

# NPZ PROGRESSIVE DIVIDER

## THE DIVIDERS

NPZ Progressive metering dividers have a compact and thought-out design, which makes them the ideal solution for grease lubrication in applications that require minimum dosage but accurate lubrication in small spaces. The NPZ dividers are especially designed for heavy equipment and trailers. Translating years of experience into a product that is fit for duty.



DropsaVET NPZ is a distributor that utilises the progressive movement of pistons to dispense precise amounts of lubricant to multiple lubrication points.

The lubrication cycle can be controlled by installing a VET ultrasensor on any metering divider element. This sensor detects or monitors the movement of the progressive pistons.

The NPZ progressive divider is also available in AISI 316. This makes an already durable product even more everlasting. The AISI 316 version is extremely suitable for corrosive environments.

## OPERATING PRINCIPLE

The NPZ progressive system is expandable. Moreover, its modularity allows for cost-effective replacements of individual parts. Blockages in the system can easily be found due to the progressive working of the metering dividers.

The primary divider supplies the secondary divider with the pre-determined amount of grease. This secondary divider feeds the lubrication points with grease. Multiple secondary dividers can be connected to the primary divider. One divider can have a maximum of 24 lubrication points.

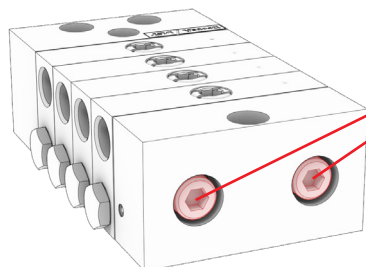
There are four types of metering elements:

- NPZ 025
- NPZ 045
- NPZ 075
- NPZ 105

Outlets can be given more grease by combining metering elements or plugging them. This will give one outlet two times the regular output. Also bridge elements can be used to achieve the desired grease output.

## ADVANTAGES

- NPZ comes in a compact and sleek design
- A complete range of accessories and bridge elements for modular design
- The assembly screws are integrated in the final element without protruding, which facilitates installation in small spaces
- Possibility to mount a grease nipple on the inlet element, eliminating fragile connectors
- Easily accessible inner plug
- M10x1 thread on all connections



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## FEATURES

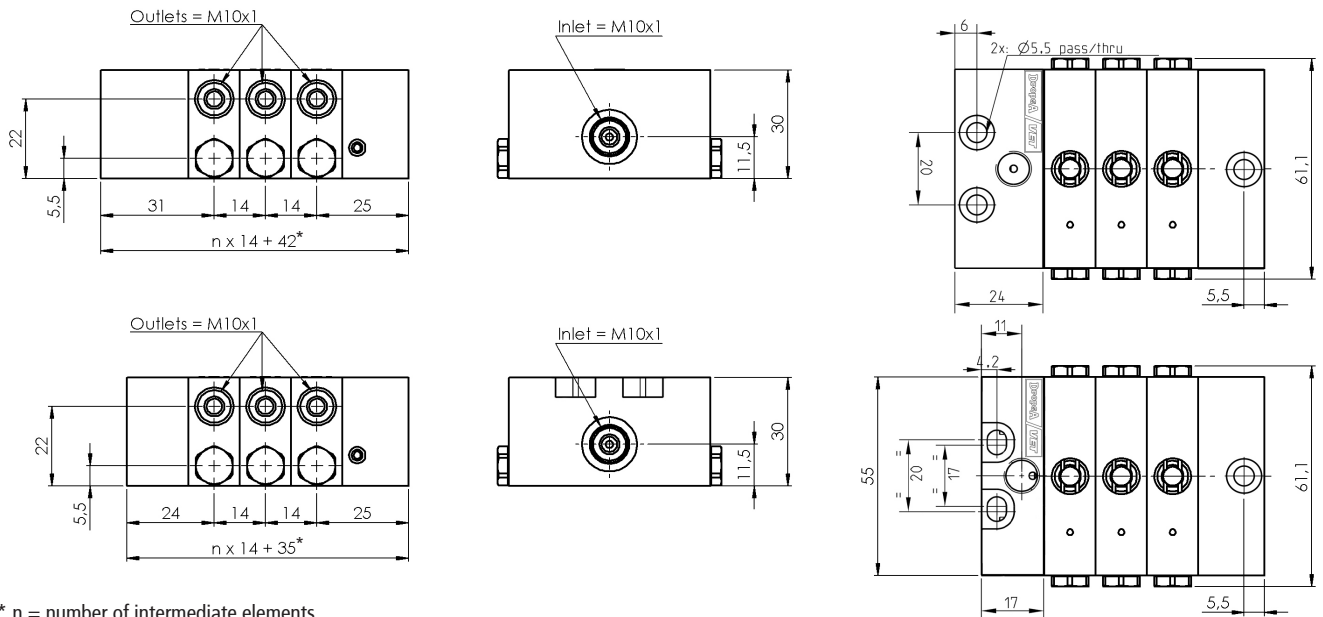
- OPERATING PRESSURE UP TO 300 BAR (4350 PSI)
- SUITABLE FOR BOTH OIL AND GREASE
- SAFE AND CONTROLLED LUBRICATION
- EASY TO ASSEMBLE AND INSTALL
- COMPACT DESIGN
- MODULAR DESIGN ALLOWS FOR CUSTOM CONFIGURATIONS
- ACCURATE, ADJUSTABLE GREASE DISTRIBUTION
- AVAILABLE IN ZINC-NIKKEL PLATED STEEL OR AISI 316

