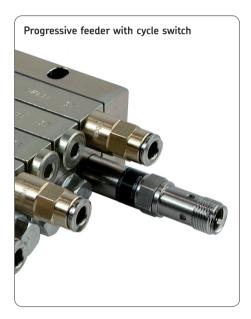
Accessories for Progressive Systems

Cycle switches, cycle indicators, crossporting bars, overpressure indicators, spray nozzles







This leaflet gives an overview of the accessories of progressive systems.

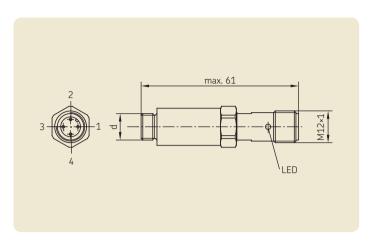
- Cycle switches (piston detectors)
- Cycle switch with built-in microswitch
- Crossporting bars
- Cycle indicators
- Electric overpressure switch
 - with proximity switch
 - with micro switch
- Electric overpressure indicators
- Overpressure indicators
- Spray nozzles

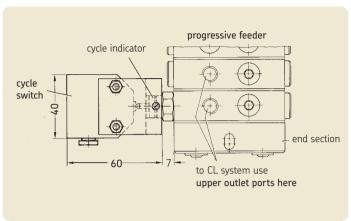


Cycle switches (piston detectors)

Cycle switches

with built-in microswitch





Order No.	d	Feeder model	Version	
177-300-091	M12×1	VP / PSG	2-wire	
177-300-092	M10×1	VPK		
177-300-096	M10×1	VPB		
177-300-094	M12×1	VP / PSG	3-wire	
177-300-095	M10×1	VPK		
177-300-097	M10×1	VPB		
Line sockets (see leaflet 1-1730-EN) Order No. 177-990-372 179-990-382				

The unit is mounted on a feeder section with cycle indicator.

Order No.	Feeder	model

VP-ZYS 1) VP

The cycle switch can used for all feeder sections starting at 2T. It is supplied detached.

Technical data

Function . NC contact
Operating voltage . 10 36 V DC
Current-carrying capacity . 100 mA
Max. operating pressure . 350 bars
Operating temperature . -25 to +80 °C
Type of enclosure . IP 67
Housing material . 1.4571

Technical data

Rated voltage 230 V

Rated switching capacity 230 V / 25 mA – 24 V / 2 A

Contact 1 changeover

Type of enclosure (DIN 40050) . . . IP 67 Type of connection soldered Temperature range -5 to +80 °C

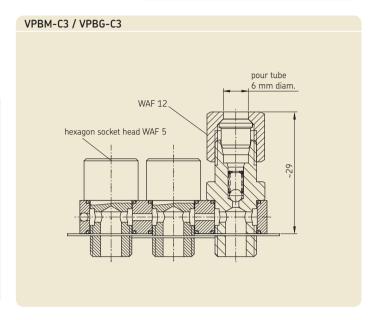
¹⁾ state in order in addition to the feeder

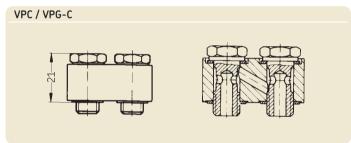
Crossporting bars

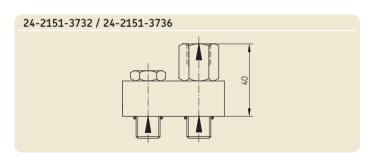
See important product usage information on the back cover.

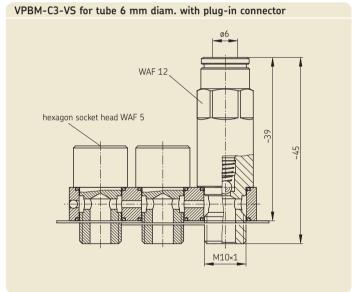
Crossporting bars are used to combine adjacent outlet ports. They are screwed into the lateral outlet ports or, if on hand, into the upper alternative outlet ports.

Order No.	Feeder model	Number of outlet ports to be combined
VP-C VPG-C VPBG(M)-C2 VPBG(M)-C3 VPBG(M)-C4 VPBM-C2-VS VPBM-C3-VS VPBM-C4-VS 24-2151-3732 24-2151-3736	VPM VPG VPB VPB VPB VPB VPB VPB PSG2 PSG3	2 2 2 3 4 2 3 4 2 2 2







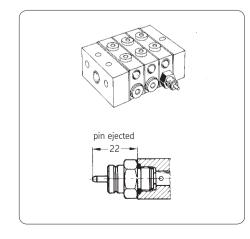


Cycle indicators

Cycle indicators are used to monitor feeder functions.

