

FRIALEN® Safety Fittings

DAV/DAV TL Pressure Tapping Valves with extra long outlet spigot

Areas of application

The FRIALEN-Pressure Tapping Valves DAV and DAV TL are used for branches of unpressurised and pressurised gas and water pipelines. Outlet spigots are prepared for integration of excess flow valves.

Assembly Instructions

The fusion of the HD-PE distribution pipes and the service pipes with FRIALEN-Pressure Tapping Valves takes place by FRIALEN-fusing – leakproof and longitudinally strong.

The saddle and the outlet spigot have to be prepared according to the general assembly instructions (see "Assembly Instructions" for "FRIALEN-Safety Fittings for house service and supply pipes up to d 225"). This involves removing the oxide layer and cleaning the pipe surface covered by the saddle as well as the outlet spigot and the pipe end.

The assembly of the pressure tapping valve with bolted underclamp takes place by evenly tightening of the hexagon screws.

The assembly of the pressure tapping valve top loading takes place with the clamping unit FRIATOP. Please observe the „operating instruction“ for FRIATOP clamping unit.

The assembly of the pressure tapping valve with fast clamping mechanism takes place within seconds with the fast clamping lever RED SNAP without additional tools.

NEW

For „Open/Close“ the pressure tapping valve require 7 to 10 turns, depending to the dimension and design, by using an operating key type E according to DIN 3223. (The tapping process need less turns, because of the intermediate position of the drill in supplied condition).



Illustration: FRIALEN pressure tapping valve with fast clamping lever RED SNAP and FRIALEN installation kit DBS (EBS). Also note the data sheet installation kit for pressure tapping valves DBS (EBS).

Good reasons for using the FRIALEN pressure tapping valve DAV and DAV TL:

- Simple start-up of the pressure tapping valve because of little tapping forces
- Fusing and tapping of the main under maximum permitted operating pressure gas/water
- No preventive measures necessary with regard to corrosion
- Actuating spindle made from corrosion-resistant steel
- Swarfless tapping due to rotating punching drill made of stainless steel
- Punched-out pipe piece fits securely and permanent in the drill
- Drill with solid upper and lower stop
- Length of outlet spigot dimensioned for two fusion operations
- Additional barcode for tracing back the fitting (Traceability-Coding)
- Maintenance-free, with operating key (e.g. FRIALEN installation set DBS (EBS)) actuatable valve

Additional good reasons for the FRIALEN pressure tapping valve DAV with fast clamping lever RED SNAP:

NEW

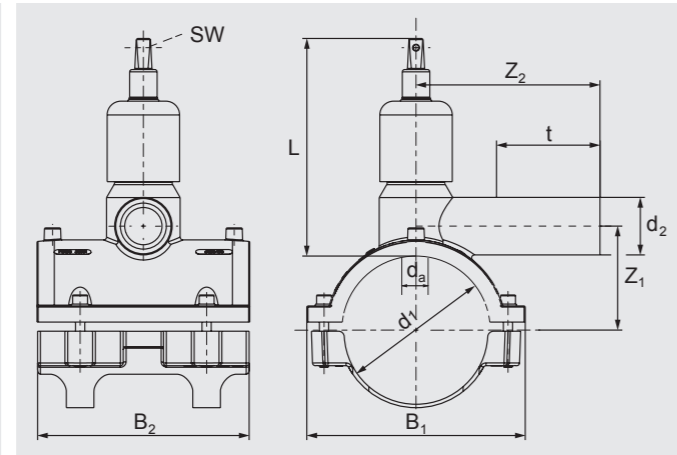
- Compact part, solid injection molded body made from HD-PE
- Simple and reliable assembly without any tool, thanks to the patented fast clamping lever RED SNAP
- Thanks to the new fast clamping technology, the installation time is reduced by 50%, because of reduction of assembly, fusion and cooling times
- The flexible saddle compensates pipe tolerances and provides always an optimal, uniform buildup of melt pressure during the fusion
- Barcode exposed on fast clamping lever RED SNAP for easy scanning with readerwand or barcode scanner
- Higher flow rate, lower pressure loss due to enlarged and flow-mechanically optimised flow cross-section
- Installation set DBS (EBS) is continuously telescopic and self supported in any extended position
- Installation set with a sleeve tube bell with integrated locking function: connects the installation kit firmly to the DAV, unintentional release is prevented
- A foam rubber ring in the sleeve tube bell prevents dirt from penetrating into the installation set
- Subsequent tapping with the installation set DBS (EBS) from the surface box is possible
- High torques can be transferred because of a solid construction

Aliaxis Deutschland GmbH
 Infrastructure
 Steinzeugstrasse 50
 68229 Mannheim, Germany
 Tel +49 621 486-2238
 info.de@alixis.com
 www.alixis.de



