

PE BALL VALVES



CERTUS™ PE BALL VALVES FOR GAS AND WATER

Body and spigots manufactured from high performance **PE100**. This material can be welded to all PE100 and PE80 pipes.

The spigots are butt welded to the body. **Visual beads** reassuring joint quality for each weld.

Modular design of top cap allowing for customer specific versions and a variety of accessories.

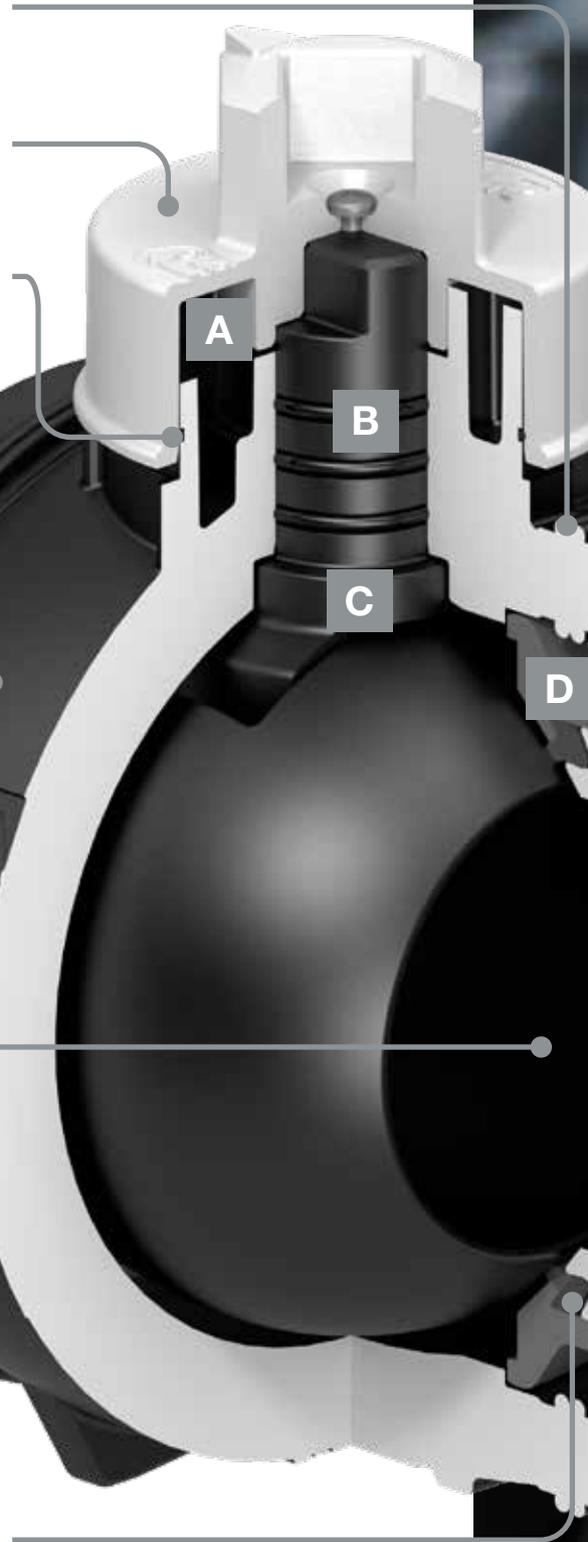
The valves are equipped with a **weather seal** avoiding ingress of ground water and dirt into the operating mechanism.

All spigot ends are delivered with **double spigot length** allowing for a second electrofusion weld if the first one fails.

All **Certus** Series 85/30 valves are designed with a **clearway bore** (sizes d20, 32, 63, 90, 110 and 160mm only) ensuring no additional pressure drop and greater flow through the valve for the same pressure. The clearway bore allows for pigging of pipes.

The **spigot ends are machined** on the inside as well as on the outside, guaranteeing a uniform wall thickness, allowing for optimal welding of electrofusion couplers and the smooth inner surface prevents deposits and will minimise flow resistance.

The floating ball principle and **special shaped ball seats** are designed to ensure sealing at all times and be less affected by dirt or debris.



The **Certus Series 85/30** is an extensive range of PE ball valves up to d180 used for isolation of water and gas service to both domestic and commercial premises.

The Certus PE100 ball valves are manufactured at AVK Syntec, a modern purpose built and well equipped manufacturing facility complying with the international standard ISO/TS 29001:2010 quality management system, uses state of the art machinery and methods to produce high quality products.

Every valve is individually tested and given a unique serial number which can be traced as far back as the raw polyethylene material.



If the valve is over torqued, the top cap is designed to fail before the valve seals, thus preventing a leak to atmosphere. The **safety top cap** can be replaced easily under live conditions.

All of the manufacturing processes are managed to the exacting standards of the ISO 9001 certification and ISO/TS 29001:2010.

