

HOUSE LEAD-IN COMBINATIONS

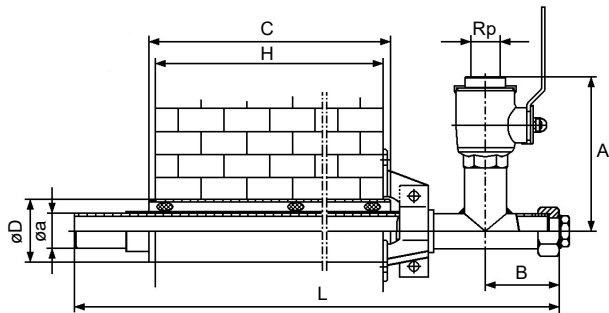


House lead-in combinations for steel pipes - with extraction prevention facility



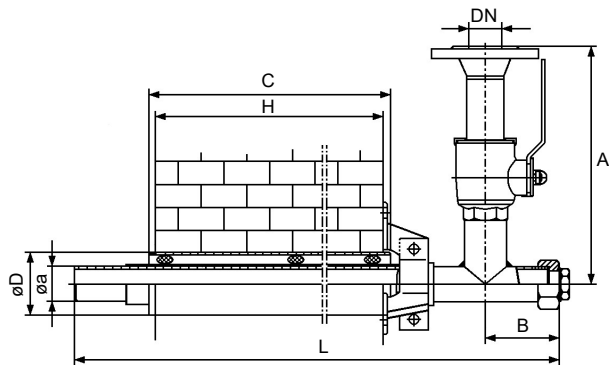
House lead-in combination for PE/HD connection - fixed point in wall

House Lead-in Combinations - steel Type G 459

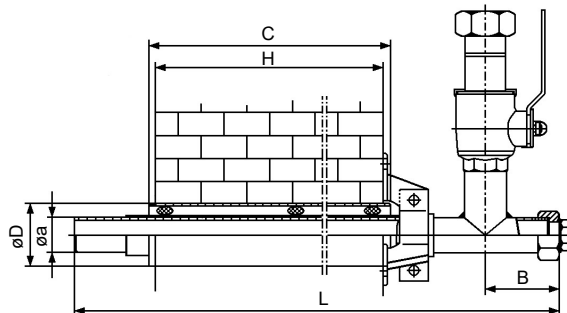


Type KETH-T
with maintenance T-joint

KETH-T with internal thread



KETH-T with flange



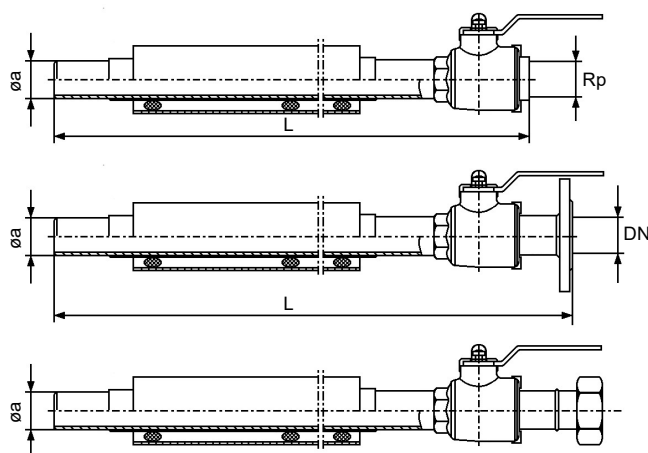
KETH-T with adjustment nut

Type KETH-T, KETH-G, KETH-B and KETH-E

”	Rp mm	Øa mm	Ød mm	A mm	B mm	L mm	M mm	C mm
1	25	33,7	65	155	70	1000	500	530
1 1/4	32	42,4	85	190	80	1000	500	530
1 1/2	40	48,3	85	190	80	1000	500	530
2	50	60,3	85	215	85	1000	500	530
2 1/2	65	76,1	105	270	110	1000	500	530
3	82	88,9	139	335	160	1250	500	530
4	100	114,3	159	370	170	1250	500	530

House Lead-in Combinations - steel Type G 459

Type KETH-G



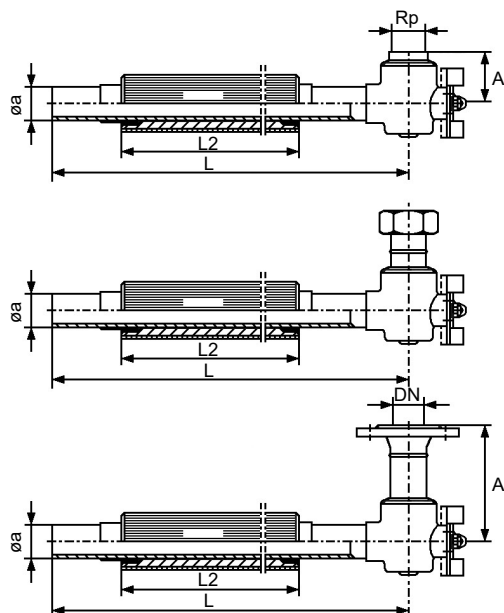
KETH-G with internal thread

KETH-G with flange

KETH-G with adjustment nut

Dimensionsschedule see page 1.2.8.2

Type KETH-E with right-angle ball valve and integrated HTB insulation joint - tests principle VP 301.
Representing (on request) a fixed point in wall.