Data sheet

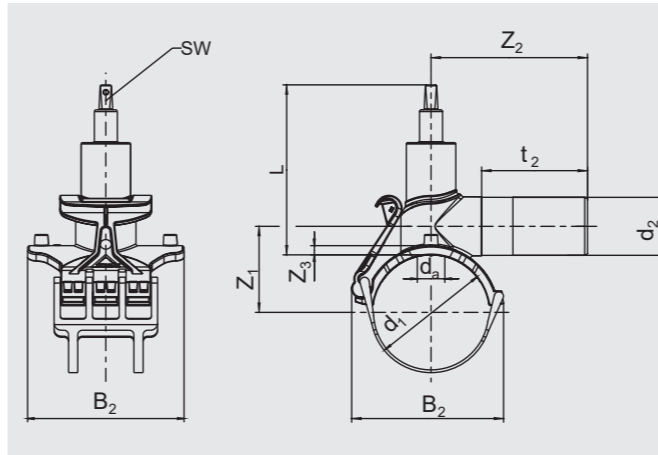
FRIALEN Pressure Tapping Valves DAV and DAV TL

FRIALEN® Safety Fittings
DAV Pressure Tapping Valves with extra long outlet spigot

 PE 100 SDR 11
 Maximum working pressure 16 bar (water)/10 bar (gas)


d ₁	d ₂	Order Ref.	Stock-status	BX	PU	L	t	z ₁	z ₂	B ₁	B ₂	Drilling Ø d ₁	Turns Open/close	Weight kg/each
50	32	615955	1	16	288	164	89	45	117,00	85	95	20	7	1,310
63	32	615341	1	16	288	164	85	53	115,00	98	105	20	7	0,950
63	40	615342	1	16	288	164	92	56	125,00	98	105	20	7	0,970
75	32	615956	1	12	216	164	88	59	130,00	113	125	20	7	1,390
90	32	615344	1	12	96	200	84	71	126,00	146	150	30	7	1,750
90	40	615617	1	12	96	200	105	74	152,00	146	150	30	7	1,970
90	50	615346	1	12	96	200	105	74	152,00	146	150	30	7	1,800
90	63	615347	1	12	96	200	118	74	166,00	146	150	30	7	1,870
110	32	615348	1	10	80	200	84	80	126,00	170	180	30	7	1,990
110	40	615621	1	10	80	200	50	80	110,00	175	180	30	7	2,160
110	50	615350	1	10	80	200	104	82	155,00	170	180	30	7	2,060
110	63	615351	1	10	80	200	118	82	180,00	170	180	30	7	2,120
125	32	615352	1	10	80	200	83	84	133,00	190	185	30	7	2,185
125	40	615625	1	10	80	200	50	85	110,00	190	185	30	7	2,385
125	50	615354	1	10	80	200	102	89	160,00	190	185	30	7	2,245
125	63	615355	1	10	80	200	115	82	180,00	190	185	30	7	2,320
140	63	615930	1	10	80	200	115	90	180,00	210	185	30	7	2,290
160	32	615356	1	6	48	251	82	115	124,00	225	200	30	10	2,670
160	40	615629	1	6	48	251	104	119	154,00	225	200	30	10	2,965
160	50	615358	1	6	48	251	104	119	154,00	225	200	30	10	2,750
160	63	615359	1	6	48	251	117	124	176,00	225	200	30	10	2,810
180	32	615361	1	5	40	251	82	125	124,00	242	200	30	10	2,680
180	40	615633	1	5	40	251	104	129	154,00	235	200	30	10	2,975
180	50	615363	1	5	40	251	104	129	154,00	242	200	30	10	2,760
180	63	615364	1	5	40	251	117	134	176,00	242	200	30	10	2,820
200	32	615366	1	5	40	251	82	135	124,00	263	220	30	10	2,770
200	50	615368	1	5	40	251	111	139	154,00	263	220	30	10	2,830
200	63	615369	1	5	40	251	117	142	176,00	263	220	30	10	2,900
225	32	615374	1	5	40	251	82	148	124,00	274	220	30	10	2,790
225	40	615641	1	5	40	251	60	144	115,00	260	195	30	10	3,070
225	50	615376	1	5	40	251	111	152	154,00	274	220	30	10	2,850
225	63	615377	1	5	40	251	117	155	176,00	274	220	30	10	2,920

