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 cm³, is fed to the connected lubrication points.

The product group of SKF MonoFlex singleline 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 mm²/s, for fluid greases of NLGI Grade 000, 00, and O, 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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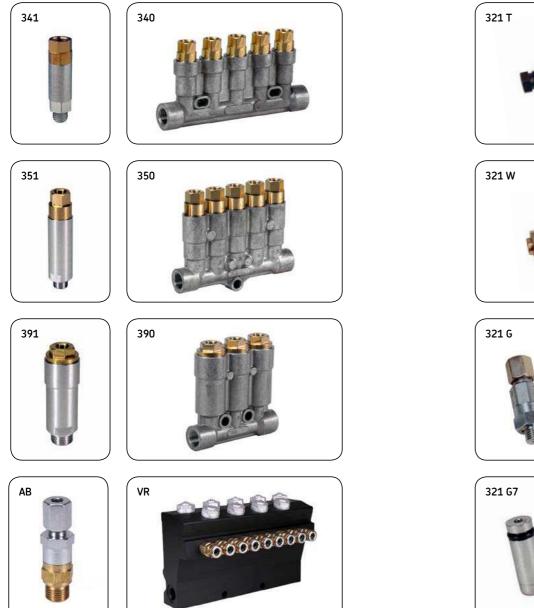
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Product overview

SKF MonoFlex prelubrication distributors

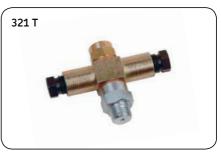


SKF MonoFlex relubrication distributors





SKF MonoFlex prelubrication distributors for direct connection to the lubrication point













SKF MonoFlex dynamic distributors



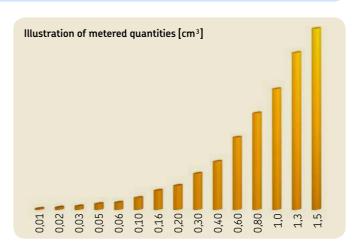
Selection table

SKF MonoFlex single-line distributors

Product	Lubricant	Distributor type	Elastomer	Number of	Relief			Me	tere	d qu	ianti	ity [d	cm³]			Page
series			material	metering points	pressure ≤[bar]	0,01	0,03	0,05	0,10 0.10	0,16	0,20	0,40	0,60	0,80	1,00 1.30	1,50	
AB	Oil Fluid grease ²⁾	Prelubrication distributor Prelubrication distributor	FKM (FPM) FKM (FPM)	1 1	3 3	•••	•	•	•		•	•	•				22 22
341	Oil Fluid grease ²⁾	Prelubrication distributor Prelubrication distributor	NBR/FKM (FPM) NBR/FKM (FPM)		1 (3) ¹⁾ 3	••	•	•	•	•							26 26
340	Oil Fluid grease ²⁾	Prelubrication distributor Prelubrication distributor	NBR/FKM (FPM) NBR	2, 3, 5 2, 3, 5	1 (3) ¹⁾ 3	• •	•	•	•	•							30 30
351	Oil Fluid grease ²⁾	Prelubrication distributor Prelubrication distributor	NBR/FKM (FPM) NBR/FKM (FPM)		1 3			•	•		•	•	•				34 34
350	Oil Fluid grease ²⁾	Prelubrication distributor Prelubrication distributor	NBR/FKM (FPM) NBR/FKM (FPM)		1 3			•	•		•	•	•				38 38
391	Oil Fluid grease	Prelubrication distributor Prelubrication distributor	NBR/FKM (FPM) NBR	1 1	1 7				•		•	•	•	•	•	•	42 42
390	Oil Fluid grease	Prelubrication distributor Prelubrication distributor	NBR/FKM (FPM) NBR	2, 3 2, 3	1 7				•		•	•	•	•	•	•	46 46
VR	Fluid grease Grease	Prelubrication distributor Prelubrication distributor	FKM (FPM) FKM (FPM)	1-12 1-12	30/70 30/70				•		•	•	•	•	•		50 50
321 G	Oil/fluid grease ²⁾	Prelubrication distributor	NBR	1	3	•	•	•	•								54
321 T	Oil/fluid grease ²⁾	Prelubrication distributor	NBR	1	3	•	•	•	•								54
321 W	Oil/fluid grease ²⁾	Prelubrication distributor	NBR	1	3	•	•	•	•								54
321 Module	Oil/fluid grease ²⁾	Prelubrication distributor	NBR	1	3	•	•	•									54
321 G4	Oil/fluid grease ²⁾	Prelubrication distributor	NBR	1	3		•	•	•								54
321 G7	Oil/fluid grease ²⁾	Prelubrication distributor	NBR/FKM (FPM)	1	3		•	•	•	•	••						54
VN	Fluid grease ²⁾	Relubrication distributor	NBR	2, 4, 6	1			•	•		••	•	•	•	•		58
370	Oil	Relubrication distributor	NBR	2, 3, 5	1			•	•		•	•	•	•	•	•	62
361	Oil Fluid grease ²⁾	Dynamic distributor Dynamic distributor	NBR NBR	1 1	1 3	•••	•	•	•		•						66 66

 $^{1)}$ Relief pressure of 3 bars is only valid for the metered quantity 0,01 cm 3 and 0,02 cm 3 $^{2)}$ 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.



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SKF MonoFlex single-line distributors

Description of functional types

Introduction

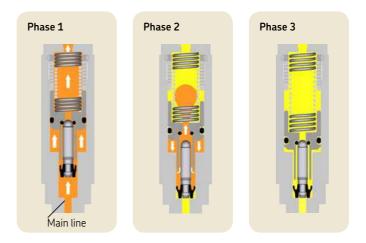
SKF MonoFlex single-line distributors are utilized in intermittently operated SKF MonoFlex centralized lubrication systems. Single-line centralized lubrication systems are total-loss lubrication systems.

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

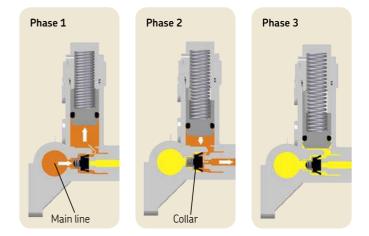
Description of functional types

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 springloaded 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

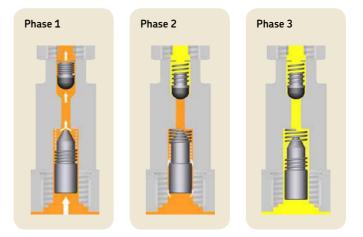
Dynamic distributor

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

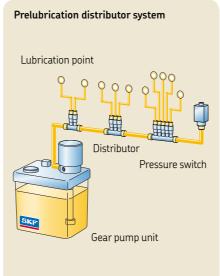
Prelubrication, relubrication, and dynamic distributor system

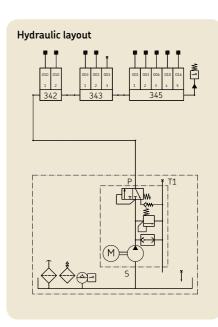
SKF MonoFlex single-line centralized lubrication systems with single-line distributors generally consist of a lubrication unit, the single-line distributors, and the lubrication lines. The pressure regulating valve and pressure relief valve required for the singleline centralized lubrication system's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

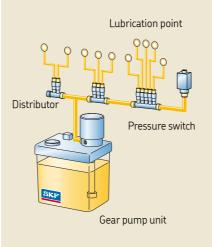
The lubrication unit run time specified by the control unit or machine control unit ensures pressure build-up in the single-line centralized lubrication system. Pressure in the main line must be relieved after the lubrication unit is switched off to ensure proper functioning of the single-line distributors.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

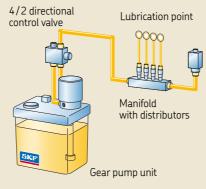


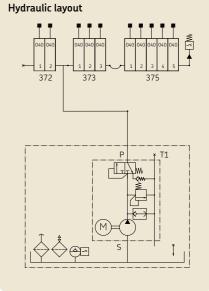


Relubrication distributor system



Dynamic distributor system





Hydraulic layout

SKF MonoFlex system structure

Important notes

<u> Marning</u>

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.

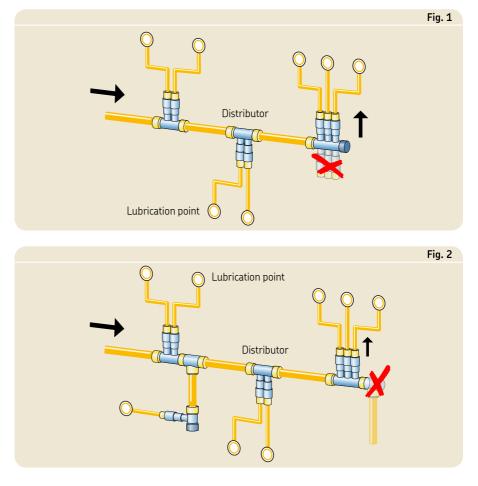
Lubricants can contaminate soil and bodies of water. Lubricants must be used and disposed of properly. Observe the local regulations and laws regarding the disposal of lubricants.

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**.

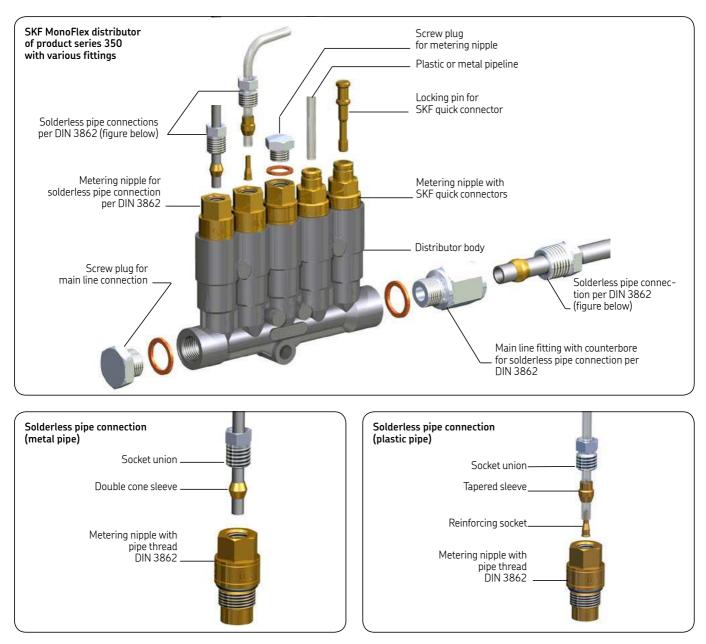
The pipelines, hoses, shutoff valves and directional control valves, fittings, etc. that will be used must be designed for the maximum operating pressure of the lubrication unit, the permissible temperatures, and the lubricants that will be delivered.



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.

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 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 guick 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.

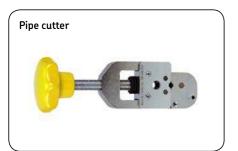
SKF quick connectors are suitable for constructing the entire lubrication system, from the lubrication unit to the single-line distributors, pressure switches, etc. to the lubrication points.

Rubber protective caps for SKF quick connectors				
Line diameter [mm]	Order number		Lubrica	
4	898-110-077		Operat	
6	898-110-082		Tempe	
			Seal m	

uick connectors - Technical data ant Oil, fluid grease, grease iting pressure max. 300 bar erature range -40 to +80 °C NBR or FKM (FPM) naterial

SKF pipe cutters

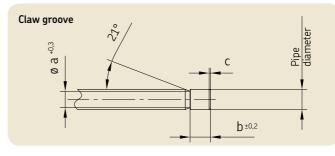
A pipe cutter can be used to cut the metal pipe to length in one step and to produce the exact geometric shape of the claw groove.





Ordering information for pipe cutter									
Pipe diameter [mm] 4	6	8						
Order number Pipe cutter	169-000-336	169-000-337	169-000-338						
Order number Cutting ring	844-330-006	844-330-007	844-330-007						

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

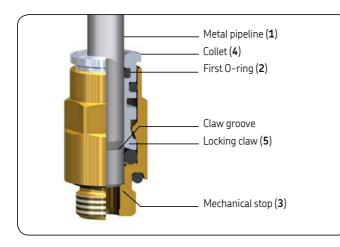


Claw groove dimensions

Pipe diameter [mm]	4	6	8
А	3,1	4,9	6,9
В	5,0	6,2	6,2
С	0,3 – 0,7	0,4 - 0,9	0,5 – 0,9

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SKF quick connectors



Metal pipeline assembly

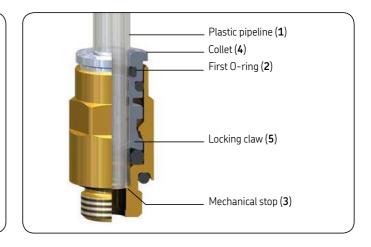
The metal pipe can be assembled with or without a claw groove. The claw groove securely fastens the metal pipe in the quick connector, which prevents the metal pipe from slipping out of the SKF quick connector. The claw groove does not need to be used if an appropriate fastening material (e.g., mounting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

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



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.

