

1) Definition

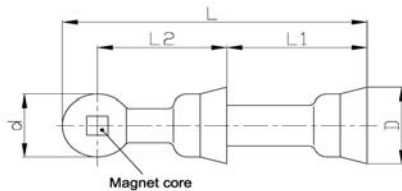
DMV lip pig:

Dynamically sealing 2-lip pig with encapsulated magnet for detection and monitoring by PLC

2) Technical data

Nominal sizes:

- DIN DN40 - DIN DN100 // SMS DN38 - SMS DN102 // 1,5" - 4"



DN	Type	suitable for ID	Ød	ØD	L	L1	L2
40	38-40-DMV	35 - 40	34	43	164	74	73
50	50-51DMV	47 - 56	46	56	200	92	85
65	63-65DMV	59 - 70	58	72	264	130	105
76	76DMV	72 - 79	69,5	80	288	128	125
80	80DMV	80 - 86	78,5	89	318,5	140	139
100	100-102DMV	96 - 106	95	107	375	162	165,5

Materials:

- Elastomer: Silicone (MVO),
Hardness: 60 ±5 Shore A
- Magnet core: Neodymium Iron Boron with Teflon encapsulation

Temperature:

- Operating temperature: -25°C up to max. +150°C Higher temperature will lead to reduced magnet power (up to complete loss)

Pig speed:

- In the range of: 0,3m/sec. up to 1,5m/sec.
Slower speed will increase the cleaning result

Pushing pressure DMV lip pig:

- Depending on product (e.g. viscosity, anti-friction properties), length of the pipe work, min. 1 bar up to max. 10 bar

Approvals:

- FDA CFR21 § 177.2600
- 3A according 101-00 as a part of a complete LIAG® pigging system

3) Safety Guidelines

General safety guideline:

- DMV pigs should only be used in pigging systems, which are suitable for this type of pig and which are designed by LIAG®. The supplier will not assume any kind of function warranty or product liability and no responsibility for any kind of damage to persons or property due to improper use.

Designated use:

- Suited for aeriform and liquid pressure media
- The DMV 2-lip pig should not remain permanently in critical products not / limited compatible with the silicon material (e.g. products containing animal grease, solvents, etc.). This products could have a negative influence for example on the shore grade of the pigs. The DMV 2-lip pig should be cleaned after use neither manually or remaining in cleaned condition in the dedicated LIAG® cleaning station.
- Exaggerated pig speed will lead into release and damage of the magnet core and pig, particularly in bends, filling- and receiving stations. The supplier will not assume any kind of function warranty or product liability and no responsibility for any kind of damage to persons or property due to improper use.

Required standards for the piping:

- 90° standard bends (R = 1,5 x D) can be passed without difficulties
- Pipeline and welding seams must be smooth, without sharp-edged waists (orbital welding recommended) to avoid excessive wearing of the pig.

Cleaning:

- DMV 2-lip pig can be cleaned with all detergents compatible with silicone or manually or in an automatized CIP process.

- It's not recommended to use the DMV 2-lip pig with dry, powdery products.