

# Lubricant distributors

Product series AB, 341, 340, 351, 350, 391, 390, VR, 321, VN, 370, 361

For oil, fluid grease, and grease

For use in SKF MonoFlex single-line centralized lubrication systems



SKF MonoFlex single-line distributors are utilized in intermittently operated single-line centralized lubrication systems.

They distribute and meter the lubricant fed by an intermittently operated centralized lubrication pump unit in SKF MonoFlex single-line centralized lubrication systems. In each lubrication cycle, a precisely metered quantity of lubricant, ranging from a minimum of 0,01 to a maximum of 1,5 cm<sup>3</sup>, is fed to the connected lubrication points.

The product group of SKF MonoFlex single-line distributors includes a total of 11 different product series consisting of three different functional types (prelubrication, relubrication, and dynamic distributors) for various applications. Comprehensive accessories complete the product range.

Depending on the design, SKF MonoFlex single-line distributors are approved for oils with viscosities from 20 to 2 000 mm<sup>2</sup>/s, for fluid greases of NLGI Grade 000, 00, and 0, and greases up to NLGI Grade 2. The permissible operating pressures range from 8 to 315 bar, and the relief pressures range from 1 to 70 bar.

In addition to the standard designs, several designs are also available in stainless steel. Further, several designs are also certified by Germanischer Lloyd with regard to corrosion resistance.

Due to the variety of available products, SKF MonoFlex single-line distributors can be used in numerous applications, including machine tools and the wind, print, textile, and vehicle and construction industries.



**Important information on product usage**

SKF and Lincoln 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 (1 013 mbar) by more than 0,5 bar at their maximum permissible temperature.

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# Product overview

## SKF MonoFlex prelubrication distributors



## SKF MonoFlex relubrication distributors



## SKF MonoFlex prelubrication distributors for direct connection to the lubrication point



## SKF MonoFlex dynamic distributors



# Selection table

## SKF MonoFlex single-line distributors

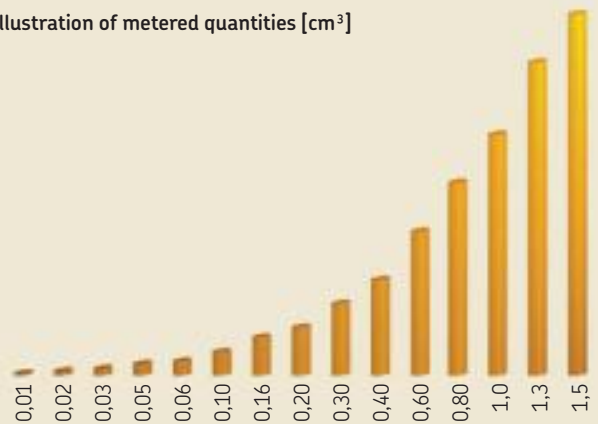
Product series	Lubricant	Distributor type	Elastomer material	Number of metering points	Relief pressure ≤ [bar]	Metered quantity [cm³]												Page
						0,01	0,02	0,03	0,05	0,06	0,10	0,16	0,20	0,30	0,40	0,60	0,80	
AB	Oil Fluid grease <sup>2)</sup>	Prelubrication distributor	FKM (FPM)	1	3	•	•	•	•	•	•	•	•	•	•	•	•	22
		Prelubrication distributor	FKM (FPM)	1	3	•	•	•	•	•	•	•	•	•	•	•	•	22
341	Oil Fluid grease <sup>2)</sup>	Prelubrication distributor	NBR/FKM (FPM)	1	1 (3) <sup>1)</sup>	•	•	•	•	•	•	•	•	•	•	•	•	26
		Prelubrication distributor	NBR/FKM (FPM)	1	3	•	•	•	•	•	•	•	•	•	•	•	•	26
340	Oil Fluid grease <sup>2)</sup>	Prelubrication distributor	NBR/FKM (FPM)	2, 3, 5	1 (3) <sup>1)</sup>	•	•	•	•	•	•	•	•	•	•	•	•	30
		Prelubrication distributor	NBR	2, 3, 5	3	•	•	•	•	•	•	•	•	•	•	•	•	30
351	Oil Fluid grease <sup>2)</sup>	Prelubrication distributor	NBR/FKM (FPM)	1	1	•	•	•	•	•	•	•	•	•	•	•	•	34
		Prelubrication distributor	NBR/FKM (FPM)	1	3	•	•	•	•	•	•	•	•	•	•	•	•	34
350	Oil Fluid grease <sup>2)</sup>	Prelubrication distributor	NBR/FKM (FPM)	2, 3, 5	1	•	•	•	•	•	•	•	•	•	•	•	•	38
		Prelubrication distributor	NBR/FKM (FPM)	2, 3, 5	3	•	•	•	•	•	•	•	•	•	•	•	•	38
391	Oil Fluid grease	Prelubrication distributor	NBR/FKM (FPM)	1	1	•	•	•	•	•	•	•	•	•	•	•	•	42
		Prelubrication distributor	NBR	1	7	•	•	•	•	•	•	•	•	•	•	•	•	42
390	Oil Fluid grease	Prelubrication distributor	NBR/FKM (FPM)	2, 3	1	•	•	•	•	•	•	•	•	•	•	•	•	46
		Prelubrication distributor	NBR	2, 3	7	•	•	•	•	•	•	•	•	•	•	•	•	46
VR	Fluid grease Grease	Prelubrication distributor	FKM (FPM)	1–12	30/70	•	•	•	•	•	•	•	•	•	•	•	•	50
		Prelubrication distributor	FKM (FPM)	1–12	30/70	•	•	•	•	•	•	•	•	•	•	•	•	50
321 G	Oil/fluid grease <sup>2)</sup>	Prelubrication distributor	NBR	1	3	•	•	•	•	•	•	•	•	•	•	•	•	54
321 T	Oil/fluid grease <sup>2)</sup>	Prelubrication distributor	NBR	1	3	•	•	•	•	•	•	•	•	•	•	•	•	54
321 W	Oil/fluid grease <sup>2)</sup>	Prelubrication distributor	NBR	1	3	•	•	•	•	•	•	•	•	•	•	•	•	54
321 Module	Oil/fluid grease <sup>2)</sup>	Prelubrication distributor	NBR	1	3	•	•	•	•	•	•	•	•	•	•	•	•	54
321 G4	Oil/fluid grease <sup>2)</sup>	Prelubrication distributor	NBR	1	3	•	•	•	•	•	•	•	•	•	•	•	•	54
321 G7	Oil/fluid grease <sup>2)</sup>	Prelubrication distributor	NBR/FKM (FPM)	1	3	•	•	•	•	•	•	•	•	•	•	•	•	54
VN	Fluid grease <sup>2)</sup>	Relubrication distributor	NBR	2, 4, 6	1	•	•	•	•	•	•	•	•	•	•	•	•	58
370	Oil	Relubrication distributor	NBR	2, 3, 5	1	•	•	•	•	•	•	•	•	•	•	•	•	62
361	Oil Fluid grease <sup>2)</sup>	Dynamic distributor	NBR	1	1	•	•	•	•	•	•	•	•	•	•	•	•	66
		Dynamic distributor	NBR	1	3	•	•	•	•	•	•	•	•	•	•	•	•	66

<sup>1)</sup> Relief pressure of 3 bars is only valid for the metered quantity 0,01 cm³ and 0,02 cm³

<sup>2)</sup> Only fluid grease of NLGI Grades 000, 00

The table above will help you quickly find more information on the SKF MonoFlex single-line distributor that is required. You can quickly find the product series for your specific application according to feature. The product series are divided into three different functional types (prelubrication, relubrication, and dynamic distributors). The various product series are listed on the left margin. The metered quantities can be selected based on the required properties such as lubricant, distributor type, elastomer material, and number of metering points. The page numbers shown on the right margin refer to additional technical details for the product series in question. The individual metered quantities are visualized in relation to one another in the illustration to the right.

Illustration of metered quantities [cm³]



# SKF MonoFlex single-line distributors

## Description of functional types

### Introduction

SKF MonoFlex single-line distributors are utilized in intermittently operated SKF MonoFlex centralized lubrication systems. Single-line centralized lubrication systems are total-loss lubrication systems.

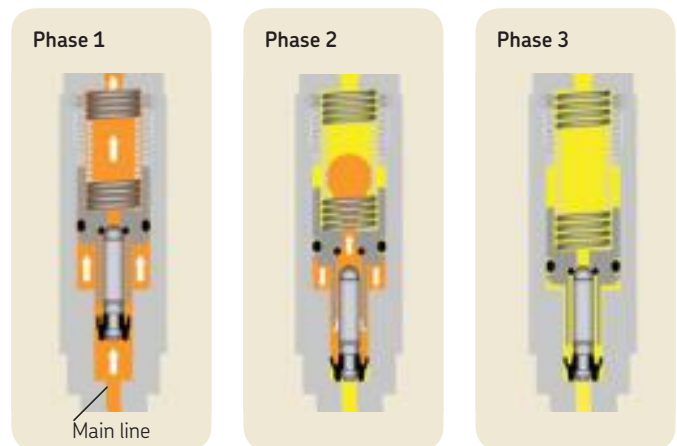
These systems feed clean lubricant (oil, fluid grease, or grease) to one or more lubrication points at specific intervals during the lubrication cycle (timer-controlled or cycle-controlled). The lubricant fed to the lubrication point is partially consumed during operation due to aging, evaporation, and leaks. SKF MonoFlex single-line centralized lubrication systems generally consist of a lubrication unit, the single-line distributors, and the lubrication lines. The sequence of a lubrication cycle depends on the functional type of single-line distributors in use.

In single-line distributors, a differentiation is made between prelubrication, relubrication, and dynamic distributors. Single-line distributors of the prelubrication and dynamic distributor functional type deliver the metered quantity of lubricant at the same time that pressure is built up in the main line. Single-line distributors of the relubrication distributor functional type supply the metered quantity of lubricant after the pressure has been relieved in the procedure in the main line. The individual functional types are described below.

### Prelubrication distributor

On SKF MonoFlex single-line distributors designed as prelubrication distributors, the quantity of lubricant is fed to the lubrication point while pressure is being built up in the main line, i.e., during the lubrication unit's run time. On prelubrication distributors, the expelling pressure can be set so it is approximately equal to the maximum permissible pressure of the pressure regulating valve on the lubrication unit.

After the lubrication unit is switched on, the lubricant is drawn out of the lubricant reservoir by the lubricant pump and fed through the main line to the prelubrication distributor via the pressure relief valve and the pressure regulating valve. The pressure built up in the centralized lubrication system causes the metering piston to move toward the outlet (2), expelling the lubricant (1) that is upstream of the metering piston from the metering chamber and to the lubrication point through the lubrication point line. After the lubrication unit is turned off, pressure in the centralized lubrication system is relieved, which relieves pressure in the main line. In this process, spring tension causes the metering piston to return to its normal position. At the same time, the lubricant is moved from the metering chamber into the spring chamber (3). The prelubrication distributor is ready for the next lubrication cycle.



### Area of application

Prelubrication distributors are used in applications where the lubricant needs to be delivered to the lubrication point immediately. Especially in the case of long lubrication point lines and high bearing back pressures, increasing the pressure in the main line can provide reliable lubrication of the bearing, as the expelling pressure approximately equals the pressure in the main line. Fields where prelubrication distributors are widely used is with machine tool, textile, and packaging machine lubrication.

# SKF MonoFlex single-line distributors

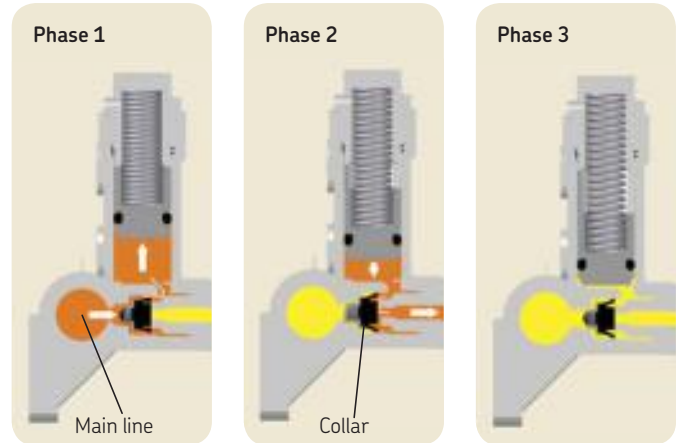
## Description of functional types

### Relubrication distributor

On SKF MonoFlex single-line distributors designed as relubrication distributors, the quantity of lubricant is fed to the lubrication point only during or after pressure relief in the main line, i.e., after the lubrication unit is switched off.

The pressures with which lubricant can be expelled to the lubrication point are determined by the spring tension in the piston area, and they are lower than the maximum expelling pressure of the prelubrication distributors. The relubrication distributor thus has the function of a spring accumulator.

After the lubrication unit is switched on, the lubricant is drawn out of the lubricant reservoir by the lubricant pump and fed through the main line to the relubrication distributor via the pressure relief valve and the pressure regulating valve. The pressure built up in the centralized lubrication system causes the collar (shuttle valve) to close the outlet to the lubrication point, which feeds the lubricant into the storage chamber. The lubricant below the spring-loaded metering piston is stored (1). After the lubrication unit is turned off, pressure in the centralized lubrication system is relieved, which relieves pressure in the main line. The lubricant under preload below the spring-loaded metering piston now pushes the collar back toward the main line (2). This closes the main line and opens the outlet to the lubrication point. The lubricant can now be metered from the storage chamber and delivered to the lubrication point (relubrication effect). After the lubricant has been completely expelled to the lubrication point, the relubrication distributor is ready for the next lubrication cycle (3).



### Area of application

Relubrication distributors are used in applications where an excessively high and sudden pressure at the lubrication point is undesirable, for example, when lubricating slideways on grinding machines. Such pressure at the lubrication point can lead to undesirable rough grinding results. The expelling time of the relubrication distributor depends on the back pressures in the lubrication point lines. If, for example, the lubrication points are under heavy load during the lubrication cycle, the lubricant will be stored in the relubrication distributor and only fed upon movement or when pressure on the lubrication point is relieved. For commercial vehicle lubrication, this mode of operation is a significant advantage over manual lubrication which cannot always be performed on pressure-loaded bearings.

# SKF MonoFlex single-line distributors

## Description of functional types

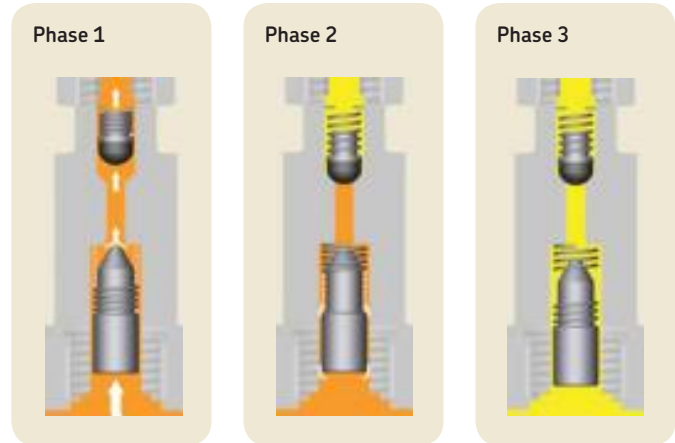
### Dynamic distributor

On SKF MonoFlex single-line distributors designed as dynamic distributors, the quantity of lubricant is fed to the lubrication point while pressure is being built up in the main line, i.e., during the lubrication unit's run time. On dynamic distributors, the expelling pressure can be set approximately equal to the maximum permissible pressure of the pressure regulating valve on the lubrication unit.

After the lubrication unit is switched on, the lubricant is drawn out of the lubricant reservoir by the lubricant pump and fed through the main line to the dynamic distributor via the pressure relief valve and the pressure regulating valve. The unit's principle of operation requires that pressure be built up in the main line within a period  $< 1$  s, i.e., pressure build-up in the main line must be sudden (dynamic). The pressure build-up dynamically in the centralized lubrication system causes the metering piston to move toward the check valve (2), expelling the lubricant (1) that is upstream of the metering piston. The check valve opens and the lubricant is expelled in the direction of the lubrication point until the lower valve seat closes. The lubricant continues to be fed toward the lubrication point until the check valve closes again. After the lubrication unit is turned off, pressure in the centralized lubrication system is relieved. In this process, the metering piston under spring preload returns to its normal position. At the same time, the lubricant is moved through the annular gap between the metering piston and piston chamber. The upper check valve prevents the lubricant from flowing back into the metering chamber from the lubrication point line. The dynamic distributor is ready for the next lubrication cycle (3).

The clearance between the piston and piston chamber must be sized to allow lubricant to flow through the annular gaps. This is also the reason for dynamic operation of dynamic distributors. If pressure were to build up slowly (statically) in the lubrication line, an unsteady state would occur in which the lubricant would flow to the lubrication point via the annular gap during the entire runtime of the lubrication unit. This would result in excessive lubrication of the lubrication point.

To increase the lubrication frequency, single-line centralized lubrication systems with dynamic distributors can be equipped with a 4/2 directional control valve. The single-line centralized lubrication system must be designed such that the main line is preloaded to approx. 6 bar when the lubrication unit is running. For the lubrication procedure, the 4/2 directional control valve is switched so that the dynamic distributors are suddenly pressurized. This layout allows a significant increase in the lubrication frequency, as required, for example for chain lubrication when using small chain links or at high chain speeds. This allows lubrication cycle frequencies of up to 5 cycles/second to be achieved using low-viscosity lubricants.



### Area of application

Dynamic distributors are used in applications where the lubricant needs to be delivered to the lubrication point almost immediately. An important application for dynamic distributors is the lubrication of chains in machinery and conveyor belts.



# SKF MonoFlex system structure

## Prelubrication, relubrication, and dynamic distributor system

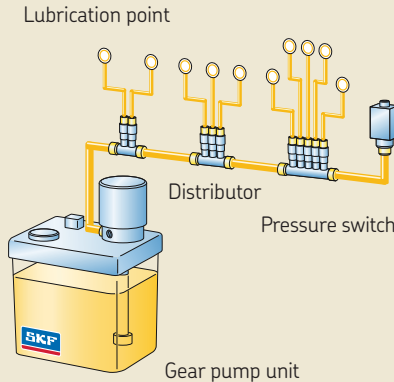
SKF MonoFlex single-line centralized lubrication systems with single-line distributors generally consist of a lubrication unit, the single-line distributors, and the lubrication lines. The pressure regulating valve and pressure relief valve required for the single-line centralized lubrication system's operation are normally integrated into the lubrication unit.

If pressure losses of greater than 10 bar are expected in the single-line centralized lubrication system, for example due to expansion of the system or due to the viscosity of the lubricant (depending on the ambient temperature), a pressure switch should be mounted to monitor the system at the end of the main line, if possible. The pressure switch monitors whether the required pressure build-up occurs in the single-line centralized lubrication system during the lubrication cycle.

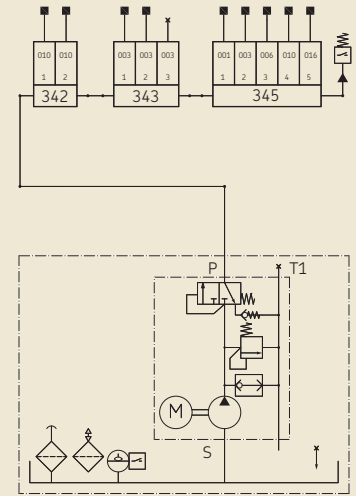
The lubrication unit run time specified by the control unit or machine control unit ensures pressure build-up in the single-line centralized lubrication system. Pressure in the main line must be relieved after the lubrication unit is switched off to ensure proper functioning of the single-line distributors. This is performed by the pressure relief valve integrated into the lubrication unit.

See the following illustration for examples of single-line centralized lubrication systems with prelubrication, relubrication, and dynamic distributors.

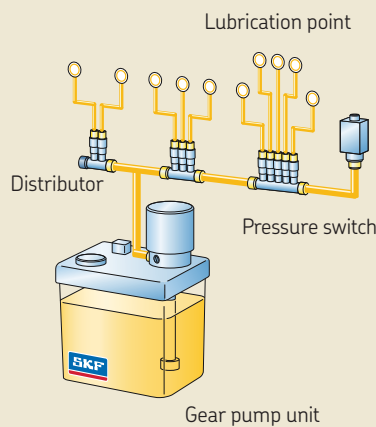
### Prelubrication distributor system



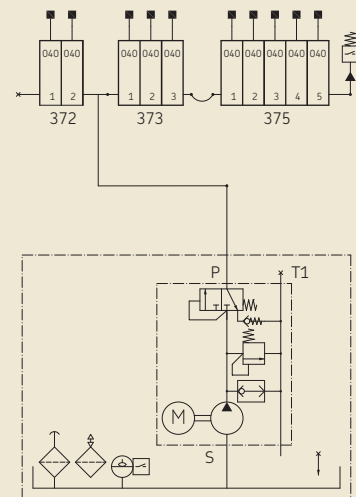
### Hydraulic layout



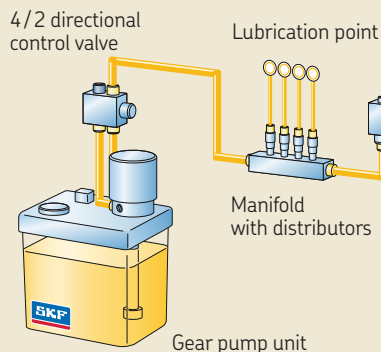
### Relubrication distributor system



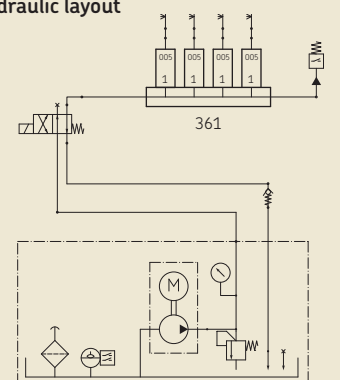
### Hydraulic layout



### Dynamic distributor system



### Hydraulic layout



# SKF MonoFlex system structure

## Important notes

### ⚠ WARNING

Leaking lubricant is hazardous due to the risk of slipping and injury. Before using the equipment, fix any system where lubricant is leaking during assembly, operation, maintenance, and repair.



