psi

depending on drive speed and oil viscosity

1 to 20

(max. 5 elements with 1, 2 or 4 outlets) mineral- and synthetic-based oil, 25 to 2 500 mm²/s

0,007-0,02 cm³/revolution 0.0004-0.0012 in³/revolution

0,07-36 cm³/min

0.004–2.2 in³/min 1:1, 5:1, 10, 5:1, 15:1, 25:1, 75:1, 125:1

min. $113 \times 54 \times 54$ mm max. $220 \times 54 \times 54$ mm min. 4.45 × 2.13 × 2.13 in max. 8.68 × 2.13 × 2.13 in

10 to 1800 min-1 min. IP 55

with manual hand crank for pre-lubrication, customized pre-set volume version with two inlet sections for two different

oil types



NOTE

CAD data

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publications available on SKF.com/lubrication:

11103 EN, 951-170-230 EN



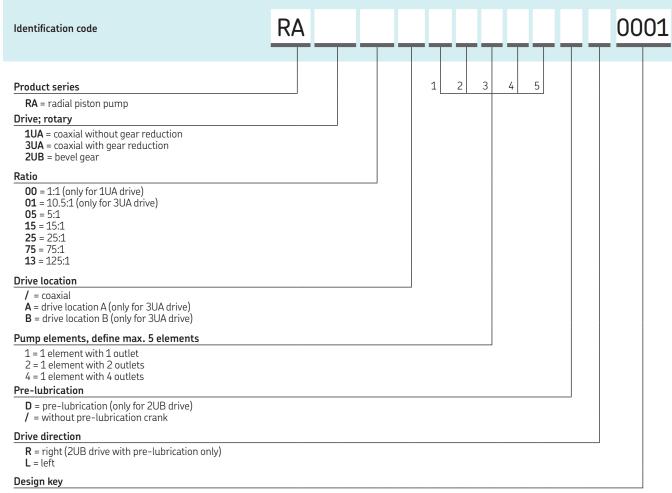
skf-lubrication.partcommunity.com/3d-cad-models/



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Pump

RA... U



0001 = standard including FPM seals

RA pump elements	
Order number	Description
24-1557-3520	pump element, with 1 outlet
24-1557-3521	pump element, with 2 outlets
24-1557-3522	pump element, with 4 outlets

55i



Product description

The positive-displacement, single-action 55i pumps are fully adjustable by means of manually modifying the angle of the rocker arm to the cam. The pump operation is a two-stage process. As the camshaft rotates, the cam mechanically forces the pump plunger forward, displacing a measured volume of oil. On the second or return stroke, a spring assists the plunger to return for prime. All pump elements are designed with a pushbutton for manual pre-lubrication.

Features and benefits

- Easy adjustment of flow rate
- Pushbutton for pre-lubrication and system de-aeration
- Modular box lubricator mounting for ease of maintenance
- Pumps with suction tube for oil suction from the lubricator box or with direct feed by overhead reservoir
- With or without sight glass for visual flow indication
- For operating viscosity up to 1 700 mm²/s

Applications

- Gas engines
- Reciprocating compressors
- High-pressure oil, total-loss lubrication systems



Technical data

Function principle Metering quantity

Outlets Lubricant

Operating pressure

Operating temperature Reservoir

Internal ratio Drive speed Electrical motor drives

Connection outlet **Dimensions**

K³/16: 0,20 cm³, 0.0122 in³ K¹/4: 0,302cm³, 0.0184 in³ K 3/8: 0,68 cm³, 0.0415 in³ 1 to 7 mineral- or synthetic-based oil. viscosity max. 1 700 mm²/s

camshaft-operated piston pump

K³/8: max. 240 bar, 3 500 psi K¹/₄: max. 400 bar, 6 000 psi -20 to +70 °C, -4 to + 158 °F 1,4 to 3,8 l, 0.37 to 1.0 gal depends on outlet quantity 37.5:1; 60:1; 112.5:1