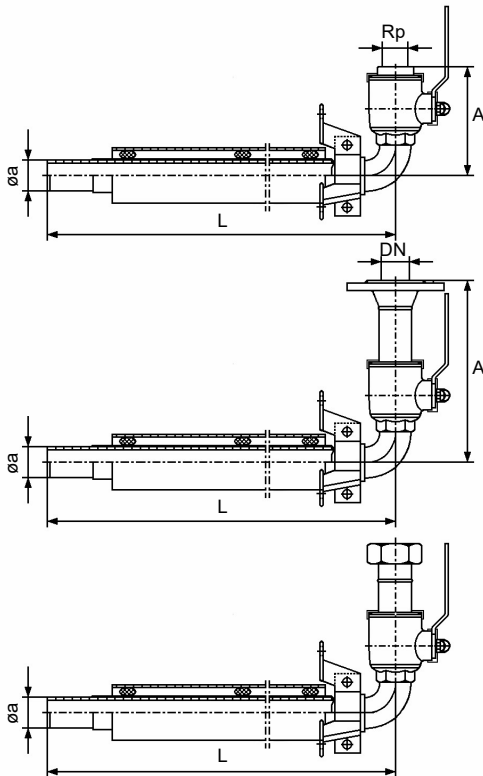
KETH-E with internal thread on feed side

KETH-E with adjustment nut

KETH-E with flange

Dimensionsschedule see page 1.2.8.2

House Lead-in Combinations - steel Type G 459



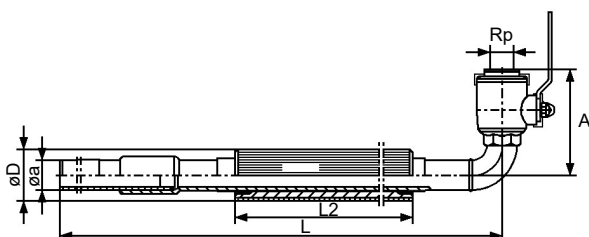
Type KETH-B

KETH-B with internal thread

KETH-B with flange

KETH-B with adjustment nut

- Scope of application** House lead-ins for gas with max 4 bar operating pressure burden, in temperature range from -10°C to +70°C.
Thermal capacity of ball valve up to 650°C.
- Scope of manufacture** Standard versions from 1" (DN 25) to 4" (DN 100) with weld-on end outside and internal thread on inside, insulating joint with spark-gap.
Choice of outside with PE union. On request supplied with seals adjustable from inside.
- Works testing** Internal pressure test in accordance with DIN 3230 del 5, PG 3. Electrical test of 1 minute withstand voltage of 2000 V (50 Hz). Carried out as routine check test to DIN 3537.
- Technical variants** Support pipe inside with external thread, flange or weld-on end. Supplied without wall lining duct. Manufactured without main stop valve facility and/or insulating joint. Insulating joint after or before the stop valve. Available in reduction version or with flat sealing adjustment nut. **On request with self-closing ball valve.**
- Materials** Plastic coated gas supply pipe in accordance with DIN 2442 af St 37.0, with acceptance in accordance with DIN, del 1. Wall lining duct made of roughened plastic or maintenance T-joint made of steel or 90° pipe bend. Main stop valve with intergrated insulating joint. Seals of Acrylonitrile rubber. (For further details see type HKSF-I/GT or HKSF).
- Corrosion protection** Steel pipe plastic coated, DIN 30670/N. External surface painter on inside yellow RAL 1012.