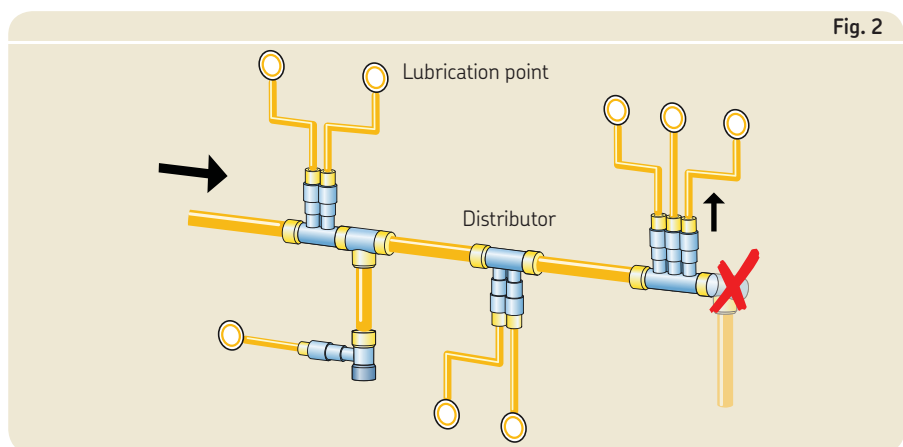
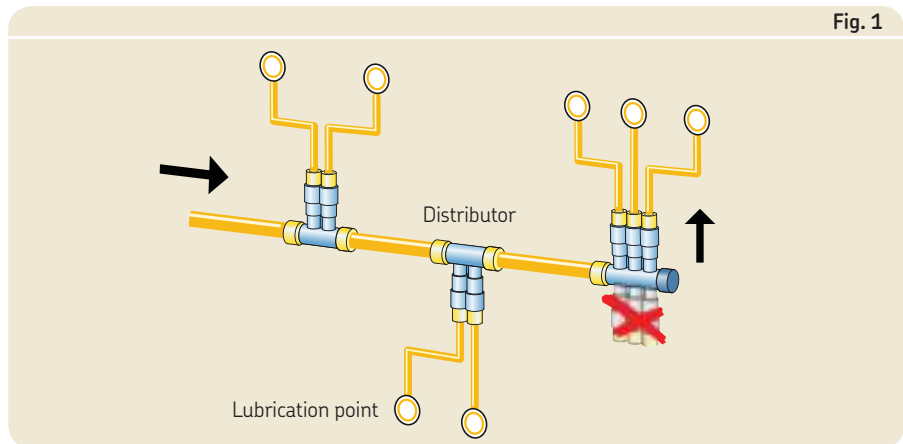
Lubricants can contaminate soil and bodies of water. Lubricants must be used and disposed of properly. Observe the local regulations and laws regarding the disposal of lubricants.

When arranging the main lines and lubrication point lines, observe the following instructions so that the entire lubrication system functions smoothly.

The main line must be dimensioned in accordance with the maximum pressure losses occurring in the lubrication unit used and the displacement of that lubrication unit. If possible, the main line should rise upward from the lubrication unit and be ventable at the highest point on the lubrication line system.

Lubricant distributors at the end of the main line should be installed such that the outlets of the lubricant distributors point upwards. If the system configuration requires that the lubricant distributors be arranged below the main line, they should not be placed at the end of the main line (**Fig. 1**). If lubrication lines must lead to lubricant distributors that are lower than the main line, proceed as shown in **Figure 2**.

The pipelines, hoses, shutoff valves and directional control valves, fittings, etc. that will be used must be designed for the maximum operating pressure of the lubrication unit, the permissible temperatures, and the lubricants that will be delivered.

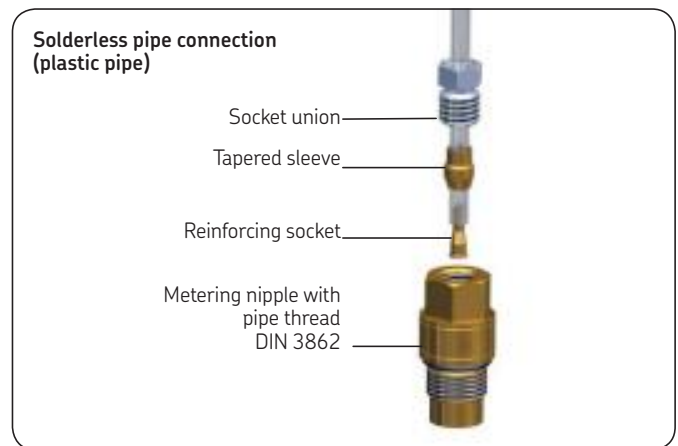
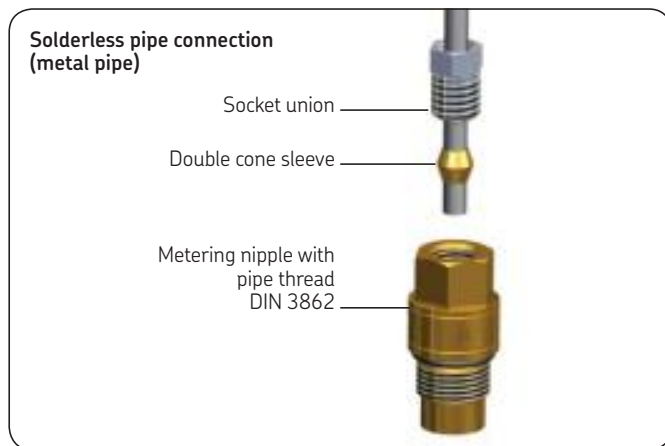
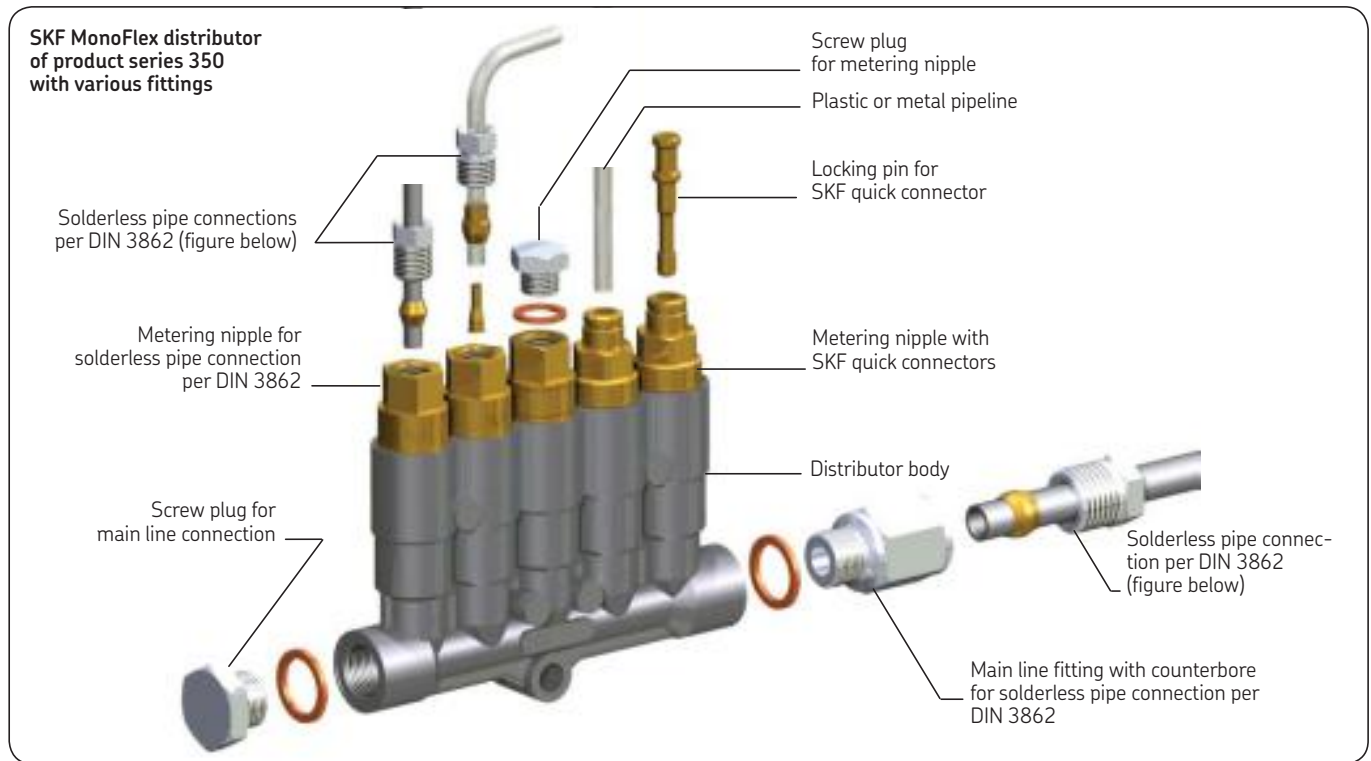


The lubrication line system also needs to be protected from excessive pressure by means of a pressure-limiting valve that is mounted separately or integrated into the lubrication unit. All components of the lubrication line system such as pipelines, hoses, shutoff valves and directional control valves, fittings, etc. must be carefully cleaned before assembly. No seals in the lubrication line system should protrude inward in a way that disrupts the flow of the lubricant and could allow contaminants to enter the lubrication line system. Lubrication lines should always be arranged so that air pockets cannot form anywhere. Avoid changes in the cross-section of the lubrication line from small to large cross-sections in the direction of flow of the lubricant. Vent plugs are recommended at appropriate places within the centralized lubrication system.

The flow of lubricant in the lubrication lines should not be impeded by the incorporation of sharp bends, angle valves, or flap valves. Unavoidable changes in the cross-section in lubrication lines must have smooth transitions. Sudden changes of direction should be avoided, if possible.

# SKF MonoFlex connector systems

## Overview



SKF Lubrication Systems offers a comprehensive product range of the most common fittings as well as pipelines made of metal or plastic pipe, or hose lines with metal pipe connectors for use in SKF MonoFlex single-line centralized lubrication systems.

For SKF MonoFlex single-line centralized lubrication systems with pressures up to 45 bar, SKF quick connectors or fittings for solderless pipe connections conforming to DIN 3862 can be used. For higher pressures, fittings with SKF quick connector systems (up to 300 bar) or cutting-sleeve screw unions (up to 250 bar) conforming to DIN 2353 are used.

Depending on the application, SKF MonoFlex single-line distributors can be equipped with different fittings on the connection for the main line and lubrication point lines. The overview in the figure above shows which fittings and pipelines SKF MonoFlex single-line distributors can be equipped with. Product series 350 is shown as an example. See the individual pages of the product series descriptions for details on the fittings available for the particular product series.

# SKF MonoFlex connector systems

## SKF quick connectors

The SKF quick connector system for plastic and metal pipelines allows reliable, fast, leak-free and inexpensive cable mounting in SKF MonoFlex single-line centralized lubrication systems. The system includes quick connectors for plastic and metal pipe diameters of 4, 6, and 8 mm in the common types of straight, elbow, or banjo fittings, as well as metering nipples for MonoFlex single-line distributors.

The SKF quick connector system is resistant to dirt and is suitable for industrial use as well as for year-round operation in all types of construction and road vehicles. For especially dirty ambient conditions, rubber protective caps are available for pipe diameters of 4 mm and 6 mm for SKF quick connectors.

The SKF quick connector system utilizes a 3 O-ring system, which makes it specially adapted to the high requirements and system pressures in SKF MonoFlex single-line centralized lubrication systems.

Inside, a collet with a locking claw acts on a claw groove in the metal pipe or directly onto the mounted plastic pipe. This keeps the mounted pipelines securely supported in the SKF quick connector even at pressures of 300 bar.

SKF quick connectors are suitable for constructing the entire lubrication system, from the lubrication unit to the single-line distributors, pressure switches, etc. to the lubrication points.

### Rubber protective caps for SKF quick connectors

Line diameter [mm]	Order number
4	<b>898-110-077</b>
6	<b>898-110-082</b>

### SKF quick connectors - Technical data

Lubricant	Oil, fluid grease, grease
Operating pressure	max. 300 bar
Temperature range	-40 to +80 °C
Seal material	NBR or FKM (FPM)

## SKF pipe cutters

A pipe cutter can be used to cut the metal pipe to length in one step and to produce the exact geometric shape of the claw groove.

The pipe cutters available from SKF are listed below by pipe diameter.

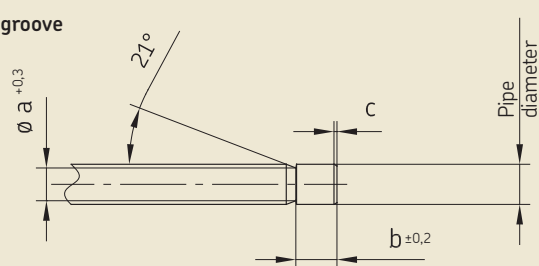
Pipe cutter



Cutting ring



Claw groove



### Ordering information for pipe cutter

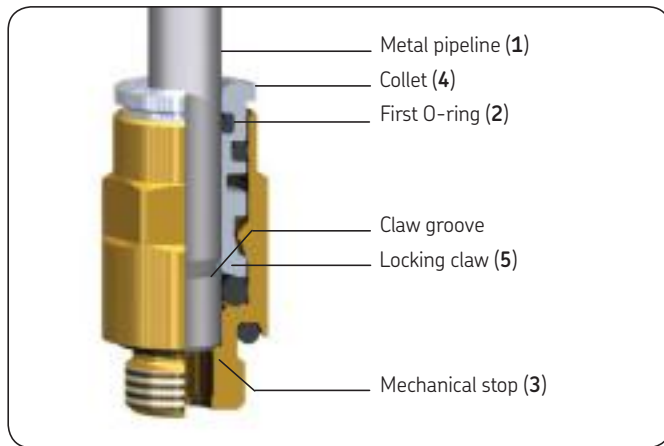
Pipe diameter [mm]	4	6	8
Order number Pipe cutter	<b>169-000-336</b>	<b>169-000-337</b>	<b>169-000-338</b>
Order number Cutting ring	<b>844-330-006</b>	<b>844-330-007</b>	<b>844-330-007</b>

### Claw groove dimensions

Pipe diameter [mm]	4	6	8
A	3,1	4,9	6,9
B	5,0	6,2	6,2
C	0,3 – 0,7	0,4 – 0,9	0,5 – 0,9

# SKF MonoFlex connector systems

## SKF quick connectors



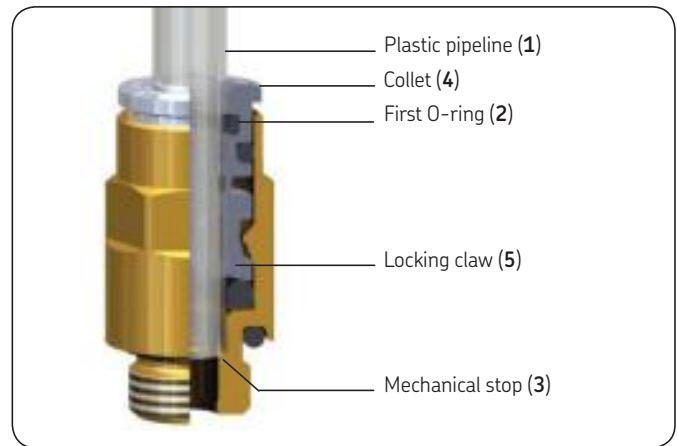
### Metal pipeline assembly

The metal pipe can be assembled with or without a claw groove. The claw groove securely fastens the metal pipe in the quick connector, which prevents the metal pipe from slipping out of the SKF quick connector. The claw groove does not need to be used if an appropriate fastening material (e.g., mounting clips) is used to prevent the metal pipe from slipping out of the SKF quick connector.

Cut the metal pipe (1) to length using a special pipe cutter. Manually insert the metal pipe (1) fully into the collet (4) of the SKF quick connector until it clears the first O-ring (2) and the locking claw (5) of the collet (4) and reaches the mechanical stop (3). Clearing the first O-ring (2) and the locking claw (5) of the collet (4) is indicated by significant resistance.

If a claw groove is not used, fix the metal pipe using an appropriate fastening material (e.g., mounting clips) to prevent the metal pipe from slipping out of the SKF quick connector.

To disassemble the metal pipe (1), press the collet (4) inward into the SKF quick connector. The metal pipe (1) can now be pulled out of the collet (4) of the SKF quick connector.



### Plastic pipeline assembly

The plastic pipe is mounted directly in the SKF quick connector. The locking claw of the collet secures the plastic pipe in the SKF quick connector, which prevents the pipe from accidentally slipping out. Cut the plastic pipe (1) straight to length using a suitable hose cutter. Manually insert the plastic pipe (1) fully into the collet (4) of the SKF quick connector until it clears the first O-ring (2) and the locking claw (5) of the collet (4) and reaches the mechanical stop (3). Clearing the first O-ring (2) and the locking claw (5) of the collet (4) is indicated by significant resistance.

To disassemble the plastic pipe (1), press the collet (4) inward into the SKF quick connector. To do this, press the plastic pipe (1) inward into the SKF quick connector, which releases the collet (4) from the plastic pipe (1). The plastic pipe (1) can now be pulled out of the collet (4) of the SKF quick connector.

Before reassembling, shorten the end of the plastic pipe by at least 7 mm so that the locking claw of the collet functions properly.

### WARNING

High pressure hazard!  
Depressurize system before disassembling  
SKF quick connectors and screw unions.

# SKF MonoFlex connector systems

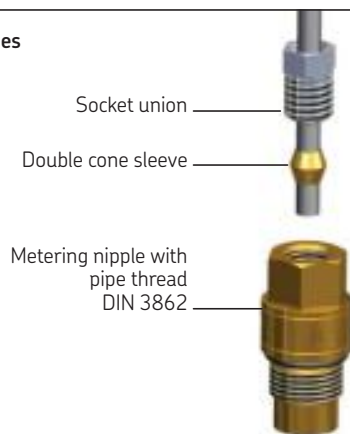
## Solderless pipe connections per DIN 3862

Solderless pipe connections from SKF that conform to DIN 3862 allow fast and easy assembly and disassembly of lubricant lines made of metal pipes and plastic. They are suitable for oil, fluid grease, and grease lubricants at pressures up to 45 bar and operating temperatures from -25 °C to +80 °C.

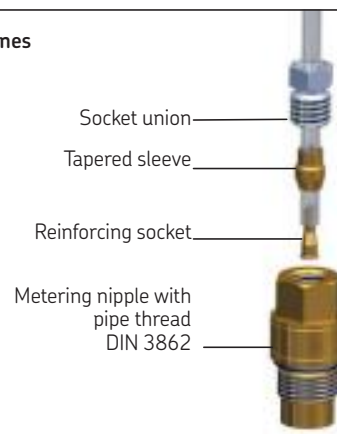
### Technical data

Lubricant	Oil, fluid grease, grease
Operating pressure	max. 45 bar
Temperature range	-25 to +80 °C

### Metal pipelines



### Plastic pipelines



### Initial assembly

Cut the metal pipe straight to length using a suitable tool, e.g., a pipe cutter. Push the socket union and the double cone sleeve onto the end of the metal pipe. Insert the end of the metal pipe into the depression until the stop and then tighten the socket union finger-tight. Then tighten the socket union by a max. of 1 1/2 revolutions.

### Repeat assembly

After each time the screw union is loosened, the socket union must be firmly retightened (with the same force) as in the initial assembly.

### Initial assembly

Cut the plastic pipe straight to length using a suitable tool, e.g., a hose cutter. Insert the reinforcing socket into the end of the plastic pipe to stabilize the end of the plastic pipe being assembled. This prevents the plastic pipe from being constricted during assembly. Push the socket union and the tapered sleeve onto the end of the plastic pipe. Insert the end of the plastic pipe into the depression until the stop and then tighten the socket union finger-tight. Then tighten the socket union by a max. of 1 1/2 revolutions.

### Repeat assembly

Each time after the screw union is loosened, the socket union must be firmly retightened (with the same force) as in the initial assembly.

### ⚠ WARNING

High pressure hazard!  
Depressurize system before disassembling  
SKF quick connectors and screw unions.

# SKF MonoFlex connector systems

## Pipe and hose lines



Depending on the application, SKF MonoFlex single-line centralized lubrication systems can be equipped with lubrication lines made of metal pipe, plastic pipe, and/or rubber hose lines. The choice of the internal diameter of the lubrication line (main, secondary, or lubrication point line) depends on the lubricant selected for feeding (oil, fluid grease, grease) and the pressure losses that

will be encountered. Larger expected pressure losses result from a smaller internal diameter of the lubrication line, a lower ambient temperature, and a higher oil/NLGI Grade of the fluid grease or grease. Further, the pressure losses are higher when the length of the lubrication line is increased.

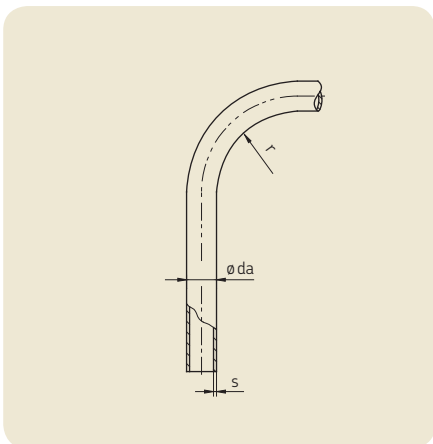
External pipe diameters of 6, 8, 10 mm and larger are typically used for main lines and secondary lines; external pipe diameters of 2,5 and 4 mm are used for lubrication point lines.

### Pipe and hose lines in comparison

Type	Operating temperature [°C]	Permissible operation pressure [bar]
Steel pipelines	-25 to +80	Up to 580
Plastic pipelines	-60 to +80	Up to 70
Low-pressure hose lines	-40 to +100	Up to 45
High-pressure hose lines	-40 to +100	Up to 225

# SKF MonoFlex connector systems

## Steel pipelines



### Steel pipelines

New Order number	Replaces Order number	Nominal size da × s [mm]		s [mm]	di [mm]	Bend radius r <sup>1)</sup> [mm]	Permissible oper. pressure [bar]	Burst pressure [bar]	
Steel pipe (Cr-6-free)									
982-120-040	WV-R04×0.7 VERZI	4×1	±0.08	0.9	2 ±0.15	12	500	1 360	
982-120-041 <sup>2)</sup>		4×0.7	±0.05	0.67	2.6 ±0.10	12	368	952	
982-120-060		6×1	±0.08	0.9	4 ±0.12	18	372	963	
982-120-061 <sup>2)</sup>	WV-R06×0.7 VERZI	6×0.7	±0.05	0.67	4.6 ±0.10	18	271	674	
982-120-080		WV-R08×0.7 VERZI	8×1	±0.08	0.9	6 ±0.10	24	288	723
982-120-100		WV-R10×0.7 VERZI	10×1	±0.08	0.9	8 ±0.08	30	248	612
982-120-120		12×1.5	±0.08	1.4	9 ±0.10	36	303	765	
982-120-150		15×1.5	±0.08	1.4	12 ±0.08	45	248	612	
982-120-180		18×1.5	±0.08	1.4	15 ±0.08	54	209	510	
Stainless steel pipe									
D1127R02.5×0.5+A46		2.5×0.5	±0.03	0.5	1.5 ±0.05	7.5	386	1 664	
DIN2462-R04×1+A46		4×1	±0.1	0.9	2 ±0.2	12	466	2 080	
DIN2462-R06×1+A46		6×1	±0.1	0.9	4 ±0.2	18	347	1 473	
DIN2462-R08×1+A46		8×1	±0.1	0.9	6 ±0.2	24	269	1 105	
DIN2462-R010×1+A46		10×1	±0.1	0.9	8 ±0.2	30	231	936	

<sup>1)</sup> Recommended bending radius for cold bending of tubing with bending device or by hand: r = 3 mm.

<sup>2)</sup> Similar to EN10305-4, galvanized, coating thickness 12–15 µm, Cr6-free.