<20 min⁻¹; depends on box lubricator for pumps with 112.5:1 and 300:1 ratio only

1/8 NPTF min. 127 × 88 × 35 mm $max.\,127\times132\times35\,mm$ min. 5 x 3 15/32 x 1 3/8 in max. $5 \times 5 \frac{3}{16} \times 1 \frac{3}{8}$ in outer parts when installed in

box lubricator

Mounting position Options

pumping elements without sight glass lubrication sentries to control the oillevel and camshaft rotation, oil-level

regulator



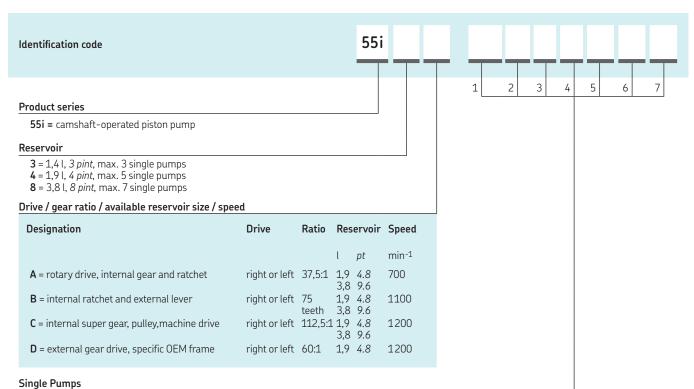
NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available on SKF.com/lubrication:

FORM 442834 EN



55i



Designation	Pistor	ı Ø	Inlet	Sight glass	Operatir max.	ng pressure		ing quanti roke max.	ty	Order number spare part
	mm	inch			bar	psi	drops	cm ³	in ³	
1 = vacuum feed	6,4	1/4	suction tube	•	400	6 000	9	0,302	0.0184	880550
2 = vacuum feed	9,5	3/ ₈ 3/ ₁₆	suction tube	•	240	3500	21	0,680	0.0415	880560
3 = pressure inlet, manifold feed	4,8	3/16	1/8 NPTF	•	400	6 000	6	0,200	0.0122	880553
4 = pressure inlet, manifold feed	6,4	1/4	1/8 NPTM	•	400	6 000	9	0,302	0.0184	880551
5 = pressure inlet, manifold feed	9,5	3/8	1/8 NPTM	•	240	3 <i>500</i>	21	0,680	0.0415	880561
6 = direct feed	6,4	1/4	1/8 NPTF	-	400	6 000	9	0,302	0.0184	880552
7 = direct feed	9,5	3/8	1/8 NPTF	-	240	3500	21	0,800	0.0488	880554

Description	Order number
lubricator flow switch; monitors model 55i lubricant flow	880463
lube sentry; monitors camshaft rotation and reservoir level	880555
lube sentry; same as model number: 880555, except suction is 1/2 inch shorter, for pre-warning	880556
oil-level regulator; automatically fills lubricator reservoir from header reservoir	880496
cover plate; gasket	350654
cover plate assembly	250132
cover plate screws	70224
armored sight glass kit	276517

JM





Product description

The multi-line JM oil lubrication pump is a high-pressure pump that provides a maximum continuous operating pressure of 600 bar (8 700 psi). Its modular design features unique, adjustable, dual-piston pumping elements (separate dosing and high-pressure booster piston) in combination with an optical drip indicator that delivers outstanding reliability.

Depending on the application, the pump can be machine or electrically driven. The JM pump is available in a pressure-tight design that is suitable for use with overhead lubrication oil tanks. It can deliver all mineral oils with an operating viscosity between 25 and 3 000 mm²/s.