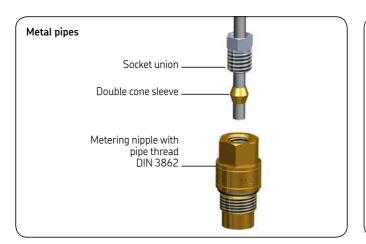
To disassemble the plastic pipe (1), press the collet (4) inward into the SKF quick connector. To do this, press the plastic pipe (1) inward into the SKF quick connector, which releases the collet (4) from the plastic pipe (1). The plastic pipe (1) can now be pulled out of the collet (4) of the SKF quick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

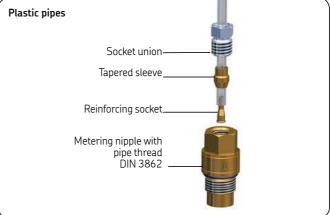
Before reassembling, shorten the end of the plastic pipe by at least 7 mm so that the locking claw of the collet functions properly.

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





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.

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

Pipe and hose lines



Plastic pipes

Depending on the application, SKF Mono-Flex 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.



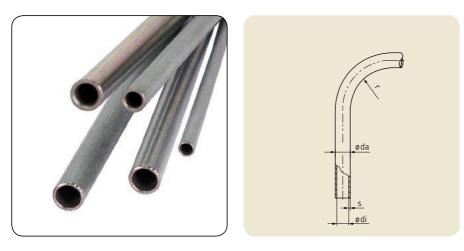
External pipe diameters of 6, 8, 10 mm and larger are typically used for main lines and secondary lines; external pipe diameters of 2,5 and 4 mm are used for lubrication point lines.

Pipe and hose lines in comparison

Туре	Operating temperature [°C]	Permissible operation pressure [bar] ¹⁾
Steel pipelines	-25 to +80	Up to 500
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

 $^{\mbox{\tiny 1)}}$ The permissible operation pressure depends on the pipe diameter.

Steel pipes



Steel pipes

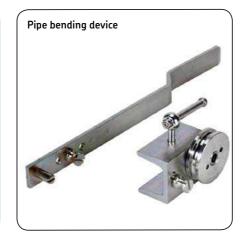
Order number	ø da [mm]	s [mm]	ø di [mm]	Minimum bend radius r ¹⁾ [mm]	Permissible oper. pressure [bar]	Burst pressure [bar]
Steel pipe galvanized, Cr6-free WV-R06×0.7 VERZI WV-R08×0.7 VERZI WV-R010×0.7 VERZI	6 ±0.05 8 ±0.05 10 ±0.05	0.7 0.7 0.7	4.6±0.11 6.6±0.11 8.6±0.13	12 19 27	320 230 180	850 675 550
Steel pipe acc. to EN10305-4, galvanize 982-120-041 982-120-040 982-120-060 982-120-080 982-120-100 982-120-120 982-120-150 982-120-180	ed, Cr6-free 4 ±0.05 4 ±0.08 6 ±0.08 8 ±0.08 10 ±0.08 12 ±0.08 15 ±0.08 18 ±0.08	0.7 1.0 1.0 1.0 1.5 1.5 1.5	$\begin{array}{c} 2.6 \pm 0.10 \\ 2 \pm 0.15 \\ 4 \pm 0.12 \\ 6 \pm 0.10 \\ 8 \pm 0.08 \\ 9 \pm 0.10 \\ 12 \pm 0.08 \\ 15 \pm 0.08 \end{array}$	12 12 18 24 30 36 45 54	368 500 372 288 248 303 248 209	952 1 360 963 723 612 765 612 510
Stainless steel pipe (material 1.4301/1. D1127R02.5x0.5+A46 DIN2462-R04×1+A46 DIN2462-R06×1+A46 DIN2462-R08×1+A46 DIN2462-R010×1+A46	4306) 2.5±0.03 4±0.1 6±0.1 8±0.1 10±0.1	0.5 1 1 1 1	1.5+0.05 2 ±0.2 4 ±0.2 6 ±0.2 8 ±0.2	7.5 12 18 24 30	386 466 347 269 231	1 664 2 080 1 473 1 105 936

Temperature range –25 to +80 °C ¹⁾ For cold bending with bending device or by hand with grooved disk. ²⁾ Dynamic load according to DIN 2413

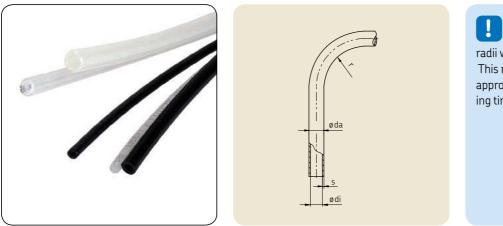
Pipe bending device

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

¹⁾ 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 ²⁾ Retro fitting set with grooved disk for older pipe bending devices 248-803.20



Plastic pipes



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

Plastic pipes WVN715, semirigid (unplasticized)

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

¹⁾The permissible operating pressure is lower at higher temperatures (→ the Pressure utilization factor table). ²⁾ If resistance to light-aging is desired, add the word "BLACK" in the order number (example = WVN715-R08x1,25x50M BLACK).

Plastic pipes WVN716, flexible (plasticized)

Order number ²⁾	ø da ^{±0,1} [mm]	s [mm]	ø di ^{+0,15} [mm] ^{-0,05}	Minimum ben freely bent	d radius r [mm] with device	Permiss. oper. pressure ¹⁾ 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

¹⁾The permissible operating pressure is lower at higher temperatures (→ the Pressure utilization factor table). ²⁾ 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

V

V

WVN715	PA 12 H Polyamide, semirigid, unplasticized as per DIN 73378, stabilized against heat and aging	PA 1 Polya as pe light,
WVN716	PA 12 PH Polyamide, flexible, plasticized as per DIN 73378, stabilized against heat and aging	PA 1 Polya as pe light,

Temperature range -60 to +80 °C

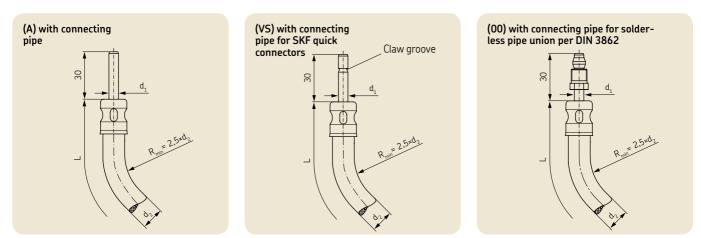
PA 12 HL (black)

Polyamide, semirigid, unplasticized as per DIN 73378, stabilized against ight, heat, and aging

PA 12 PHL (black) Polyamide, flexible, plasticized as per DIN 73378, stabilized against ight, heat, and aging

-60 to +80 °C

Low-pressure hose lines for main lines and secondary lines



Ordering information

Permissible oper. pressure [bar]	Operat temper min	ing rature [°C] max	d ₁ ø connecting pipe (mm)	d ₂ ø hose outside [mm]	ø hose internal [mm]	Length L* ±5 [mm]	Order number Design A	Design VS	Design 00
45	-40	100	4	11	3,2	180 260 300 400 500 600	714-180 714-260 714-300 714-400 714-500 714-600	714-180-VS 714-260-VS 714-300-VS 714-400-VS 714-500-VS 714-600-VS	714-180-K 714-260-K 714-300-K 714-400-K 714-500-K 714-600-K
			6	13	4,5	180 260 300 400 500 600	716-180 716-260 716-300 716-400 716-500 716-600	716-180-VS 716-260-VS 716-300-VS 716-400-VS 716-500-VS 716-600-VS	716-180-K 716-260-K 716-300-K 716-400-K 716-500-K 716-600-K
			8	15	6,5	180 260 300 400 500 600	718-180 718-260 718-300 718-400 718-500 718-600	718-180-VS 718-260-VS 718-300-VS 718-400-VS 718-500-VS 718-600-VS	718-180-K 718-260-K 718-300-K 718-400-K 718-500-K 718-600-K

* Additional lengths on request

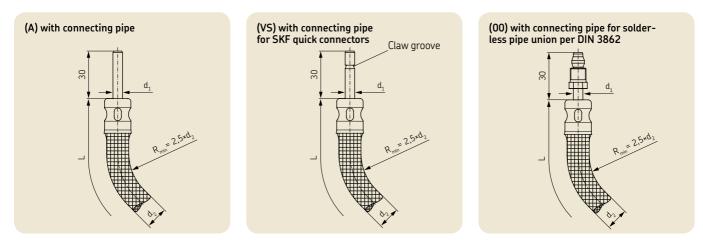


Material	
Hose	Chloroprene - mineral oil- resistant inner liner, two braided rayon inserts, outer liner partially oil-resistant, resistant to sun-cracking, and ozone-resistant
Connecting pipe ends	Steel pipe, galvanized, Cr6-free

Volume increase

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

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



Ordering information

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

* Additional lengths on request

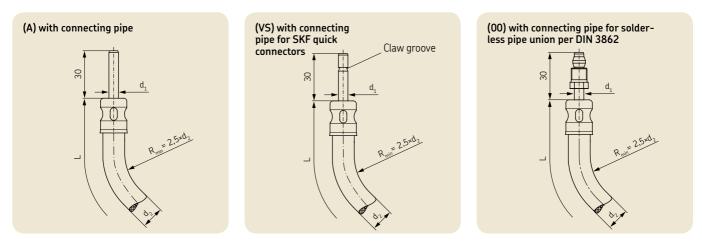


Material	
Hose	Chloroprene - mineral oil- resistant inner liner, two braided rayon inserts, outer liner partially oil-resistant, resistant to sun-cracking, and ozone-resistant
Metal braid	Steel wire, galvanized, Cr6-free
Connecting pipe ends	Steel pipe, galvanized, Cr6-free

Volume increase	Vol	lume	increase	
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At pressure	Volume increase
[bar]	[cm³/m]
30	2,5 3,6 4,4

Low-pressure hose lines for lubrication point lines



Ordering information

Permissible oper. pressure [bar]	Operat tempe min	ing rature [°C] max	d ₁ ø connecting pipe [mm]	d ₂ ø hose outside [mm]	ø hose internal [mm]	Length L* ±5 [mm]	Order number Design A	Design VS	Design 00
15	-40	70	4	8,8	3,2	180 260 300 400 500 600	734-180 734-260 734-300 734-400 734-500 734-600	734-180-VS 734-260-VS 734-300-VS 734-400-VS 734-500-VS 734-600-VS	734-180-К 734-260-К 734-300-К 734-400-К 734-500-К 734-600-К

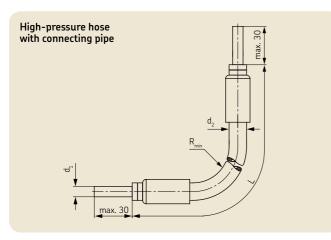
* Additional lengths on request



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

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High-pressure hose lines



Ordering information

Permissible oper. pressure [bar]	Operat temper min	ing rature [°C] max	d ₁ ø connecting pipe [mm]	Minimum bend radius R _{min} [mm]	d ₂ ø hose outside [mm]	ø hose internal [mm]	Length L* ±5 [mm]	Order number
175	-40	100	10	44	14,5	7,9	180 250 300 400 500 600 700 800	SLH10-180 SLH10-250 SLH10-300 SLH10-400 SLH10-500 SLH10-600 SLH10-700 SLH10-800
210	-40	100	8	32	13	6,3	180 250 300 400 500 600 700 800	SLH8-180 SLH8-250 SLH8-300 SLH8-400 SLH8-500 SLH8-600 SLH8-700 SLH8-800
225	-40	100	6	19	11	4,8	180 250 300 400 500 600 700 800	SLH6-180 SLH6-250 SLH6-300 SLH6-400 SLH6-500 SLH6-600 SLH6-700 SLH6-800

* Additional lengths on request



MaterialInner hosePolyester elastomersReinforcementHigh-tensile synthetic fiber braidOuter hosePolyurethaneConnecting pipe endsSteel pipe, galvanized, Cr6-free

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 singleline 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 cm³. 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.



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.