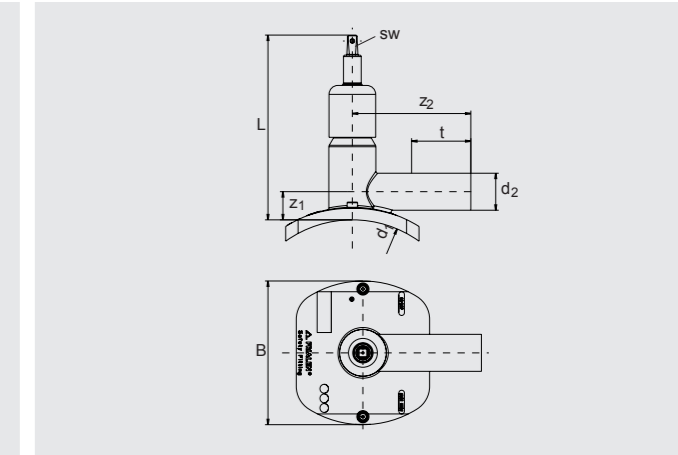
- ⊙ with electrofusion reducers MR d 50/40.
- ⊙ From the 2nd quarter 2020 with new product design, see next page.
- ⊙ From the 4th quarter 2020 with new product design, see next page.
- ⊙ Discontinued product

FRIALEN-Pressure Tapping Valves DAV ≤ d 63 can be used for pipes of SDR stage 11 and > d 63 of SDR stages 11 to 17.6. Minimum wall thickness s min ≥ 3 mm. Other SDR-stages on request. Please observe the marking directly at the product, which is mandatory. DVGW-Registration No. DV-6611AU2255

FRIALEN® Safety Fittings
DAV Pressure Tapping Valves with extra long outlet spigot and fast clamping lever RED SNAP

 PE 100 SDR 11
 Maximum working pressure 16 bar (water)/10 bar (gas)


d ₁	d ₂	Order Ref.	Stock-status	BX	PU	L	t ₂	z ₁	z ₂	z ₃	B ₁	B ₂	Drilling Ø d ₁	Turns Open/close	Weight kg/each	
110	32	616964	⊙	1	12	96	86,00	86	125,00	10,00	152	170	30	8	1,250	
110	40	616965	⊙	1	12	96	92,00	86	130,00	10,00	152	170	30	8	1,260	
110	50	616966	⊙	1	12	96	104,00	86	150,00	10,00	152	170	30	8	1,300	
110	63	616967	⊙	1	12	96	115,00	86	170,00	10,00	152	170	30	8	1,370	
160	32	616974	⊙	1	6	48	208	86,00	111	130,00	10,00	195	186	30	9	1,440
160	40	616975	⊙	1	6	48	208	92,00	111	140,00	10,00	195	186	30	9	1,450
160	50	616976	⊙	1	6	48	208	104,00	111	160,00	10,00	195	186	30	9	1,490
160	63	616977	⊙	1	6	48	208	115,00	111	180,00	10,00	195	186	30	9	1,570
180	32	616978	⊙	1	5	40	208	86,00	121	130,00	10,00	203	186	30	9	1,440
180	40	616979	⊙	1	5	40	208	92,00	121	145,00	10,00	203	186	30	9	1,450
180	50	616980	⊙	1	5	40	208	104,00	121	165,00	10,00	203	186	30	9	1,500
180	63	616981	⊙	1	5	40	208	115,00	121	180,00	10,00	203	186	30	9	1,570
200	32	616982	⊙	1	5	40	208	86,00	131	130,00	10,00	205	186	30	9	1,450
200	63	616984	⊙	1	5	40	208	115,00	131	185,00	10,00	205	186	30	9	1,590
225	32	616985	⊙	1	5	40	208	86,00	144	135,00	10,00	214	186	30	9	1,470
225	40	616986	⊙	1	5	40	208	92,00	144	150,00	10,00	214	186	30	9	1,490
225	50	616987	⊙	1	5	40	208	104,00	144	170,00	10,00	214	186	30	9	1,540
225	63	616988	⊙	1	5	40	208	115,00	144	190,00	10,00	214	186	30	9	1,620

- ⊙ New product design with red clamping lever, available from 2nd quarter 2020.
 - ⊙ New product design with red clamping lever, available from 4th quarter 2020.
- FRIALEN-Pressure Tapping Valves can be used for pipes of SDR stage 11 to 17.6. Other SDR-stages on request. Please observe the marking directly at the product, which is mandatory. DVGW-Registration No.: DV-6611DL0096

FRIALEN® Safety Fittings
DAV TL Pressure Tapping Valve Top-Loading with extra long outlet spigot

 PE 100 SDR 11
 Maximum working pressure 16 bar (water)/10 bar (gas)


d ₁	d ₂	Order Ref.	Stock-status	BX	PU	L	t	z ₁	z ₂	B	Drilling Ø d ₁	Turns Open/close	Weight kg/each
250-315	63	616464	1	7	56	251	117	42	176,00	220	30	10,00	2,455
355-400	63	616465	1	7	56	251	117	42	176,00	220	30	10,00	2,459

FRIALEN-Pressure Tapping Valves can be used for pipes of SDR stage 11 to 17.6. Other SDR-stages on request. Please observe the marking directly at the product, which is mandatory.

Other outlet dimensions with Electrofusion Reducers MR.