Features and benefits

- Designed for 24/7 operation
- Three piston sizes cover output from 0,17 to 5,0 cm³/min $(0.01 \text{ to } 0.29 \text{ in}^3/\text{min}) \text{ per outlet}$
- Individual outlet settings between 25 and 100%
- Pressure-tight design available
- Can be monitored according to API 618 standards
- Most reliable replacement for all standard box lubricators

Applications

- Reciprocating gas compressors, mainly in an ATEX environment
- Pump-to-point lubrication of packings and cylinders
- Petro-chemical and food and beverage industry

Technical data

Function principle

Metering quantity per stroke Outlets Lubricant

Operating pressure Operating temperature Protection class Reservoir Internal ratio

Drive speed main shaft n2 Metering quantity per outlet

Drive Outlet connections **Dimensions**

Mounting position Options

design, rotary or electrically operated 0,017–0,2 cm³, 0.001–0.012 in³ 1 to 28 mineral- or synthetic-based oil, 25 to 3000 mm²/s max. 600 bar, 8700 psi 0 to +40 °C, +32 to +104 °F min. IP 55F, ATEX available per module 2 I, 0.5 gal 1:1, 35.1:1, 62.8:1, 83.2:1, 100.9:1, 125.7:1 10 to 25 min⁻¹ 0,17–5,0 cm³/min, 0.01-0.305 in³/min 3-phase motor or mechanical G1/4, tube \varnothing 6 or 8 mm OD min. $315 \times 200 \times 260$ mm max. 1 455 × 200 × 260 mm min. 12.4 × 7.87 × 10.24 in max. 57.3 × 7.87 × 10.24 in horizontal, level surface

cam-operated piston pump in modular

pressure-tight design for overhead reservoirs, additional oil reservoir with heater and oil-level sensor, camshaft rotation sensor, oil flow pulse transmit-

ters in ATEX



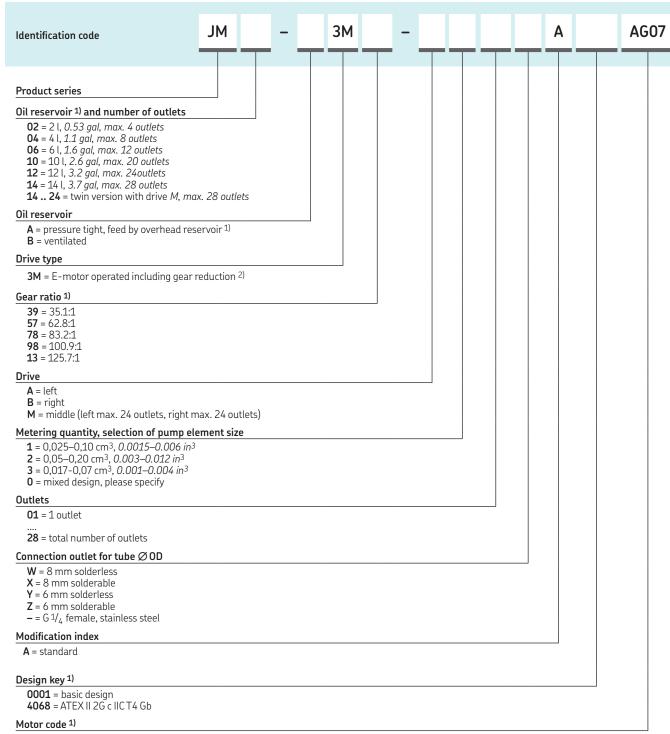
NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available on SKF.com/lubrication:

951-170-019; 951-180-073; 14600; 1-3007



JM



AG07 = E-motor 1 000 min⁻¹; 1 500 min⁻¹ on request available protection class: IP 55F



¹⁾ For supply via additional or overhead reservoir (max. installation height of 10 m; 5 m in conjunction with an additional reservoir in steel design) 2) For direct machine-operated versions, please consult technical support

PDYY, PDYC and PDYS





Designed for high-speed cylinder lubrication on two-stroke engines, the PDY... pumps use an existing oil supply system or drive pump unit. Engine electronics trigger the pre-loaded pumps by activating the solenoid valve. The exact stroke volume can be synchronized with the moving engine piston, and ignition timing can be adjusted to reach various piston stress areas with oil. PDYY and PDYC pumps feature a baseplate configuration with 6 or 8 outlets. PDYS pumps have double-stroke functionality for use on small-bore engines with only 4 outlets per cylinder.