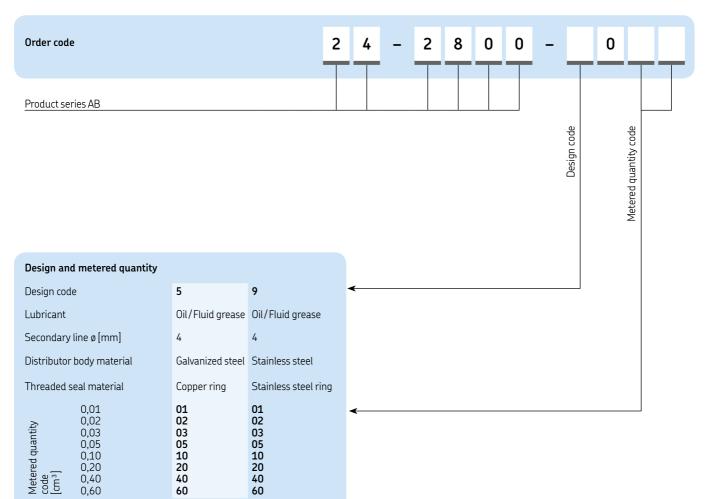
Technical data

Lubricant	Metering [cm ³]	Opera pressi min.	iting ure [bar] max.	Relief pressure [bar]	Operating temperature [°C]
Mineral and synthetic oil 20 to 1 000 mm²/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

Configurator



Order example



0,10 0,20 0,40

0,60

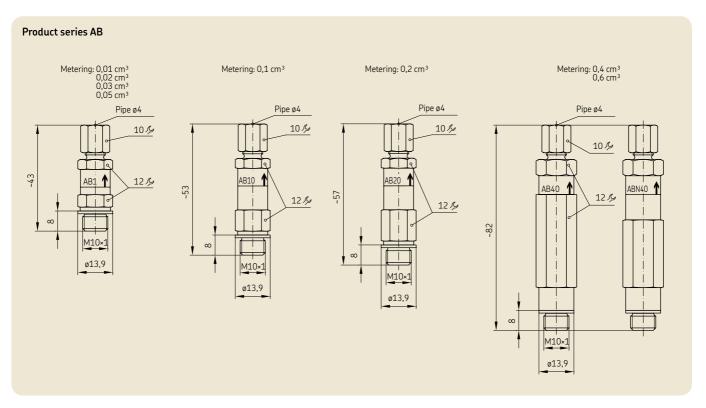
24-2800-9010

60

- Single-port single-line distributor or oil and fluid grease
 Stainless steel
 Metering 0,1 cm³

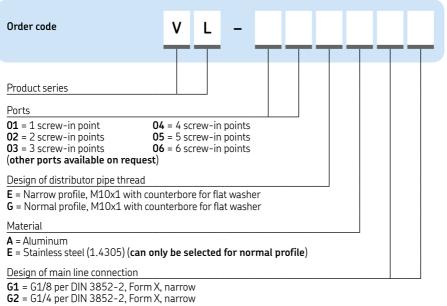
- Seal: Stainless steel ring ٠

Dimensions



Mark		
Metering	Design ma	rk
[cm ³]	Galvanized	steel Stainless steel
0,01	AB1	ABN1
0,02 0,03	AB2 AB3	ABN2 ABN3
0,05 0.10	AB5 AB10	ABN5 ABN10
0,20	AB20	ABN20
0,40 0.60	AB40 AB60	ABN40 ABN60
0,00	1000	ABITO0

Manifolds for product series AB

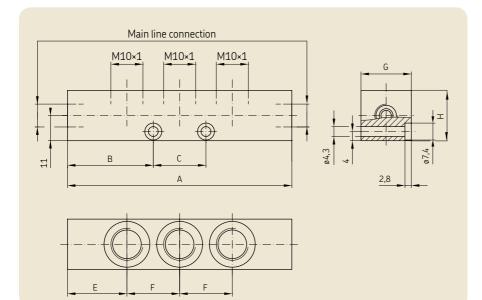


M3 = M10x1 with counterbore for solderless pipe union per DIN 3862

M4 = M14x1.5 with counterbore for solderless pipe union per DIN 3862

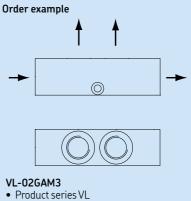
(can only be selected for normal profile)

Dimensions



Narrov Main li	ne coi			n]			
Ports	А	В	С	E	F	G	Н
1	41	20,5	_	20,5	_	18	20
2	58	29	_	20,5	1×17	18	20
3	75	37,5	-	20,5	2×17	18	20
4	92	29	34	20,5	3×17	18	20
5	109	29	51	20,5	4×17	18	20
6	126	29	68	20,5	5×17	18	20

Normal profile G Main line connection G1/8 Dimensions [mm]									
Ports	A	В	С	Е	F	G	Н		
1 2 3 4 5 6	34 51 68 85 102 119	25,5 25,5 25,5 25,5 25,5	- 17 34 51	17 17 17 17 17	- 1×17 2×17 3×17 4×17 5×17	22 22 22	22 22		



- 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

Normal profile G Main line connection M10x1 Dimensions [mm]									
Ports	А	В	C	Ē	F	G	Н		
1	40	20	_	20	_	22	22		
2	57	28,5	-	20	1×17	22	22		
3	74	28,5	17	20	2×17	22	22		
4	91	28,5	34	20	3×17	22	22		
5	108	28,5	51	20	4×17	22	22		
6	125	28,5	68	20	5×17	22	22		

Norma Main li	ne con				5		
Ports	A			Ē	F	G	Н
1	52	26	_	26	_	22	22
2	69	34,5	-	26	1×17	22	22
3	86	34,5	17	26	2×17	22	22
4	103	34,5	34	26	3×17	22	22
5	128	34,5	51	26	4×17	22	22
6	137	34,5	68	26	5×17	22	22

Normal profile G Main line connection G1/4 Dimensions [mm]									
Ports	А	В	С	Е	F	G	Н		
1 2 3	46 63 80		-	23	- 1×17 2×17		22 22 22		
5 4 5 6	97 114 131	31,5 31,5	34 51	23 23	3×17 4×17 5×17	22 22	22 22 22 22		

General

SKF MonoFlex single-line distributors of product series 341 are single-port prelubrication distributors for SKF MonoFlex singleline centralized lubrication systems for oil and fluid grease lubrication. These singleline 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 cm³. 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 cm³ 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 aluminium 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 Oring) 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.



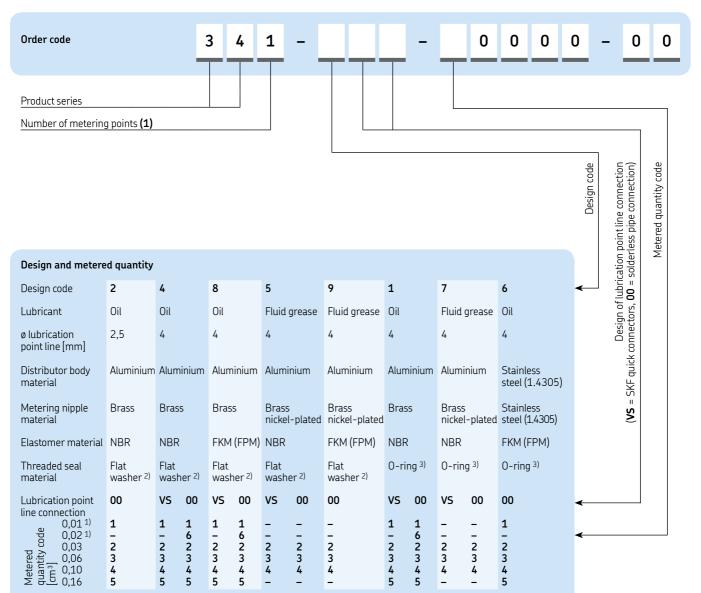
Technical data

Product series 341	Metered quantity [cm³]	Metering nipple	Operat pressu min.	ing re [bar] max.	Relief pressure [bar]	Operating temperature [°C]
Mineral and synthetic oil 20 – 2 000 mm²/s; compatible with steel, FKM (FPM)/NBR,	0,01-0,02	00 VS	12 12	45 80	max. 3 max. 3	0-80 0-80
brass	0,03 – 0,16	00 VS	6 6	45 80	≤1 ≤1	0 – 80 0 – 80
Fluid grease of NLGI Grade 000, 00; compatible with steel, FKM (FPM)/NBR, brass	0,03 – 0,10	00 VS	12 12	45 80	max. 3 max. 3	0 – 80 0 – 80

Tightening torque for assembly									
Distributor	Seal	Tightening torques [Nm]							
341-xxx-x0000-00	0-ring	2,5							
341-xxx-x0000-00	Flat washer	6							

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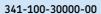
Configurator



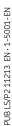
¹⁾ Subsequent modification of the metered quantity is not technically possible.
 ²⁾ Flat washer must be ordered separately. Order number: DIN7603-A8x11.5-CU
 ³⁾ O-ring is part of the shipment

T

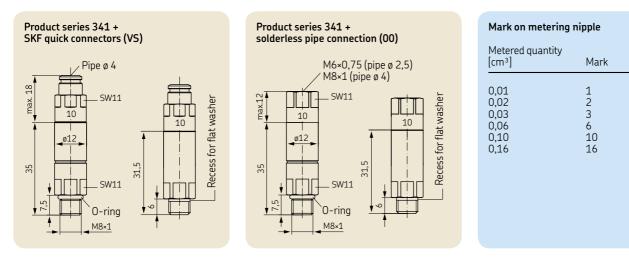
Order example



- Single-port single-line
- distributor for oil
- NBR design
- Lubrication point line connection per DIN 3862 for pipe ø 4 mm
- Metered guantity 0.06 cm³
- O-ring seal on internal thread



Dimensions



Accessories

Order numbers for metering nipples for oil (replaceable)									
ø lubrication point line [mm]	Metering nipple material	Elastomer material	Metering nipple	Metered quantity [c 0,03	m³] 0,06	0,10	0,16		
2,5 4 4 4 4 4 4	Brass Brass Brass Brass Brass Stainless steel (1.4305)	NBR NBR NBR FKM (FPM) FKM (FPM) FKM (FPM)	00 VS 00 VS 00 00	995-994-003 995-994-103-VS 995-994-103 341-453-S8-VS 341-453-K-S8 341-453-K-S81	995-994-006 995-994-106-VS 995-994-106 341-456-S8-VS 341-456-K-S8 341-456-K-S81	995-994-010 995-994-110-VS 995-994-110 341-460-S8-VS 341-460-K-S8 341-460-K-S81	995-994-016 995-994-116-VS 995-994-116 341-466-S8-VS 341-466-K-S8 341-466-K-S81		

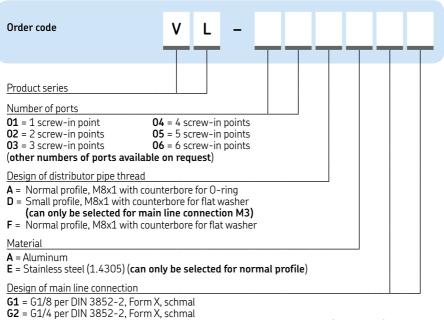
Order numbers for metering nipples for fluid grease (replaceable)

ø lubrication point line [mm]	Metering nipple material	Elastomer material	Metering nipple	Metered quantity [cm³] 0,03	0,06	0,10
4	Brass, nickel-plated	NBR	VS	341-853-VS	341-856-VS	341-860-VS
4	Brass, nickel-plated	NBR	00	341-853-К	341-856-K	341-860-K
4	Brass, nickel-plated	FKM (FPM)	00	341-853-K-S8	341-856-K-S8	341-860-K-S8

Fittings for metering nipples

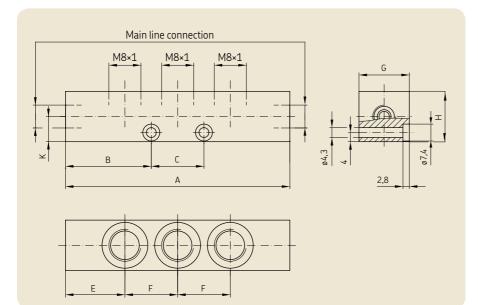
Description	ø lubrication point line [mm]	Pipe thread	Order number A	В	С
Screw plug with flat washer for solderless pipe connection	2,5 4	M6x0,75 M8x1	402-011.U1 404-011.U1	-	-
Locking pin (A) for SKF quick connectors	4	-	450-204-002	-	-
Solderless pipe connection for metal pipeline* consisting of socket union (A) and double cone sleeve (B)	2,5 4	M6x0,75 M8x1	402-002 404-002	402-001 404-001	-
Solderless pipe connection for plastic pipe* consisting of socket union (A), reinforcing socket (B), and tapered sleeve (C)	2,5 4	M6x0,75 M8x1	402-612 404-612	402-603 404-603	402-611 404-611
* For more information, → page 14.					

