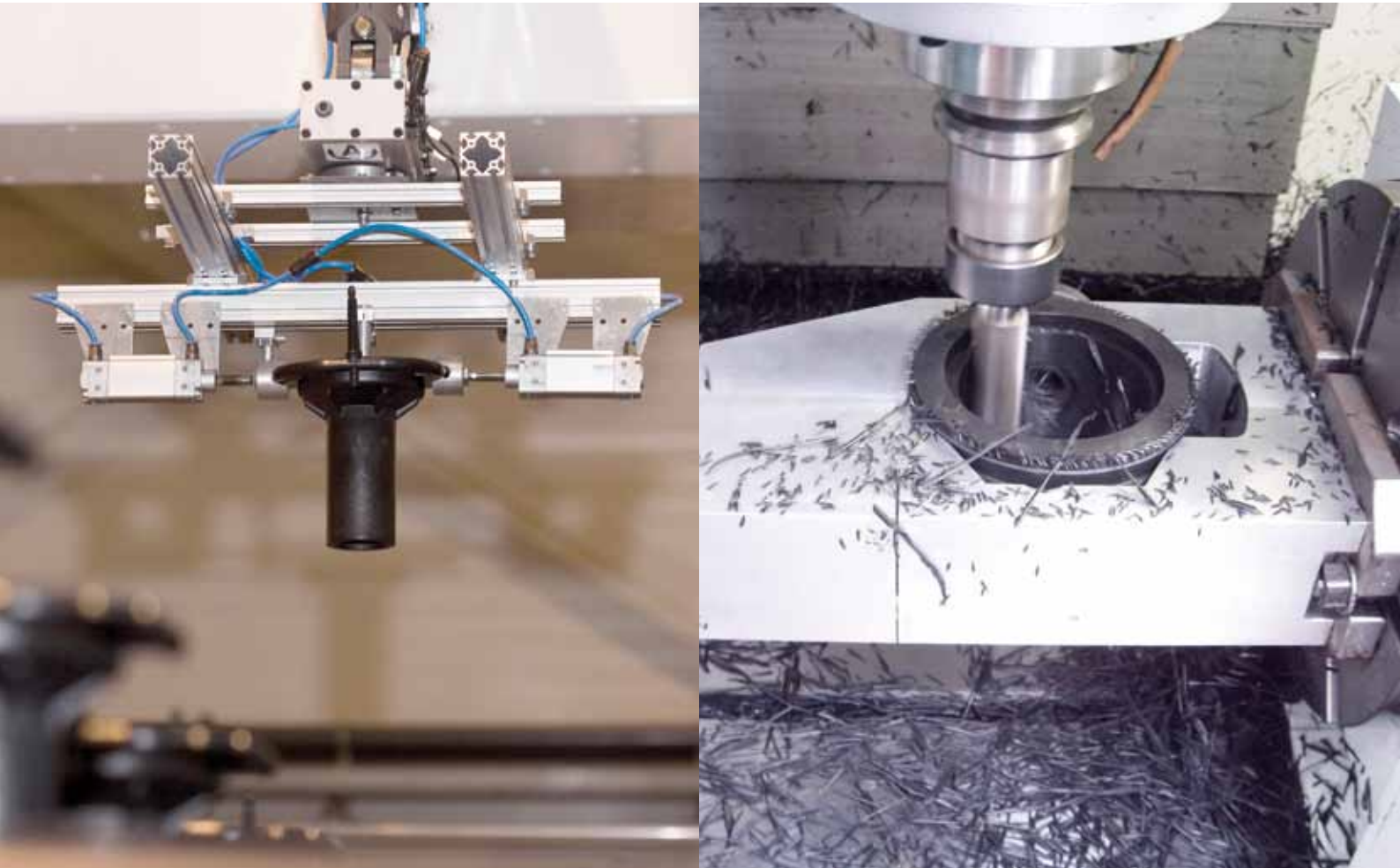


## AVK Stübbe PE 100 ball valves for gas

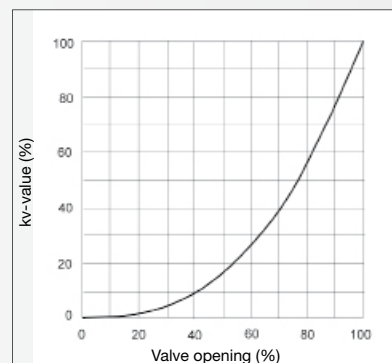
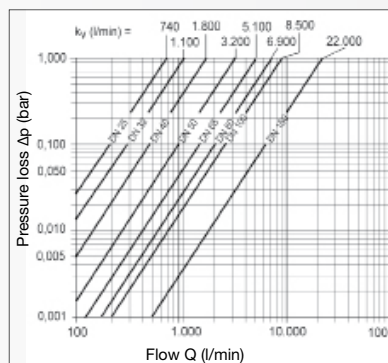