### Technical data

Material	Steel pipe: solid cold-drawn pipe for hydraulic and pneumatic delivery lines acc. to EN 10305-4, outside galvanized blue-white, thick-film passivated, coating thickness 9–12 µm, Cr6-free  Stainless steel pipe (1.4571) solid-drawn
Temperature range [°C]	–25 to +80

### Pipe bending device

ø steel pipeline [mm]	Order number
4, 6, 8, 10	248-803.20
12 (special grooved disk) <sup>1)</sup>	248-803.17
4 (Retro fitting set) <sup>2)</sup>	248-803.16

<sup>1)</sup> To bend pipes with 12 mm diameter, the special grooved disk 248-803.17 must be ordered in addition to pipe bending device 248-803.20

<sup>2)</sup> Retro fitting set with grooved disk for older pipe bending devices 248-803.20

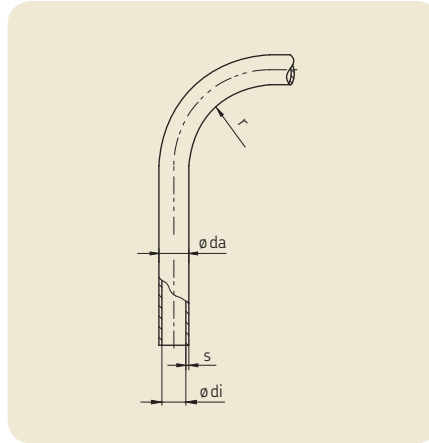
### Pipe bending device





# SKF MonoFlex connector systems

## Plastic pipelines



Suitable bending devices can be used to achieve extremely small radii when bending plastic pipelines. This requires that the pipe be heated to approx. 150 °C, with a maximum heating time of 20 seconds.

### Plastic pipelines WVN715, semirigid (unplasticized)

Order number <sup>2)</sup>	ø da [mm]	S [mm]	ø di [mm] <sup>+0,15 -0,05</sup>	Minimum bend radius r [mm] freely bent	with device	Permiss. oper. pressure <sup>1)</sup> at 23 °C [bar]	Burst pressure [bar]
WVN715-R02.5×0.5	2,5 ±0,1	0,5	1,5	25	9	66	198
WVN715-R04×0.85	4 ±0,1	0,85	2,3	38	14	72	216
WVN715-R06×1	6 ±0,1	1	4	63	21	53	159
WVN715-R06×1.25	6 ±0,1	1,25	3,5	63	21	70	210
WVN715-R08×1.25	8 ±0,1	1,25	5,5	76	28	49	147
WVN715-R010×1.5	10 ±0,15	1,5	7	89	35	47	141
WVN715-R012×1	12 ±0,15	1	10	110	45	24	72
WVN715-R012×1.5	12 ±0,15	1,5	9	110	45	38	141

<sup>1)</sup> The permissible operating pressure is lower at higher temperatures (→ the Pressure utilization factor table).

<sup>2)</sup> If resistance to light-aging is desired, add the word "BLACK" in the order number (example = WVN715-R08x1,25x50M BLACK).

### Plastic pipelines WVN716, flexible (plasticized)

Order number <sup>2)</sup>	ø da ±0,1 [mm]	s [mm]	ø di <sup>+0,15 -0,05</sup> [mm]	Minimum bend radius r [mm] freely bent	with device	Permiss. oper. pressure <sup>1)</sup> at 23°C [bar]	Burst pressure [bar]
WVN716-R04×0.85	4	0,85	2,3	38	14	36	108
WVN716-R06×1.25	6	1,25	3,5	63	21	35	105
WVN716-R08×1.25	8	1,25	5,5	80	30	25	75

<sup>1)</sup> The permissible operating pressure is lower at higher temperatures (→ the Pressure utilization factor table).

<sup>2)</sup> If resistance to light-aging is desired, add the word "BLACK" in the order number (example = WVN716-R08x1,25x50M BLACK).

### Pressure utilization factor

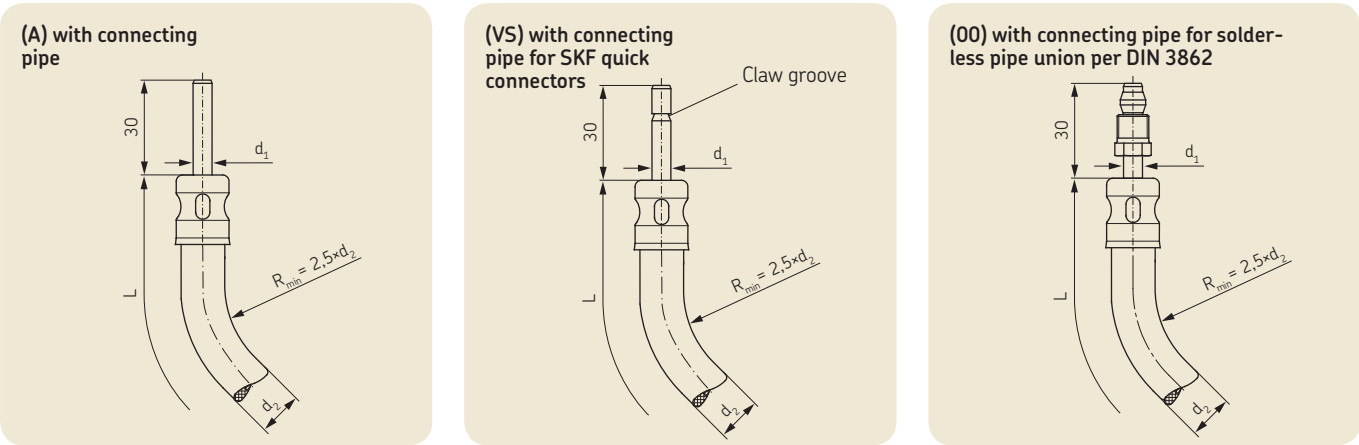
Max. temperature up to [°C]	Pressure utilization factor [%]
30	83
40	72
50	64
60	57
70	52
80	47

### Technical data

WVN715	<b>PA 12 H</b> Polyamide, semirigid, unplasticized as per DIN 73378, stabilized against heat and aging	<b>PA 12 HL (black)</b> Polyamide, semirigid, unplasticized as per DIN 73378, stabilized against light, heat, and aging
WVN716	<b>PA 12 PH</b> Polyamide, flexible, plasticized as per DIN 73378, stabilized against heat and aging	<b>PA 12 PHL (black)</b> Polyamide, flexible, plasticized as per DIN 73378, stabilized against light, heat, and aging
Temperature range	-60 to +80 °C	-60 to +80 °C

# SKF MonoFlex connector systems

## Low-pressure hose lines for main lines and secondary lines



### Ordering information

Permissible oper. pressure [bar]	Operating temperature [°C]		d <sub>1</sub> Ø connecting pipe [mm]	d <sub>2</sub> Ø hose outside [mm]	Ø hose internal [mm]	Length L* ±5 [mm]	Order number		
	min	max					Design A	Design VS	Design 00
45	-40	100	4	11	3,2	180	714-180	714-180-VS	714-180-K
						260	714-260	714-260-VS	714-260-K
						300	714-300	714-300-VS	714-300-K
						400	714-400	714-400-VS	714-400-K
						500	714-500	714-500-VS	714-500-K
						600	714-600	714-600-VS	714-600-K
			6	13	4,5	180	716-180	716-180-VS	716-180-K
						260	716-260	716-260-VS	716-260-K
						300	716-300	716-300-VS	716-300-K
						400	716-400	716-400-VS	716-400-K
						500	716-500	716-500-VS	716-500-K
						600	716-600	716-600-VS	716-600-K
			8	15	6,5	180	718-180	718-180-VS	718-180-K
						260	718-260	718-260-VS	718-260-K
						300	718-300	718-300-VS	718-300-K
						400	718-400	718-400-VS	718-400-K
						500	718-500	718-500-VS	718-500-K
						600	718-600	718-600-VS	718-600-K

\* Additional lengths on request



### Material

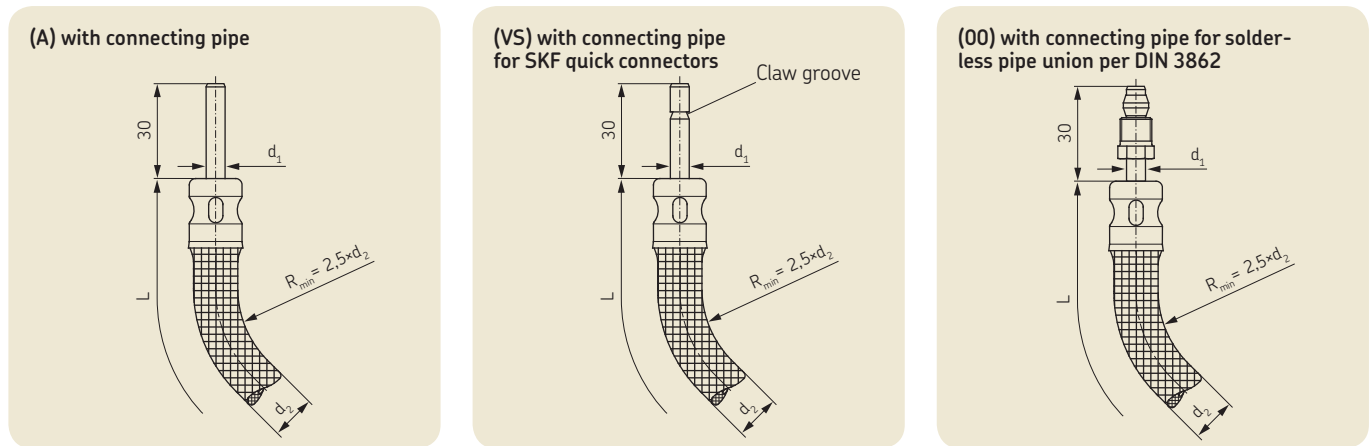
Hose	Chloroprene - mineral oil-resistant inner liner, two braided rayon inserts, outer liner partially oil-resistant, resistant to sun-cracking, and ozone-resistant
Connecting pipe ends	Steel pipe, galvanized, Cr6-free

### Volume increase

At pressure [bar]	Volume increase [cm³]/m]
80	2,5
	3,6
	4,4

# SKF MonoFlex connector systems

## Low-pressure hose lines with cover braid for main lines and secondary lines



### Ordering information

Permissible oper. pressure [bar]	Operating temperature [°C]		d <sub>1</sub> ø connecting pipe [mm]	d <sub>2</sub> ø hose outside [mm]	ø hose internal [mm]	Length L* ±5 [mm]	Order number		
	min	max					Design A	Design VS	Design 00
45	-40	100	4	12	3,2	180	714-180-M	714-180-M-VS	714-180-M-K
						260	714-260-M	714-260-M-VS	714-260-M-K
						300	714-300-M	714-300-M-VS	714-300-M-K
						400	714-400-M	714-400-M-VS	714-400-M-K
						500	714-500-M	714-500-M-VS	714-500-M-K
						600	714-600-M	714-600-M-VS	714-600-M-K
			6	14	4,5	180	716-180-M	716-180-M-VS	716-180-M-K
						260	716-260-M	716-260-M-VS	716-260-M-K
						300	716-300-M	716-300-M-VS	716-300-M-K
						400	716-400-M	716-400-M-VS	716-400-M-K
						500	716-500-M	716-500-M-VS	716-500-M-K
						600	716-600-M	716-600-M-VS	716-600-M-K
			8	16	6,5	180	718-180-M	718-180-M-VS	718-180-M-K
						260	718-260-M	718-260-M-VS	718-260-M-K
						300	718-300-M	718-300-M-VS	718-300-M-K
						400	718-400-M	718-400-M-VS	718-400-M-K
						500	718-500-M	718-500-M-VS	718-500-M-K
						600	718-600-M	718-600-M-VS	718-600-M-K

\* Additional lengths on request



### Material

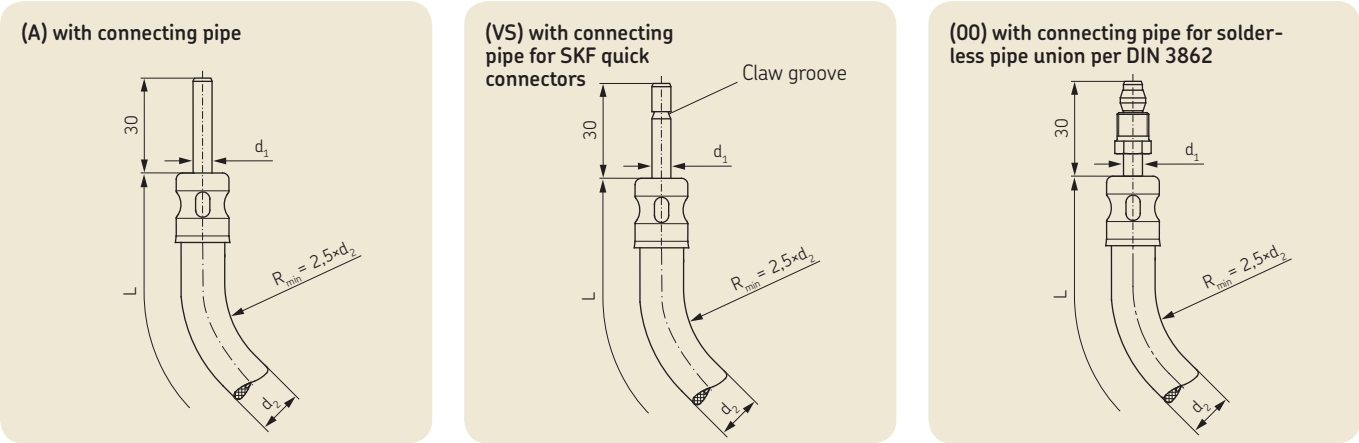
Hose	Chloroprene - mineral oil-resistant inner liner, two braided rayon inserts, outer liner partially oil-resistant, resistant to sun-cracking, and ozone-resistant
Metal braid	Steel wire, galvanized, Cr6-free
Connecting pipe ends	Steel pipe, galvanized, Cr6-free

### Volume increase

At pressure [bar]	Volume increase [cm <sup>3</sup> /m]
80	2,5 3,6 4,4

# SKF MonoFlex connector systems

## Low-pressure hose lines for lubrication point lines



### Ordering information

Permissible oper. pressure [bar]	Operating temperature [°C]		d <sub>1</sub> ø connecting pipe [mm]	d <sub>2</sub> ø hose outside [mm]	ø hose internal [mm]	Length L* ±5 [mm]	Order number		
	min	max					Design A	Design VS	Design 00
15	-40	70	4	8,8	3,2	180	734-180	734-180-VS	734-180-K
						260	734-260	734-260-VS	734-260-K
						300	734-300	734-300-VS	734-300-K
						400	734-400	734-400-VS	734-400-K
						500	734-500	734-500-VS	734-500-K
						600	734-600	734-600-VS	734-600-K

\* Additional lengths on request

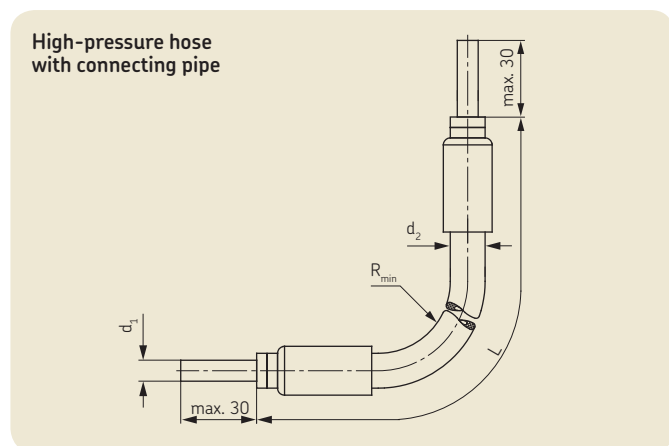


### Material

Hose	Chloroprene - mineral oil-resistant inner liner, a braided rayon insert, outer liner partially oil-resistant, resistant to sun-cracking, and ozone-resistant
Connecting pipe ends	Steel pipe, galvanized, Cr6-free

# SKF MonoFlex connector systems

## High-pressure hose lines



### Ordering information

Permissible oper. pressure [bar]	Operating temperature [°C]		d <sub>1</sub> ∅ connecting pipe [mm]	Minimum bend radius R <sub>min</sub> [mm]	d <sub>2</sub> ∅ hose outside [mm]	∅ hose internal [mm]	Length L* ±5 [mm]	Order number
175	-40	100	10	44	14,5	7,9	180	SLH10-180
							250	SLH10-250
							300	SLH10-300
							400	SLH10-400
							500	SLH10-500
							600	SLH10-600
							700	SLH10-700
							800	SLH10-800
210	-40	100	8	32	13	6,3	180	SLH8-180
							250	SLH8-250
							300	SLH8-300
							400	SLH8-400
							500	SLH8-500
							600	SLH8-600
							700	SLH8-700
							800	SLH8-800
225	-40	100	6	19	11	4,8	180	SLH6-180
							250	SLH6-250
							300	SLH6-300
							400	SLH6-400
							500	SLH6-500
							600	SLH6-600
							700	SLH6-700
							800	SLH6-800

\* Additional lengths on request



### Material

Inner hose	Polyester elastomers
Reinforcement	High-tensile synthetic fiber braid
Outer hose	Polyurethane
Connecting pipe ends	Steel pipe, galvanized, Cr6-free

# SKF MonoFlex prelubrication distributors of product series AB

## General

SKF MonoFlex single-line distributors of product series AB are single-port prelubrication distributors for MonoFlex single-line centralized lubrication systems for oil and fluid grease lubrication. These single-line distributors are designed for installation in manifolds. The combination of these single-line distributors with 1- to 6-port manifolds provides flexible options for designing the lubrication system on the machine/system requiring lubrication. Manifolds customized for product series AB are available in aluminum and stainless steel designs.

The available metered quantities are in the range from 0,01 to 0,60 cm<sup>3</sup>. The metering elements have a mark indicating the metered quantity. The lubrication point line is connected using solderless pipe unions (DIN 3862). Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected is 4 mm. The metering cannot be modified later.

The components made of elastomers inside the single-line distributors are made of FKM (FPM).

The distributor body is available in steel (galvanized, Cr6-free) and stainless steel designs. Depending on the design, a copper sealing ring or a stainless steel ring is used to seal the internal thread for mounting the single-port single-line distributor in a manifold.

See the following pages for further information on product series AB. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

AB distributor



Manifold VL



**!** The configurator on the following page does **not** allow specification of manifolds and distributors in a single order code. The manifolds are listed under Accessories and must be ordered separately.

## Technical data

### Product series AB

Lubricant	Metering [cm <sup>3</sup> ]	Operating pressure [bar]		Relief pressure [bar]	Operating temperature [°C]
		min.	max.		
Mineral and synthetic oil 20 to 1 000 mm <sup>2</sup> /s; compatible with FKM (FPM), brass, steel	0,01 – 0,60	18	50	Max. 3	0 – 80
Fluid grease of NLGI Grade 000, 00 compatible with FKM (FPM), brass, steel	0,01 – 0,60	18	50	Max. 3	0 – 80

### Tightening torque for assembly

distributor	Gasket	Tightening torques [Nm]
AB	Copper ring	10
AB	Stainless steel ring	10

# SKF MonoFlex prelubrication distributors of product series AB

## Configurator

Order code

2	4	-	2	8	0	0	-		0		
---	---	---	---	---	---	---	---	--	---	--	--

Product series AB


**Design and metered quantity**

Design code	5	9
Lubricant	Oil/Fluid grease	Oil/Fluid grease
Secondary line ø [mm]	4	4
Distributor body material	Galvanized steel	Stainless steel
Threaded seal material	Copper ring	Stainless steel ring
Metered quantity code [cm <sup>3</sup> ]	01 02 03 05 10 20 40 60	01 02 03 05 10 20 40 60

**Order example**

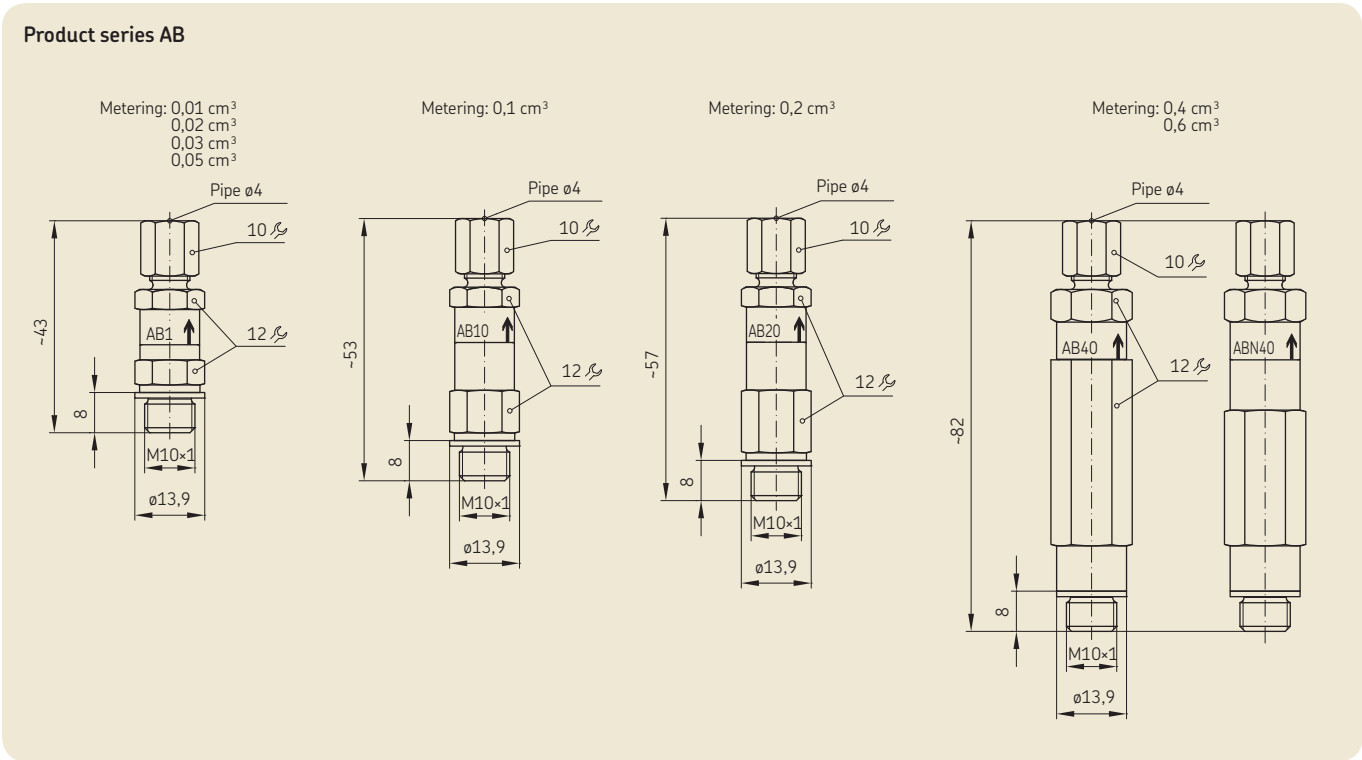
**24-2800-9010**

- Single-port single-line distributor for oil and fluid grease
- Stainless steel
- Metering 0,1 cm<sup>3</sup>
- Seal: Stainless steel ring



