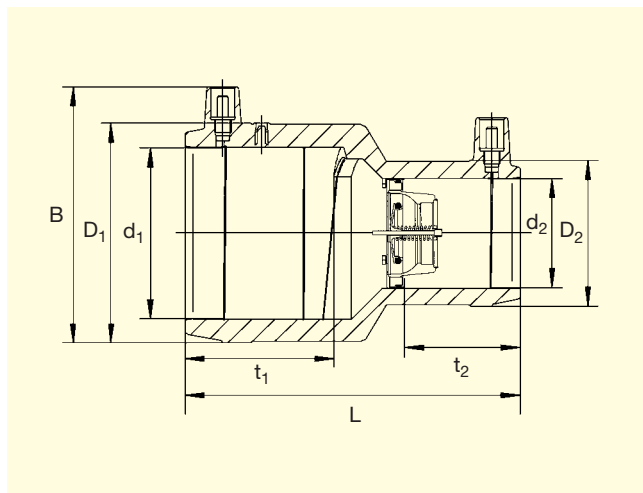


FRIALEN® MR-STOPP Reducer Couplers with integrated Mertik Maxitrol Excess Flow Valve PE 100 SDR 11

Maximum working pressure Type Z: 5 bar, Type D: 1 bar (gas)



d ₁	d ₂	Type	Order Ref.	Operating Pressure Range	V _N p _{min} - p _{max}	Stock-status	VE	PE	L	t ₁	t ₂	weight kg/each
50	40	Z	T-616 218	35 mbar - 5 bar	26 - 62	1	12	600	110	49	37	0.210
50	40	D	T-616 237	25 mbar - 1 bar	19 - 27	1	12	600	110	49	37	0.210
63	32	Z	T-616 219	35 mbar - 5 bar	17 - 40	1	10	500	125	55	44	0.240
63	32	D	T-616 238	25 mbar - 1 bar	11 - 16	1	10	500	125	55	44	0.240
63	40	Z	T-616 220	35 mbar - 5 bar	26 - 62	1	8	400	125	55	40	0.290
63	40	D	T-616 239	25 mbar - 1 bar	19 - 27	1	8	400	125	55	40	0.290
63	50	Z	T-616 221	35 mbar - 5 bar	41 - 99	1	8	400	125	55	47	0.370
63	50	D	T-616 240	25 mbar - 1 bar	28 - 40	1	8	400	125	55	47	0.360

The **universal type Z** meets the practical requirements of the operating pressure range and the necessary flow quantity.

Type D, Z: Mertik Maxitrol® with overflow device, max. overflow quantity D: 30 l/h at 100 mbar, Z: 30 l/h at 1 bar.

p_{min} - p_{max}: min - max operating pressure or Mertik Maxitrol® initial pressure.

V_N: nominal flow at p_{min} - p_{max} in relation to natural gas d = 0.6 at standard conditions (1013 mbar, 15 °C) in m³/h.

Please turn over for important information regarding application of the **FRIALEN®-MR-STOPP**.

FRIALEN® MR-STOPP Reducer Couplers

with integrated Mertik Maxitrol Excess Flow Valve

PE 100 SDR 11

Maximum working pressure Type Z: 5 bar, Type D: 1 bar (gas)

Area of Application

MR-STOPP is used for gas service lines according to DVGW G459-1-appendix (12/03) for operating pressure ranging from 25 mbar – 5 bar.

The MR-STOPP is a FRIALEN reducer coupler with integrated excess flow valve which automatically shuts off the gas flow in the event of pipe damage leading to leaking of gas, caused e.g. by dredging or drilling.

The MR-STOPP is best installed into the branch between main and service line, directly behind the tapping valve.

The Mertik Maxitrol type selection takes place according to the minimal operating pressure of the network and the flow output required by the consumer.

The **Universal Type Z** meets perfectly the practical requirements of the operating pressure range and the necessary flow quantity.

Operation

(see also leaflets on technical data by Mertik Maxitrol® “SENTRY GS gas flow monitor for underground external networks”)

The MR-STOPP is subdivided into types D or Z according to mains pressure range. It shuts off automatically at a defined gas flow as typically occurs where there is damage to the gas service line. The gas flow is stopped immediately and completely. Types D and Z have overflow devices. This overflow quantity allows the pressure in the undamaged gas pipe to increase again in order for the excess flow valve to re-open automatically. Type D, Z: Mertik maxitrol® with overflow device: overflow quantities of over 30 l/h require additional passive safety measures in the building according to DVGW-G459-1-B.

Processing Advice

The MR-STOPP is to be processed according to the operation and installation instructions which come with each MR-STOPP.

Installation always takes place in the direction of the flow of the medium going from larger to smaller dimensions. The flow direction is marked by arrowson the label.

Pressure testing of the gas route using MR-STOPP is authorised up to 10 bar air with the gas flow monitor open.

Operational mains pressure of the component is printed on the type label:

- Yellow type label (type Z) for 35 mbar up to 5 bar
- Orange type label (type D) for 25 mbar up to 1 bar

For further information, please call our FRIALEN® customer service staff and specialist advisers.

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DVGW test symbols awarded:
reducer coupler MR = DV-8601AU2248.

Gas flow monitor = DG-4360BO0438.

The use of this component can be marked in the area of the main shut-off device of the building (appropriate ID card including markings of product data and batches are all included in the initial delivery).

FRIALEN® safety fittings may be welded with pipes of SDR levels 11. Welding MR STOPP with HD-PE service pipe system takes place using FRIALEN® fusion – tight and with axial force. Installation is prepared according to the general installation requirements (see also “Installation instructions for FRIALEN® safety fittings for service and distributor lines up to d 225) (remove oxidic layer/clean).

Eleven Reasons for MR-STOPP

- **Factory made combination of FRIALEN® MR reducer coupler and Mertik Maxitrol® excess flow valve**
- **Especially important with reducer couplers: triple centre stop provides maximum protection from expressing / position shifting.**
- **The shortening the cold zones through integrated GS is compensated as opposed to the standard coupler**
- **Exposed heating coil and wide fusion zones allow optimum heat transfer**
- **Additional barcode for traceability of excess flow valve and coupler (traceability coding).**

Excess Flow Valve

- **has been individually function checked and adjusted precisely by the factory**
- **has low pressure loss**
- **is largely resistant to contaminations in the gas**
- **its principle has been tried and tested for years**
- **tolerates pressure increase from low to medium pressure in suitable network**
- **Type Z can be applied universally from 35 mbar to 5 bar, simple storage, no risk of mix-ups, low operational training needs.**

Please find our datasheets for downloading on the internet at www.friatec.com



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