Manifolds for product series 341



- $M3 = M10x1 \text{ with counterbore for solderless pipe connection per DIN 3862 (<math>\rightarrow$ page 14) M4 = M14x1,5 with counterbore for solderless pipe connection per DIN 3862 (\rightarrow page 14)
- (can only be selected for normal profile)

Dimensions



Small profile D Main line connection M10x1 Number Dimensions [mm] of ports A B C E F G H K									
	A	<u> </u>	<u> </u>			<u> </u>			
1	39	19.5	_	20.5	_	13	17	10.5	
2	52	26	_	20.5	1×13	13	17	10.5	
3	65	32.5	_	20.5	2×13	13	17	10.5	
4	78	39	_	20.5	3×13	13	17	10.5	
5	91	45.5	_	20.5	4×13	13	17	10.5	
6	104	26	52	20.5	5-13	13	17	10.5	

Normal Main lin Number of ports	e co Dim	nnect ensio	tion ns (1	mm]	G	Н	К
1 2 3 4 5 6	49 64 79 94	24.5 24.5 24.5 24.5 24.5	- 15 30 45	17 17 17 17 17	- 2×15 3×15 4×15 5×15	22 22 22 22 22 22	22 22 22 22 22 22	11 11 11 11 11

Order e	example	
-	Ø	-
	$\bigcirc \bigcirc$	
VL-02	AAM3	

- 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

Main lir	Normal profile A/F Main line connection M10×1 Number Dimensions [mm]							
of ports						G	н	К
1	40	20	-	20	-	22	22	11
2	55	27.5	-	20	1×15	22	22	11
3	70	27.5	15	20	2×15	22	22	11
4	85	27.5	30	20	3×15	22	22	11
5	100	27.5	45	20	4×15	22	22	11
6	115	27.5	60	20	5×15	22	22	11

Main lin	Normal profile A/F Main line connection M14×1.5 Number Dimensions [mm]							
of ports	А	В	C	E	F	G	Н	К
1	48	24	_	24	_	22	22	11
2	63	31.5	-	24	1×15	22	22	11
3	78	31.5	15	24	2×15	22	22	11
4	93	31.5	30	24	3×15	22	22	11
5	108	31.5	45	24	4×15	22	22	11
6	123	31.5	60	24	5×15	22	22	11

Main lin	Normal profile A/F Main line connection G1/4 Number Dimensions [mm]							
of ports	А	В	C.	Е	F	G	Н	Κ
1	46	23	_	23	_	22	22	11
2	61	30.5	_	23	1×15	22	22	11
3	76	30.5	15	23	2×15	22	22	11
4	91	30.5	30	23	3×15	22	22	11
5	106	30.5	45	23	4×15	22	22	11
6	121	30.5	60	23	5×15	22	22	11

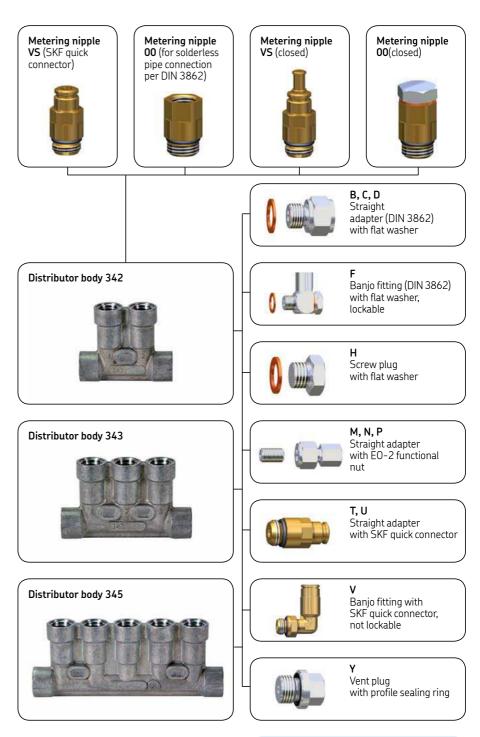
General

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 singleline 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 cm³. 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 guick 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 cm³ 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 diecast. Holes to secure the multi-port singleline 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.



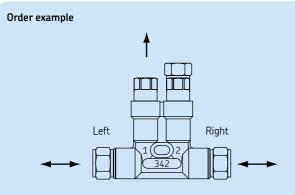
See the following pages for further information on product series 340. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

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.

Configurator

Order code		:	3 4			_						-	_	
Product series														
Number of metering p	oints (2, 3	, 5)								343)	343)			
					Code letter	Design of lubrication point line connection SKF quick connectors, 00 = solderless pipe connection)	Metering point 1	Metering point 2	Metering point 3 = not present, on 342)	Metering point 4 = not present, on 342, 3	g point 5 on 342,		Code for fittings for main line connection on left	Code for fittings for main line connection on right
Design and metered o	quantity					it line pipe o	Meter	Meter	Meter	Meter preser	Metering not present,		onnec	nnecti
Design code	2	4	8	5	◄┘	n poin erless			= not j	= not j	= not j		line c	ne coi
Lubricant	Oil	Oil	Oil	Fluid grease		icatio = sold	l		Ö	Ö			main	nain li
Lubrication point line [mm]	2,5	4	4	4		n of lubr ors , 00 :							tings for	ngs for n
Distributor body material	Zinc die-cast	Zinc die-cast	Zinc die-cast	Zinc die-cast		Desig < connect			tity code				de for fit	e for fitti
Metering nipple material	Brass	Brass	Brass	Brass, nickel-plated		SKF quicl			Metered quantity code				C	Cod
Elastomer material	NBR	NBR	FKM (FPM)	NBR		(VS = 2			Meter					
Lubrication point line connection	00	VS 00	VS 00	VS 00	*	2								
0,01 ¹⁾ 0,02 ¹⁾ 0,03 0,00 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0	1 - 2 3 4	1 1 - 6 2 2 3 3 4 4 5 5	1 1 - 6 2 2 3 3 4 4 5 5	 2 2 3 3 4 4	*									
0,00 0,10 0,10 0,16 W b Closed ²) ¹⁾ Subsequent modification of	5 V	v v	v v	v v		Fittin Descr	gs for main lin	ne con	nectior	1	ø main [mm]	line	Со	do

 $^{2)}$ V = Metered quatity of 0,03 cm³, closed



342-400-2V000-BB

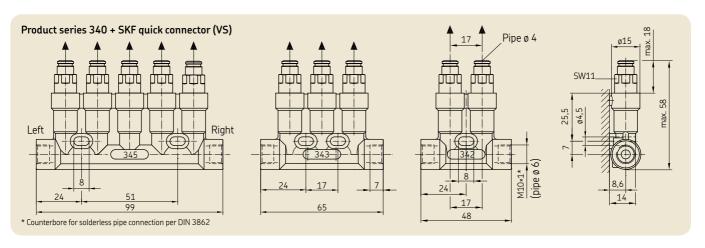
- Two-port single-line distributor for oil
- NBR design
- Lubrication point line connection per DIN 3862 for pipe ø 4 mm,

- Metered quantity for port 1 = 0,03 cm³
 Metered quantity for port 2 = 0,03 cm³, closed
 Main line fitting left and right = straight adapter (DIN 3862) with flat washer for pipe ø 6 mm

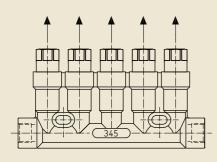
Description	ø main line [mm]	Code
Straight adapter DIN 3862 with flat washer ¹⁾	6 8 10	B C D
Banjo fitting DIN 3862 with flat washer, lockable ^{1) 2)}	6	F
Screw plug with flat washer	-	н
Straight adapter with EO-2 functional nut	6 8 10	M N P
Straight adapter with SKF quick connector	6 8	T U
Banjo fitting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

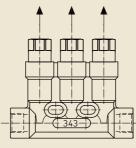
Solderless pipe connection according to DIN 3862 (operating pressure max. 45 bar)
 Banjo bolt only inserted in delivery condition, not tightened

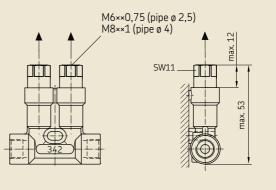
Dimensions



Product series 340 + solderless pipe connection (00)







14 17 19 14

12 22 23 8

14 17 19

17 17 17 - -

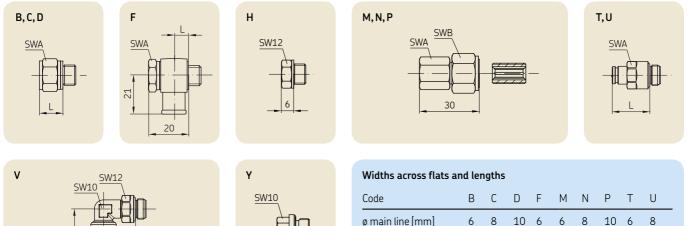
For missing dimensions, → product series 340 + SKF quick connector (VS).

Fittings for main line connection

(→ page 26 for exact designation)

26

<u>15</u> 22



SWA

SW B

Length L [mm]

PUB LS/P2 11213 EN · 1-5001-EN

12 14

21 27

Technical data

Product series 340						
Lubricant	Metered quantity [cm³]	Metering nipple	Operati pressur min.		Relief pressure [bar]	Operating tempera- ture [°C]
Mineral and synthetic oil 20 – 2 000 mm²/s; compatible with zinc die-cast, FKM (FPM)/	0,01-0,02	00 VS	12 12	45 80	max. 3 max. 3	0-80 0-80
NBR, brass, steel	0,03 - 0,16	00 VS	6 6	45 80	≤1 ≤1	0-80 0-80
Fluid grease of NLGI Grade 000, 00; compatible with zinc die-cast, NBR, brass, steel	0,03 - 0,10	00 VS	12 12	45 80	max. 3 max. 3	0-80 0-80

Mark on metering n	Mark on metering nipple					
Metered quantity [cm³]	Mark					
0,01 0,02 0,03 0,06 0,10 0,16	1 2 3 6 10 16					

Accessories

Order numbers	Order numbers for metering nipples for oil (replaceable)									
ø lubrication point line [mm]	Metering nipple material	Elastomer material	Metering nipple	Metered quantity [cm 0,03	1 ³] 0,06	0,10	0,16			
2,5 4 4 4 4	Brass Brass Brass Brass Brass	NBR NBR NBR FKM (FPM) FKM (FPM)	00 VS 00 VS 00	995-994-003 995-994-103-VS 995-994-103 341-453-58-VS 341-453-K-S8	995-994-006 995-994-106-VS 995-994-106 341-456-S8-VS 341-456-K-S8	995-994-010 995-994-110-VS 995-994-110 341-460-S8-VS 341-460-K-S8	995-994-016 995-994-116-VS 995-994-116 341-466-S8-VS 341-466-K-S8			

Order numbers for metering nipples for fluid grease (replaceable)

ø lubrication point line [mm]	Metering nipple material	Elastomer material	Metering nipple	Metered quantity [cm³] 0,03	0,06	0,10
4	Brass, nickel-plated	NBR	VS	341-853-VS	341-856-VS	341-860-VS
	Brass, nickel-plated	NBR	00	341-853-K	341-856-K	341-860-К

Fittings for metering nipples

Description	ø lubrication point line [mm]	Pipe thread	Order number A	В	С
Screw plug with flat washer for solderless pipe connection	2,5 4	M6x0,75 M8x1	402-011.U1 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) double cone sleeve (B)	2,5 4	M6x0,75 M8x1	402-002 404-002	402-001 404-001	-
Solderless pipe connection for plastic pipe* consisting of socket union (A), reinforcing socket (B), and tapered sleeve (C)		M6x0,75 M8x1	402-612 404-612	402-603 404-603	402-611 404-611
* For more information, → page 14.					

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 singleline 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 cm³. 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 singleport 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.



Technical data

Produ	ct s	eries	351
11000		CIICS	334

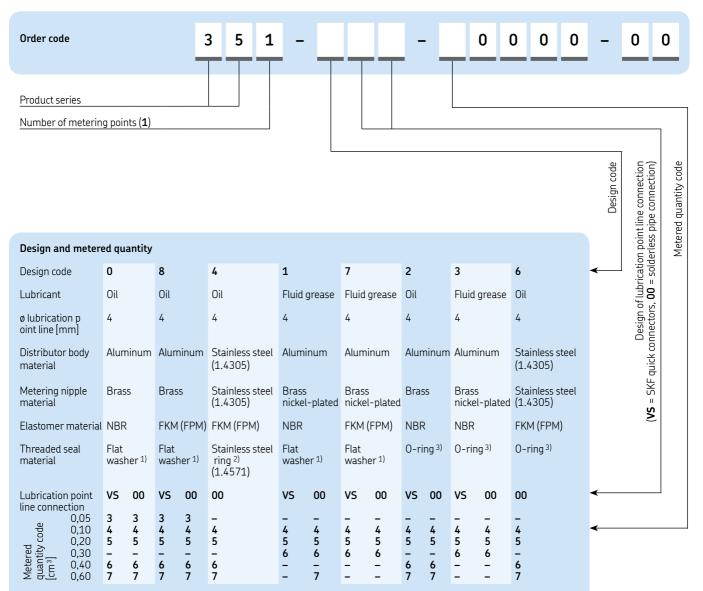
Lubricant	Metered quantity [cm³]	Metering nipple	Operat pressu min.	ing re [bar] max.	Relief pressure [bar]	Operating temperature [°C]
Mineral and synthetic oil 20 – 2 000 mm²/s; compatible with aluminum, FKM (FPM)/NBR, brass, steel	0,05 – 0,60	00 VS	6 6	45 80	≤1 ≤1	0 – 80 0 – 80
Fluid grease of NLGI Grade 000, 00; compatible with aluminum, FKM (FPM)/NBR, brass	0,10 - 0,60	00 VS	12 12	45 80	max. 3 max. 3	0 - 80 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

PUB LS/P2 11213 EN · 1-5001-EN

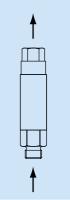
Configurator



¹⁾ Flat washer must be ordered separately. Order number: **504-019**

²⁾ Stainless steel ring must be ordered separately. Order number: 99-1031-7603
 ³⁾ O-ring is part of the shipment

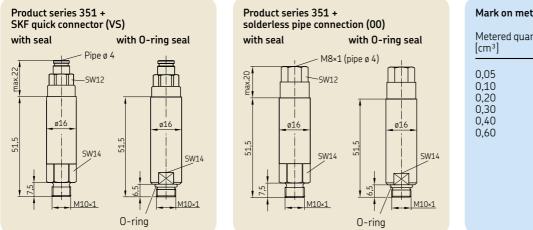
Order example



351-100-70000-00 · Single-port singleline distributor for fluid grease • NBR design

- Lubrication point line connection per DIN 3862 for pipe ø 4 mm
- Metered quantity 0.60 cm³
- With flat washer seal on internal thread

Dimensions



Mark on metering nipple

Markon metering	прре
Metered quantity [cm³]	Mark
0,05 0,10 0,20 0,30 0,40 0,60	0,05 0,1 0,2 0,3 0,4 0,6