Features and benefits

- Accurate, timed oil metering quantities within a millisecond
- · Load-dependent, lubrication standard
- · Modular design for easy assembly and service
- Prevents over-lubrication, deposits, excess smoke and CO₂
- Provides up to 40% oil savings
- Retrofit solutions available

Applications

- Marine industry
- General industry
- Chains or compressors



Technical data

Function principle electrically/hydraulically operated multi-outlet pump

Metering quantity 40 to 310 mm³ 0.0024 to 0.019 in³

PDYS:4 Outlets PDYY, PDYC: 6 or 8

Lubricant mineral-based oil up to SAE50;

25 to 2 000 mm²/s PDYS:

Drive oil

supply unit with lubricating oil

PDYY, PDYC:

mineral-based system oil up to SAE30 Operating pressure 45 to 55 bar; 650 to 800 psi

Operating temperature +5 to 70 °C; +41 to 158 °F PDYS, : <5 ms; PDYY, PDYC: <8 ms Injection time

24 V DC Power supply IP 65 Protection class

PDY/Y/C/S outlets on top Mounting position

Dimensions max. $270 \times 261 \times 180 \text{ mm}$ max. $10.6 \times 10.3 \times 7.1$ in

oil drive units with redundant pumps Options

according to the marine standard



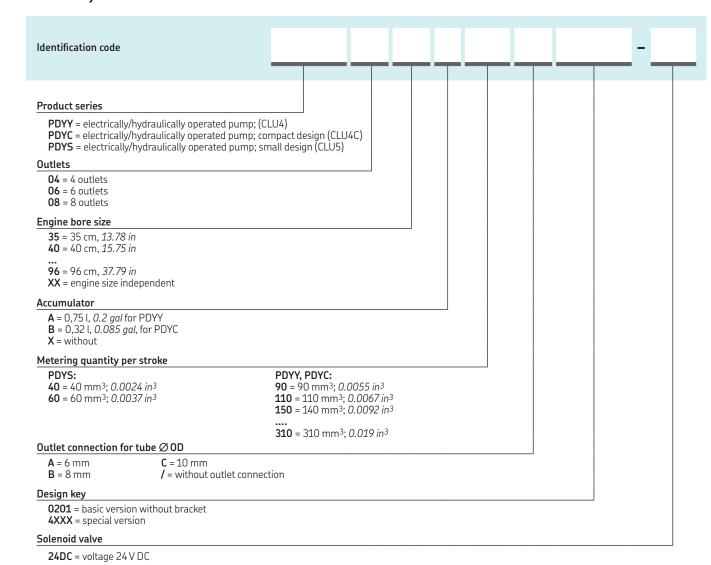
NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publications available on

SKF.com/lubrication:

PDYY; System CLU4: 951-130-314 EN PDYC; System CLU4C: **951-160-012 EN** PDYS; System CLU5: 951-170-210 EN

PDYY, PDYC and PDYS



PDYY, PDYC and PDYS accessories					
Order number	Pump	Description			
161-140-050+924	PDY/Y/C	solenoid valve			
161-140-056+924	PDYS	solenoid valve			
24-1884-2324	PDY/Y/C	pressure sensor			
24-1884-2397	PDYS	pressure sensor			
24-2578-2041	PDYC	accumulator: 0,32 l; 0.085 gal			
24-2578-2044	PDYY	accumulator: 0,75 l; 0.2 gal			

<u>LINCOLN</u>

PC



Product description

Designed for total-loss lubrication systems with significant oil volume requirements, the PC pump unit features from 1 to 28 outlets. Delivery volume can be sub-divided using a progressive-type metering device, enabling the pump to cover up to 224 lubrication points. This all-in-one pump unit consists of a frequency-controlled E-motor with gear reduction, pump modules with pumping elements for six pre-defined settings, optical/electrical flow controls, additional sensors for low level and optional drive speed, safety valves and connections for heating oil. Its integrated shut-off valves, one per module, allow the use of different lubricating oil and/or pumping element replacement during operation. The terminal box with pre-wired sensors contains a pushbutton for pre-lubrication.