# SKF MonoFlex prelubrication distributors of product series AB

## Dimensions



Mark		
Metering [cm <sup>3</sup> ]	Design mark	
	Galvanized steel	Stainless steel
0,01	AB1	ABN1
0,02	AB2	ABN2
0,03	AB3	ABN3
0,05	AB5	ABN5
0,10	AB10	ABN10
0,20	AB20	ABN20
0,40	AB40	ABN40
0,60	AB60	ABN60



# SKF MonoFlex prelubrication distributors of product series AB

## Manifolds for product series AB

**Order code**

**V** **L** -

**Product series**

**Ports**

**01** = 1 screw-in point  
**02** = 2 screw-in points  
**03** = 3 screw-in points  
**04** = 4 screw-in points  
**05** = 5 screw-in points  
**06** = 6 screw-in points  
**(other ports available on request)**

**Design of distributor pipe thread**

**E** = Narrow profile, M10x1 with counterbore for flat washer  
**G** = Normal profile, M10x1 with counterbore for flat washer

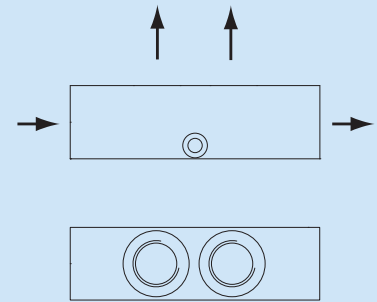
**Material**

**A** = Aluminum  
**E** = Stainless steel (1.4305) **(can only be selected for normal profile)**

**Design of main line connection**

**G1** = G1/8 per DIN 3852-2, Form X, narrow  
**G2** = G1/4 per DIN 3852-2, Form X, narrow  
**M3** = M10x1 with counterbore for solderless pipe union per DIN 3862  
**M4** = M14x1.5 with counterbore for solderless pipe union per DIN 3862  
**(can only be selected for normal profile)**

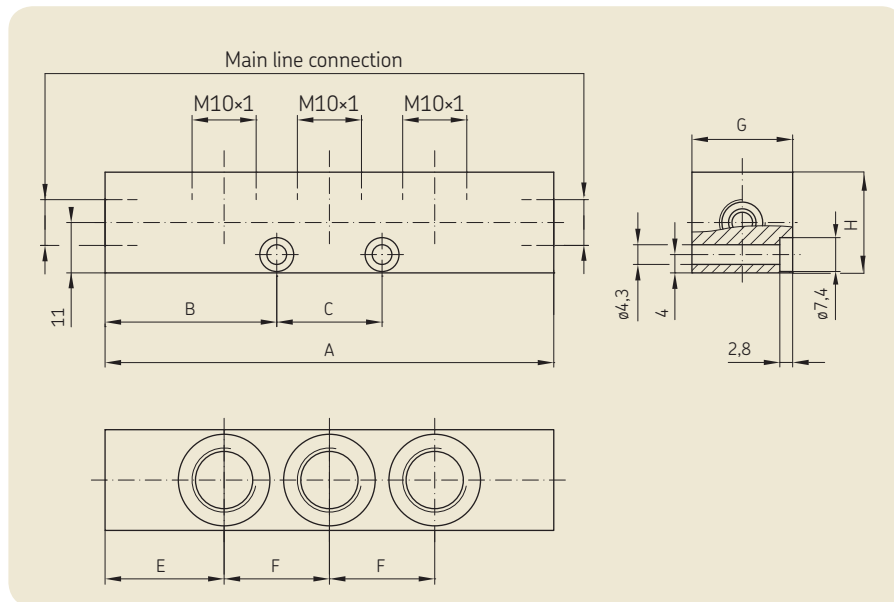
### Order example



#### VL-02GAM3

- Product series VL
- 2 ports
- Normal profile made of aluminum
- M10x1 internal thread with counterbore for flat washer
- M10x1 main line connection with counterbore for solderless pipe union per DIN 3862

## Dimensions



### Normal profile G

#### Main line connection M10x1

Ports	Dimensions [mm]						
	A	B	C	E	F	G	H
1	40	20	-	20	-	22	22
2	57	28,5	-	20	1x17	22	22
3	74	28,5	17	20	2x17	22	22
4	91	28,5	34	20	3x17	22	22
5	108	28,5	51	20	4x17	22	22
6	125	28,5	68	20	5x17	22	22

### Normal profile G

#### Main line connection M14x1.5

Ports	Dimensions [mm]						
	A	B	C	E	F	G	H
1	52	26	-	26	-	22	22
2	69	34,5	-	26	1x17	22	22
3	86	34,5	17	26	2x17	22	22
4	103	34,5	34	26	3x17	22	22
5	128	34,5	51	26	4x17	22	22
6	137	34,5	68	26	5x17	22	22

### Narrow profile E

#### Main line connection M10x1

Ports	Dimensions [mm]						
	A	B	C	E	F	G	H
1	41	20,5	-	20,5	-	18	20
2	58	29	-	20,5	1x17	18	20
3	75	37,5	-	20,5	2x17	18	20
4	92	29	34	20,5	3x17	18	20
5	109	29	51	20,5	4x17	18	20
6	126	29	68	20,5	5x17	18	20

### Normal profile G

#### Main line connection G1/8

Ports	Dimensions [mm]						
	A	B	C	E	F	G	H
1	34	17	-	17	-	22	22
2	51	25,5	-	17	1x17	22	22
3	68	25,5	17	17	2x17	22	22
4	85	25,5	34	17	3x17	22	22
5	102	25,5	51	17	4x17	22	22
6	119	25,5	68	17	5x17	22	22

### Normal profile G

#### Main line connection G1/4

Ports	Dimensions [mm]						
	A	B	C	E	F	G	H
1	46	23	-	23	-	22	22
2	63	31,5	-	23	1x17	22	22
3	80	31,5	17	23	2x17	22	22
4	97	31,5	34	23	3x17	22	22
5	114	31,5	51	23	4x17	22	22
6	131	31,5	68	23	5x17	22	22

# SKF MonoFlex prelubrication distributors of product series 341

## General

SKF MonoFlex single-line distributors of product series 341 are single-port prelubrication distributors for SKF MonoFlex single-line centralized lubrication systems for oil and fluid grease lubrication. These single-line distributors are designed for installation in manifolds. The combination of these single-line distributors with 1- to 6-port manifolds provides flexible options for designing the lubrication system on the machine/system requiring lubrication. Manifolds customized for product series 341 are available in aluminum and stainless steel designs.

The available metered quantities are in a range from 0,01 – 0,16 cm<sup>3</sup>. The metering nipples have a mark indicating the metered quantity. To better distinguish between different designs, metering nipples for oil are made of brass and metering nipples for fluid grease are made of nickel-plated brass. Metering nipples made of stainless steel are untreated. The lubrication point line can be connected to the metering nipple using SKF quick connectors or solderless pipe connections (DIN 3862) depending on the selected metered quantity. Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected can be either 2,5 mm or 4 mm.

The lubrication point outlet can be closed using a locking pin (SKF quick connector) or a screw plug with a flat washer (solderless pipe connection). Metering nipples for metered quantities above 0,03 cm<sup>3</sup> can be replaced later to yield different metered quantities.

The components made of elastomers in the interior of the single-line distributors are made of NBR or FKM (FPM) depending on the design. The distributor body is available in steel (galvanized, Cr6-free) and stainless steel designs. The seal of the internal thread for mounting the single-port single-line distributor in a manifold is available in soft-sealing (with O-ring) and flat washer designs.

See the following pages for further information on product series 341. Details on manifolds and accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

**!** The configurator on the following page **does not** allow specification of manifolds and distributors in a single order code. The manifolds are listed under Accessories and must be ordered separately.

**Metering nipple VS** (SKF quick connector)



**Metering nipple 00** (for solderless pipe connection per DIN 3862)



**Distributor body 341**



**Manifold VL**



## Technical data

### Product series 341

Lubricant	Metered quantity [cm <sup>3</sup> ]	Metering nipple	Operating pressure [bar]		Relief pressure [bar]	Operating temperature [°C]
			min.	max.		
Mineral and synthetic oil 20 – 2 000 mm <sup>2</sup> /s; compatible with steel, FKM (FPM)/NBR, brass	0,01 – 0,02	00	12	45	max. 3	0 – 80
		VS	12	80	max. 3	0 – 80
	0,03 – 0,16	00	6	45	≤ 1	0 – 80
		VS	6	80	≤ 1	0 – 80
Fluid grease of NLGI Grade 000, 00; compatible with steel, FKM (FPM)/NBR, brass	0,03 – 0,10	00	12	45	max. 3	0 – 80
		VS	12	80	max. 3	0 – 80

### Tightening torque for assembly

Distributor	Seal	Tightening torques [Nm]
341-xxx-x0000-00	O-ring	2,5
341-xxx-x0000-00	Flat washer	6

# SKF MonoFlex prelubrication distributors of product series 341

## Configurator

**Order code**

3

4

1

-

-

0

0

0

0

-

0

0

**Product series**

**Number of metering points (1)**

**Design and metered quantity**

Design code	2	4	8	5	9	1	7	6
Lubricant	Oil	Oil	Oil	Fluid grease	Fluid grease	Oil	Fluid grease	Oil
∅ lubrication point line [mm]	2,5	4	4	4	4	4	4	4
Distributor body material	Steel, galvanized	Steel, galvanized	Steel, galvanized	Steel, galvanized	Steel, galvanized	Steel, galvanized	Steel, galvanized	Stainless steel (1.4305)
Metering nipple material	Brass	Brass	Brass	Brass nickel-plated	Brass nickel-plated	Brass	Brass nickel-plated	Stainless steel (1.4305)
Elastomer material	NBR	NBR	FKM (FPM)	NBR	FKM (FPM)	NBR	NBR	FKM (FPM)
Threaded seal material	Flat washer <sup>2)</sup>	Flat washer <sup>2)</sup>	Flat washer <sup>2)</sup>	Flat washer <sup>2)</sup>	Flat washer <sup>2)</sup>	O-ring <sup>3)</sup>	O-ring <sup>3)</sup>	O-ring <sup>3)</sup>
Lubrication point line connection	00	VS 00	VS 00	VS 00	00	VS 00	VS 00	00
Metered quantity code	0,01 <sup>1)</sup>	1	1	1	-	1	-	1
	0,02 <sup>1)</sup>	-	6	-	-	6	-	-
	0,03	2	2	2	2	2	2	2
	0,06	3	3	3	3	3	3	3
	0,10	4	4	4	4	4	4	4
	0,16	5	5	5	-	5	-	5

Design code

Design of lubrication point line connection  
(VS = SKF quick connectors, 00 = solderless pipe connection)

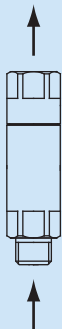
Metered quantity code

<sup>1)</sup> Subsequent modification of the metered quantity is not technically possible.

<sup>2)</sup> Flat washer must be ordered separately. Order number: **DIN7603-A8x11.5-CU**

<sup>3)</sup> O-ring is part of the shipment

### Order example



#### 341-100-30000-00

- Single-port single-line distributor for oil
- NBR design
- Lubrication point line connection per DIN 3862 for pipe ∅ 4 mm
- Metered quantity 0,06 cm<sup>3</sup>
- O-ring seal on internal thread



# SKF MonoFlex prelubrication distributors of product series 341

## Manifolds for product series 341

**Order code**

**V L -**

**Product series**

**Number of ports**

**01** = 1 screw-in point      **04** = 4 screw-in points  
**02** = 2 screw-in points      **05** = 5 screw-in points  
**03** = 3 screw-in points      **06** = 6 screw-in points  
**(other numbers of ports available on request)**

**Design of distributor pipe thread**

**A** = Normal profile, M8x1 with counterbore for O-ring  
**D** = Small profile, M8x1 with counterbore for flat washer  
**(can only be selected for main line connection M3)**  
**F** = Normal profile, M8x1 with counterbore for flat washer

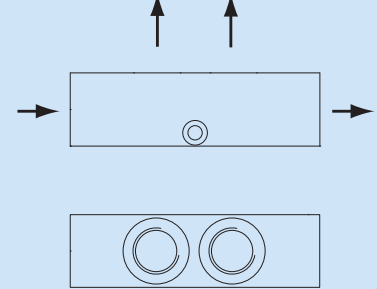
**Material**

**A** = Aluminum  
**E** = Stainless steel (1.4305) **(can only be selected for normal profile)**

**Design of main line connection**

**G1** = G1/8 per DIN 3852-2, Form X, schmal  
**G2** = G1/4 per DIN 3852-2, Form X, schmal  
**M3** = M10x1 with counterbore for solderless pipe connection per DIN 3862 (→ page 14)  
**M4** = M14x1,5 with counterbore for solderless pipe connection per DIN 3862 (→ page 14)  
**(can only be selected for normal profile)**

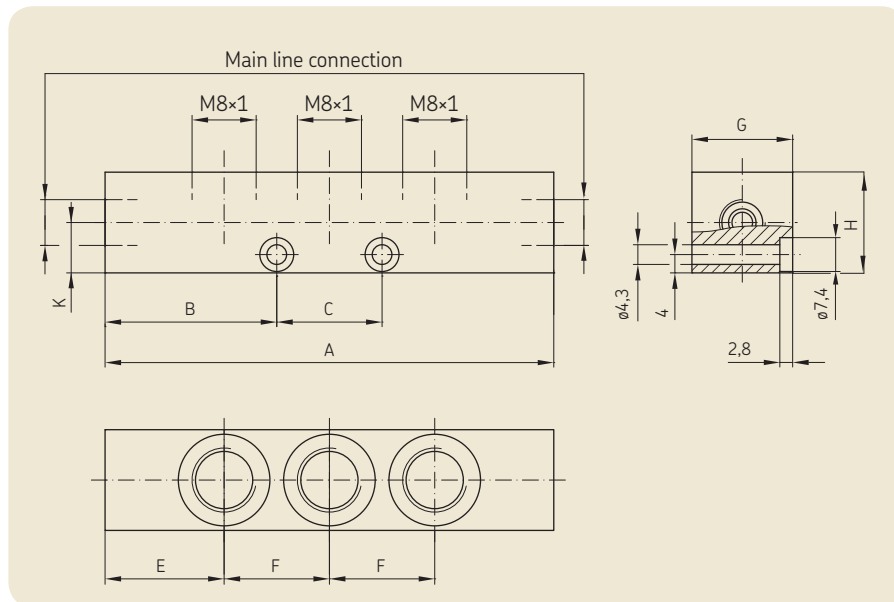
### Order example



#### VL-02AAM3

- Product series VL
- 2 ports
- Normal profile made of aluminum
- M8x1 internal thread with counterbore for O-ring
- M10x1 main line connection with counterbore for solderless pipe connection per DIN 3862

## Dimensions



### Normal profile A/F

#### Main line connection M10x1

Number of ports	A	B	C	E	F	G	H	K
1	40	20	-	20	-	22	22	11
2	55	27.5	-	20	1x15	22	22	11
3	70	27.5	15	20	2x15	22	22	11
4	85	27.5	30	20	3x15	22	22	11
5	100	27.5	45	20	4x15	22	22	11
6	115	27.5	60	20	5x15	22	22	11

### Normal profile A/F

#### Main line connection M14x1.5

Number of ports	A	B	C	E	F	G	H	K
1	48	24	-	24	-	22	22	11
2	63	31.5	-	24	1x15	22	22	11
3	78	31.5	15	24	2x15	22	22	11
4	93	31.5	30	24	3x15	22	22	11
5	108	31.5	45	24	4x15	22	22	11
6	123	31.5	60	24	5x15	22	22	11

### Small profile D

#### Main line connection M10x1

Number of ports	A	B	C	E	F	G	H	K
1	39	19.5	-	20.5	-	13	17	10.5
2	52	26	-	20.5	1x13	13	17	10.5
3	65	32.5	-	20.5	2x13	13	17	10.5
4	78	39	-	20.5	3x13	13	17	10.5
5	91	45.5	-	20.5	4x13	13	17	10.5
6	104	26	52	20.5	5x13	13	17	10.5

### Normal profile A/F

#### Main line connection G1/8

Number of ports	A	B	C	E	F	G	H	K
1	34	17	-	17	-	22	22	11
2	49	24.5	-	17	-	22	22	11
3	64	24.5	15	17	2x15	22	22	11
4	79	24.5	30	17	3x15	22	22	11
5	94	24.5	45	17	4x15	22	22	11
6	109	24.5	60	17	5x15	22	22	11

### Normal profile A/F

#### Main line connection G1/4

Number of ports	A	B	C	E	F	G	H	K
1	46	23	-	23	-	22	22	11
2	61	30.5	-	23	1x15	22	22	11
3	76	30.5	15	23	2x15	22	22	11
4	91	30.5	30	23	3x15	22	22	11
5	106	30.5	45	23	4x15	22	22	11
6	121	30.5	60	23	5x15	22	22	11

# SKF MonoFlex prelubrication distributors of product series 340

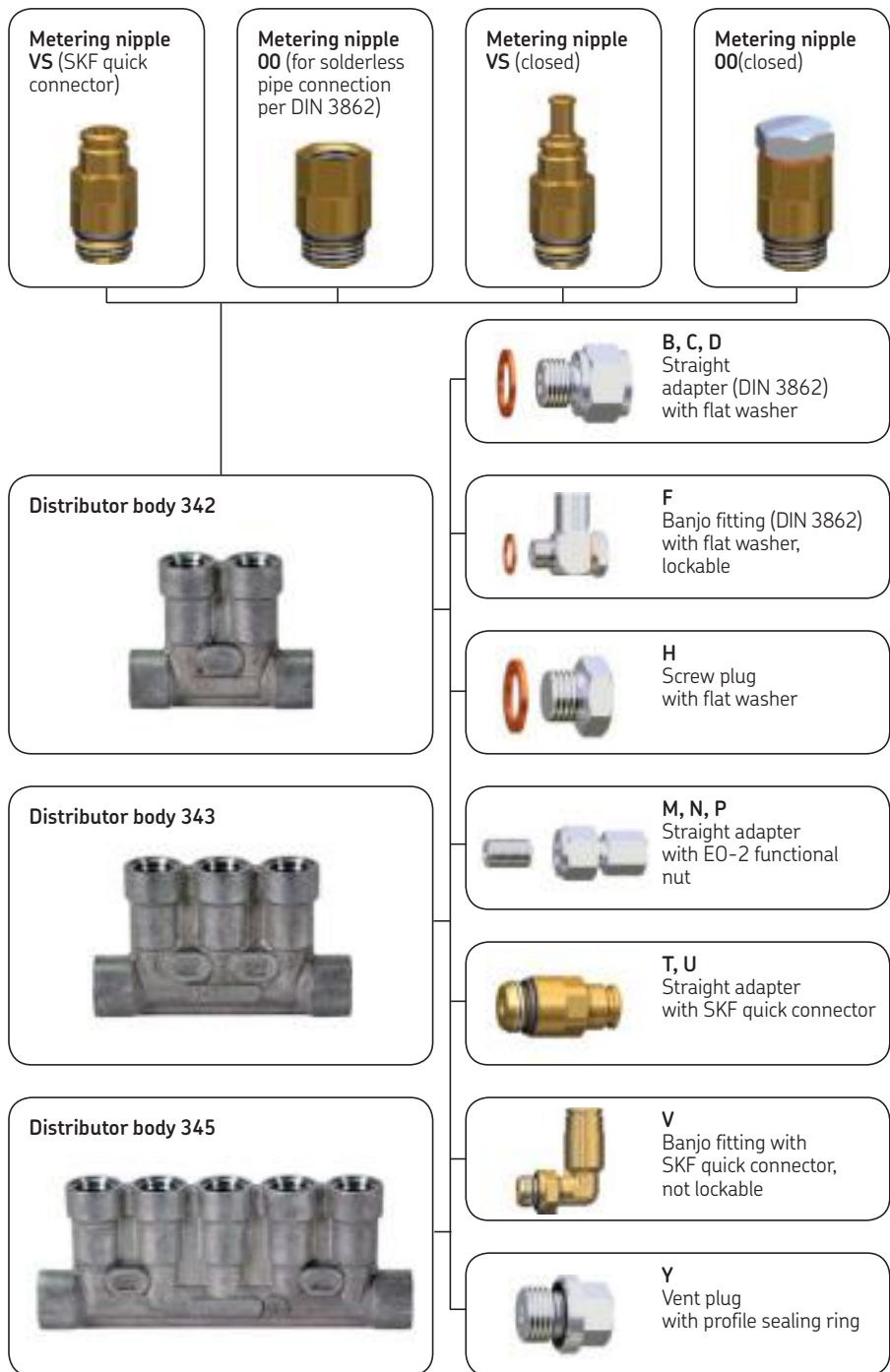
## General

SKF MonoFlex single-line distributors of product series 340 are 2-, 3-, and 5-port prelubrication distributors for MonoFlex single-line centralized lubrication systems for oil and fluid grease lubrication. These single-line distributors are designed for installation directly on the machine/system requiring lubrication. SKF MonoFlex single-line distributors of product series 340 can be ordered with fittings for the main line connection. This can be indicated on the order by selecting the corresponding letter for the desired fitting in the order code.

The available metered quantities are in the range from 0,01 – 0,16 cm<sup>3</sup>. The metering nipples have a mark indicating the metered quantity. To better distinguish between different designs, metering nipples for oil are made of brass and metering nipples for fluid grease are made of nickel-plated brass. The lubrication point line can be connected to the metering nipple using SKF quick connectors or solderless pipe connections (DIN 3862) depending on the selected metered quantity. Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected can be either 2,5 mm or 4 mm. The lubrication point outlet can be closed using a locking pin (SKF quick connector) or a screw plug with a flat washer (solderless pipe connection). The metering nipples for metered quantities above 0,03 cm<sup>3</sup> can be replaced later to yield different metered quantities.

The components made of elastomers inside the multi-port single-line distributors are made of NBR or FKM (FPM) depending on the design.

The distributor body is made of zinc die-cast. Holes to secure the multi-port single-line distributors to the machine/system are cast into the distributor body. The main line connection on the distributor body has a counterbore for mounting a solderless pipe connection for metal or plastic pipe diameter of 6 mm (M10x1 thread). Various fittings, from SKF quick connectors to screw plugs, that are matched to the thread size of the main line connection are available.



See the following pages for further information on product series 340. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

**!** The main line fittings B – Y can be mounted both on the left and the right side of the distributor body. The configurator on the following page allows specification of a single-line distributor with main line fittings in a single order code.