Accessories

Order numbers for metering nipples for oil (replaceable)

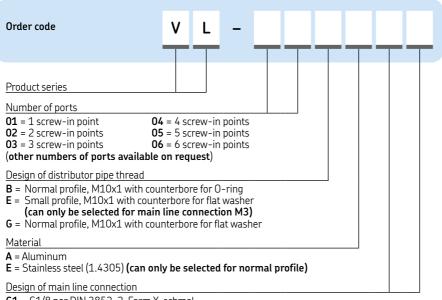
	Metering nipple material	Elastomer material	Metering nipple	Metered quantity [0,05	cm³] 0,10	0,20	0,40	0,60
4 4 4 4	Brass Brass Brass Brass Stainless steel (1.4305)	NBR NBR FKM (FPM) FKM (FPM) FKM (FPM)	00 VS 00 VS 00	352-005-K 352-005-VS 352-005-K-S8 352-005-S8-VS -	352-010-K 352-010-VS 352-010-K-S8 352-010-S8-VS 352-010-K-S3	352-020-K 352-020-VS 352-020-K-S8 352-020-S8-VS 352-020-K-S3	352-040-K 352-040-VS 352-040-K-S8 352-040-S8-VS 352-040-K-S3	352-060-K 352-060-VS 352-060-K-S8 352-060-S8-VS 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 0,10	³] 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-582	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	-

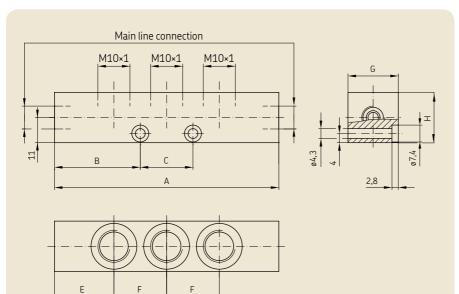
Fittings for metering nipples					
Description	ø lubrication point line [mm]	Pipe thread	Order number A	В	С
Screw plug with flat washer for solderless pipe connection	4	M8x1	404-011.U1	-	-
Locking pin (A) for SKF quick connectors	4	-	450-204-002	-	-
Solderless pipe connection for metal pipeline* consisting 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)		M8x1	404-612	404-603	404-611
* For more information. → page 14.					

Manifolds for product series 351



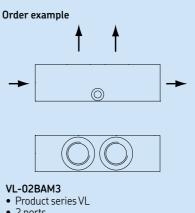
- **G1** = G1/8 per DIN 3852-2, Form X, schmal **G2** = G1/4 per DIN 3852-2, Form X, schmal
- $M3 = M10x1 \text{ with counterbore for solderless pipe connection per DIN 3862 (<math>\rightarrow$ page 14) M4 = M14x1,5 with counterbore for solderless pipe connection per DIN 3862 (\rightarrow page 14)
-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





Small pr Main lin Number of ports	e con Maße	nectio e (mm]		F	G	Н	
1	41	20,5			_			
2 3	58 75				1×17 2×17			
4	92	29			3×17			
5	109				4×17			
6	126	29	68	20 5	5×17	18	20	

Normal p Main line Number of ports	conr Dim	ectior	s (m	m]	F	G	Н
1 2 3 4 5 6	51 68 85 102	25,5 25,5 25,5 25,5	- 17 34 51	17 17 17 17	- 1×17 2×17 3×17 4×17 5×17	22 22 22 22 22	22 22 22 22 22



- 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

Normal profile B/G Main line connection M10x1 Number Dimensions [mm] of ports A B C E F G H											
of ports	A	В	L	F	F	G	Н				
1 2 3 4 5	57 74 91 108	28,5 28,5 28,5 28,5 28,5	- 17 34 51	20 20 20 20 20	- 1×17 2×17 3×17 4×17 5×17	22 22 22 22 22	22 22 22 22 22 22				

Normal p Main line Number	conn Dim	ection ension	s (mi	m]			
of ports	A	В	C	F	F	G	Н
1 2	69	34,5	-	26	- 1×17	22	22
3	86	34,5	17	26	2×17	22	22
4	103	34,5	34	26	3×17	22	22
5	128	34,5	51	26	4×17	22	22
6	137	34,5	68	26	5×17	22	22

Normal p Main line Number of ports	conr Dim	ectior	s [m	m]	F	G	Н
1 2 3 4	63 80 97	31,5 31,5 31,5 31,5	- 17 34	23 23 23	- 1×17 2×17 3×17	22 22 22 22	22 22 22 22
5 6					4×17 5×17		

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 singleline 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 cm³. 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 guick 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 diecast. Holes to secure the multi-port singleline 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.



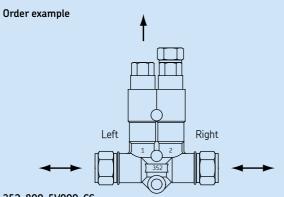
See the following pages for further information on product series 350. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

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.

Configurator

Order code			3 5								-		
Product series Number of meter	ing points (2	, 3, 5)			Code ction :tion)	11	t 2	t 3 2)	t 4 2, 353)	t 5 2, 353)		eft	ght
Design and mete	ered quantit	y 8	1	7	SKF quick connectors, 00 = solderless pipe connection	Metering point 1	Metering point 2	Metering point 3 not present, on 352)	Metering point 4 not present, on 352, 353)	Metering point 5 = not present, on 352,		Code for fittings for main line connection on left	Code for fittings for main line connection on right
Design Lubricant ø lubrication	Oil 4	Oil 4	Fluid grease	Fluid grease 4	ubrication po 0 = solderlee			ou = 0)	ou = 0)	ou = 0)		for main line	or main line c
point line [mm] Distributor body material	Zinc die-cast	Zinc die-cast	Zinc die-cast	Zinc die-cast	Design of connectors, (ode for fitting de for fittings		
Metering nipple material	Brass	Brass	Brass nickel-plate	Brass d nickel-plated	inc ie-cast Design ickel-plated dramtity code SKE draft (FPM)						Č	Code	
Elastomer material	NBR VS 00	FKM (FPM) VS 00	NBR	FKM (FPM) VS 00	(VS = 0			Meter					
Lubrication point line connection	3 3	3 3	v5 UU										
0,10 0,20 0,30	4 4 5 5 	4 4 5 5 	4 4 5 5 6 6	4 4 5 5 6 6								↓ ↓	
0,40 9 0,60 W closed *	6 6 7 7 V V	6 6 7 7 V V	 - 7 V V	 v v	Fitting	gs for main li	ne cont	nection	l	Mainlin			

* V = Metered quatity of 0,20 cm³, closed



352-800-5V000-CC

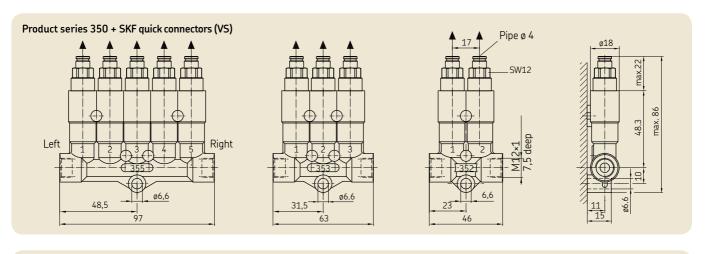
- Two-port single-line distributor for oil
 FPM design
- Lubrication point line connection per DIN 3862 for pipe ø 4 mm,

- 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 ø 8 mm

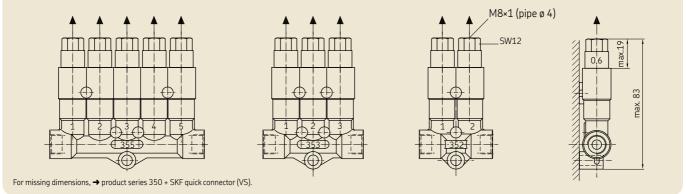
Description	Main line [mm]	Code
Straight adapter DIN 3862 with flat washer ¹⁾	6 8 10	B C D
Banjo fitting DIN 3862 with flat washer, lockable ^{1) 2)}	6 8	E F
Screw plug with flat washer	-	н
Straight adapter with EO-2 functional nut	6 8 10 12	M N P R
Straight adapter with SKF quick connector	6 8	S T
Banjo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

 $^{(1)}$ Solderless pipe connection according to DIN 3862 (operating pressure max. 45 bar) $^{(2)}$ Banjo bolt only inserted in delivery condition, not tightened

Dimensions

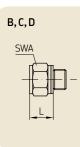


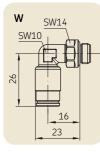
Product series 350 + solderless pipe connection (00)



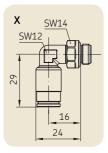
Fittings for main line connection

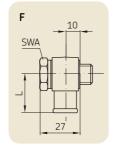
(→ page 34 for exact designation)



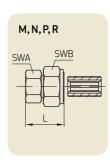


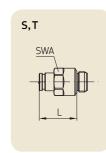
E	9
SWA	





H SW17 6 6





Widths across flats and lengths											
Code	В	С	D	Е	F	М	Ν	Ρ	R	S	Т
ø main line [mm]	6	8	10	6	8	6	8	10	12	6	8
SWA	17	17	19	17	17	14	17	19	22	14	14
SW B	-	-	-	-	-	19	19	19	19	-	-
Length L [mm]	10	20	22	25	27	32	32	31	31	21	26

Technical data

Product series 350	Metered quantity [cm³]	Metering nipple	Operating pressure [bar] min. max.		Relief pressure [bar]	Operating temperature [°C]
Mineral and synthetic oil 20 – 2 000 mm²/s; compatible with zinc die-cast, FKM (FPM)/ NBR, brass, steel	0,05 – 0,60	00 VS	6 6	45 80	≤1 ≤1	0 - 80 0 - 80
Fluid grease of NLGI Grade 000, 00; compatible with zinc die-cast, NBR, brass, steel	0,10 - 0,60	00 VS	12 12	45 80	max. 3 max. 3	0 - 80 0 - 80

Mark on metering nipple											
Metered quantity [cm³]	Mark										
0,05 0,10 0,20 0,30 0,40 0,60	0,05 0,1 0,2 0,3 0,4 0,6										

Accessories

Order numbers f	Order numbers for metering nipples for oil* (replaceable)											
ø lubrication point line [mm]	Elastomer material	Metering nipple	Metered quantity (c 0,05	m³] 0,10	0,20	0,40	0,60					
4 4 4 4	NBR NBR FKM (FPM) FKM (FPM)	00 VS 00 VS	352-005-K 352-005-VS 352-005-K-S8 352-005-S8-VS	352-010-K 352-010-VS 352-010-K-S8 352-010-S8-VS	352-020-K 352-020-VS 352-020-K-S8 352-020-S8-VS	352-040-K 352-040-VS 352-040-K-S8 352-040-S8-VS	352-060-K 352-060-VS 352-060-K-S8 352-060-S8-VS					

* Metering nipples are made of brass.

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

ø lubrication Elast point line [mm] mate	omer Metering erial nipple	Metered quantity [cm³] 0,10	0,20	0,30	0,60
		995-993-610 995-993-610-VS 352-010-K-S82 352-010-S82-VS	995-993-620 995-993-620-VS 352-020-K-S82 352-020-S82-VS	995-993-630 995-993-630-VS 352-030-K-S82 352-030-S82-VS	995-993-660 - - -

* Metering nipples are made of nickel-plated brass

Fittings for metering ninnles

Description	ø lubrication point line [mm]	Pipe thread	Order number A	В	ſ
		ripe thread	~		
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.					

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 singleline 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 cm³. 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 singleline 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.