## TECHNICAL INFORMATION

### GENERAL INFORMATION

<b>Single outlet flow rate</b>	0.025cm <sup>3</sup> - 0.045 cm <sup>3</sup> - 0.075cm <sup>3</sup> - 0.105cm <sup>3</sup>
<b>Number of divider elements</b>	3 ÷ 12
<b>Operating pressure</b>	15bar (218psi) ÷ 300bar (4350psi)
<b>Operating temperature</b>	-20°C ÷ +80°C
<b>Material</b>	Zinc-Nickel plated steel - resistance in salt spray >720h
<b>Strokes per minute</b>	maximum 200
<b>Inlet threaded connection</b>	M10x1 double cone seat for Ø 4mm and 6 mm tube
<b>Outlet threaded connection</b>	M10x1 double cone seat for Ø 4mm and 6 mm tube
<b>Lubricants</b>	Min. oil 32 cSt; max. grease 2 NLGI2

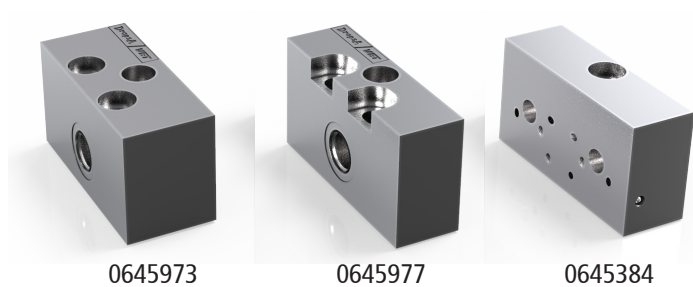
### DIMENSIONS



\* n = number of intermediate elements

### INLET AND END ELEMENTS

The NPZ starting element is available in two variants. Both inlet elements are equipped with a G1/8 grease nipple connection, making manual lubrication easy. In addition to the standard inlet element, a small variant is also available. This narrow starting element has countersunk slot holes, making it ideal for installations where space is limited.

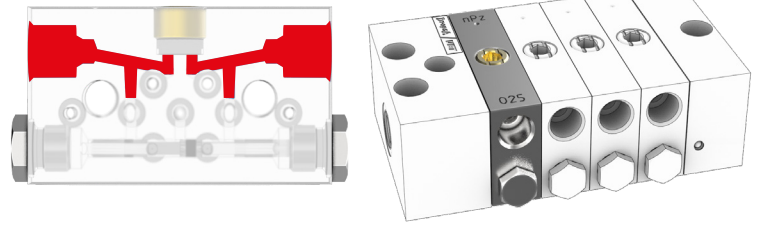


INLET AND END ELEMENTS	
TYPE	PARTNUMBER
Inlet zerk fitting, 20mm, M10x1	0645973
Inlet zerk fitting smalll, 17-20mm, M10x1	0645977
End element	0645384

## INTERMEDIATE ELEMENTS

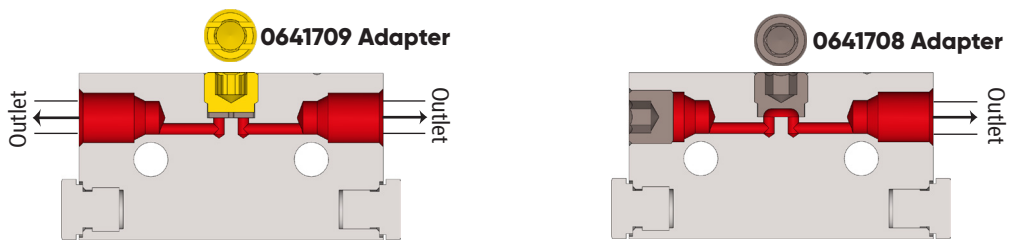
The NPZ metering elements are responsible for distributing the grease to the desired ratios. The variable dosages of the metering elements make it possible to provide each lubrication point with the right amount of grease.