They are screwed into the piston bore of the first or last feeder section. In the course of each cycle the display pin executes a to-and-from movement. This motion does not take place if the feeder is blocked.

The cycle switch is only available complete with feeder section.



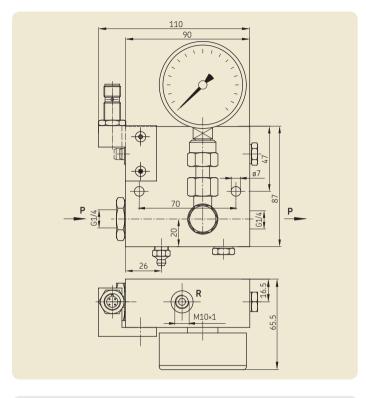
Order No.	Feeder model
VPM-ZY VPG-ZY VPKG-ZY VPKM-ZY VPBG-ZY VPBM-ZY	VPM VPG VPKG VPKM VPBG VPBM

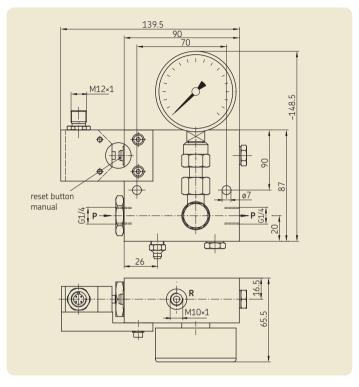
Electric overpressure switch

with proximity switch, adjusted to 120 bars

Electric overpressure switch

with micro switch





Technical data

 Order No.
 PPU-UES-V70-S1

 Operating voltage
 10 ... 36 V DC

 Current load
 100 mA max

 Contact
 NC type

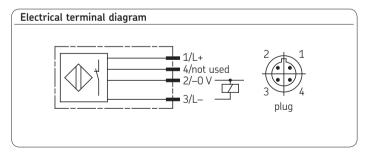
 Function indicate
 yellow (4×90°)

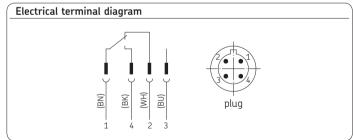
 Type of enclosure (DIN 40050)
 IP 67

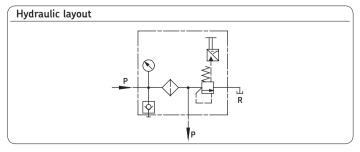
 Temperature range
 -25 to +70 °C

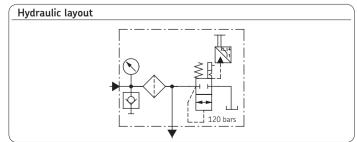
Technical data

Rated switching capacity 230 V / 25 mA – 24 V / 2 A

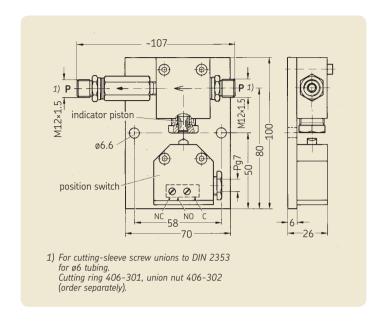








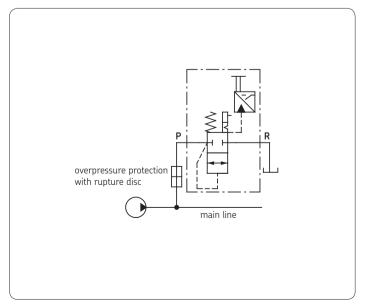
Electric overpressure indicator



Practical example 1 (for PPU-UES)

A rise in the system's pressure (malfunction) beyond the specified value destroys the rupture disc. The lubricant pushes the indicator piston out, as a result of which the limit switch is actuated. The latter emits an electrical signal for acoustic or visual indication. But it can also be used to switch off the machine.

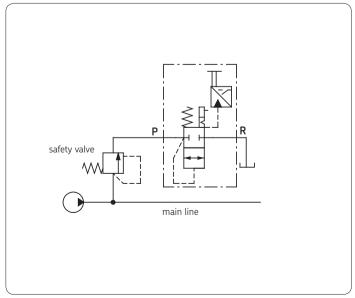
After the malfunction has been remedied and the rupture disc replaced, the indicator piston has to be shoved in again by hand.



Practical example 2 (for PPU-UES)

Functions like example 1, but the rupture disc does not have to be replaced since the safety valve is not destroyed and automatically closes again when the specified pressure is restored.

The indicator piston has to be shoved back in again as in example 1.