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

 alu Image: Connection per DIN 3862)

 for Image: Connection per DIN 391

 for Image: Connection per DIN 391

 Distributor body 391
 Image: Connection per DIN 391

 Image: Connection per DIN 391
 Image: Connection per DIN 391

 Image: Connection per DIN 391
 Image: Connection per DIN 391

 Image: Connection per DIN 391
 Image: Connection per DIN 391

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 Image: Connection per DIN 391

 Image: Connection per DIN 391
 Image: Connection per DIN 391

 Image: Connection per DIN 391
 Image: Connection per DIN 391

 Image: Connection

Technical data

Product series 391										
Lubricant	Metered quantity [cm³]	Metering nipple	Operati pressur min.		Relief pressure [bar]	Operating temperature [°C]				
Mineral and synthetic oil 20 – 2 000 mm²/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				

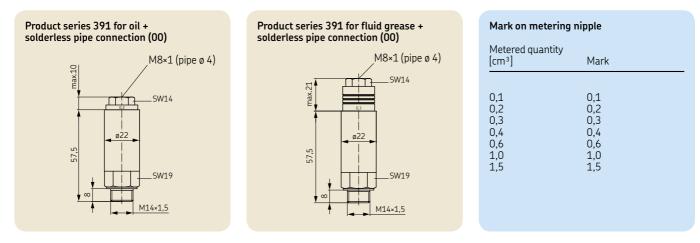
Tightening torque for assembly

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

Configurator

Order code		39	1 -	0	0 –		0	0	0	0	-	0 0
Product series												
Number of metering points	5 (1)											
				Design code	Design of lubrication point line connection (VS = SKF quick connectors, OO = solderless pipe connection)	Metered quantity code						
					on point lir derless pip	Metered						
Design and metered quar		0	1		oricatio = solo							
Design code Lubricant	O Oil	8 Oil	1 Fluid grease		n of lut rs , 00							
ø lubrication point line [mm]	4	4	4		Desigr connecto							
Distributor body material	Aluminum	Aluminum	Aluminum		⁻ quick							
Metering nipple material	Brass	Brass	Brass, nickel-plated		VS = SKF							
Elastomer material	NBR	FKM (FPM)	NBR		<u> </u>							
Threaded seal material	Flat washer*	Flat washer*	Flat washer*									
Lubrication point line connection	00	00	00	←								
0,10 0,20 0,30 0,40 0,60 1,00 1,50	- 5 - 6 7 8 9	- 5 - 6 7 8 9	4 5 6 - -	<								
* Flat washer must be ordered sepa	rately. Order numbe	r: DIN7603-A14x18	S-CU									
Order example	 Sir dis NE Lu pe Me Fla 	- 100-60000- (ngle-port single tributor for fluic R design brication point I r DIN 3862 for etered quantity at washer seal o read	line d grease line connection pipe ø 4 mm 0,30 cm ³									

Dimensions



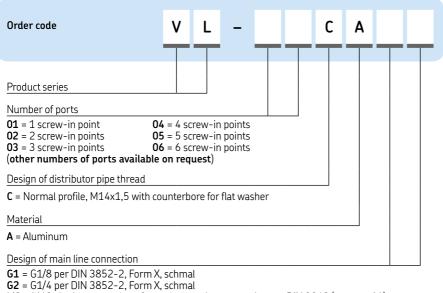
Accessories

Order numbers for metering nipples for oil (replaceable)										
ø lubrication point line [mm]	Elastomer material	Metering nipple material	Metered quantity 0,2	[cm³] 0,4	0,6	1,0	1,5			
4 4	NBR FKM (FPM)	Brass Brass	391-020-К 391-020-К-58	391-040-К 391-040-К-S8	391-060-К 391-060-К-S8	391-100-К 391-100-К-S8	391-150-К-S8 391-150-К-S8			

Order numbers fo	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 [cm³] 0,1	0,2	0,3					
4	NBR	Brass, nickel-plated	391-010-K-S1	391-020-K-S1	391-030-K-S1					

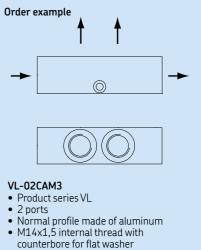
Fittings for metering nipples					
Trangs for metering inpples	ø lubrication		Order number		
Description	point line [mm]	Pipe thread	А	В	С
Screw plug with flat washer for solderless pipe connection	4	M8x1	404-011.U1	-	-
Solderless pipe connection for metal pipeline* consisting of socket union (A) and 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.					

Manifolds for product series 391



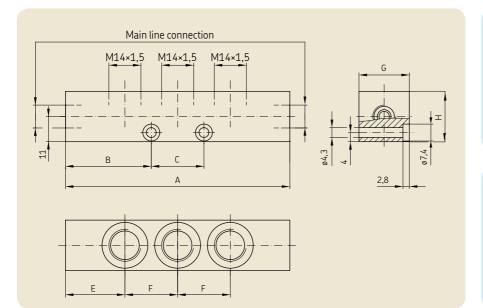
M3 = M10x1 with counterbore for solderless pipe connection per DIN 3862 (\rightarrow page 14)

M4 = M14x1,5 with counterbore for solderless pipe connection per DIN 3862 (\rightarrow page 14)



• M10x1 main line connection with counterbore for solderless pipe connection per DIN 3862

Dimensions



I	Normal Main lin Number	e conr	necti						
(of ports	А	В	Ċ	É	F	G	Н	
	1	54	15	24	27	_	22	22	
	2	64	32	_	20	1×24	22	22	
1	3	88	32	24	20	2×24	22	22	
4	4	112	32	48	20	3×24	22	22	
	5	136	32	72	20	4×24	22	22	
(5	160	32	96	20	5×24	22	22	

Normal Main line Number of ports	conr Dime	ensio		nm]	F	G	Н	
1	64 76	20 38	24		- 1x24	22 22	22 22	
3	100	38	24	26	2×24	22	22	
4	124	38	48	26	3×24	22	22	
5	148	38		26		22	22	
6	172	38	96	26	5×24	22	22	

Normal profile C Main line connection M10x1 Number Dimensions [mm]										
of ports					F	G	Н			
1 2 3 4 5 6	60 70 94 118 142 166	35	24 48 72	29 23 23 23	- 1×24 2×24 3×24 4×24 5×24	22 22 22 22	22 22			

Μ	ormal p ain line umber	e conn	ectio			,5			
of	ports	А	В	C	E	F	G	Н	
1		68	22	24	34	_	22	22	
2		78	39	_	27	1×24	22	22	
3		102	39	24	27	2×24	22	22	
4		126	39	48	27	3×24	22	22	
5		150	39	72	27	4×24	22	22	
6		174	39	96	27	5×24	22	22	

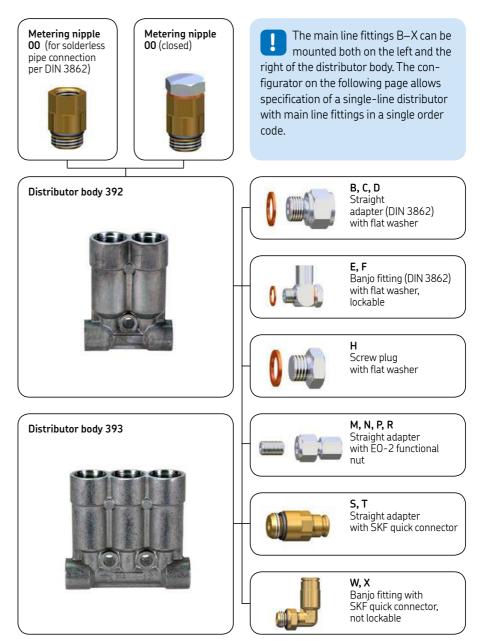
General

SKF MonoFlex single-line distributors of product series 390 are 2- and 3-port prelubrication distributors for MonoFlex singleline centralized lubrication systems for oil and fluid grease lubrication. These singleline 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 cm³. 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 diecast. Holes to secure the multi-port singleline distributors to the machine/system are cast in the distributor body.

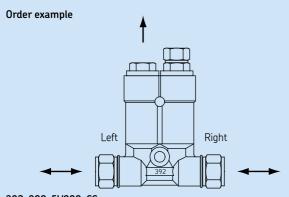


The main line connection on the distributor body has an M12x1 thread. Various fittings, from SKF quick connectors to screw plugs, that are matched to the thread size of the main line connection are available. See the following pages for further information on product series 390. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.

Configurator

Order code		39			0 0	-	Ļ			0	0	-	_	
<u>Product series</u> Number of metering p	oints (2, 3)			Code	ection)		boint 1	boint 2	oint 3 t, on 392)				on left	n right
Design and metered	quantity				าย conne ย conne		Metering point 1	Metering point 2	Metering point 3 not present, on 3				lection	ction o
Design code	0	8	1	-	oint lir ss pip		Me	Me					e conr	conne
Lubricant	Oil	Oil	Fluid grease		ion po derle				<u> </u>				in line	line o
ø lubrication point line [mm]	4	4	4		^r lubricat (00 = sol		L						s for ma	for mair
Distributor body material	Zinc die-cast	Zinc die-cast	Zinc die-cast		Design of lubrication point line connection (00 = solderless pipe connection)			code					Code for fittings for main line connection on left	Code for fittings for main line connection on right
Metering nipple material	Brass	Brass	Brass, nickel-plated					Metered quantity code					Code 1	Code fo
Elastomer material	NBR	FKM (FPM)	NBR					Metered						
Lubrication point line connection	00	00	00	*										
0,10 0,20 0,30 0,40 0,60 1,00 1,50 tosed *	- 5 - 6 7 8 9	- 5 - 6 7 8 9	4 5 6 - - -	*	Fitting	js for ma	in lin	e con	nection				ļ	
E 1,50 E closed *	V	V	v		, recing	,					main li	20		

 * V = Metered quatity of 0,20 cm³, closed



392-800-5V000-CC

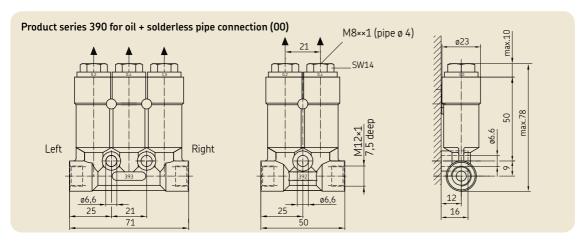
- Two-port single-line distributor for oil
 FPM design

- Lubrication point line connection per DIN 3862 for pipe ø 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 ø 8 mm

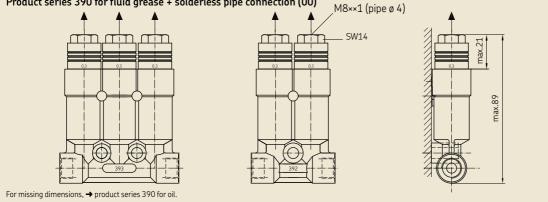
Description	ø main line [mm]	Code
Straight adapter DIN 3862 with flat washer	6 8 10	B C D
Banjo fitting DIN 3862 with flat washer, lockable ¹⁾	6 8	E F
Screw plug with flat washer	-	н
Straight adapter with EO-2 functional nut	6 8 10 12	M N P R
Straight adapter with SKF quick connector	6 8	S T
Banjo fitting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

¹⁾ Banjo bolt only inserted in delivery condition, not tightened

Dimensions

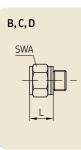


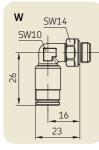
Product series 390 for fluid grease + solderless pipe connection (00)



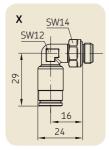
Fittings for main line connection

(→ page 42 for exact designation)

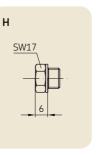


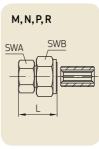


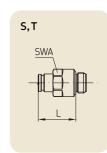
Е	9	
SWA		
	27	



F 10 SWA 27







Widths across flats and lengths											
Code	В	С	D	Е	F	М	Ν	Ρ	R	S	Т
ø main line [mm]	6	8	10	6	8	6	8	10	12	6	8
SWA	17	17	19	17	17	14	17	19	22	14	14
SW B	-	-	-	-	-	19	19	19	19	-	-
Length L [mm]	10	20	22	25	27	32	32	31	31	21	26

Technical data

Product series 390	Metered quantity [cm³]	Metering nipple	Operat pressu min.	ing re [bar] max.	Relief pressure [bar]	Operating temperature [°C]
Mineral and synthetic oil 20 – 2 000 mm²/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 zind die-cast, NBR, brass, steel	0,1 – 0,3 c	00	26	45	max. 7	0-80

Mark on metering nipple						
Metered quantity [cm³]	Mark					
0,1 0,2 0,3 0,4 0,6 1,0 1,5	0,1 0,2 0,3 0,4 0,6 1,0 1,5					

Accessories

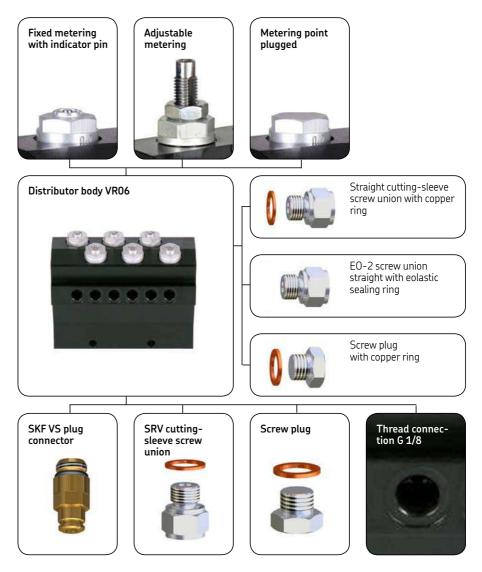
Order numbers for metering nipples for oil (replaceable)								
ø lubrication point line [mm]	Elastomer material	Metering nipple material	Metered quantity 0,2	[cm³] 0,4	0,6	1,0	1,5	
4 4	NBR FKM (FPM)	Brass Brass	391-020-К 391-020-К-S8	391-040-К 391-040-К-58	391-060-К 391-060-К-58	391-100-К 391-100-К-58	391-150-К 391-150-К-S8	

Order numbers fo	Order numbers for metering nipples for fluid grease (replaceable)								
ø lubrication point line [mm]	Elastomer material	Metering nipple material	Metered quantity [cm³] 0,1	0,2	0,3				
4	NBR	Brass, nickel-plated	391-010-K-S1	391-020-K-S1	391-030-K-S1				

Fittings for metering nipples								
Description	ø lubrication point line [mm]	Pipe thread	Order number A	В	С			
Screw plug with flat washer for solderless pipe connection	4	M8x1	404-011.U1	-	-			
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.								