Features and benefits

- Accurate, robust lubrication pump assembly
- · Load-dependent, variable-speed operation as standard
- E-motor with electrically operated air fan enables wide speed range
- Ease of operation, maintenance and assembly
- · Assembly brackets for hanging or standing position
- 24/7 operation in arctic and tropical conditions

Applications

Marine industry



Technical data

Function principle

Metering quantity per outlet Outlets Lubricant

Lubricant supply

Operating pressure Operating temperature Internal ratio Output per Outlet Electrical connection Sensor Hydraulic drive option

Protection class

Connection

Dimensions

Mounting position Options

modular electrically or hydraulically operated piston pump unit in marine standard, with non-flow sensors and oil-heating connections

1,74-227 cm³/min, 0.1-14 in³/min

1 to 28 mineral oil up to SAE 5012 to 2 000 mm²/s

by overhead reservoir, max. inlet pressure 2 bar, 30 psi max. 50 bar, 725 psi +5 to 45 °C, +41 to 113 °F 4.83; 14.5; 19; 29; 38; 51; 62:1

0,27–1,1 cm³,0.016–0.067 in³ 24 V DC

100 cm³/revolution, 60-360 min⁻¹ for i = 4.81:1 and 7.25:1 only

inlet: G 11/4

outlet: G 1/4 for tube $\varnothing 10$ mm OD min. $610 \times 513 \times 320$ mm max. 610 × 1580 × 320 mm min. 24 × 20.2 × 25.6 in max. 24 × 62.2 × 25.6 in

horizontal

version with mainshaft revolution: sensor; sensors NPN instead of NAMUR



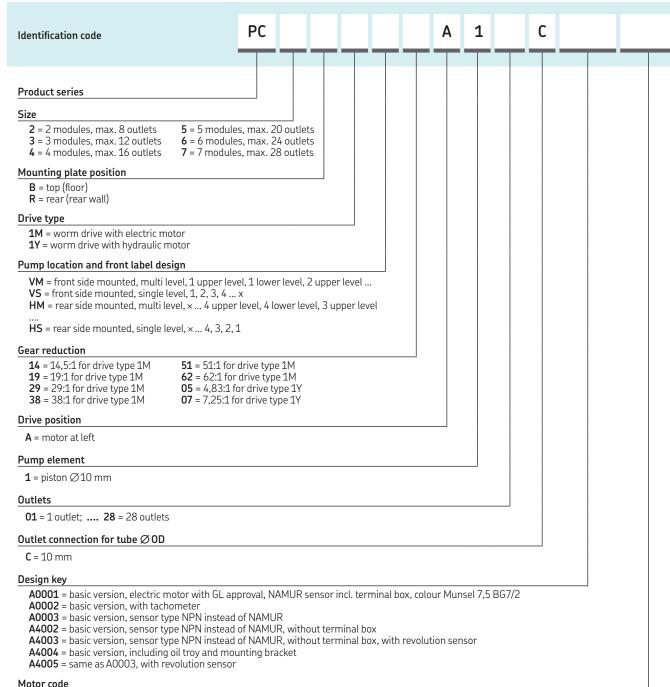
NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publication available on SKF.com/lubrication:

951-170-208



PC



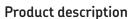
AS07 = 3-phase standard motor 255/460 V 60 Hz, n = 1 740 min⁻¹, IP 55F **HM00** = hydraulic motor Danfoss OMR100

PC accessories	
Order number	Description
24-0404-2493 24-1557-3560 24-1751-2760 24-0651-3519	gasket set with seals spare pumping element filter assembly, 100 mµ filter element only

<u>LINCOLN</u>

RA...M/RAB





The RA radial piston pump features a modular design that enables use of up to five stackable pump elements, and outlet reduction or expansion can be accomplished easily. Displacement of all outlets from a pump element is adjustable by a common setting device and features a setting range of 33-100%. The RAB series pump have a pre-assembled oil reservoir.