AVK INTERNATIONAL A/S

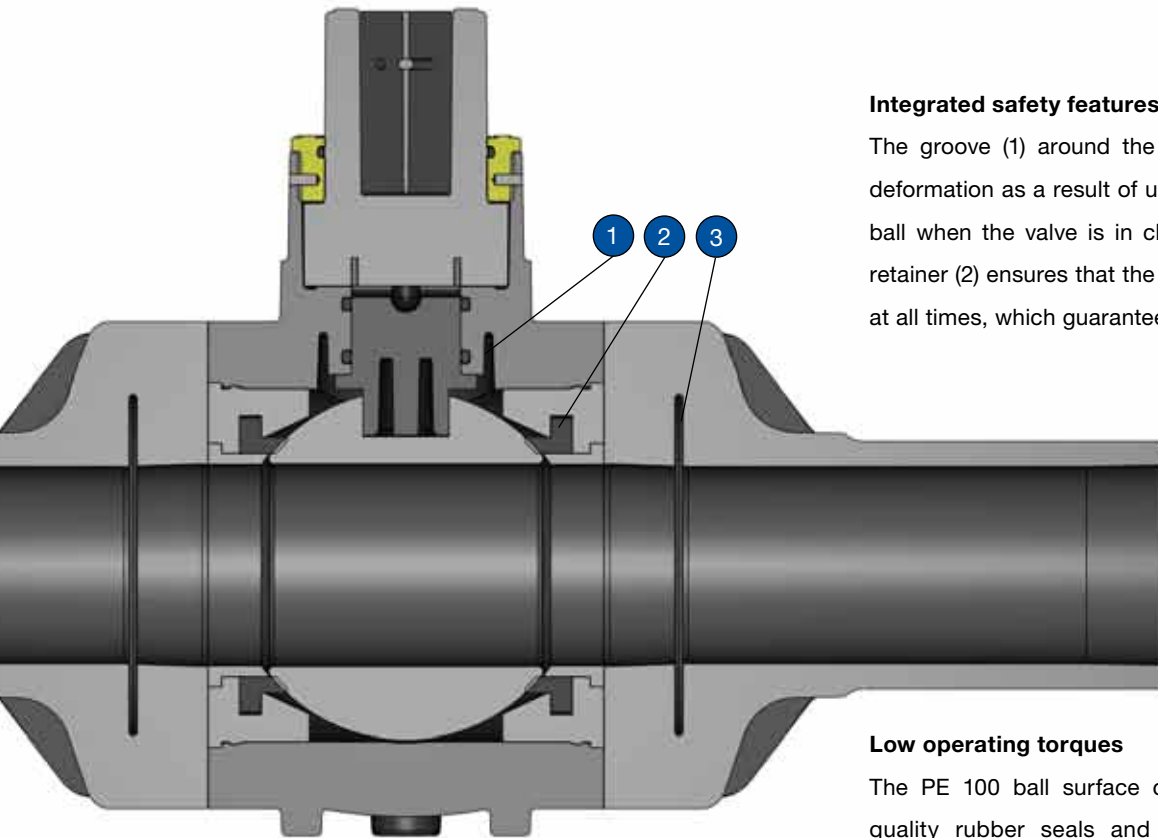
## New range of PE 100 ball valves extends the valve package



The PE 100 ball valves are produced with state-of-the-art machinery to guarantee a consistently high quality. We are able to trace the components throughout the manufacturing process from the initial injection moulding over machining and welding and to the final batch release test. Every valve is given a unique serial number which can be traced as far back as to the raw polyethylene material. The robust PE 100 ball valves have been extensively type tested against worldwide leading standards. They are DVGW approved, and we have carried out a number of additional tests exceeding the requirements specified in the standards.



## Proven design with integrated safety features



### Integrated safety features

The groove (1) around the stem will adapt to any deformation as a result of upstream pressure on the ball when the valve is in closed position. The seat retainer (2) ensures that the ball seat is kept in place at all times, which guarantees a reliable function.

### Low operating torques

The PE 100 ball surface combined with the high quality rubber seals and a special grease give low operating torques and prevent sticking. The expansion grooves (1+3) also contribute to low operating torques and eliminate the necessity of gearboxes.

### Safety connector prevents leaks

If the valve is overtorqued during opening or closing, the connector is, as a safety feature, designed to break before the valve seals in order to prevent leakage. The safety connector is replaceable under pressure.

### Components adapt equally to the temperature

Any differences in medium and surrounding temperatures may have an influence on the construction materials. PE 100 is used for the outer body, the ball and the seat retainer rings. This results in an equal distribution of expansion and shrinkage values on all components, and as a result their interfacing tolerances are maintained.