# SKF MonoFlex prelubrication distributors of product series 340

## Configurator

Order code

3

4

-

-

-

Product series

Number of metering points (2, 3, 5)

Code letter

Design of lubrication point line connection  
(VS = SKF quick connectors, 00 = solderless pipe connection)

Metering point 1

Metering point 2

Metering point 3  
(0 = not present, on 342)

Metering point 4  
(0 = not present, on 342, 343)

Metering point 5  
(0 = not present, on 342, 343)

Metered quantity code

Code for fittings for main line connection on left

Code for fittings for main line connection on right

**Design and metered quantity**

Design code	2	4	8	5
Lubricant	Oil	Oil	Oil	Fluid grease
Lubrication point line [mm]	2,5	4	4	4
Distributor body material	Zinc die-cast	Zinc die-cast	Zinc die-cast	Zinc die-cast
Metering nipple material	Brass	Brass	Brass	Brass, nickel-plated
Elastomer material	NBR	NBR	FKM (FPM)	NBR
Lubrication point line connection	00	VS 00	VS 00	VS 00
Metered quantity code [cm <sup>3</sup> ]	0,01 <sup>1)</sup> 0,02 <sup>1)</sup> 0,03 0,06 0,10 0,16 closed <sup>2)</sup>	1 - 2 3 4 5 V	1 - 2 3 4 5 V	1 - 2 3 4 5 V

<sup>1)</sup> Subsequent modification of the metered quantity is not technically possible.  
<sup>2)</sup> V = Metered quantity of 0,03 cm<sup>3</sup>, closed

Metered quantity code

Code for fittings for main line connection on left

Code for fittings for main line connection on right

**Order example**

**342-400-2V000-BB**

- Two-port single-line distributor for oil
- NBR design
- Lubrication point line connection per DIN 3862 for pipe ø 4 mm,
- Metered quantity for port 1 = 0,03 cm<sup>3</sup>
- Metered quantity for port 2 = 0,03 cm<sup>3</sup>, closed
- Main line fitting left and right = straight adapter (DIN 3862) with flat washer for pipe ø 6 mm

**Fittings for main line connection**

Description	ø main line [mm]	Code
Straight adapter DIN 3862 with flat washer <sup>1)</sup>	6	B
	8	C
	10	D
Banjo fitting DIN 3862 with flat washer, lockable <sup>1) 2)</sup>	6	F
Screw plug with flat washer	-	H
Straight adapter with EO-2 functional nut	6	M
	8	N
	10	P
Straight adapter with SKF quick connector	6	T
	8	U
Banjo fitting with SKF quick connectors, not lockable	6	V
Vent plug with profile sealing ring	-	Y
Without fitting; for solderless pipe connection <sup>1)</sup>	6	Z

<sup>1)</sup> Solderless pipe connection according to DIN 3862 (operating pressure max. 45 bar)  
<sup>2)</sup> Banjo bolt only inserted in delivery condition, not tightened

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# SKF MonoFlex prelubrication distributors of product series 340

## Technical data

### Product series 340

Lubricant	Metered quantity [cm <sup>3</sup> ]	Metering nipple	Operating pressure [bar] min.	Operating pressure [bar] max.	Relief pressure [bar]	Operating temperature [°C]
Mineral and synthetic oil 20 – 2 000 mm <sup>2</sup> /s; compatible with zinc die-cast, FKM (FPM)/NBR, brass, steel	0,01 – 0,02	00	12	45	max. 3	0 – 80
		VS	12	80	max. 3	0 – 80
	0,03 – 0,16	00	6	45	≤ 1	0 – 80
		VS	6	80	≤ 1	0 – 80
Fluid grease of NLGI Grade 000, 00; compatible with zinc die-cast, NBR, brass, steel	0,03 – 0,10	00	12	45	max. 3	0 – 80
		VS	12	80	max. 3	0 – 80

### Mark on metering nipple

Metered quantity [cm <sup>3</sup> ]	Mark
0,01	1
0,02	2
0,03	3
0,06	6
0,10	10
0,16	16

## Accessories

### Order numbers for metering nipples for oil (replaceable)

ø lubrication point line [mm]	Metering nipple material	Elastomer material	Metering nipple	Metered quantity [cm <sup>3</sup> ]			
				0,03	0,06	0,10	0,16
2,5	Brass	NBR	00	<b>995-994-003</b>	<b>995-994-006</b>	<b>995-994-010</b>	<b>995-994-016</b>
4	Brass	NBR	VS	<b>995-994-103-VS</b>	<b>995-994-106-VS</b>	<b>995-994-110-VS</b>	<b>995-994-116-VS</b>
4	Brass	NBR	00	<b>995-994-103</b>	<b>995-994-106</b>	<b>995-994-110</b>	<b>995-994-116</b>
4	Brass	FKM (FPM)	VS	<b>341-453-S8-VS</b>	<b>341-456-S8-VS</b>	<b>341-460-S8-VS</b>	<b>341-466-S8-VS</b>
4	Brass	FKM (FPM)	00	<b>341-453-K-S8</b>	<b>341-456-K-S8</b>	<b>341-460-K-S8</b>	<b>341-466-K-S8</b>

### Order numbers for metering nipples for fluid grease (replaceable)

ø lubrication point line [mm]	Metering nipple material	Elastomer material	Metering nipple	Metered quantity [cm <sup>3</sup> ]		
				0,03	0,06	0,10
4	Brass, nickel-plated	NBR	VS	<b>341-853-VS</b>	<b>341-856-VS</b>	<b>341-860-VS</b>
4	Brass, nickel-plated	NBR	00	<b>341-853-K</b>	<b>341-856-K</b>	<b>341-860-K</b>

### Fittings for metering nipples

Description	ø lubrication point line [mm]	Pipe thread	Order number A	B	C
Screw plug with flat washer for solderless pipe connection	2,5	M6x0,75	<b>402-011.U1</b>	–	–
	4	M8x1	<b>404-011.U1</b>	–	–
Locking pin (A) for SKF quick connectors	4	–	<b>450-204-002</b>	–	–
Solderless pipe connection for metal pipeline* consisting of socket union (A) double cone sleeve (B)	2,5	M6x0,75	<b>402-002</b>	<b>402-001</b>	–
	4	M8x1	<b>404-002</b>	<b>404-001</b>	–
Solderless pipe connection for plastic pipe* consisting of socket union (A), reinforcing socket (B), and tapered 4 sleeve (C)	2,5	M6x0,75	<b>402-612</b>	<b>402-603</b>	<b>402-611</b>
	4	M8x1	<b>404-612</b>	<b>404-603</b>	<b>404-611</b>

\* For more information, → page 14.

# SKF MonoFlex prelubrication distributors of product series 351

## General

SKF MonoFlex single-line distributors of product series 351 are single-port prelubrication distributors for MonoFlex single-line centralized lubrication systems for oil and fluid grease lubrication. These single-line distributors are designed for installation in manifolds. The combination of these single-line distributors with 1- to 6-port manifolds provides flexible options for designing the lubrication system on the machine/system requiring lubrication. Manifolds customized for product series 351 are available in aluminum and stainless steel designs.

The available metered quantities are in a range from 0,05 – 0,60 cm<sup>3</sup>. The metering nipples have a mark indicating the metered quantity. To better distinguish between different designs, metering nipples for oil are made of brass and metering nipples for fluid grease are made of nickel-plated brass. Metering nipples made of stainless steel are untreated. The lubrication point line can be connected to the metering nipple using SKF quick connectors or solderless pipe connections (DIN 3862) depending on the selected metered quantity. Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected is 4 mm. The lubrication point outlet can be closed using a locking pin (SKF quick connector) or a screw plug with a flat washer (solderless pipe connection). The metering

nipples can be replaced later to yield different metered quantities. The components made of elastomers in the interior of the single-line distributors are made of NBR or FKM (FPM) depending on the design.

The distributor body is available in aluminum or stainless steel designs. The seal of the internal thread for mounting the single-port single-line distributor in a manifold is available in a flat washer design.

A sealing ring made of stainless steel will be used if a distributor body made of stainless steel is used.

See the following pages for further information on product series 351. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

**!** The configurator on the following page **does not** allow specification of manifolds and distributors in a single order code. The manifolds are listed under Accessories and must be ordered separately.

**Metering nipple VS** (SKF quick connector)



**Metering nipple 00** (for solderless pipe connection per DIN 3862)



**Distributor body 351**



**Manifold VL**



## Technical data

### Product series 351

Lubricant	Metered quantity [cm <sup>3</sup> ]	Metering nipple	Operating pressure [bar]		Relief pressure [bar]	Operating temperature [°C]
Mineral and synthetic oil 20 – 2 000 mm <sup>2</sup> /s; compatible with aluminum, FKM (FPM)/NBR, brass, steel	0,05 – 0,60	00	6	45	≤ 1	0 – 80
		VS	6	80	≤ 1	0 – 80
Fluid grease of NLGI Grade 000, 00; compatible with aluminum, FKM (FPM)/NBR, brass	0,10 – 0,60	00	12	45	max. 3	0 – 80
		VS	12	80	max. 3	0 – 80

### Tightening torque for assembly

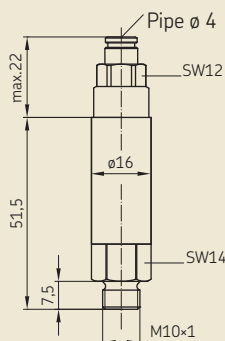
Distributor	Seal	Tightening torques [Nm]
351-xxx-x0000-00	Flat washer	10
351-xxx-x0000-00	Stainless steel ring	10



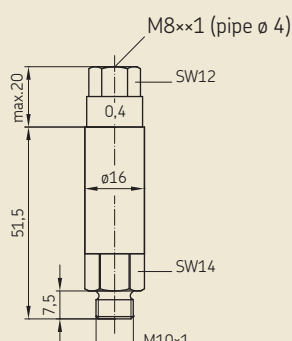
# SKF MonoFlex prelubrication distributors of product series 351

## Dimensions

### Product series 351 + SKF quick connector (VS)



### Product series 351 + solderless pipe connection (00)



### Mark on metering nipple

Metered quantity [cm <sup>3</sup> ]	Mark
0,05	0,05
0,10	0,1
0,20	0,2
0,30	0,3
0,40	0,4
0,60	0,6

## Accessories

### Order numbers for metering nipples for oil (replaceable)

ø lubrication point line [mm]	Metering nipple material	Elastomer material	Metering nipple	Metered quantity [cm <sup>3</sup> ]				
				0,05	0,10	0,20	0,40	0,60
4	Brass	NBR	00	352-005-K	352-010-K	352-020-K	352-040-K	352-060-K
4	Brass	NBR	VS	352-005-VS	352-010-VS	352-020-VS	352-040-VS	352-060-VS
4	Brass	FKM (FPM)	00	352-005-K-S8	352-010-K-S8	352-020-K-S8	352-040-K-S8	352-060-K-S8
4	Brass	FKM (FPM)	VS	352-005-S8-VS	352-010-S8-VS	352-020-S8-VS	352-040-S8-VS	352-060-S8-VS
4	Stainless steel (1.4305)	FKM (FPM)	00	–	352-010-K-S3	352-020-K-S3	352-040-K-S3	352-060-K-S3

### Order numbers for metering nipples for fluid grease (replaceable)

ø lubrication point line [mm]	Metering nipple material	Elastomer material	Metering nipple	Metered quantity [cm <sup>3</sup> ]				
				0,10	0,20	0,30	0,60	
4	Brass, nickel-plated	NBR	00	995-993-610	995-993-620	995-993-630	995-993-660	
4	Brass, nickel-plated	NBR	VS	995-993-610-VS	995-993-620-VS	995-993-630-VS	–	
4	Brass, nickel-plated	FKM (FPM)	00	352-010-K-S82	352-020-K-S82	352-030-K-S82	–	
4	Brass, nickel-plated	FKM (FPM)	VS	352-010-S82-VS	352-020-S82-VS	352-030-S82-VS	–	

### Fittings for metering nipples

Description	ø lubrication point line [mm]	Pipe thread	Order number A	B	C
Screw plug with flat washer for solderless pipe connection	4	M8x1	404-011.U1	–	–
Locking pin (A) for SKF quick connectors	4	–	450-204-002	–	–
Solderless pipe connection for metal pipeline* consisting of socket union (A) and double cone sleeve (B)	4	M8x1	404-002	404-001	–
Solderless pipe connection for plastic pipe* consisting of 4 of socket union (A), reinforcing socket (B), and tapered sleeve (C)		M8x1	404-612	404-603	404-611

\* For more information, → page 14.

# SKF MonoFlex prelubrication distributors of product series 351

## Manifolds for product series 351

**Order code**

**V L -**

**Product series**

**Number of ports**

**01** = 1 screw-in point  
**02** = 2 screw-in points  
**03** = 3 screw-in points  
**04** = 4 screw-in points  
**05** = 5 screw-in points  
**06** = 6 screw-in points  
**(other numbers of ports available on request)**

**Design of distributor pipe thread**

**B** = Normal profile, M10x1 with counterbore for O-ring  
**E** = Small profile, M10x1 with counterbore for flat washer  
**(can only be selected for main line connection M3)**  
**G** = Normal profile, M10x1 with counterbore for flat washer

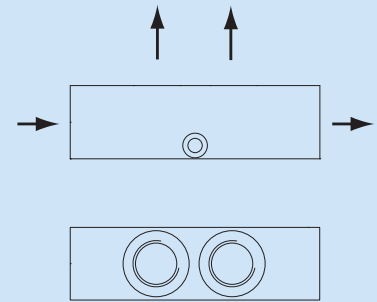
**Material**

**A** = Aluminum  
**E** = Stainless steel (1.4305) **(can only be selected for normal profile)**

**Design of main line connection**

**G1** = G1/8 per DIN 3852-2, Form X, schmal  
**G2** = G1/4 per DIN 3852-2, Form X, schmal  
**M3** = M10x1 with counterbore for solderless pipe connection per DIN 3862 (→ page 14)  
**M4** = M14x1,5 with counterbore for solderless pipe connection per DIN 3862 (→ page 14)  
**(can only be selected for normal profile)**

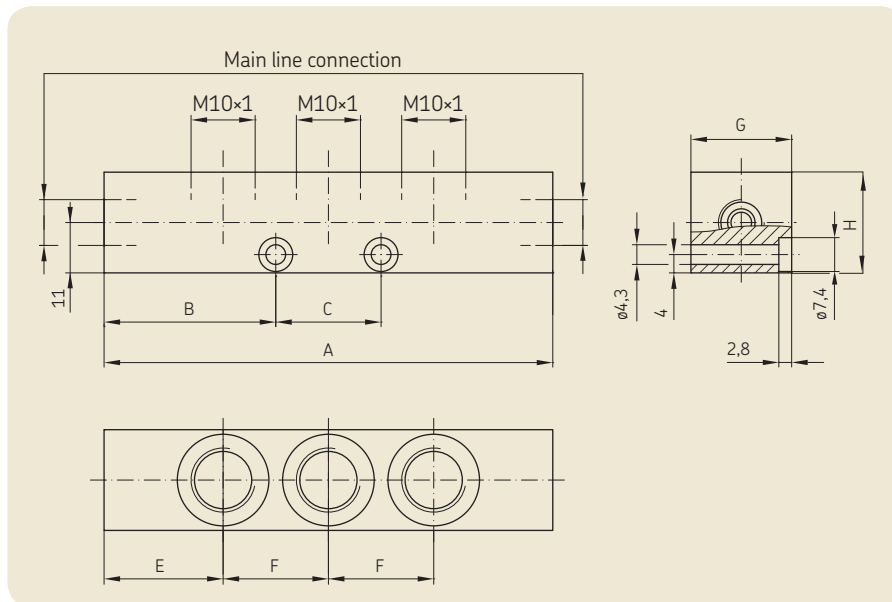
### Order example



#### VL-02BAM3

- Product series VL
- 2 ports
- Normal profile made of aluminum
- M10x1 internal thread with counterbore for O-ring
- M10x1 main line connection with counterbore for solderless pipe connection per DIN 3862

## Dimensions



### Normal profile B/G

#### Main line connection M10x1

Number of ports	A	B	C	E	F	G	H
1	40	20	-	20	-	22	22
2	57	28,5	-	20	1x17	22	22
3	74	28,5	17	20	2x17	22	22
4	91	28,5	34	20	3x17	22	22
5	108	28,5	51	20	4x17	22	22
6	125	28,5	68	20	5x17	22	22

### Normal profile B/G

#### Main line connection M14x1,5

Number of ports	A	B	C	E	F	G	H
1	52	26	-	26	-	22	22
2	69	34,5	-	26	1x17	22	22
3	86	34,5	17	26	2x17	22	22
4	103	34,5	34	26	3x17	22	22
5	128	34,5	51	26	4x17	22	22
6	137	34,5	68	26	5x17	22	22

### Small profile E

#### Main line connection M10x1

Number of ports	A	B	C	E	F	G	H
1	41	20,5	-	20,5	-	18	20
2	58	29	-	20,5	1x17	18	20
3	75	37,5	-	20,5	2x17	18	20
4	92	29	34	20,5	3x17	18	20
5	109	29	51	20,5	4x17	18	20
6	126	29	68	20,5	5x17	18	20

### Normal profile B/G

#### Main line connection G1/8

Number of ports	A	B	C	E	F	G	H
1	34	17	-	17	-	22	22
2	51	25,5	-	17	1x17	22	22
3	68	25,5	17	17	2x17	22	22
4	85	25,5	34	17	3x17	22	22
5	102	25,5	51	17	4x17	22	22
6	119	25,5	68	17	5x17	22	22

### Normal profile B/G

#### Main line connection G1/4

Number of ports	A	B	C	E	F	G	H
1	46	23	-	23	-	22	22
2	63	31,5	-	23	1x17	22	22
3	80	31,5	17	23	2x17	22	22
4	97	31,5	34	23	3x17	22	22
5	114	31,5	51	23	4x17	22	22
6	131	31,5	68	23	5x17	22	22

# SKF MonoFlex prelubrication distributors of product series 350

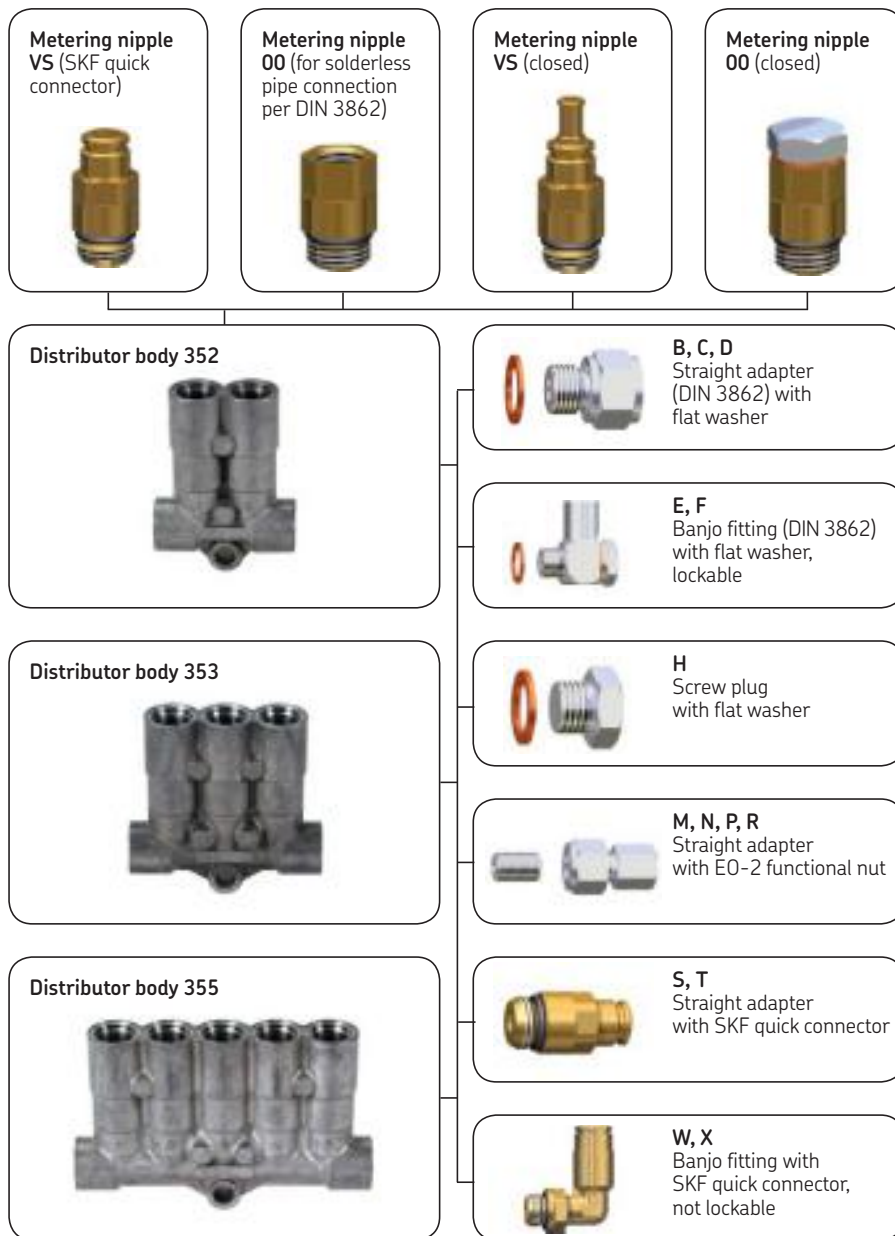
## General

SKF MonoFlex single-line distributors of product series 350 are 2-, 3-, and 5-port prelubrication distributors for MonoFlex single-line centralized lubrication systems for oil and fluid grease lubrication. These single-line distributors are designed for installation directly on the machine/system requiring lubrication. SKF MonoFlex single-line distributors of product series 350 can be ordered with fittings for the main line connection. This can be indicated on the order by selecting the corresponding letter for the desired fitting in the order code.

The available metered quantities are in a range from 0,05 – 0,60 cm<sup>3</sup>. The metering nipples have a mark indicating the metered quantity. To better distinguish between different designs, metering nipples for oil are made of brass and metering nipples for fluid grease are made of nickel-plated brass. The lubrication point line can be connected to the metering nipple using SKF quick connectors or solderless pipe connections (DIN 3862) depending on the selected metered quantity. Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected is 4 mm. The lubrication point outlet can be closed using a locking pin (SKF quick connector) or a screw plug with a flat washer (solderless pipe connection). The metering nipples can be replaced later to yield different metered quantities.

The components made of elastomers inside the multi-port single-line distributors are made of NBR or FKM (FPM) depending on the design.

The distributor body is made of zinc die-cast. Holes to secure the multi-port single-line distributors to the machine/system are cast in the distributor body. The main line connection on the distributor body has an M12x1 thread. Various fittings, from SKF quick connectors to screw plugs, that are matched to the thread size of the main line connection are available.



See the following pages for further information on product series 350. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

**!** The main line fittings B–X can be mounted both on the left and the right of the distributor body. The configurator on the following page allows specification of a single-line distributor with main line fittings in a single order code.