Features and benefits

- Pump-to-point solution for 1 to 20 lubrication points
- Covers feed rates of certain droplets 36 cm³/min
- Compatible with mineral and synthetic oils
- Vibration-proof, marine and ATEX versions available

Applications

- Gas compressors and large pumps
- General industry, total loss, sealing and small oil-circulation applications
- Marine



NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publications available on SKF.com/lubrication:

11103 EN, 951-170-230 EN



CAD data

skf-lubrication.partcommunity.com/3d-cad-models/



Technical data

Function principle

Outlets

Metering quantity per outlet

Output per outlet

Internal ratio Lubricant

Reservoir

Operating pressure

Operating temperature

Protection class Drive speed Connection in/outlet E-motor drive Drive direction **Dimensions**

Mounting position

Options

radial piston pump with stackable pumping elements, mechanically or electrically operated

1 to 20

(max. 5 elements with 1, 2 or 4 outlets) 0,007–0,02 cm³/revolution

0.0004-0.001 in³/revolution 0,07-36 cm³/min 0.004-2.2 in³/min

1:1, 5:1, 10, 5:1, 15:1, 25:1, 75:1, 125:1 mineral- and synthetic-based oil,

25 to 2500 mm²/s 3, 7, 15 I and more, 0.8, 1.8, 4 gal and more 10 to 63 bar, 145 to 913 psi depending on drive speed and oil viscosity

-15 to 80 °C, +5 to 176 °F electrically operated: -15 to 40 °C; +5 to +104 °F

min. IP 55 10 to 1 800 min-1

G 1/8 with 3-phase motor left/right

without reservoir: min. 113 × 54 × 54 mm max. $220 \times 54 \times 54$ mm min. 4.45 × 2.13 × 2.13 in max. 8.68 × 2.13 × 2.13 in with reservoir:

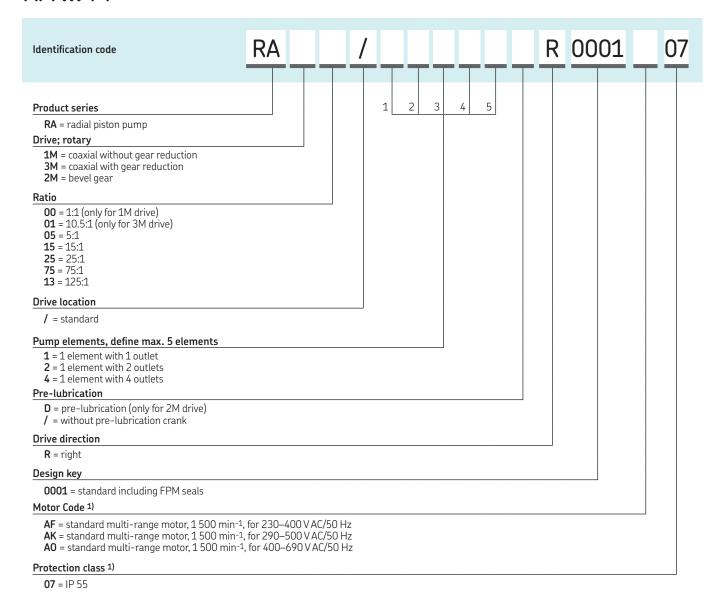
min. 400 × 333 × 140mm max. $650 \times 441 \times 288$ mm min. 15.7×13.1×5.5 in max. 25.6 × 17.4 × 11.3 in any, RAB versions vertical