General

SKF MonoFlex single-line distributors of product series VR are 1- to 12-port prelubrication distributors for MonoFlex singleline centralized lubrication systems for fluid grease and grease lubrication with greases up to NLGI Grade 2. SKF MonoFlex singleline 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°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 guantities for SKF MonoFlex VR single-line distributors are in the range from 0,1 to 1,3 cm³. 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 singleline 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 cm³ to 1,1 cm³ and is regulated by the engagement depth of the metering nipple. The adjustable meterings are factory-set to a metered quantity of 1,1 cm³.



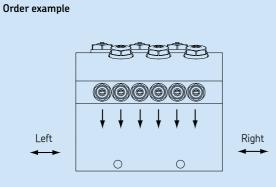
The components made of elastomers inside the single-line distributor are made of FKM (FPM). The distributor body is made from aluminum. The surface is anodized (black color) for long-term protection against corrosion.

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

Order code V F Product series			1	. 2	3	4	5 6	5 7	8	9 :	Code letter	Metered quantity_letter		Code for fittings for main line connection
Design for fluid grease and grease												Meter	= not present, e.g. for VKU6 assign U for metering	for mai
Design code letter	Α	В	С	D	E	F	G	н	Ν	Ρ	◄┘			tings
Max. relief pressure [bar]	30	70	30	70	30	70	30	70	30	70			assigi	for fit
Secondary line connection	G1/8	G1/8	VS	VS	VS	VS	G1/8	G1/8	SRV ¹⁾	SRV ¹⁾			KUD	Code 1
Secondary line ø [mm]	-	-	4	4	6	6	-	-	6	6			. 101 v	0
Corrosivity category ²⁾	C3	C3	C3	C3	C3	C3	C5-M	C5-M	C5-M	C5-M		-	it, e.y	
¹⁾ SRV = cutting-sleeve screw union, see page 2 ²⁾ Corrosivity categories per DIN EN ISO 12944 (ce	rtified by G	ermanischer	Lloyd)										preser	
												-	= not	
Meterings												ç	D	
Metered quantity letter	A 1)	B 1)	D 1)	F 1)	H 1)	J 1)	M 1)	R ²⁾	х		←			
Metering [cm ³]	0,1	0,2	0,4	0,6	0,8	1	1,3	0,1–1,1	L Close	ed				
¹⁾ Fixed metering with indicator pin for visual funct ²⁾ Adjustable metering with indicator pin for visual	ion monitor function mo	ing mitoring												



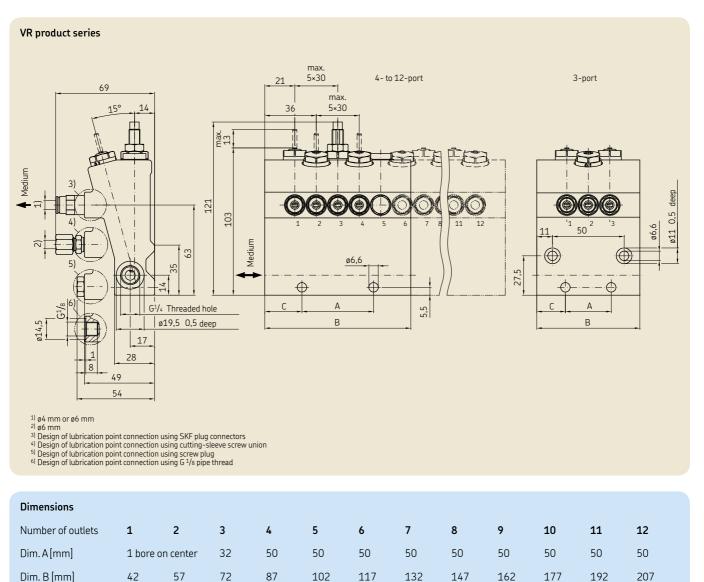
- VR06FFFFFF000000Z Single-line distributor, 6-port
- Relief pressure max. 70 bar
- Lubrication point line connection using SKF plug connector for pipe ø 6 mm
- Metered quantity $1-6 = 0,6 \text{ cm}^3$
- Without fitting for main line connection (G 1/4 thread)

Fittings for main line connection

Left fitting	Right fitting	ø Main line [mm]	Code					
Cutting-sleeve screw union*	Cutting-sleeve screw union*	8 10	A G					
Cutting-sleeve screw union*	Closed	8 10	B H					
Closed	Cutting-sleeve screw union*	8 10	L L					
EO-2 screw union	EO-2 screw union	8 10	D K					
EO-2 screw union	Closed	8 10	E L					
Closed	EO-2 screw union	8 10	F M					
G 1/4	G 1/4	-	Z					
* For cutting-sleeve screw u	* For cutting-sleeve screw union, see page 2							

↓

Dimensions



117

33,5

132

41

147

48,5

162

56

63,5

71

78,5

Dim. C [mm]

21

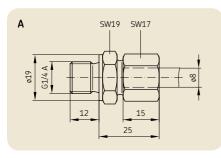
28,5

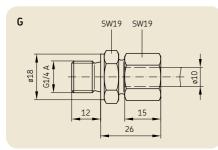
20

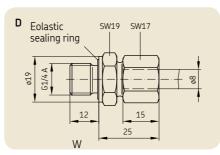
18,5

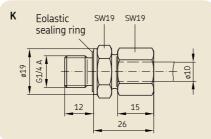
26

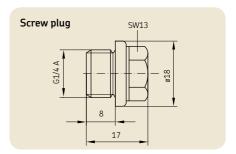
Dimensions - Fittings for main line connection











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 ³]	Mark				
0,1 0,2 0,4 0,6 0,8 1,0 1,3	0,1 0,2 0,4 0,6 0,8 1,0 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

General



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 $0,01 - 0,30 \text{ cm}^3$ 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.









Order numbers

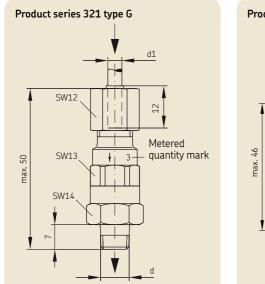
Product series 32	1 – designs G, T, W*					
ø lubrication point line [mm]	Lubricant	Metered quantity [cm³]	Pipe thread of lubrication point line	321 G	321 T	321 W
4	Oil	0,01	M8×1 taper M10×1 taper R1/8 taper	321-401G1 321-401G2 321-401G3	_ 321-401T2 _	_ 321-401W2 _
4	Oil	0,03	M8×1 taper M10×1 taper R1/8 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

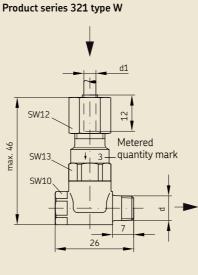
* Designs G, T, W elastomer material NBR

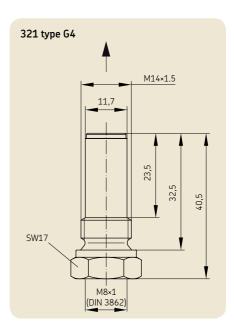
Product series 321 – designs G4, Module, G7

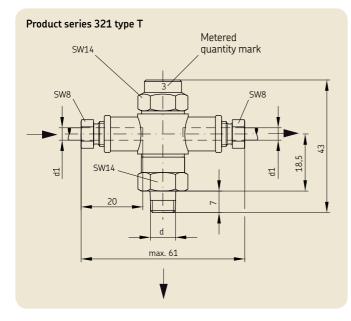
Metered quantity [cm ³] Lubricant	Elastomer material	321 G4	321 Module	321 G7 small	321 G7 large
0,01	Oil/fluid grease NLGI Grade 000, 00	NBR	-	321-101	321-40167	-
0,03	Oil/fluid grease NLGI Grade 000, 00	NBR FKM (FPM)	321-403G4 -	321-103 -	321-403G7 321-403G7-S8	-
0,06	Oil/fluid grease NLGI Grade 000, 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

Dimensions

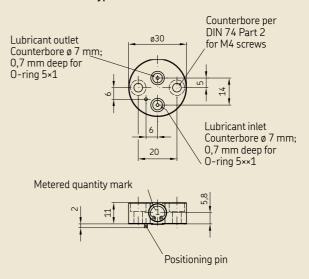




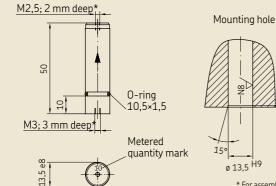


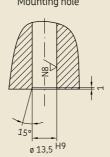


Product series 321 type Module



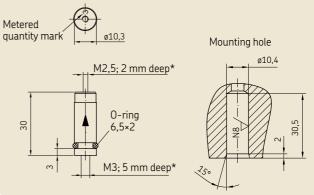
Product series 321 type G7 large







Product series 321 type G7 small



Technical data

Pressures and tempera	tures
Operating pressure	min. 12 bar max. 45 bar
Relief pressure	max. 3 bar
Lubricant	Mineral and synthetic oil 20 – 2 000 mm²/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

General

SKF MonoFlex single-line distributors of product series VN are 2-, 4-, and 6-port relubrication distributors for MonoFlex singleline 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.

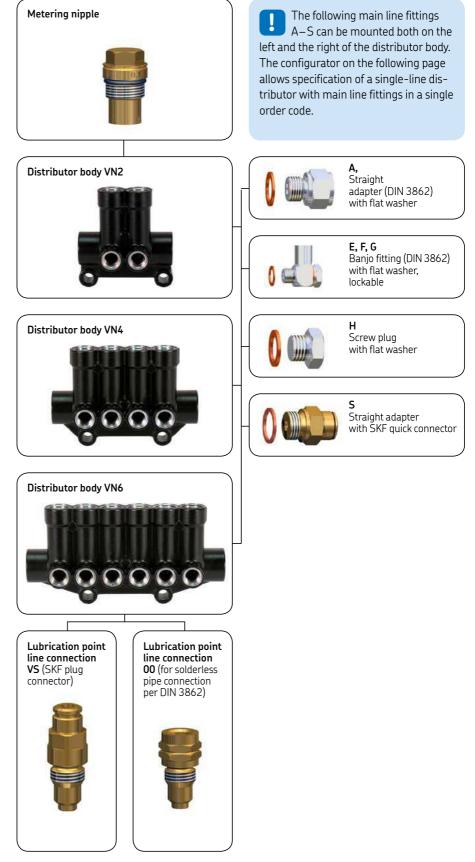
The available metered quantities are in a range from 0,05 – 1,00 cm³. The metering nipples have a mark indicating the metered quantity. The metering nipples are made of brass. The lubrication point line can be connected to the single-line distributor using SKF quick connectors or solderless pipe connections (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 guick connector) or a screw plug with a flat washer (solderless pipe connection). The metering nipples can be replaced later to yield different metered guantities.

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

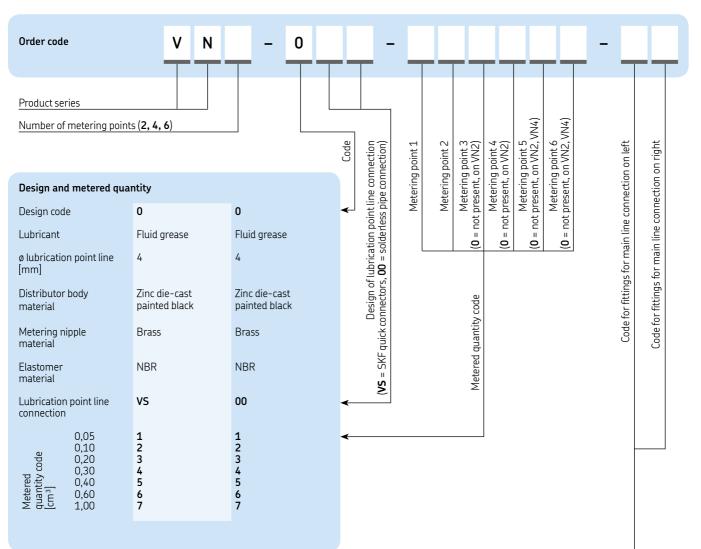
The distributor body is made of zinc diecast. The surface of the distributor bodies is painted black for optimum corrosion protection. Holes to secure the multi-port relubrication distributors to the vehicle/construction machine are cast in the distributor body.

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.

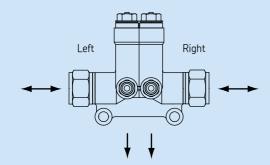
See the following pages for further information on product series VN. Details on accessories for SKF MonoFlex single-line centralized lubrication systems are part of this catalog.