# SKF MonoFlex prelubrication distributors of product series 350

## Configurator

Order code

3

5

-

-

-

Product series

Number of metering points (2, 3, 5)

Design and metered quantity

Design key	0	8	1	7
Design				
Lubricant	Oil	Oil	Fluid grease	Fluid grease
∅ lubrication point line [mm]	4	4	4	4
Distributor body material	Zinc die-cast	Zinc die-cast	Zinc die-cast	Zinc die-cast
Metering nipple material	Brass	Brass	Brass nickel-plated	Brass nickel-plated
Elastomer material	NBR	FKM (FPM)	NBR	FKM (FPM)
Lubrication point line connection	VS 00	VS 00	VS 00	VS 00
Metered quantity code [cm <sup>3</sup> ]				
0,05	3	3	-	-
0,10	4	4	4	4
0,20	5	5	5	5
0,30	-	-	6	6
0,40	6	6	-	-
0,60	7	7	-	-
closed *	V	V	V	V

\* V = Metered quantity of 0,20 cm<sup>3</sup>, closed

Code

Design of lubrication point line connection  
(VS = SKF quick connectors, 00 = solderless pipe connection)

Metering point 1

Metering point 2

Metering point 3  
(0 = not present, on 352)

Metering point 4  
(0 = not present, on 352, 353)

Metering point 5  
(0 = not present, on 352, 353)

Metered quantity code

Code for fittings for main line connection on left

Code for fittings for main line connection on right

Order example

**352-800-5V000-CC**

- Two-port single-line distributor for oil
- FPM design
- Lubrication point line connection per DIN 3862 for pipe ∅ 4 mm,
- Metered quantity for port 1 = 0,20 cm<sup>3</sup>
- Metered quantity for port 2 = 0,20 cm<sup>3</sup> closed
- Main line fitting left and right = straight adapter (DIN 3862) with flat washer for pipe ∅ 8 mm

**Fittings for main line connection**

Description	Main line [mm]	Code
Straight adapter DIN 3862 with flat washer <sup>1)</sup>	6	<b>B</b>
	8	<b>C</b>
	10	<b>D</b>
Banjo fitting DIN 3862 with flat washer, lockable <sup>1) 2)</sup>	6	<b>E</b>
	8	<b>F</b>
Screw plug with flat washer	-	<b>H</b>
Straight adapter with EO-2 functional nut	6	<b>M</b>
	8	<b>N</b>
	10	<b>P</b>
	12	<b>R</b>
Straight adapter with SKF quick connector	6	<b>S</b>
	8	<b>T</b>
Banjo fitting with SKF quick connectors	6	<b>W</b>
	8	<b>X</b>
Without fitting (M12x1 thread)	-	<b>Z</b>

<sup>1)</sup> Solderless pipe connection according to DIN 3862 (operating pressure max. 45 bar)  
<sup>2)</sup> Banjo bolt only inserted in delivery condition, not tightened

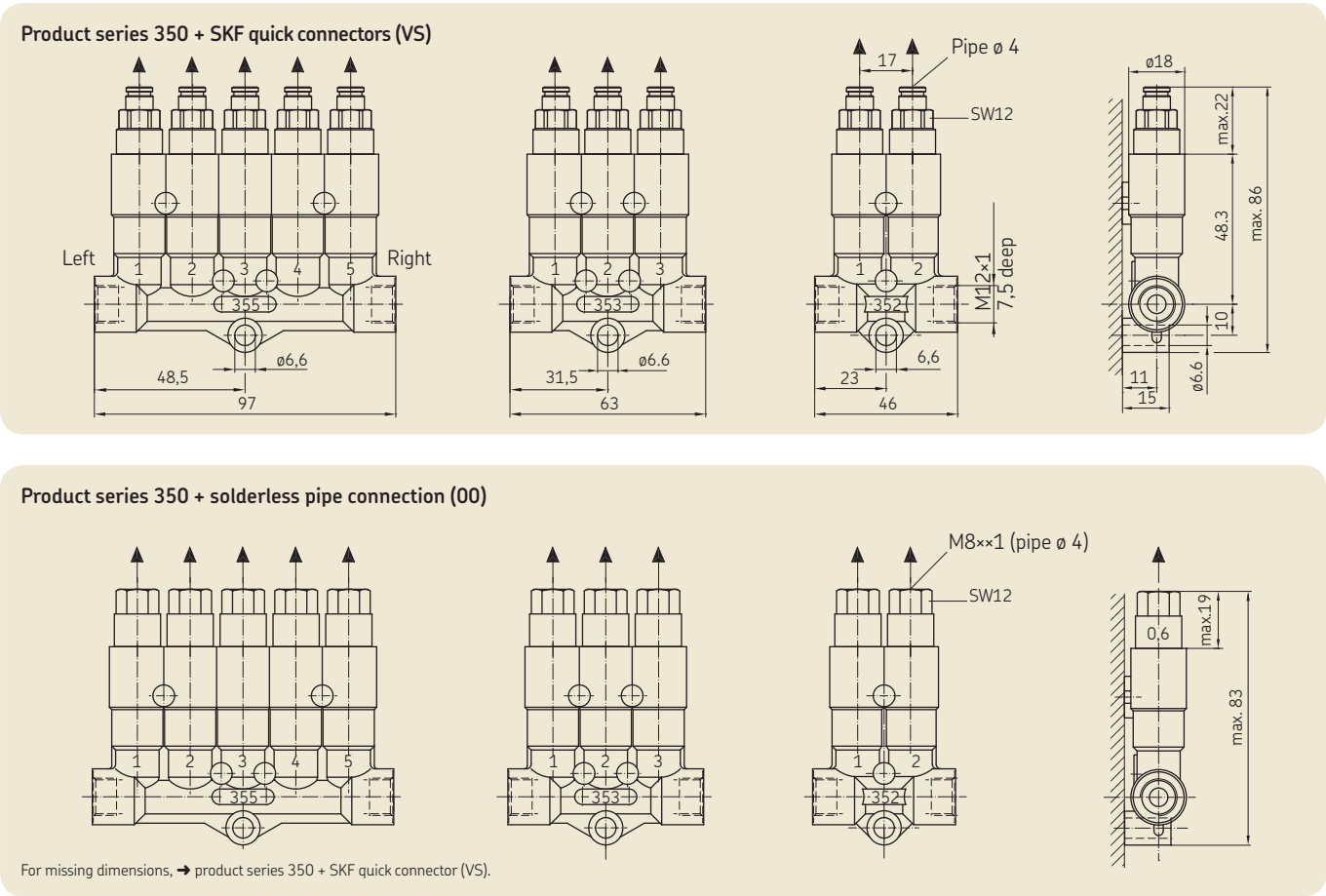
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**SKF**

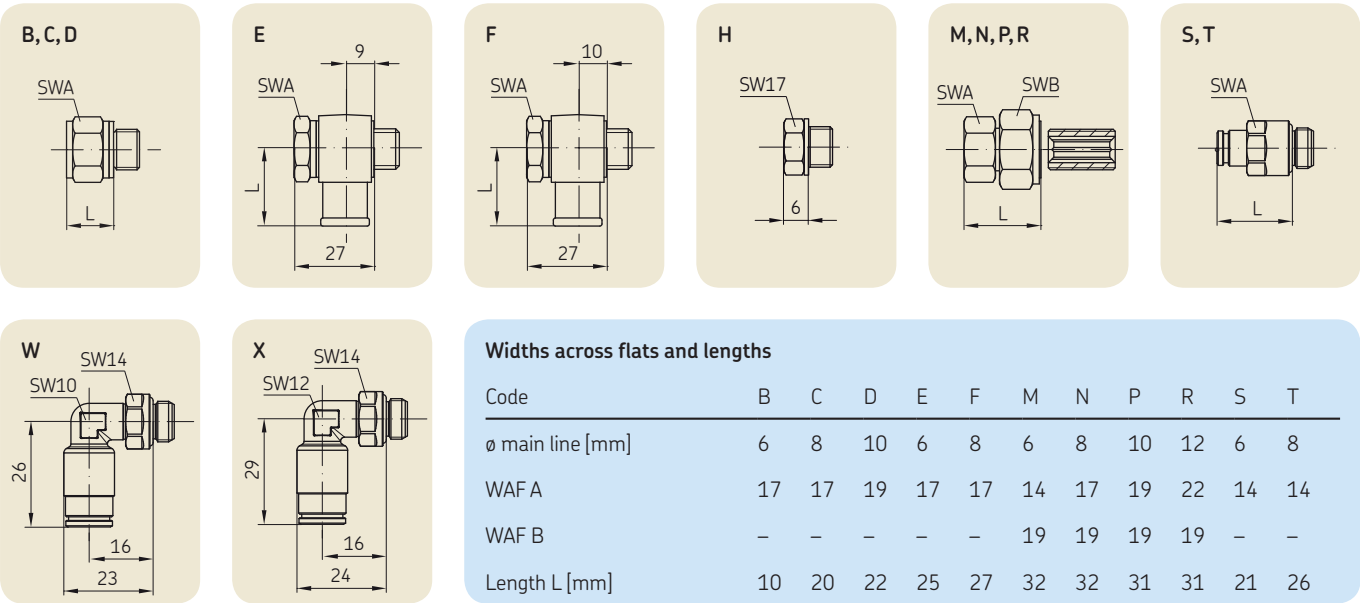
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# SKF MonoFlex prelubrication distributors of product series 350

## Dimensions



### Fittings for main line connection (→ page 34 for exact designation)





# SKF MonoFlex prelubrication distributors of product series 350

## Technical data

### Product series 350

Lubricant	Metered quantity [cm <sup>3</sup> ]	Metering nipple	Operating pressure [bar]		Relief pressure [bar]	Operating temperature [°C]
			min.	max.		
Mineral and synthetic oil 20 – 2 000 mm <sup>2</sup> /s; compatible with zinc die-cast, FKM (FPM)/ NBR, brass, steel	0,05 – 0,60	00	6	45	≤ 1	0 – 80
		VS	6	80	≤ 1	0 – 80
Fluid grease of NLGI Grade 000, 00; compatible with zinc die-cast, NBR, brass, steel	0,10 – 0,60	00	12	45	max. 3	0 – 80
		VS	12	80	max. 3	0 – 80

### Mark on metering nipple

Metered quantity [cm <sup>3</sup> ]	Mark
0,05	0,05
0,10	0,1
0,20	0,2
0,30	0,3
0,40	0,4
0,60	0,6

## Accessories

### Order numbers for metering nipples for oil\* (replaceable)

ø lubrication point line [mm]	Elastomer material	Metering nipple	Metered quantity [cm <sup>3</sup> ]				
			0,05	0,10	0,20	0,40	0,60
4	NBR	00	352-005-K	352-010-K	352-020-K	352-040-K	352-060-K
4	NBR	VS	352-005-VS	352-010-VS	352-020-VS	352-040-VS	352-060-VS
4	FKM (FPM)	00	352-005-K-S8	352-010-K-S8	352-020-K-S8	352-040-K-S8	352-060-K-S8
4	FKM (FPM)	VS	352-005-S8-VS	352-010-S8-VS	352-020-S8-VS	352-040-S8-VS	352-060-S8-VS

\* Metering nipples are made of brass.

### Order numbers for metering nipples for fluid grease\* (replaceable)

ø lubrication point line [mm]	Elastomer material	Metering nipple	Metered quantity [cm <sup>3</sup> ]			
			0,10	0,20	0,30	0,60
4	NBR	00	995-993-610	995-993-620	995-993-630	995-993-660
4	NBR	VS	995-993-610-VS	995-993-620-VS	995-993-630-VS	–
4	FKM (FPM)	00	352-010-K-S82	352-020-K-S82	352-030-K-S82	–
4	FKM (FPM)	VS	352-010-S82-VS	352-020-S82-VS	352-030-S82-VS	–

\* Metering nipples are made of nickel-plated brass.

### Fittings for metering nipples

Description	ø lubrication point line [mm]	Pipe thread	Order number		
A	B	C			
Screw plug with flat washer for solderless pipe connection	4	M8x1	404-011.U1	–	–
Locking pin (A) for SKF quick connectors	4	–	450-204-002	–	–
Solderless pipe connection for metal pipeline* consisting of socket union (A) and double cone sleeve (B)	4	M8x1	404-002	404-001	–
Solderless pipe connection for plastic pipe* consisting of socket union (A), reinforcing socket (B), and tapered sleeve (C)	4	M8x1	404-612	404-603	404-611

\* For more information, → page 14.

# SKF MonoFlex prelubrication distributors of product series 391

## General

SKF MonoFlex single-line distributors of product series 391 are single-port prelubrication distributors for MonoFlex single-line centralized lubrication systems for oil and fluid grease lubrication. These single-line distributors are designed for installation in manifolds. The combination of these single-line distributors with 1- to 6-port manifolds provides flexible options for designing the lubrication system on the machine/system requiring lubrication. Manifolds customized for product series 391 are available in an aluminum design.

The available metered quantities are a range from 0,10 – 1,5 cm<sup>3</sup>. The metering nipples have a mark indicating the metered quantity. To better distinguish between different designs, metering nipples for oil are made of brass and metering nipples for fluid grease are made of nickel-plated brass. The lubrication point line is connected to the metering nipple using a solderless pipe connection (DIN 3862). Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected is 4 mm. The lubrication point outlet can be closed using a screw plug with a flat washer. The metering nipples can be replaced later to yield different metered quantities. The components made of elastomers in the interior of the single-line distributors are

made of NBR or FKM (FPM) depending on the design.

The distributor body is available in an aluminum design. The seal of the internal thread for mounting the single-port single-line distributor in a manifold is available in a flat washer design.

See the following pages for further information on product series 391. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

**!** The configurator on the following page **does not** allow specification of manifolds and distributors in a single order code. The manifolds are listed under Accessories and must be ordered separately.

**Metering nipple 00** (for solderless pipe connection per DIN 3862)



**Distributor body 391**



**Manifold VL**



## Technical data

### Product series 391

Lubricant	Metered quantity [cm <sup>3</sup> ]	Metering nipple	Operating pressure [bar] min.	Operating pressure [bar] max.	Relief pressure [bar]	Operating temperature [°C]
Mineral and synthetic oil 20 – 2 000 mm <sup>2</sup> /s; compatible with aluminum, FKM (FPM)/ NBR, brass, steel	0,2 – 1,5	00	8	45	≤ 1	0 – 80
Fluid grease of NLGI Grade 000, 00, 0; compatible with aluminum, NBR, brass, steel	0,1 – 0,3	00	26	45	max. 7	0 – 80

### Tightening torque for assembly

Distributor	Seal	Tightening torques [Nm]
391-8xx-x000-00	Flat washer	16

# SKF MonoFlex prelubrication distributors of product series 391

## Configurator

**Order code** 3 9 1 - 0 0 - 0 0 0 0 - 0 0

Product series 3 9 1

Number of metering points (1) 1

Design code 0 0

Metered quantity code 0 0 0 0


Design of lubrication point line connection (VS = SKF quick connectors, 00 = solderless pipe connection)

Metered quantity code

Design and metered quantity			
Design code	0	8	1
Lubricant	Oil	Oil	Fluid grease
Ø lubrication point line [mm]	4	4	4
Distributor body material	Aluminum	Aluminum	Aluminum
Metering nipple material	Brass	Brass	Brass, nickel-plated
Elastomer material	NBR	FKM (FPM)	NBR
Threaded seal material	Flat washer*	Flat washer*	Flat washer*
Lubrication point line connection	00	00	00
Metered quantity code [cm³]	0,10 0,20 0,30 0,40 0,60 1,00 1,50	- 5 - 6 7 8 9	4 5 6 - - - -

\* Flat washer must be ordered separately. Order number: DIN7603-A14x18-CU

**Order example**



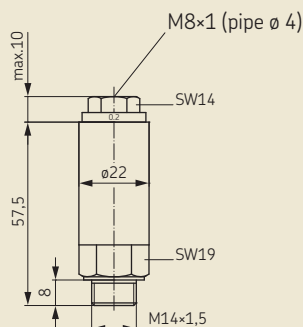
**391-100-60000-00**

- Single-port single-line distributor for fluid grease
- NBR design
- Lubrication point line connection per DIN 3862 for pipe Ø 4 mm
- Metered quantity 0,30 cm³
- Flat washer seal on internal thread

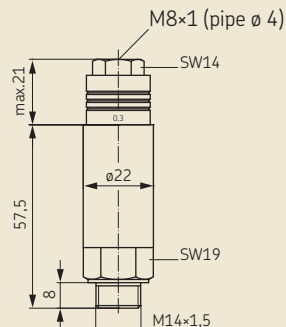
# SKF MonoFlex prelubrication distributors of product series 391

## Dimensions

### Product series 391 for oil + solderless pipe connection (00)



### Product series 391 for fluid grease + solderless pipe connection (00)



### Mark on metering nipple

Metered quantity [cm <sup>3</sup> ]	Mark
0,1	0,1
0,2	0,2
0,3	0,3
0,4	0,4
0,6	0,6
1,0	1,0
1,5	1,5

## Accessories

### Order numbers for metering nipples for oil (replaceable)

ø lubrication point line [mm]	Elastomer material	Metering nipple material	Metered quantity [cm <sup>3</sup> ]				
			0,2	0,4	0,6	1,0	1,5
4	NBR	Brass	<b>391-020-K</b>	<b>391-040-K</b>	<b>391-060-K</b>	<b>391-100-K</b>	<b>391-150-K-S8</b>
4	FKM (FPM)	Brass	<b>391-020-K-S8</b>	<b>391-040-K-S8</b>	<b>391-060-K-S8</b>	<b>391-100-K-S8</b>	<b>391-150-K-S8</b>

### Order numbers for metering nipples made of nickel-plated brass for fluid grease (replaceable)

ø lubrication point line [mm]	Elastomer material	Metering nipple material	Metered quantity [cm <sup>3</sup> ]		
			0,1	0,2	0,3
4	NBR	Brass, nickel-plated	<b>391-010-K-S1</b>	<b>391-020-K-S1</b>	<b>391-030-K-S1</b>

### Fittings for metering nipples

Description	ø lubrication point line [mm]	Pipe thread	Order number A	B	C
Screw plug with flat washer for solderless pipe connection	4	M8x1	<b>404-011.U1</b>	–	–
Solderless pipe connection for metal pipeline* consisting of socket union (A) and double cone sleeve (B)	4	M8x1	<b>404-002</b>	<b>404-001</b>	–
Solderless pipe connection for plastic pipe* consisting of socket union (A), reinforcing socket (B), and tapered sleeve (C)	4	M8x1	<b>404-612</b>	<b>404-603</b>	<b>404-611</b>

\* For more information, → page 14.

# SKF MonoFlex prelubrication distributors of product series 391

## Manifolds for product series 391

**Order code**

**V L -** **C A**

**Product series**

**Number of ports**

**01** = 1 screw-in point      **04** = 4 screw-in points  
**02** = 2 screw-in points      **05** = 5 screw-in points  
**03** = 3 screw-in points      **06** = 6 screw-in points  
**(other numbers of ports available on request)**

**Design of distributor pipe thread**

**C** = Normal profile, M14x1,5 with counterbore for flat washer

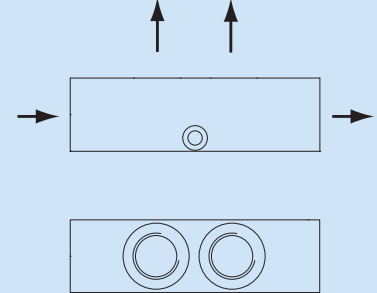
**Material**

**A** = Aluminum

**Design of main line connection**

**G1** = G1/8 per DIN 3852-2, Form X, schmal  
**G2** = G1/4 per DIN 3852-2, Form X, schmal  
**M3** = M10x1 with counterbore for solderless pipe connection per DIN 3862 (→ page 14)  
**M4** = M14x1,5 with counterbore for solderless pipe connection per DIN 3862 (→ page 14)

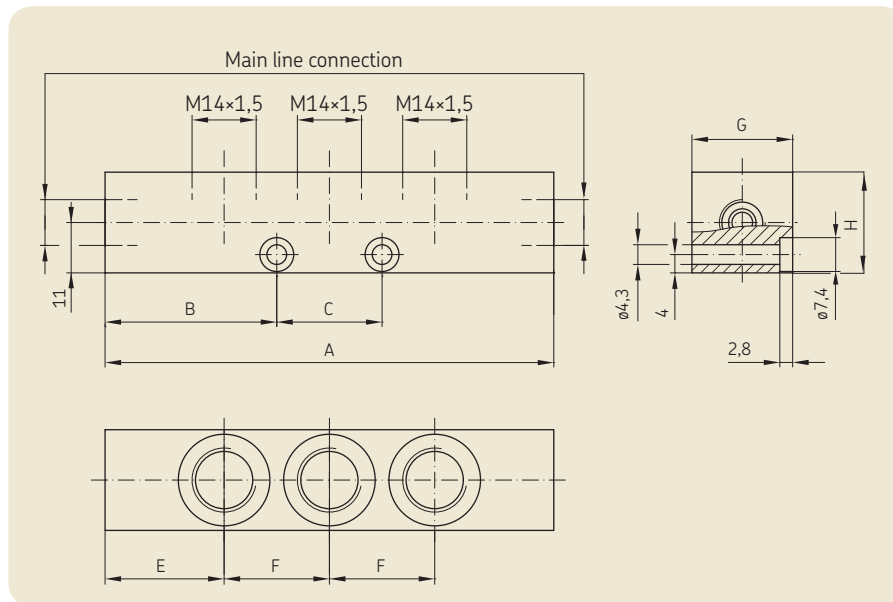
### Order example



#### VL-02CAM3

- Product series VL
- 2 ports
- Normal profile made of aluminum
- M14x1,5 internal thread with counterbore for flat washer
- M10x1 main line connection with counterbore for solderless pipe connection per DIN 3862

## Dimensions



### Normal profile C

#### Main line connection M10x1

Number of ports	A	B	C	E	F	G	H
1	60	18	24	30	—	22	22
2	70	35	—	29	1x24	22	22
3	94	35	24	23	2x24	22	22
4	118	35	48	23	3x24	22	22
5	142	35	72	23	4x24	22	22
6	166	35	96	23	5x24	22	22

### Normal profile C

#### Main line connection M14x1,5

Number of ports	A	B	C	E	F	G	H
1	68	22	24	34	—	22	22
2	78	39	—	27	1x24	22	22
3	102	39	24	27	2x24	22	22
4	126	39	48	27	3x24	22	22
5	150	39	72	27	4x24	22	22
6	174	39	96	27	5x24	22	22

### Normal profile C

#### Main line connection G1/8

Number of ports	A	B	C	E	F	G	H
1	54	15	24	27	—	22	22
2	64	32	—	20	1x24	22	22
3	88	32	24	20	2x24	22	22
4	112	32	48	20	3x24	22	22
5	136	32	72	20	4x24	22	22
6	160	32	96	20	5x24	22	22

### Normal profile C

#### Main line connection G1/4

Number of ports	A	B	C	E	F	G	H
1	64	20	24	32	—	22	22
2	76	38	—	26	1x24	22	22
3	100	38	24	26	2x24	22	22
4	124	38	48	26	3x24	22	22
5	148	38	72	26	4x24	22	22
6	172	38	96	26	5x24	22	22

# SKF MonoFlex prelubrication distributors of product series 390

## General

SKF MonoFlex single-line distributors of product series 390 are 2- and 3-port prelubrication distributors for MonoFlex single-line centralized lubrication systems for oil and fluid grease lubrication. These single-line distributors are designed for installation directly on the machine/system requiring lubrication. SKF MonoFlex single-line distributors of product series 390 can be ordered with fittings for the main line connection. This can be indicated on the order by selecting the corresponding letter for the desired fitting in the order code.

The available metered quantities are in a range from 0,10 – 1,5 cm<sup>3</sup>. The metering nipples have a mark indicating the metered quantity. To better distinguish between different designs, metering nipples for oil are made of brass and metering nipples for fluid grease are made of nickel-plated brass. The lubrication point line is connected to the metering nipple using a solderless pipe connection (DIN 3862). Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected is 4 mm. The lubrication point outlet can be closed using a screw plug with a flat washer. The metering nipples can be replaced later to yield different metered quantities.

The components made of elastomers inside the multi-port single-line distributors are made of NBR or FKM (FPM) depending on the design.

The distributor body is made of zinc die-cast. Holes to secure the multi-port single-line distributors to the machine/system are cast in the distributor body.