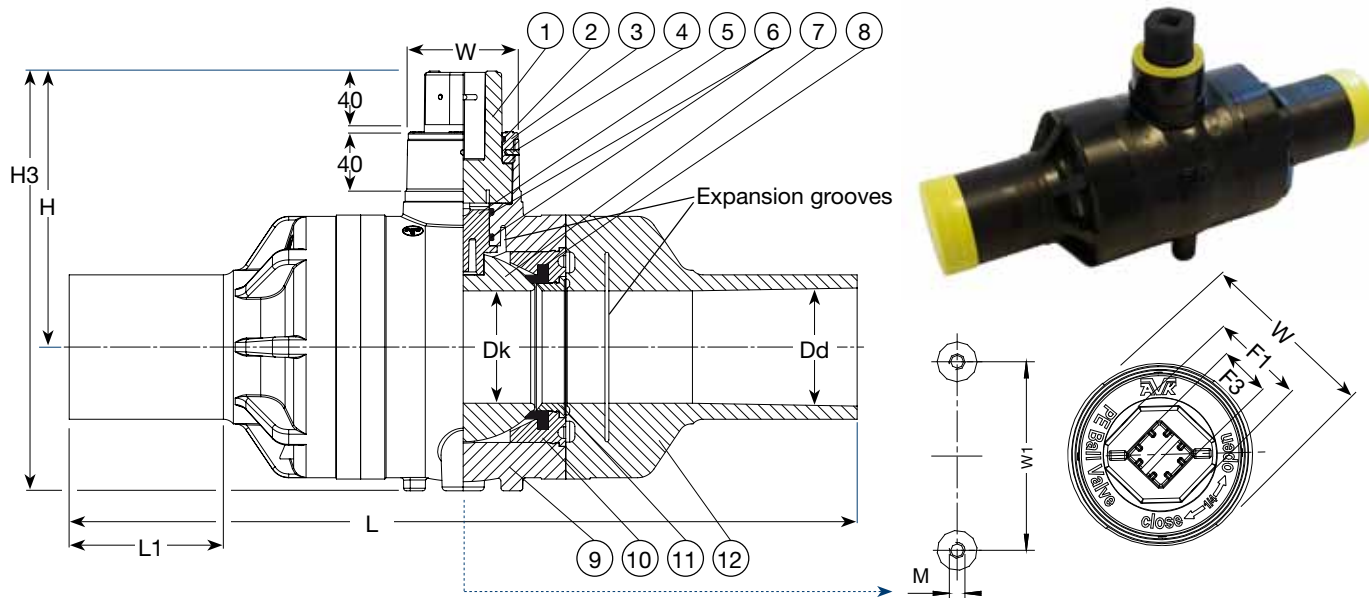


PE 100 ball valve to EN 1555-4 and DVGW VP 302, for gas -20°C to +40°C

PE 100 ball valve to EN 1555-4.

Body, spigot ends, ball, support ring, and seat retainers of PE 100, ensuring that their interfacing tolerances remain intact as temperature influences will have equal impact on all parts. Ball seat of NBR rubber.

Stem of POM, sealed by two NBR O-rings and a bearing ring of yellow PE 80 with indication of "PE ball valve", "1/4", and open/close direction. Connector of PA replaceable under pressure. As a safety feature the connector is designed to break and prevent leakage if the valve is overtorqued. Expansion grooves around the stem and in the spigot ends contribute to low operating torques and adapt to any deformation caused by internal pressure.



- |                 |                |              |                   |
|-----------------|----------------|--------------|-------------------|
| 1. Connector    | 4. Locking pin | 7. Ball      | 10. Seat retainer |
| 2. O-ring       | 5. Stem        | 8. Ball seat | 11. Support ring  |
| 3. Bearing ring | 6. O-rings     | 9. Body      | 12. Spigot end    |

AVK ref. nos.	DN mm	Dd mm	Dk bore mm	L mm	L1 mm	H mm	H3 mm	F1 mm	F3 mm	W mm	W1 mm	M mm	Torque Nm*)	Weight kg
85-032-50-100020	25	32	24	322	58	139	190	31.5	20.5	64	52	6.5	20	1.0
85-032-50-100040**	25	32	24	322	58	139	190	49.6	25.5	64	52	6.5	20	1.0
85-040-50-100020	32	40	32	410	100	145	203	31.5	20.5	64	52	6.5	20	1.2
85-040-50-100040**	32	40	32	410	100	145	203	49.6	25.5	64	52	6.5	20	1.2
85-050-50-100020	40	50	40	415	100	152	217	31.5	20.5	64	64	6.5	30	1.6
85-050-50-100040**	40	50	40	415	100	152	217	49.6	25.5	64	64	6.5	30	1.6
85-063-50-100030	50	63	50	435	100	176	252	49.6	25.5	85	84	6.5	30	2.7
85-075-50-200030	65	75	64	515	105	182	267	49.6	25.5	85	95	6.5	35	3.5
85-090-50-200030	80	90	74	550	110	200	299	49.6	25.5	85	118	6.5	45	6.2
85-110-50-100030	100	110	86	595	115	210	320	49.6	25.5	85	127	8.5	60	8.5
85-125-50-000030	100	125	86	610	125	210	320	49.6	25.5	85	127	8.5	60	9.1
85-160-50-100030	150	160	120	690	120	254	403	49.6	25.5	115	160	10.2	80	19.7
85-180-50-000030	150	180	120	690	120	254	403	49.6	25.5	115	160	10.2	80	20.0

\*) The stated torques are approximate values. They have been defined with operating pressure p = 10 bar with 20°C water.

\*\*) With adaptor on safety connector