with manual hand crank for prelubrication, customized pre-set volume, reservoir options with

further accessories



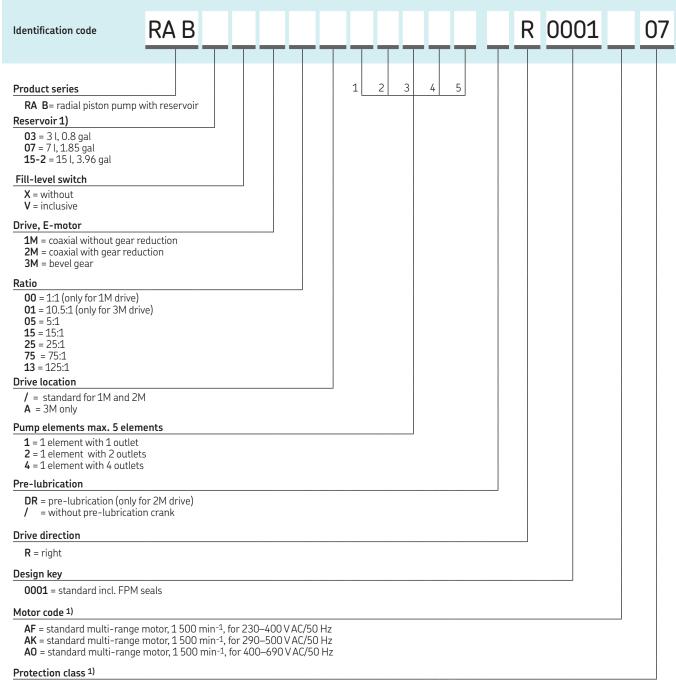
RA... M



1) further models on request



RAB



07 = IP 55

1) further models on request



RA ... accessories

RA U drive assembly	
Description	Order number
coaxial 1:1	24-0701-3000
coaxial 5:1	24-0701-3070
coaxial 5:1 with pre-lubrication	24-0701-3080
bevel gear, 10,5:1, position A	24-0701-3001
bevel gear, 10,5:1, position B	24-0701-3002
coaxial 15:1	24-0701-3071
coaxial 15:1 with pre-lubrication	24-0701-3081
coaxial 25:1	24-0701-3072
coaxial 25:1 with pre-lubrication	24-0701-3082
coaxial 75:1	24-0701-3073
coaxial 75:1 with pre-lubrication	24-0701-3083
coaxial 125:1	24-0701-3074
coaxial 125:1 with pre-lubrication	24-0701-3084
spacerring, only oil, forratio 1:1 spacerring, only grease	24-1721-2000 24-1721-2001

RA tie rod ¹⁾ for ratio 1:1; 10,5:1; 15:1; 25:1; 75:1					
Description	Order number				
for 1 pump element	44-0717-2060				
for 2 pump elements	44-0717-2061				
for 3 pump elements	44-0717-2062				
for 4 pump elements	44-0717-2063				
for 5 pump elements	44-0717-2064				
washer, 6.4 DIN125 1)	DIN125-B6.4-ST				
nut 1)	DIN934-M6-8				

RA pump elements for oil and grease				
Description	Order number			
for 1 outlet	24-1557-3520			
for 2 outlets	24-1557-3521			
for 4 outlets	24-1557-3522			

Description	Order number
coaxial 1:1	24-0701-3004
coaxial 5:1 coaxial 5:1 with pre-lubrication	24-0701-3035 24-0701-3036
bevel gear, 10,5:1, position A bevel gear, 10,5:1, position B	24-0701-3003 24-0701-3004
coaxial 15:1 coaxial 15:1 with pre-lubrication coaxial 25:1	24-0701-3037 24-0701-3038 24-0701-3039
coaxial 25:1 with pre-lubrication coaxial 75:1	24-0701-3040 24-0701-3041
coaxial 75:1 with pre-lubrication coaxial 125:1	24-0701-3042 24-0701-3043
coaxial 125:1 with pre-lubrication spacer ring, only oil, for ratio 1:1	24-0701-3044 24-1721-2000