**Metering nipple 00** (for solderless pipe connection per DIN 3862)



**Metering nipple 00** (closed)



**!** The main line fittings B–X can be mounted both on the left and the right of the distributor body. The configurator on the following page allows specification of a single-line distributor with main line fittings in a single order code.

**Distributor body 392**



**Distributor body 393**



**B, C, D**  
Straight adapter (DIN 3862) with flat washer



**E, F**  
Banjo fitting (DIN 3862) with flat washer, lockable



**H**  
Screw plug with flat washer



**M, N, P, R**  
Straight adapter with E0-2 functional nut



**S, T**  
Straight adapter with SKF quick connector



**W, X**  
Banjo fitting with SKF quick connector, not lockable



The main line connection on the distributor body has an M12x1 thread. Various fittings, from SKF quick connectors to screw plugs, that are matched to the thread size of the main line connection are available.

See the following pages for further information on product series 390. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

# SKF MonoFlex prelubrication distributors of product series 390

## Configurator

Order code

39 - 00-  00-

Product series

Number of metering points (2, 3)

Code
Metering point 1
Metering point 2
Metering point 3  
(0 = not present, on 392)
Code for fittings for main line connection on left
Code for fittings for main line connection on right

### Design and metered quantity

Design code	0	8	1
Lubricant	Oil	Oil	Fluid grease
∅ lubrication point line [mm]	4	4	4
Distributor body material	Zinc die-cast	Zinc die-cast	Zinc die-cast
Metering nipple material	Brass	Brass	Brass, nickel-plated
Elastomer material	NBR	FKM (FPM)	NBR
Lubrication point line connection	00	00	00
Metered quantity code [cm³]			
0,10	-	-	4
0,20	5	5	5
0,30	-	-	6
0,40	6	6	-
0,60	7	7	-
1,00	8	8	-
1,50	9	9	-
closed *	V	V	V

\* V = Metered quantity of 0,20 cm³, closed

### Fittings for main line connection

Description	∅ main line [mm]	Code
Straight adapter	6	B
DIN 3862 with flat washer	8	C
	10	D
Banjo fitting DIN 3862 with flat washer, lockable <sup>1)</sup>	6	E
	8	F
Screw plug with flat washer	-	H
Straight adapter with EO-2 functional nut	6	M
	8	N
	10	P
	12	R
Straight adapter with SKF quick connector	6	S
	8	T
Banjo fitting with SKF quick connector, not lockable	6	W
	8	X
Without fitting (M12x1 thread)	-	Z

<sup>1)</sup> Banjo bolt only inserted in delivery condition, not tightened

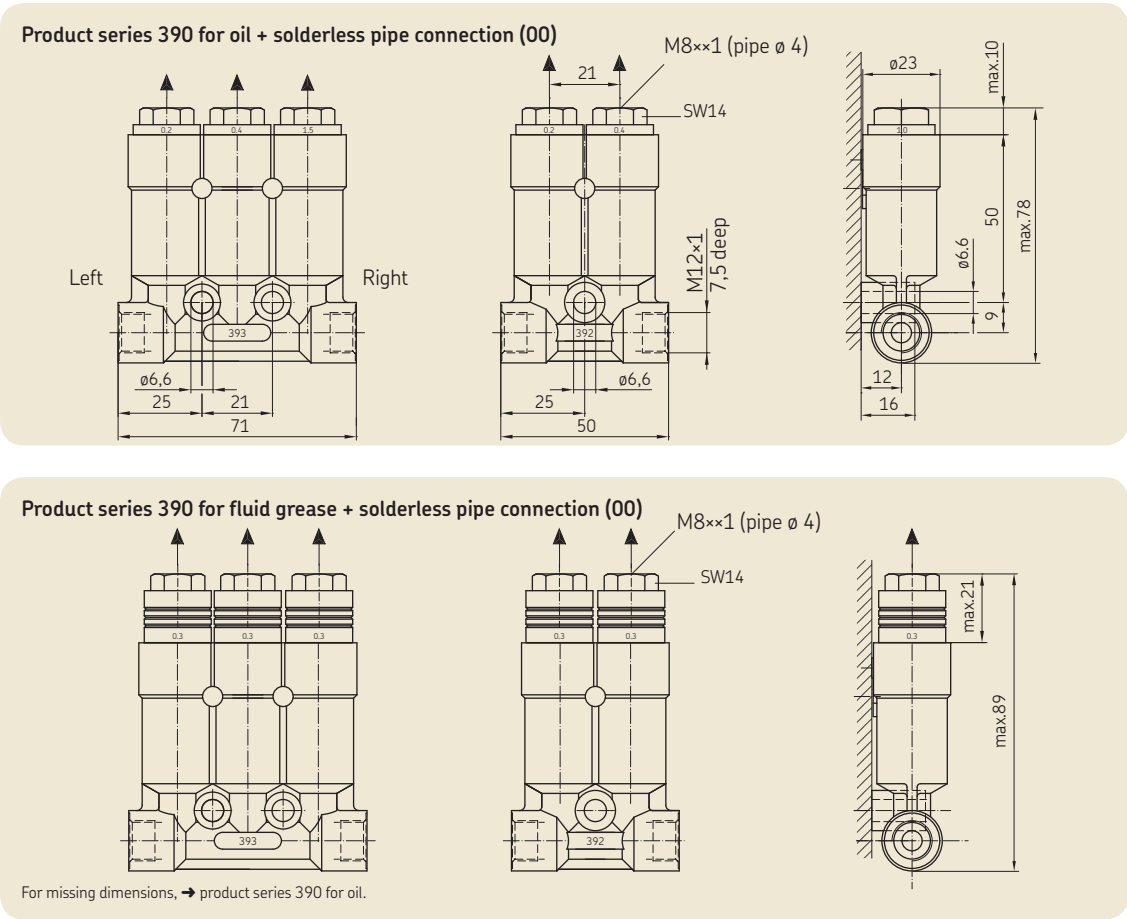
### Order example

**392-800-5V000-CC**

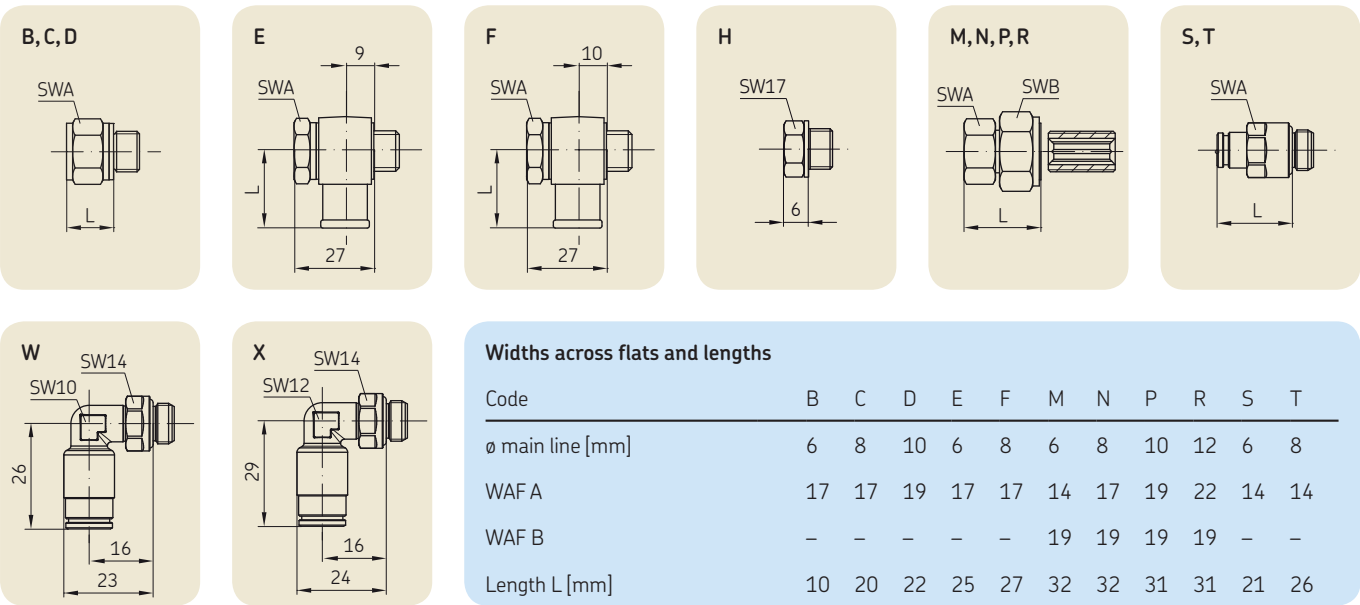
- Two-port single-line distributor for oil
- FPM design
- Lubrication point line connection per DIN 3862 for pipe ∅ 4 mm
- Metered quantity for port 1 = 0,20 cm³
- Metered quantity for port 2 = 0,20 cm³ closed
- Main line fitting left and right = straight adapter (DIN 3862) with flat washer for pipe ∅ 8 mm

# SKF MonoFlex prelubrication distributors of product series 390

## Dimensions



### Fittings for main line connection (→ page 42 for exact designation)





# SKF MonoFlex prelubrication distributors of product series 390

## Technical data

### Product series 390

Lubricant	Metered quantity [cm <sup>3</sup> ]	Metering nipple	Operating pressure [bar]		Relief pressure [bar]	Operating temperature [°C]
			min.	max.		
Mineral and synthetic oil 20 – 2 000 mm <sup>2</sup> /s; compatible with zinc die-cast, FKM (FPM)/NBR, brass, steel	0,2 – 1,5	00	8	45	≤ 1	0 – 80
Fluid grease of NLGI Grade 000, 00, 0; compatible with zinc die-cast, NBR, brass, steel	0,1 – 0,3	00	26	45	max. 7	0 – 80

### Mark on metering nipple

Metered quantity [cm <sup>3</sup> ]	Mark
0,1	0,1
0,2	0,2
0,3	0,3
0,4	0,4
0,6	0,6
1,0	1,0
1,5	1,5

## Accessories

### Order numbers for metering nipples for oil (replaceable)

ø lubrication point line [mm]	Elastomer material	Metering nipple material	Metered quantity [cm <sup>3</sup> ]				
			0,2	0,4	0,6	1,0	1,5
4	NBR	Brass	<b>391-020-K</b>	<b>391-040-K</b>	<b>391-060-K</b>	<b>391-100-K</b>	<b>391-150-K</b>
4	FKM (FPM)	Brass	<b>391-020-K-S8</b>	<b>391-040-K-S8</b>	<b>391-060-K-S8</b>	<b>391-100-K-S8</b>	<b>391-150-K-S8</b>

### Order numbers for metering nipples for fluid grease (replaceable)

ø lubrication point line [mm]	Elastomer material	Metering nipple material	Metered quantity [cm <sup>3</sup> ]		
			0,1	0,2	0,3
4	NBR	Brass, nickel-plated	<b>391-010-K-S1</b>	<b>391-020-K-S1</b>	<b>391-030-K-S1</b>

### Fittings for metering nipples

Description	ø lubrication point line [mm]	Pipe thread	Order number		
			A	B	C
Screw plug with flat washer for solderless pipe connection	4	M8x1	<b>404-011.U1</b>	–	–
Solderless pipe connection for metal pipeline* consisting of socket union (A) and double cone sleeve (B)	4	M8x1	<b>404-002</b>	<b>404-001</b>	–
Solderless pipe connection for plastic pipe* consisting of socket union (A), reinforcing socket (B), and tapered sleeve (C)	4	M8x1	<b>404-612</b>	<b>404-603</b>	<b>404-611</b>

\* For more information, → page 14.

# SKF MonoFlex prelubrication distributors of product series VR

## General

SKF MonoFlex single-line distributors of product series VR are 1- to 12-port prelubrication distributors for MonoFlex single-line centralized lubrication systems for fluid grease and grease lubrication with greases up to NLGI Grade 2. SKF MonoFlex single-line distributors of product series VR are characterized by an innovative, compact, and sturdy design with SKF plug connector systems. With a high pressure resistance of up to 315 bar and selectable relief pressures of 30 or 70 bar, these single-line distributors allow use of single-line centralized lubrication systems, especially as an inexpensive alternative to dual-line centralized lubrication systems that are currently in use. These single-line distributors offer a broad range of possible applications due to their high level of functional reliability, especially when using greases of NLGI Grades 1 and 2, and at low ambient temperatures down to  $-25^{\circ}\text{C}$ . SKF MonoFlex single-line distributors of product series VR are designed for corrosivity categories C3 and C5 per DIN EN ISO 12944 and are certified by Germanischer Lloyd. Typical applications are onshore and offshore wind energy systems, large construction machinery, the steel industry and heavy industry, as well as general mechanical engineering applications. The available metered quantities for SKF MonoFlex VR single-line distributors are in the range from 0,1 to 1,3  $\text{cm}^3$ . The metering nipples have a mark indicating the metered quantity. All metering nipples are equipped standard with an indicator pin that allows visual monitoring of the metering function. The lubrication point line is connected to the single-line distributor using SKF plug connectors or cutting-sleeve screw unions. In addition, a thread connection sized G1/8 is available for utilizing customer-specific fittings. The diameter of the connectable lubrication point line can be either 4 mm or 6 mm, depending on the design. Non-adjustable and adjustable meterings are available. For adjustable meterings, the metered quantity is in the range from 0,1  $\text{cm}^3$  to 1,1  $\text{cm}^3$  and is regulated by the engagement depth of the metering nipple. The adjustable meterings are factory-set to a metered quantity of 1,1  $\text{cm}^3$ .



The components made of elastomers inside the single-line distributor are made of FKM (FPM). The distributor body is made from aluminum. The surface is anodized (black color) for long-term protection against corrosion.

The main line connection on the distributor body has a G 1/4 (DIN 3852-2 Form X) thread. SKF MonoFlex single-line distributors of product series VR can be equipped with fittings for the main line connection. Cutting-sleeve screw unions (DIN 2353) for pipe diameters of 8 mm or 10 mm or screw plugs that are matched to the thread size of the main line connection are available. This can be indicated on the order by selecting the corresponding letter for the desired combination of fittings in the order code.

See the following pages for further information on product series VR. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

**!** The configurator on the following page allows specification of a distributor of product series VR, complete with metering nipples and main line fittings in a single order code.

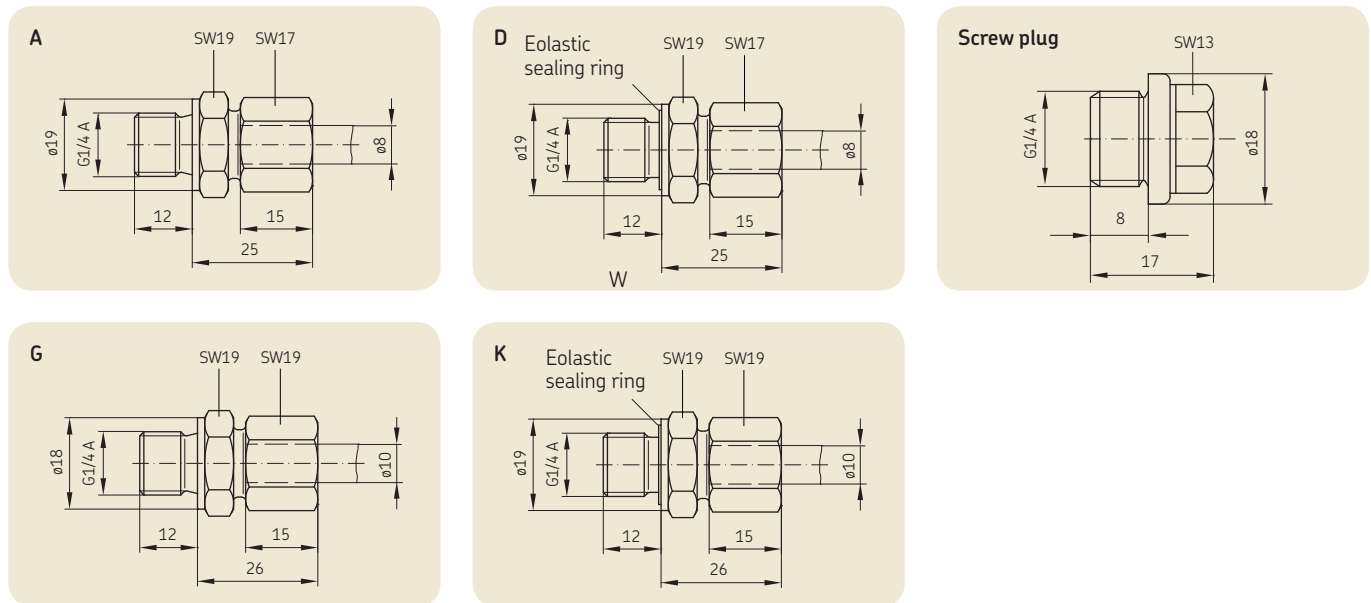
## Configurator

PUBLS/P211213 EN · 1-5001-EN



# SKF MonoFlex prelubrication distributors of product series VR

## Dimensions – Fittings for main line connection



## Technical data

### Pressures and temperatures

Operating pressure	min. 100 bar max. 315 bar
Relief pressure selectable	max. 30 bar max. 70 bar
Lubricant	Fluid greases and greases up to NLGI Grade 2
Operating temperature	-25 to + 80°C

### Materials

Distributor body	Anodized aluminum
Metering nipple	Anodized aluminum/ stainless steel
Indicator pin	Stainless steel (1.4401)
Elastomers	FKM (FPM)

### Mark on metering nipple

Metering [cm <sup>3</sup> ]	Mark
0,1	0,1
0,2	0,2
0,4	0,4
0,6	0,6
0,8	0,8
1,0	1,0
1,3	1,3

**!** The 30-bar relief pressure should be selected in case of low flow pressure and low operating temperature of the lubricant, or when using a short main line or a large main line diameter.

The 70-bar relief pressure should be selected in case of high flow pressure and low operating temperature of the lubricant, and when using a long main line or a small main line diameter.

# SKF MonoFlex prelubrication distributors of product series 321

## General

321 G7



321 G4



321 Module



SKF MonoFlex single-line distributors of product series 321 are special types of single-port prelubrication distributors for SKF MonoFlex single-line centralized lubrication systems for oil and fluid grease lubrication. These single-line distributors are designed for installation directly in a lubrication point, which eliminates the feeding of lubricant to the lubrication point via a lubrication point line as well as the lubrication line at the lubrication point. This can be beneficial where, for example, space is limited. The single-line distributors are integrated directly into the main line of the MonoFlex single-line centralized lubrication system. A total of six special types are available that differ according to their intended application.

The available metered quantities are in the range from 0,01 – 0,30 cm<sup>3</sup> depending on the special type. The single-line distributors have a mark indicating the metered quantity. The main line is connected to single-line distributor types G, T, and W using union nuts or socket unions combined with tapered sleeves. Main lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors.

The single-line distributor types G, T, and W are connected to lubrication points using a tapered threaded end; depending on the design, M8x1 taper, M10x1 taper, or R1/8 taper can be selected. See the following pages for details on lubricant feeding and the lubrication point connection on special types G4, G7 (small and large design) and Module. The components made of elastomers inside the single-line distributors are made of NBR. Several designs of type G7 are also available with elastomers made of FKM (FPM). The distributor body is made of steel (galvanized, Cr6-free) or brass depending on the type.

See the following pages for further information on product series 390. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

### Note on structure of a single-line centralized lubrication system:

Pressure buildup and reduction in main lines (connection between centralized lubrication unit and single-line distributor) can be monitored using pressure switches. In lubrication point lines (connection between single-line distributor and lubrication point), the operating pressure generated by the centralized lubrication unit does not appear immediately; the pressure therefore cannot be monitored using pressure switches. Nevertheless, to monitor lubrication point lines and thus lubrication of the bearing, the lubrication point lines must be turned into main lines. This is done using the single-port single-line distributor types G, T, and W. These single-line distributors are placed directly in the main line and feed lubricant directly into the lubrication point without utilizing a lubrication point line. By arranging the single-line distributors in the main line, pressure buildup in the main line can be monitored using pressure switches, which also allows the function of the single-line distributors to be monitored for each lubrication cycle.

321 G



321 T



321 W



# SKF MonoFlex prelubrication distributors of product series 321

## Order numbers

### Product series 321 – designs G, T, W\*

ø lubrication point line [mm]	Lubricant	Metered quantity [cm <sup>3</sup> ]	Pipe thread of lubrication point line	321 G	321 T	321 W
4	Oil	0,01	M8×1 taper M10×1 taper R1/8 taper	321-401G1 321-401G2 321-401G3	– 321-401T2 –	– 321-401W2 –
4	Oil	0,03	M8×1 taper M10×1 taper R1/8 taper	321-403G1 321-403G2 321-403G3	321-403T1 321-403T2 321-403T3	321-403W1 321-403W2 321-403W3
4	Oil	0,06	M8×1 taper M10×1 taper R1/8 taper	321-406G1 321-406G2 321-406G3	321-406T1 321-406T2 321-406T3	321-406W1 321-406W2 321-406W3
4	Oil	0,10	M8×1 taper M10×1 taper R1/8 taper	321-410G1 321-410G2 321-410G3	321-410T1 321-410T2 321-410T3	321-410W1 321-410W2 321-410W3
6	Oil, fluid grease NLGI Grade 000, 00	0,01	M8×1 taper M10×1 taper R1/8 taper	321-601G1 321-601G2 –	– 321-601T2 321-601T3	321-601W1 321-601W2 321-601W3
6	Oil, fluid grease NLGI Grade 000, 00	0,03	M8×1 taper M10×1 taper R1/8 taper	321-603G1 321-603G2 321-603G3	321-603T1 321-603T2 321-603T3	321-603W1 321-603W2 321-603W3
6	Oil/Fluid grease NLGI Grade 000, 00	0,06	M8×1 taper M10×1 taper R1/8 taper	321-606G1 321-606G2 321-606G3	– 321-606T2 321-606T3	321-606W1 321-606W2 321-606W3
6	Oil, fluid grease NLGI Grade 000, 00	0,10	M8×1 taper M10×1 taper R1/8 taper	321-610G1 321-610G2 321-610G3	321-610T1 321-610T2 321-610T3	321-610W1 321-610W2 321-610W3

\* Designs G, T, W elastomer material NBR

### Product series 321 – designs G4, Module, G7

Metered quantity [cm <sup>3</sup> ]	Lubricant	Elastomer material	321 G4	321 Module	321 G7 small	321 G7 large
0,01	Oil/fluid grease NLGI Grade 000, 00	NBR	–	321-101	321-401G7	–
0,03	Oil/fluid grease NLGI Grade 000, 00	NBR FKM (FPM)	321-403G4 –	321-103 –	321-403G7 321-403G7-S8	– –
0,06	Oil/fluid grease NLGI Grade 000, 00	NBR FKM (FPM)	321-406G4 –	321-106 –	321-406G7 321-406G7-S8	– –
0,10	Oil/fluid grease NLGI Grade 000, 00	NBR FKM (FPM)	321-410G4 –	– –	321-410G7 321-410G7-S8	321-610G7 –
0,16	Oil, fluid grease NLGI Grade 000, 00	NBR	–	–	–	321-616G7
0,20	Oil, fluid grease NLGI Grade 000, 00	NBR	–	–	–	321-620G7
0,30	Oil, fluid grease NLGI Grade 000, 00	NBR	–	–	–	321-630G7





# SKF MonoFlex prelubrication distributors of product series 321

## Technical data

### Pressures and temperatures

Operating pressure    min. 12 bar  
                                 max. 45 bar

Relief pressure        max. 3 bar

Lubricant                Mineral and synthetic oil  
                                 20 – 2 000 mm<sup>2</sup>/s; compatible with NBR,  
                                 brass, steel

or

Fluid grease of NLGI Grade 000, 00;  
compatible with NBR (type G7 small:  
also FKM (FPM)), brass, steel

Operating temperature    0 to +80 °C

# SKF MonoFlex relubrication distributors of product series VN

## General

SKF MonoFlex single-line distributors of product series VN are 2-, 4-, and 6-port relubrication distributors for MonoFlex single-line centralized lubrication systems for fluid grease lubrication. These single-line distributors are designed for installation directly on the vehicle/construction machine requiring lubrication. SKF MonoFlex single-line distributors of product series VN can be ordered with fittings for the main line connection. This can be indicated on the order by selecting the corresponding letter for the desired fitting in the order code.