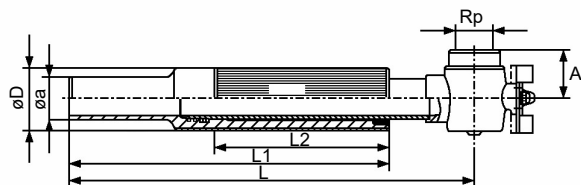


Type with RMA force limiter and fixed point in wall

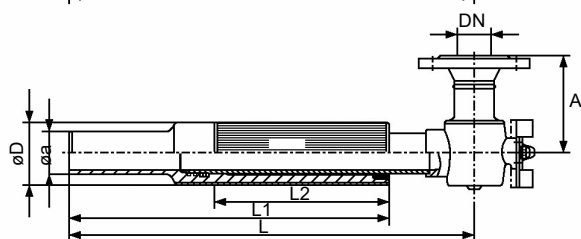
House Lead-in Combinations - steel Type KETH-S/PE (DBP) G 459

Serie KETH-SF-EL-PE-E
with right-angle ball valve,
test principle VP 301

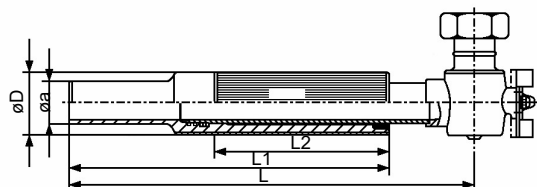
KETH-SF-EL-PE-E with internal thread



KETH-SF-EL-PE-E with flange

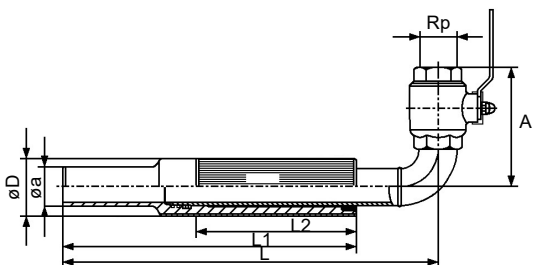


KETH-SF-EL-PE-E with adjustment nut

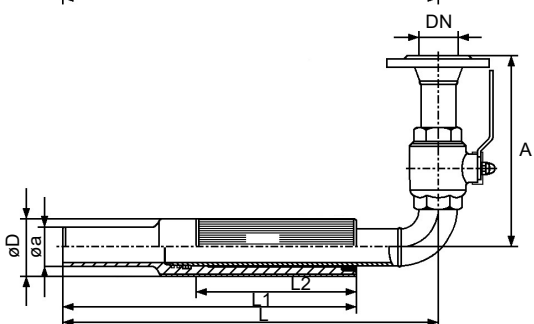


Serie KETH-SF-EL-PE-B

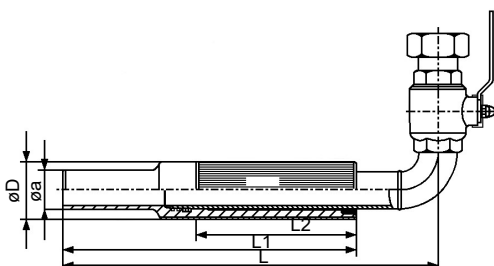
KETH-SF-EL-PE-B with internal thread



KETH-SF-EL-PE-B with flange

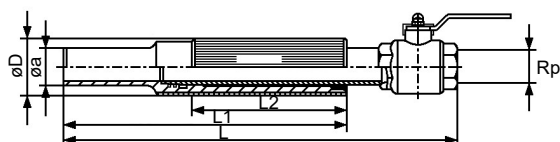


KETH-SF-EL-PE-B with adjustment nut

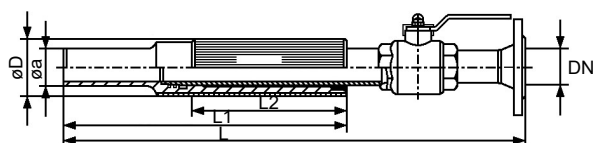


House Lead-in Combinations - PE/steel Type KETH-S/PE (DBP) G 459

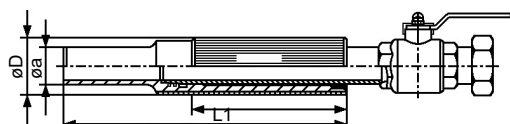
Serie KETH-SF-EL-PE-G



KETH-SF-EL-PE-G with internal thread



KETH-SF-EL-PE-G with flange



KETH-SF-EL-PE-G with adjustment nut

Pipe diameter		~L mm	L2 mm	D mm
steel pipe in "	PE pipe in mm			
1	32	730/1100/1250	470/715/865	64
1 1/4 x 1	40	730/1100/1250	470/715/865	64
1 1/2 x 1	50	730/1100/1250	470/715/865	64
1 1/4	40	730/1100/1250	470/715/865	80
1 1/2	50	730/1100/1250	470/715/865	80
2	63	730/1100/1250	470/715/865	95

Length L, L1 and L2 also available in other lengths.