Order number
44-0717-2069 44-0717-2070 44-0717-2071 44-0717-2072 44-0717-2073
DIN125-B6.4-ST DIN934-M6-8

RA accessories	
Description	Order number
cover	24-0413-3490
cap nut	95-0006-0917
hand crank	24-0801-2070

¹⁾ two required per pump

SP/PFE





Product description

The SP/PFE multi-line pump is designed for very high system pressures. Its drive parts are located in the pump housing and are pre-filled with high-viscosity gear oil. The special, guided-roller tappet drives the pump element arrangement in a 100% axial direction and eliminates side forces. Each exchangeable pumping element contains a precise, volume-regulating device with scaling, a high-pressure, non-return valve and a high-pressure outlet adapter for up to 4000 bar (58000 psi).

Due to the pump's unique design, lubrication oil can be connected from an overhead reservoir directly to the pump elements without the use of additional oil-level controllers.

Features and benefits

- Designed for continuous 24/7 operation
- Modular pump design enables use of up to five pumping elements
- Pressure-tight design; suitable for overhead reservoir connection
- Rack arrangement with additional pumps, filter and flow control equipment available

Applications

· Petro-chemical industry

Technical data

Function principle

Metering quantity per outlet

Outlet Lubricant

Operating pressure Operating temperature Internal ratio Material

Drive speed main shaft 1)

E-motor drive 1)

Connection outlet Connection inlet/leak oil outlet

Dimensions

Mounting position Options

Rotary-operated, cam-operated piston pump; with pressure-tight design for overhead reservoirs

0-0.14 cm³/stroke 0-0.0085 in³/stroke 1 to 5

mineral- or synthetic-based oil, < 230 mm²/s max. 4 000 bar; 58 000 psi

+15 to +40 °C, +59 to 104 °F 3-phase motor and flanged gearbox available 10 to 500 min-1

10 to 500 min-1 gland and sleeve for pipe $\frac{3}{8} \times \frac{1}{8}$

M 14×1,5 $287 \times 350 \times 130 \text{ cm}$ $512 \times 350 \times 130 \text{ cm}$ 11.3×13.8×5.1 in 20.15 × 13.8 × 5.1 in

vertical, pump body upright Available as ATEX package with E-motor drive arrangement, rack mounting,

flow monitoring devices

1) please specify your requirements



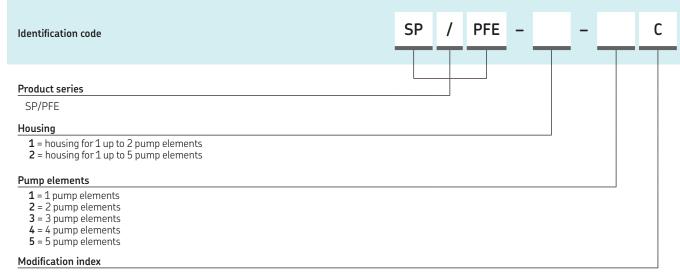
NOTE

For further technical information, technical drawings, accessories, spare parts or product function descriptions, see the following publications available on SKF.com/lubrication:

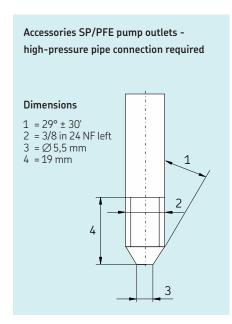
14600EN



SP/PFE



C = actual version for p_{max} 4 000 bar, (58 000 psi), rotary-operated, double-sided drive shaft, ratio 1:1



SP/PFE accessories						
Order number	Description	Operating	Operating pressure max.			
		bar	psi			
744-000-0107	high-pressure pump head complete	4000	58 000			
24-2317-2017	high-pressure piston and body only	4000	58000			

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