The available metered quantities are in a range from 0,05 – 1,00 cm<sup>3</sup>. The metering nipples have a mark indicating the metered quantity. The metering nipples are made of brass. The lubrication point line can be connected to the single-line distributor using SKF quick connectors or solderless pipe connections (DIN 3862). Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected is 4 mm. The lubrication point outlet can be closed using a locking pin (SKF quick connector) or a screw plug with a flat washer (solderless pipe connection). The metering nipples can be replaced later to yield different metered quantities.

The components made of elastomers inside the multi-port single-line distributors are made of NBR.

The distributor body is made of zinc die-cast. The surface of the distributor bodies is painted black for optimum corrosion protection. Holes to secure the multi-port relubrication distributors to the vehicle/construction machine are cast in the distributor body.

The main line connection on the distributor body has a counterbore for mounting a solderless pipe connection for metal or plastic pipe diameter of 10 mm (M16x1,5 thread). Various fittings, from SKF quick connectors to screw plugs, that are matched to the thread size of the main line connection are available.

See the following pages for further information on product series VN. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

**Metering nipple**



**Distributor body VN2**



**Distributor body VN4**



**Distributor body VN6**



**Lubrication point line connection VS (SKF plug connector)**



**Lubrication point line connection 00 (for solderless pipe connection per DIN 3862)**



The following main line fittings A–S can be mounted both on the left and the right of the distributor body. The configurator on the following page allows specification of a single-line distributor with main line fittings in a single order code.



**A,**  
Straight  
adapter (DIN 3862)  
with flat washer



**E, F, G**  
Banjo fitting (DIN 3862)  
with flat washer,  
lockable



**H**  
Screw plug  
with flat washer



**S**  
Straight adapter  
with SKF quick connector





# SKF MonoFlex relubrication distributors of product series VN

## Technical data

### Product series VN

Lubricant	Metered quantity [cm <sup>3</sup> ]	Lubrication point line connection	Operating pressure [bar]		Relief pressure [bar]	Operating temperature [°C]
Fluid grease of NLGI Grade 000, 00; compatible with zinc die-cast, NBR, brass, steel	0,05 – 1,00	00 VS	20	45	≤ 1	–25 to +80
			20	80	≤ 1	–25 to +80

### Mark on metering nipple

Metered quantity [cm <sup>3</sup> ]	Mark
0,05	0,05
0,10	0,1
0,20	0,2
0,30	0,3
0,40	0,4
0,60	0,6
1,00	1,0

## Accessories

### Order numbers for metering nipples\* (replaceable)

ø Lubrication point line [mm]	Elastomer material	Metered quantity [cm <sup>3</sup> ]						
		0,05	0,10	0,20	0,30	0,40	0,60	1,00
4	NBR	VKU005-K	VKU010-K	VKU020-K	VKU030-K	VKU040-K	VKU060-K	VKU100-K

\* Metering nipples are made of brass.

### Fittings for metering nipples

Description	ø lubrication point line [mm]	Pipe thread	Order number		
			A	B	C
Screw plug with flat washer for solderless pipe connection	4	M8x1	404-011.U1	–	–
Locking pin (A) for SKF quick connectors	4	–	450-204-002	–	–
Solderless pipe connection for metal pipeline* consisting of socket union (A) and double cone sleeve (B)	4	M8x1	404-002	404-001	–
Solderless pipe connection for plastic pipe* consisting of socket union (A), reinforcing socket (B), and tapered sleeve (C)	4	M8x1	404-612	404-603	404-611

\* For more information, → page 14.

# SKF MonoFlex relubrication distributors of product series 370

## General

SKF MonoFlex single-line distributors of product series 370 are 2-, 3-, and 5-port relubrication distributors for MonoFlex single-line centralized lubrication systems for oil lubrication. These single-line distributors are designed for installation directly on the machine/system requiring lubrication. SKF MonoFlex single-line distributors of product series 370 can be ordered with fittings for the main line connection. This can be indicated on the order by selecting the corresponding letter for the desired fitting in the order code.

The available metered quantities are in a range from 0,05 – 1,50 cm<sup>3</sup>. The metering nipples have a mark indicating the metered quantity. The metering nipples are made of brass. The lubrication point line can be connected to the single-line distributor using SKF quick connectors or solderless pipe connections (DIN 3862). Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected is 4 mm. The lubrication point outlet can be closed using a locking pin (SKF quick connector) or a screw plug with a flat washer (solderless pipe connection). The metering nipples can be replaced later to yield different metered quantities.

The components made of elastomers inside the multi-port single-line distributors are made of NBR.

The distributor body is made of zinc die-cast. Holes to secure the multi-port relubrication distributors to the machine/system are cast in the distributor body.

The main line connection on the distributor body has an M12x1 tapped bore. Various fittings, from SKF quick connectors to screw plugs, that are matched to the thread size of the main line connection are available.

See the following pages for further information on product series 370. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

**Metering nipple**



**Distributor body 372**



**Distributor body 373**



**Distributor body 375**



**Lubrication point line connection VS (SKF plug connector)**



**Lubrication point line connection 00 (for solderless pipe connection per DIN 3862)**



**!** The following main line fittings B–X can be mounted both on the left and the right of the distributor body. The configurator on the following page allows specification of a single-line distributor with main line fittings in a single order code.

**B, C, D**  
Straight adapter (DIN 3862) with flat washer



**E, F**  
Banjo fitting (DIN 3862) with flat washer, lockable



**H**  
Screw plug with flat washer



**M, N, P, R**  
Straight adapter with EO-2 functional nut



**S, T**  
Straight adapter with SKF quick connector



**W, X**  
Banjo fitting with SKF quick connector, not lockable



# SKF MonoFlex relubrication distributors of product series 370

## Configurator

Order code

3

7

-

2

-

-

Product series

Number of metering points (2, 3, 5)

Design and metered quantity

Design code	2	2
Lubricant	Oil	Oil
∅ lubrication point line [mm]	4	4
Distributor body material	Zinc die-cast	Zinc die-cast
Metering nipple material	Brass	Brass
Elastomer material	NBR	NBR
Lubrication point line connection	VS	00
Metered quantity code		
0,05	3	3
0,10	4	4
0,20	5	5
0,40	6	6
0,60	7	7
1,00	8	8
1,50	9	9

Code

Design of lubrication point line connection  
(VS = SKF quick connectors, 00 = solderless pipe connection)

Metering point 1

Metering point 2

Metering point 3  
(0 = not present, on 372)

Metering point 4  
(0 = not present, on 372, 373)

Metering point 5  
(0 = not present, on 372, 373)

Metered quantity code

Code for fittings for main line connection on left

Code for fittings for main line connection on right

Order example

**372-2VS-55000-BB**

- Two-port single-line distributor for oil
- NBR design
- Lubrication point line connection using SKF quick connector for pipe ∅ 4 mm,
- Metered quantity for ports 1 and 2 = 0,20 cm<sup>3</sup>
- Main line fitting left and right = straight adapter (DIN 3862) with flat washer for pipe ∅ 6 mm

**Fittings for main line connection**

Description	∅ main line [mm]	Code
Straight adapter DIN 3862 with flat washer <sup>1)</sup>	6	<b>B</b>
	8	<b>C</b>
	10	<b>D</b>
Banjo fitting DIN 3862 with flat washer, lockable <sup>1) 2)</sup>	6	<b>E</b>
	8	<b>F</b>
Screw plug with flat washer	–	<b>H</b>
Straight adapter with EO-2 functional nut	6	<b>M</b>
	8	<b>N</b>
	10	<b>P</b>
	12	<b>R</b>
Straight adapter with SKF quick connector	6	<b>S</b>
	8	<b>T</b>
Banjo fitting with SKF quick connectors	6	<b>W</b>
	8	<b>X</b>
Without fitting, solderless pipe connection <sup>1)</sup>	–	<b>Z</b>

<sup>1)</sup> Solderless pipe connection according to DIN 3862 (operating pressure max. 45 bar)

<sup>2)</sup> Banjo bolt only inserted in delivery condition, not tightened

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# SKF MonoFlex relubrication distributors of product series 370

## Technical data

### Product series 370

Lubricant	Metered quantity [cm <sup>3</sup> ]	Lubrication point line connection	Operating pressure [bar]		Relief pressure [bar]	Operating temperature [°C]
Mineral and synthetic oil 20 – 2 000 mm <sup>2</sup> /s; compatible with zinc die-cast, NBR, brass, steel	0,05 – 1,5	00 VS	min.	max.	≤ 1 ≤ 1	-25 to +80 -25 to +80
			20	40		
			20	80		

### Mark on metering nipple

Metered quantity [cm <sup>3</sup> ]	Mark
0,05	0,05
0,10	0,1
0,20	0,2
0,40	0,4
0,60	0,6
1,00	1,0
1,50	1,5

## Accessories

### Order numbers for metering nipples\* (replaceable)

ø lubrication point line [mm]	Elastomer material	Metered quantity [cm <sup>3</sup> ]						
		0,05	0,10	0,20	0,40	0,60	1,00	1,50
4	NBR	<b>V72-005</b>	<b>V71-010</b>	<b>V71-020</b>	<b>V71-040</b>	<b>V71-060</b>	<b>V71-100</b>	<b>V71-150</b>

\* Metering nipples are made of brass.

### Fittings for metering nipples

Description	ø lubrication point line [mm]	Pipe thread	Order number		
A	B	C			
Screw plug with flat washer for solderless pipe connection	4	M8x1	<b>404-011.U1</b>	–	–
Locking pin (A) for SKF quick connectors	4	–	<b>450-204-002</b>	–	–
Solderless pipe connection for metal pipeline* consisting of socket union (A) and double cone sleeve (B)	4	M8x1	<b>404-002</b>	<b>404-001</b>	–
Solderless pipe connection for plastic pipes* consisting of socket union (A), reinforcing socket (B), and tapered sleeve (C)	4	M8x1	<b>404-612</b>	<b>404-603</b>	<b>404-611</b>

\* For more information, → page 14.

# SKF MonoFlex dynamic distributors of product series 361

## General

SKF MonoFlex single-line distributors of product series 361 are single-port dynamic distributors for MonoFlex single-line centralized lubrication systems for oil and fluid grease lubrication. These single-line distributors are designed for installation in manifolds. The combination of these single-line distributors with 1- to 6-port manifolds provides flexible options for designing the lubrication system on the machine/system requiring lubrication. Manifolds customized for product series 361 are available in an aluminum design.

The available metered quantities are in a range from 0,01 – 0,20 cm<sup>3</sup>. The distributor bodies have a mark indicating the metered quantity. Depending on the minimum actuating pressure, the single-line distributors can only be used for oil (minimum actuating pressure of 8 bar) or for oil and fluid grease (minimum actuating pressure of 25 bar). The lubrication point line is connected to the dynamic distributor using a tapered sleeve union consisting of a tapered sleeve and a union nut. Lubrication point lines can be connected that are made of metal pipe, plastic pipe, or hose lines with metal pipe connectors. The diameter of the lubrication point line that will be connected is 4 mm.

The components made of elastomers inside the single-port single-line distributor are made of NBR.

Product series 361



Manifold VL




The distributor body of the design for oil is made of brass. The design for oil/fluid grease has a distributor body made of steel (galvanized, Cr6-free). The seal of the internal thread for mounting the single-port single-line distributor in a manifold is available in a flat washer design.

See the following pages for further information on product series 361. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

### Note on structure of a single-line centralized lubrication system:

MonoFlex single-line centralized lubrication systems with dynamic distributors can be equipped with a 4/2 directional control valve. The single-line centralized lubrication system must be designed such that the main line is preloaded to approx. 6 bar when the lubrication unit is running. For the lubrication procedure, the 4/2 directional control valve is switched so that the dynamic distributors are suddenly pressurized. This layout allows a significant increase in the lubrication cycle frequency, as required, for example, for chain lubrication when using small chain links or at high chain speeds. This allows lubrication cycle frequencies of up to 5 cycles/second to be achieved using low-viscosity lubricants.

 The configurator on the following page **does not** allow specification of manifolds and distributors in a single order code. The manifolds are listed under Accessories and must be ordered separately.

# SKF MonoFlex dynamic distributors of product series 361

## Configurator

**Order code**

361- 00- 0000- 00

Product series

Number of metering points (1)

**Design and metered quantity**

	1	2
Design code		
Lubricant	Oil, fluid grease	Oil
∅ lubrication point line [mm]	4	4
Distributor body material	Steel, galvanized	Brass
Metering nipple material	Steel, galvanized	Brass
Elastomer material	NBR	NBR
Threaded seal material	Flat washer*	Flat washer*
Lubrication point line connection	00	00
Metered quantity code		
Metered quantity [cm <sup>3</sup> ]	0,01	0,01
	0,02	0,02
	0,03	0,03
	0,05	0,05
	0,10	0,10
	0,20	0,20

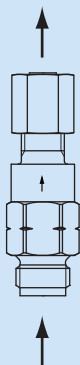
Design code

Design of lubrication point line connection (00 = tapered sleeve union)

Metered quantity code

\* Flat washer must be ordered separately. Order number: **504-019**

### Order example

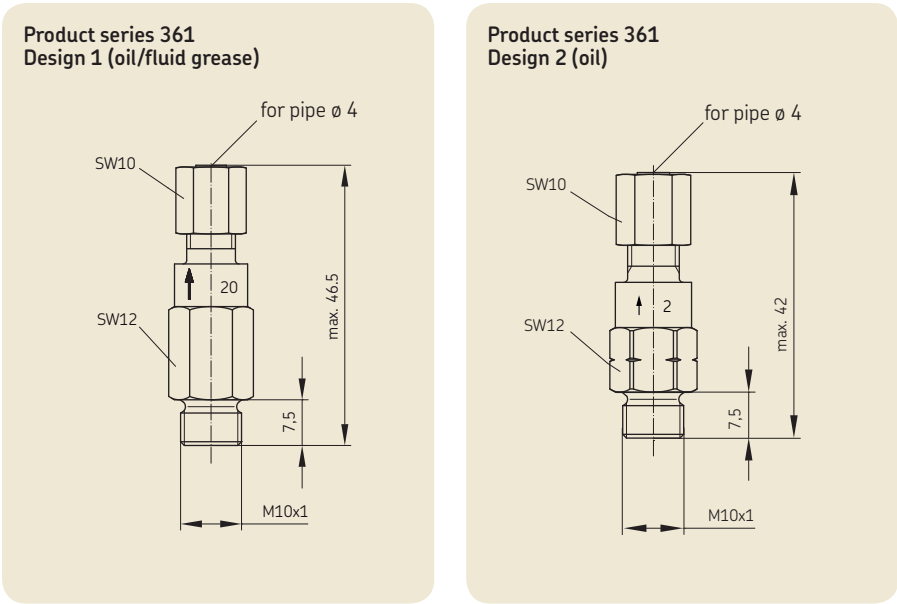


#### 361-200-20000-00

- Single-port single-line distributor for oil
- NBR design
- Lubrication point line connection as tapered sleeve union for pipe ∅ 4 mm
- Metered quantity = 0,02 cm<sup>3</sup>
- With flat washer seal on internal thread

# SKF MonoFlex dynamic distributors of product series 361

## Dimensions



## Technical data

Product series 361					
Lubricant	Metering quantity [cm <sup>3</sup> ]	Operating pressure [bar]		Relief pressure [bar]	Operating temperature [°C]
		min.	max.		
Mineral and synthetic oil 100 – 1 000 mm <sup>2</sup> /s and fluid grease of NLGI Grade 000, 00; compatible with NBR, brass, steel	0,01 – 0,20	25	80	≤ 1	0 – 80
Mineral and synthetic oil 10 – 500 mm <sup>2</sup> /s; compatible with NBR, brass, steel	0,02 – 0,10	8	40	max. 3	0 – 80

Mark on metering nipple	
Metered quantity [cm <sup>3</sup> ]	Mark
0,01	1
0,02	2
0,03	3
0,05	5
0,10	10
0,20	20

Tightening torque for assembly		
Distributor	Seal	Tightening torques [Nm]
361-xxx-x0000-00	Flat washer	10

# SKF MonoFlex dynamic distributors of product series 361

## Manifolds for product series 361

**Order code**

**V** **L** - **A**

**Product series**

**Number of ports**

**01** = 1 screw-in point      **04** = 4 screw-in points  
**02** = 2 screw-in points      **05** = 5 screw-in points  
**03** = 3 screw-in points      **06** = 6 screw-in points  
**(other numbers of ports available on request)**

**Design of distributor pipe thread**

**E** = Small profile, M10x1 with counterbore for flat washer  
**G** = Normal profile, M10x1 with counterbore for flat washer

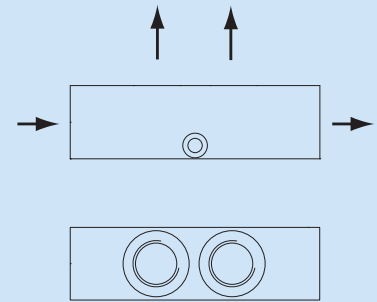
**Material**

**A** = Aluminum

**Design of main line connection**

**G1** = G1/8 per DIN 3862, Form X, schmal  
**G2** = G1/4 per DIN 3862, Form X, schmal  
**M3** = M10x1 with counterbore for solderless pipe connection per DIN 3862 (→ page 14)  
**M4** = M14x1 with counterbore for solderless pipe connection per DIN 3862 (→ page 14)  
**(can only be selected for normal profile)**

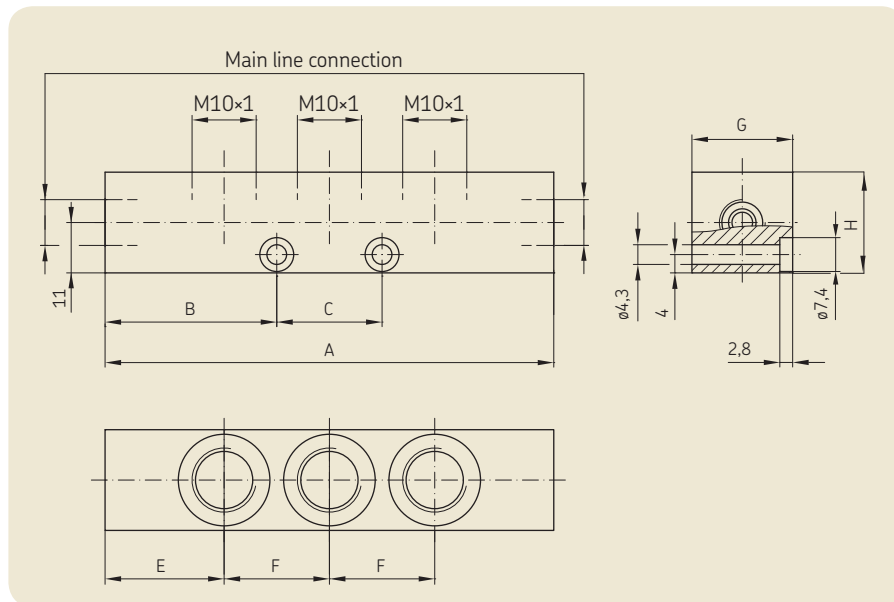
### Order example



#### VL-02BAM3

- Product series VL
- 2 ports
- Normal profile made of aluminum
- M10x1 internal thread with counterbore for flat washer
- M10x1 main line connection with counterbore for solderless pipe connection per DIN 3862

## Dimensions



### Normal profile G

#### Main line connection M10x1

Number of ports	Maße [mm]	A	B	C	E	F	G	H
1	40	20	-	20	-	22	22	
2	57	28,5	-	20	1x17	22	22	
3	74	28,5	17	20	2x17	22	22	
4	91	28,5	34	20	3x17	22	22	
5	108	28,5	51	20	4x17	22	22	
6	125	28,5	60	20	5x17	22	22	

### Normal profile G

#### Main line connection M14x1,5

Number of ports	Maße [mm]	A	B	C	E	F	G	H
1	52	26	-	26	-	22	22	
2	69	34,5	-	26	1x17	22	22	
3	86	34,5	17	26	2x17	22	22	
4	103	34,5	34	26	3x17	22	22	
5	128	34,5	51	26	4x17	22	22	
6	137	34,5	68	26	5x17	22	22	

### Small profile E

#### Main line connection M10x1

Number of ports	Maße [mm]	A	B	C	E	F	G	H
1	41	20,5	-	20,5	-	18	20	
2	58	29	-	20,5	1x17	18	20	
3	75	37,5	-	20,5	2x17	18	20	
4	92	29	34	20,5	3x17	18	20	
5	109	29	51	20,5	4x17	18	20	
6	126	29	68	20,5	5x17	18	20	

### Normal profile G

#### Main line connection G1/8

Number of ports	Maße [mm]	A	B	C	E	F	G	H
1	34	17	-	17	-	22	22	
2	51	25,5	-	17	1x17	22	22	
3	68	25,5	17	17	2x17	22	22	
4	85	25,5	34	17	3x17	22	22	
5	102	25,5	51	17	4x17	22	22	
6	119	25,5	68	17	5x17	22	22	

### Normal profile G

#### Main line connection G1/4

Number of ports	Maße [mm]	A	B	C	E	F	G	H
1	46	23	-	23	-	22	22	
2	63	31,5	-	23	1x17	22	22	
3	80	31,5	17	23	2x17	22	22	
4	97	31,5	34	23	3x17	22	22	
5	114	31,5	51	23	4x17	22	22	
6	131	31,5	68	23	5x17	22	22	





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CAD models for products shown in this brochure can be downloaded at:  
**[skf-lubrication.partcommunity.com](http://skf-lubrication.partcommunity.com)**

### Additional brochures for further information

<i>1-0103-EN</i>	<i>Fittings and Accessories</i>
<i>1-0116-EN</i>	<i>Filters</i>
<i>1-1202-EN</i>	<i>Gear pump units product series MFE</i>
<i>1-1203-EN</i>	<i>Gear pump units product series MKx</i>
<i>1-1701-EN</i>	<i>Pressure Switches Product series DSA, DSB, DSC, DSD</i>
<i>1-3030-EN</i>	<i>Reservoir pump units of the KFG (S)(C) series</i>
<i>1-9201-EN</i>	<i>Transport of Lubricants in Centralized Lubrication Systems</i>

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