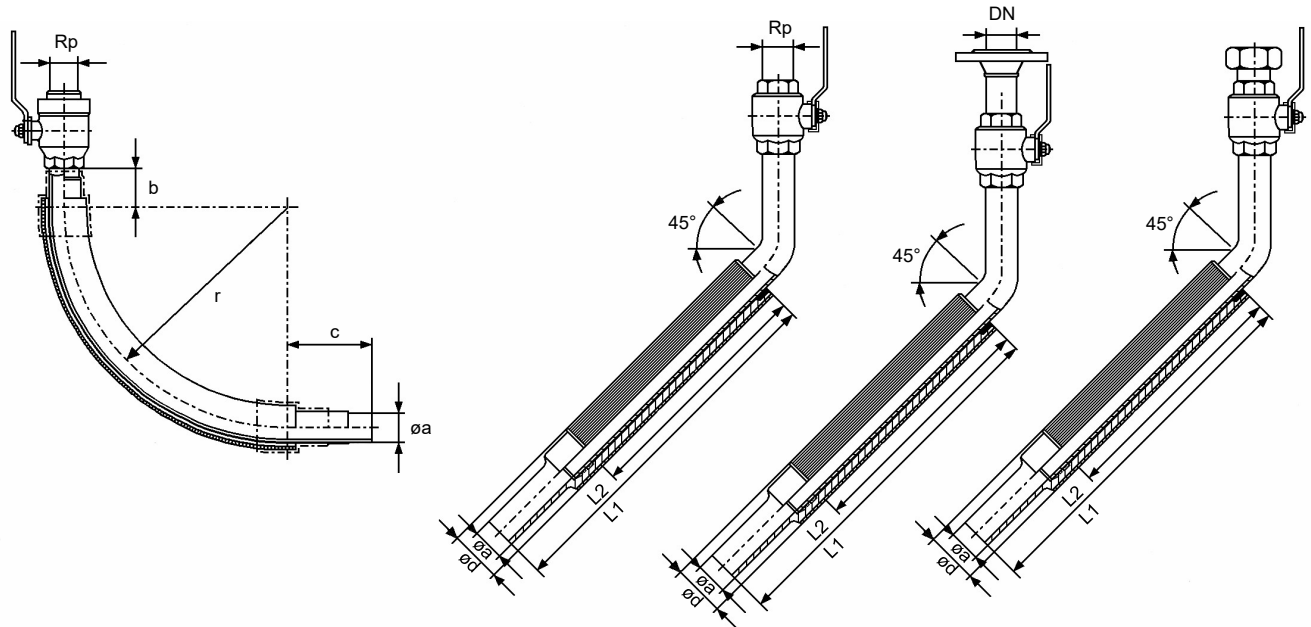
This completely innovative solution for an even safer HDPE gas connection is the result of years of experience and is based on well proven RMA safety measures. Gas sealed in case of fire and absolutely free of corrosion during its entire operation life. The steel/HDPE union is as before located underground outside the building. The danger of fire due to gas leak inside or outside the building is therefore totally excluded. The total freedom from corrosion of the steel gas supply pipes is achieved by means of the patented HDPE capsule design of the union which, after prior handling with corona, is gas sealed and inseparably connected to the gas supply pipe. By adding minerals to the outer layer the HDPE capsuling the modified materials forms a homogeneous solid connection with the wall construction material once built into the wall.

From this innovative RMA technique has resulted a patented process representing a fixed point in the wall which is unsurpassed in respect to gas and water tightness as well as extraction prevention.

This lead-in combines latest technology with a safety system which remains unequalled. With this house lead-in you have all corrosion and gas leak problems completely under control. All extension and bending forces which arise outside are safely dispersed in the wall.

A further advantage of the RMA capsule; additional extraction prevention device are rendered totally unnecessary by this design. The HD-PE capsuling is designed in such a way as to allow extension to be carried out on-site without problems using a resistance welded socket and a PE pipe.

House Lead-in Combinations for buildings without cellar



”	Rp mm	Øa mm	Ød mm	r mm	b mm	c mm	L1 mm	L2 mm
1	25	33,7	32	300-800	250	500	1060	865
1 1/4	32	42,4	40	300-800	250	500	1065	865
1 1/2	40	48,3	50	400-800	250	500	1065	865
2	50	60,3	63	400-800	250	500	1075	860

Scope of application House lead-in combinations in bent version for buildings without cellar. For all-gas with max. 4 bar operating pressure burden.

Scope of manufacture Standard versions from 1" (DN 25) to 4" (DN 100). Complete welded construction with ball valve. Gas supply pipe in accordance with DIN 2470 del 1, DIN 2442. For steel pipes with weld-on ends or for PE pipes steel/PE union. With wall lining duct.

Works testing Internal pressure test in accordance with DIN 3230 del 5, PG 3. Electrical test with 2000 V (50 Hz).

Technical variants Ball valve with or without disconnecter. In reducer version with flange thread or adjustment nut.
On request with self-closing ball valve.

Corrosion protection Steel pipe plastic coated, DIN 30670/N. External surfaces painted on inside yellow RAL 1012.