Configurator



Order example



VN2-0VS-330000-AA

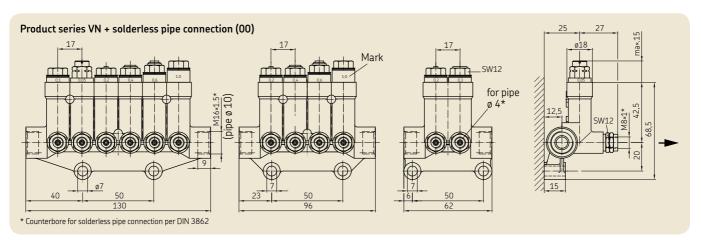
- Two-port single-line distributor for fluid grease
- NBR design
- Lubrication point line connection using SKF quick connector for pipe ø 4 mm,
- Metered quantity for ports 1 and 2 = 0,20 cm³
- Main line fitting left and right = straight adapter (DIN 3862) with flat washer for pipe ø 8 mm

Fittings for main line connection

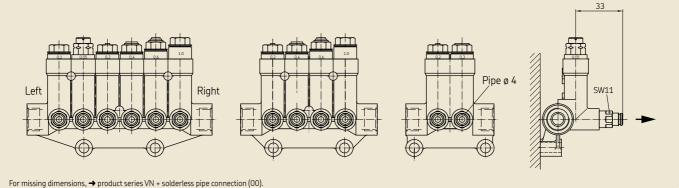
Description	ø main line [mm]	Code
Straight adapter DIN 3862 with flat washer ¹⁾	8	Α
Banjo fitting DIN 3862 with flat washer, lockable ^{1) 2)}	6 8 10	E F G
Screw plug with flat washer	-	н
Straight adapter with SKF quick connector	10	S
Without fitting, solderless pipe connection ¹⁾	-	Z

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

Dimensions

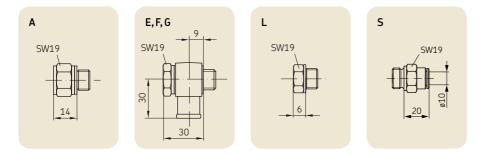


Product series VN + SKF quick connector (VS)



Fittings for main line connection

(→ page 54 for exact designation)



Technical data

Product series VN						
Lubricant	Metered quantity [cm³]	Lubrication point line connection	Operating (min.	pressure [bar] max.	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 20	45 80	≤1 ≤1	–25 to +80 –25 to +80

Mark on metering nipple					
Metered quantity [cm ³]	Mark				
0,05 0,10 0,20 0,30 0,40 0,60 1,00	0,05 0,1 0,2 0,3 0,4 0,6 1,0				

Accessories

Order numbers for metering nipples* (replaceable)								
ø Lubrication point line [mm]	Elastomer material	Metered quantity [cm ³] 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	a lubrication point		Order number		
Description	ø lubrication point line [mm]	Pipe thread	A	В	С
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.					

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 cm³. 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 guick connector) or a screw plug with a flat washer (solderless pipe connection). The metering nipples can be replaced later to yield different metered guantities.

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

The distributor body is made of zinc diecast. 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.



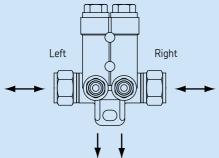
Configurator

Order code	3	7 – 2							-		Ļ
Product series Number of metering point	ts (2, 3, 5)		Code cction ction)	oint 1	oint 2	aint 3 372)	aint 4 372, 373)	sint 5 372, 373)		n left	right
Design and metered qua Design code Lubricant	ntity 2 Oil	2 Oil	Code Design of lubrication point line connection = 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,	Metering point 5) = not present, on 372,		Code for fittings for main line connection on left	Code for fittings for main line connection on right
ø lubrication point line [mm] Distributor body material	4 Zinc die-cast	4 Zinc die-cast	Design of lubricati innectors, 00 = sol	l) 	<u>0</u>		for fittings for mai	r fittings for main
Metering nipple material Elastomer material	Brass NBR	Brass NBR	l (VS = SKF quick co			Metered quantity code				Code	Code fo
Lubrication point line connection	VS	00	<u>ک</u>			-					
0,05 0,10 0,20 0,40 1,00 1,50 1,50	3 4 5 6 7 8 9	3 4 5 6 7 8 9	Fittin	gs for main lir	ne com	nection					

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

 $^{(1)}$ Solderless pipe connection according to DIN 3862 (operating pressure max. 45 bar) $^{(2)}$ Banjo bolt only inserted in delivery condition, not tightened

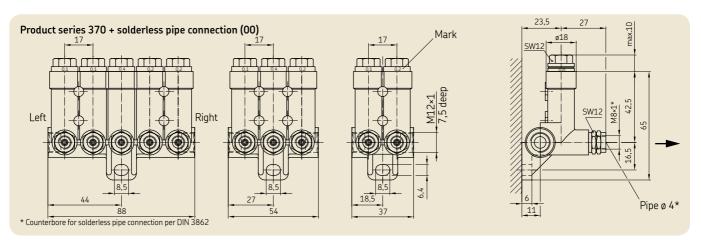




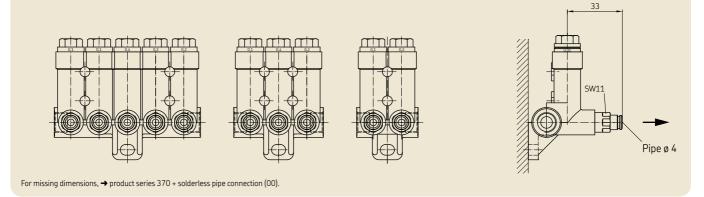
372-2VS-55000-BB

- Two-port single-line distributor for oil
 NBR design
- Lubrication point line connection using SKF quick connector Metered quantity for ports 1 and 2 = 0,20 cm³
 Main line fitting left and right = straight adapter (DIN 3862)
- with flat washer for pipe ø 6 mm

Dimensions

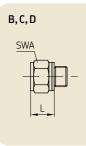


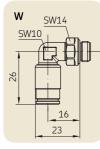
Product series 370 + SKF quick connectors (VS)



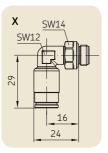
Fittings for main line connection

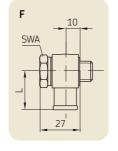
(→ page 58 for exact designation)

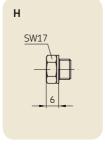


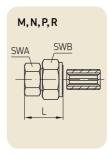


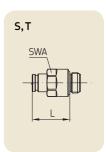
Е	9
SWA	











Widths across flats and lengths											
Code	В	С	D	Е	F	М	Ν	Ρ	R	S	Т
ø main line [mm]	6	8	10	6	8	6	8	10	12	6	8
SWA	17	17	19	17	17	14	17	19	22	14	14
SW B	-	-	-	-	-	19	19	19	19	_	-
Length L [mm]	10	20	22	25	27	32	32	31	31	21	26

Technical data

Product series 370						Operating
Lubricant	Metered quantity [cm³]	Lubrication point line connection	Operating p min.	ressure [bar] max.	Relief pressure [bar]	temperature [°C]
Mineral and synthetic oil 20 – 2 000 mm²/s; compatible with zinc die-cast, NBR, brass, steel	0,05 – 1,5	00 VS	20 20	40 80	≤1 ≤1	-25 to +80 -25 to +80

Mark on metering nipple									
Metered quantity [cm³]	Mark								
0,05 0,10 0,20 0,40 0,60 1,00 1,50	0,05 0,1 0,2 0,4 0,6 1,0 1,5								

Accessories

Order numbers for m	Order numbers for metering nipples* (replaceable)												
ø lubrication point line [mm]	pint Elastomer Metered quantity [cm³] material 0,05 0,10 0,20 0,40 0,60 1,00 1,50												
4	NBR	V72-005	V71-010	V71-020	V71-040	V71-060	V71-100	V71-150					

* Metering nipples are made of brass.

Fittings for metering nipples	ø lubrication point		Order number		
Description	line [mm]	Pipe thread	A	В	С
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 pipes* 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.					

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 cm³. 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.



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.

Configurator

Order code	3	6 1 -	00-	_	0	0 0	0	- 0 0
Product series Number of metering points ((1)]				
		L	Design code e connection	(00 = tapered sleeve union) Metered quantity code				
Design and metered quanti	ity		tion point lin	0 = tapered s Metered c				
Design code	1	2	Abrica	0				
Lubricant	Oil, fluid grease	Oil	in of l					
ø lubrication point line [mm]	4	4	Desic	,				
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	<					
0,01 0,02 0,03 0,05 0,10 0,20 0,20	1 2 3 4 5 6	- 2 3 4 5 -	<					

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

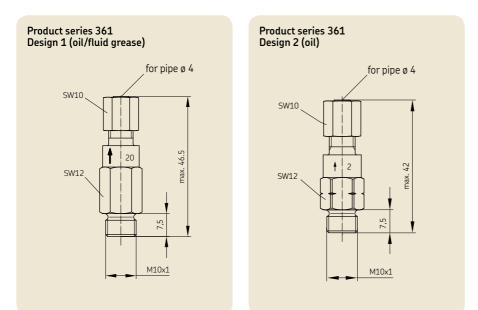
Order example



361-200-20000-00

- Single-port single-line distributor for oil
- NBR designLubrication point line
- connection as tapered sleeve union for pipe ø 4 mm
 Metered quantity = 0,02 cm³
- Metered quantity = 0,02 cm³
 With flat washer seal on internal thread

Dimensions



Technical data

Product series 361											
Desigr	Lubricant	Metering quantity [cm³]	Opera pressu min.	ting ıre [bar] max.	Relief pressure [bar]	Operating temperature [°C]					
1	Mineral and synthetic oil 100 – 1 000 mm²/s and fluid grease of NLGI Grade 000, 00; compatible with NBR, brass, steel	0,01 – 0,20	25	80	≤1	0 – 80					
2	Mineral and synthetic oil 10 – 500 mm²/s; compatible with NBR, brass, steel	0,02 – 0,10	8	40	max. 3	0 - 80					

Mark	٥n	metering	ninnle
main		metering	imppic

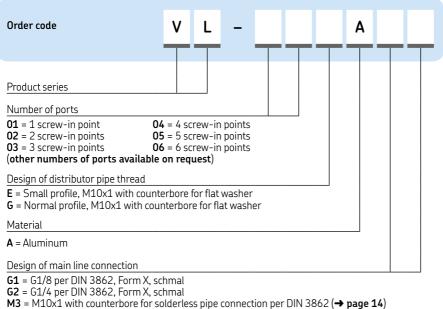
Metered quantity [cm³]	Mark
0,01	1
0,02	2
0,03	3
0,05	5
0,10	10
0,20	20

Tightening torque for assembly

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

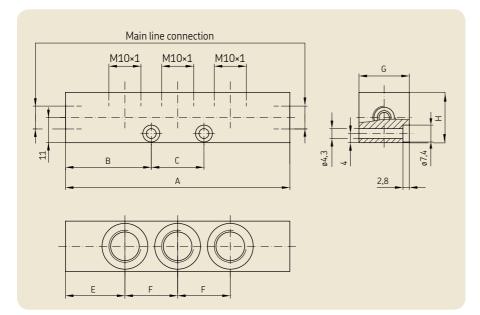
SKF

Manifolds for product series 361



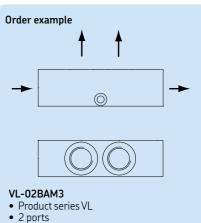
M4 = M14x1 with counterbore for solderless pipe connection per DIN 3862 (→ page 14) (can only be selected for normal profile)

Dimensions



Small profile E Main line connection M10x1 Number Maße [mm] of ports A B C E F G H											
or ports	A	В	L	E	Г	G	п				
1 2 3	41 58		-	20,5	- 1×17	18	20				
3	75 92	37,5 29			2×17 3×17						
5	109	29			4×17						
6	126	29			5×17						

Normal Main lin Number of ports	e conr Μaβe	nectior e [mm]	•	′8 E	F	G	Н
1 2 3 4 5 6	34 51 68 85 102 119	25,5 25,5 25,5	- 17 34 51	17 17 17 17 17	- 1×17 2×17 3×17 4×17 5×17	22 22 22	22 22 22 22 22



- 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

Normal Main line Number	e conr	nection		0x1			
of ports				E	F	G	Н
1	40	20	_	20	-	22	22
2					1×17		
3	74				2×17		
4	91	28,5	34	20	3×17	22	22
5	108	28,5	51	20	4×17	22	22
6	125	28,5	60	20	5×17	22	22

Normal Main lin Number of ports	e conr Maße	nection e (mm)		4x1 , E		G	Н
1 2	52 69				- 1×17	22 22	
3	86	34,5	17	26	2×17	22	22
4	103	34,5	34	26	3×17	22	22
5	128	34,5	51	26	4×17	22	22
6	137	34,5	68	26	5×17	22	22

Normal Main lin Number of ports	e conr Maße	nectior e [mm]		/4 E	F	G	Н
1 2 3 4 5	46 63 80 97 114	31,5 31,5	- 17 34	23 23 23	- 1×17 2×17 3×17 4×17	22 22	22 22 22
6	131				5×17		

Notes	

The Power of Knowledge Engineering

Combining products, people, and application-specific knowledge, SKF delivers innovative solutions to equipment manufacturers and production facilities in every major industry worldwide. Having expertise in multiple competence areas supports SKF Life Cycle Management, a proven approach to improving equipment reliability, optimizing operational and energy efficiency and reducing total cost of ownership.

These competence areas include bearings and units, seals, lubrication systems, mechatronics, and a wide range of services, from 3-D computer modelling to cloud-based condition monitoring and asset management services.

SKF's global footprint provides SKF customers with uniform quality standards and worldwide product availability. Our local presence provides direct access to the experience, knowledge and ingenuity of SKF people.



CAD models for products shown in this brochure can be downloaded at: skf-lubrication.partcommunity.com

SKF Lubrication Systems Germany GmbH Berlin Plant Motzener Str. 35/37 · 12277 Berlin

PO Box 970444 • 12704 Berlin • Germany

Tel. +49 (0)30 72002-0 Fax +49 (0)30 72002-111

Additional brochures for further information

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

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