INTERMEDIATE ELEMENTS	
FLOW cm3	PARTNUMBER
0.025	0645350
0.045	0645351
0.075	0645352
0.105	0645353



## CONVERSION WITH A SINGLE OR DOUBLE OUTLET

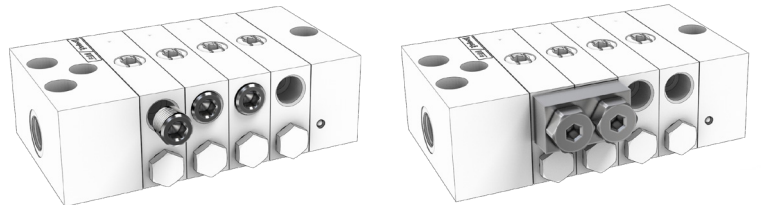
By replacing the yellow highlighted adapter (code 0641709) together with the stop disc (code 0641791) with the gray adapter (code 0641708), you can combine the flow volume of the outputs of the same element, as shown in the drawing. When the two outputs are combined, remember to close off the one that is not being used with a plug (code 3232153).



## PLUG & BRIDGE

The plug completely closes off an outlet from the distributor and should only be used when converting to a single outlet as shown above. A bridge can combine the dosing of 2 outlets, for which a conversion to a single outlet generally must be performed. The bridge is also available with an additional outlet, which allows for combining dosages without having to convert the element.

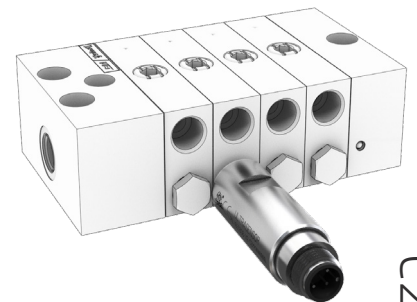
PLUG & BRIDGE	
DESCRIPTION	PARTNUMBER
M10x1 plug	3232153
M10x1 bridge	0676084
M10x1 bridge with outlet	0676089



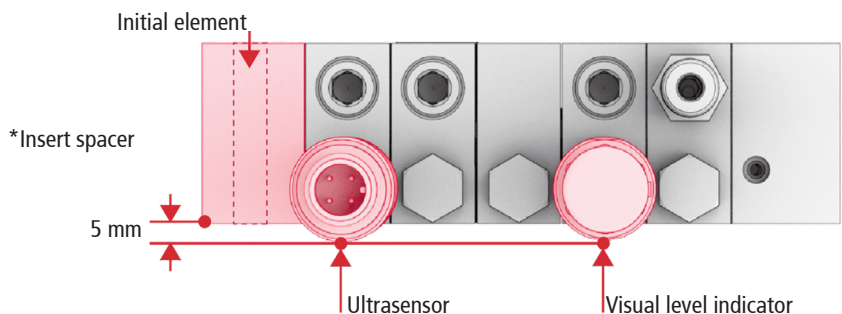
## THE CYCLE INDICATOR

The cycle indicator detects the movement of internal pistons to determine if the divider is operating correctly. When installing a cycle indicator, it is important to place the divider with a 5mm spacer to create enough space.

CYCLE INDICATOR			
DESCRIPTION	PARTNUMBER	TYPE NUMBER	
		LEFT	RIGHTs
Ultrasensor	1655308	US	USL
+ M12 connector	+ 0039999		



*\*It is necessary to insert the spacer – code 3011211 – if the Ultrasensor and/or the element with visual cycle indicator is used.*



## ASSEMBLY OF THE DIVIDER

### TIE RODS (2 PER PACKAGE)

NO. OF ELEMENTS	PARTNUMBER
3 elements	0014301
4 elements	0014329
5 elements	0014303
6 elements	0014330
7 elements	0014305
8 elements	0014306
9 elements	0014331
10 elements	0014308
11 elements	0014332
12 elements	0014310
ø6 washer (2 pieces for every assembled unit)	0016050



## CONNECTING THE MAIN HOSE

### TERMINAL FITTING

DESCRIPTION	PARTNUMBER
M10x1 for 4mm double cone	0092822
Ø4mm double cone (150bar)	0093004
M10x1 for 6mm double cone	0092823
Ø6mm double cone (150bar)	0093006