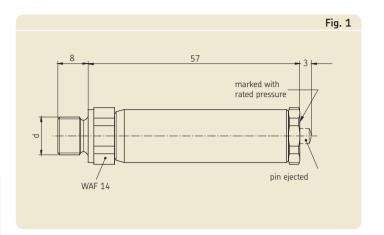


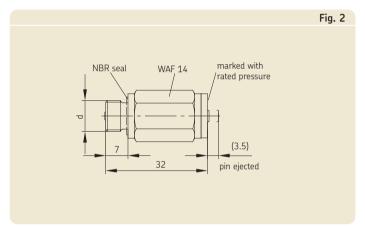
Overpressure indicators

Overpressure indicators on progressive feeders make it easier to localize malfunctions when they occur. They are screwed into the upper alternative outlet ports. If the specified lubricant pressure is exceeded in an outlet port equipped with an overpressure indicator, a pin emerges from the front of the indicator, thus pointing out the overpressure.

After the fault is remedied, the pin hasto be pressed back in again by hand.

Rated pressure [bar]	Order No. with metric threads	d	Order No. with Whitworth tubing threads	d	Fig.
16 32 63 80 100 140 180	VP-UE16-2 VP-UE32-2 VP-UE63-2 VP-UE80-2 VP-UE100-2 VP-UE140-2 VP-UE180-2	M10×1	VPG-UE16-2 VPG-UE32-2 VPG-UE63-2 VPG-UE80-2 VPG-UE100-2 VPG-UE140-2 VPG-UE180-2	G1/8A	1
50 100 150 200	VPM-UE50-3 VPM-UE100-3 VPM-UE150-3 VPM-UE200-3	M10×1	VPG-UE50-3 VPG-UE100-3 VPG-UE150-3 VPG-UE200-3	G1/8A	2
Overpressure indicators are supplied detached.					





Retainer for rupture discs

for tube

Order No.	diam.	Version
PPU-SH	10	with tube neck for cuttingsleeve screw union
	7. 8 t	
	M12×1.5 für Rohr ø6	10
	† _/	
	Berstsch	neibe

Rupture discs

Order No.	Rupture pressure [bar]	Color	Thickness [mm]
PPU-BS60	60	schwarz	0.152
PPU-BS80	80	grün	0.203
PPU-BS100	100	gelb	0.254
PPU-BS120	120	rot	0.305
PPU-BS140	140	orange	0.356
PPU-BS160	160	silber	0.406
PPU-BS180	180	rosa	0.457

Spray nozzles

for grease up to NLGI grade 2



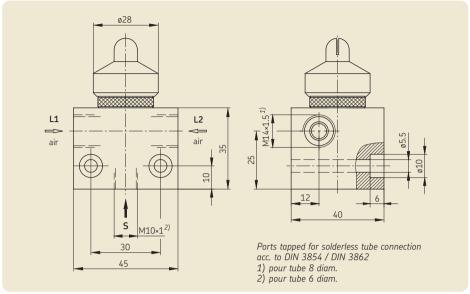
This spray nozzles are used to spray grease up to NLGI grade 2 on surfaces, e.g. on the tooth surface of large gears.

Function

The grease is supplied by pulsation via inlet **S** by, for instance, a progressive feeder and is blown out by compressed air flowing continuously during the entire lubrication period.

Compressed air in connected to inlet **L1**, optionally to **L2**. Depending on the construction of the spray nozzle, the spray pattern is either rectangular (SP31) or circular (SP32).

Several spray nozzles may be connected in series to one compressed air line. At the last spray nozzle of one line, however, one inlet borehole for the compressed air must be closed with a screw plug. This is also applicable to one spray nozzle only.



Technical data

Order No. SP31 Spray pattern retangular

Order No..... SP32 Spray pattern.... circular

Lubricant grease up to NLGI grade 2

Air pressure 5 bars min.
Air flow rate 5 bars . . 7 Nm³/h
Spraying distance . . . approx. 300 mm

Sprayed surface at a distance of 100 mm: SP31 approx. 50×220 mm

SP31 approx. 50×220 mm SP32 approx. 45 mm diam.

Order No. 1-0107-6-EN

Subject to change without notice! (07/2009)

Important product usage information

All products from SKF may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products, they must be read and followed. Not all lubricants are suitable for use in centralized lubrication systems. SKF does offer an inspection service to test customer supplied lubricant to determine if it can be used in a centralized system. SKF lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1013 mbars) by more than 0.5 bar at their maximum permissible temperature.

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

Further brochures

1-9201-EN Transport of Lubricants in Centralized Lubrication Systems

SKF Lubrication Systems Germany AG

Motzener Strasse 35/37 · 12277 Berlin · Germany PF 970444 · 12704 Berlin · Germany Tel. +49 (0)30 72002-0 · Fax +49 (0)30 72002-111 www.skf.com/lubrication

This brochure was presented by:				

® SKF is a registered trademark of the SKF Group.

© SKF Group 2009

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