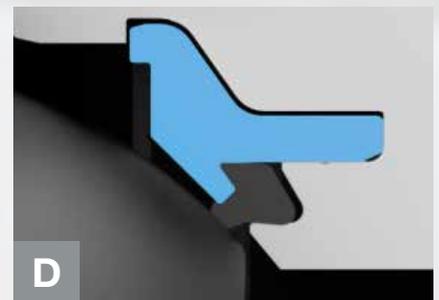
These robust PE ball valves have been extensively and independently type tested against worldwide leading standards such as GIS/V7: Part 2, EN 1555-4. Full documented records of type testing are maintained by AVK and are available on request.



Triple O-ring construction around the stem guaranteeing sealing safety at all times, even during ground movement.



The intentionally over-designed stem is extremely strong and of the **anti blow-out** type.



The **seat retainer** design ensures the ball seat is kept in place at all times. This optimal design prevents the ball seat from being dislodged, which guarantees a good functionality throughout the years.



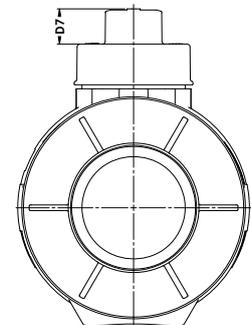
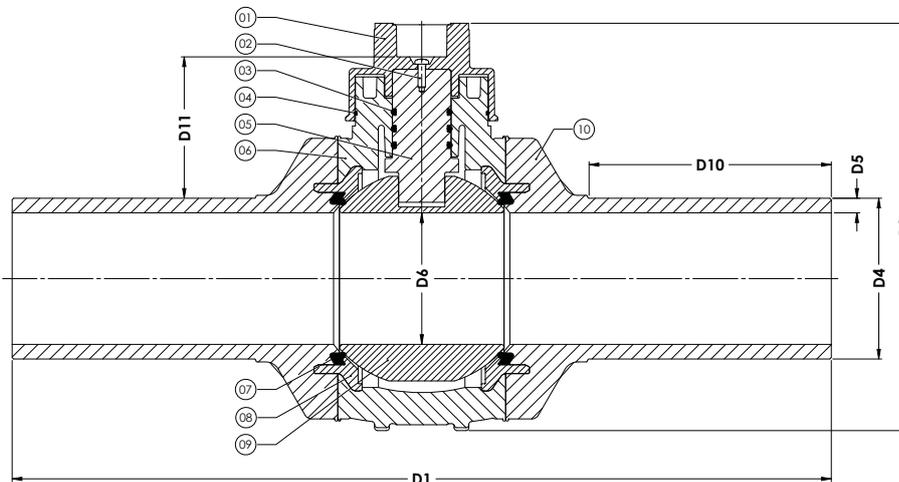
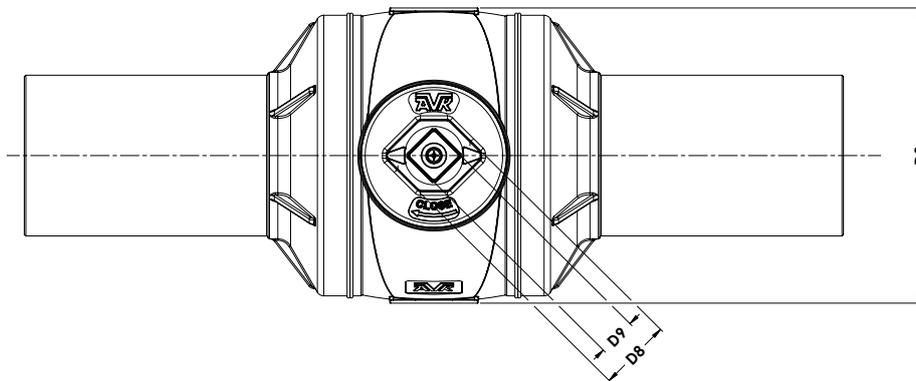
CERTUS PE Ball Valve

Specification

- PE100, SDR11 (SDR17 / 17.6 available upon request)
- GIS/V7: Part 2 / EN 1555-4 / ISO4437-4 / EN12201-4
- MOP dependant on SDR Rating
- Clearway bore - Sizes d20, 32, 63, 90,110 and 160
- Full bore - Sizes d40, 125 and 180
- d20 -180



Code	d	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
850203023203006	20	305	155	95	20	3.0	26	46	49.6	20x20	82	76	0.8	C	90.19
850323023203006	32	320	155	95	32	3.0	26	46	49.6	20x20	88	70	0.8	A	95.48
850403013203006	40	340	155	95	40	3.7	26	46	49.6	20x20	98	66	0.9	B	133.84
850633023203006	63	435	205	135	63	5.8	51	46	49.6	20x20	130	84	1.8	A	153.70
850903023203006	90	520	285	180	90	8.2	74	46	49.6	20x20	158	123	3.8	B	305.88
851103021203006	110	560	280	205	110	10.0	90	31	49.6	20x20	164	96	5.5	B	397.66
851253011203006	125	585	280	205	125	11.4	90	31	49.6	20x20	182	89	5.9	B	412.96
851603021203006	160	700	370	280	160	14.6	131	35	49.6	20x20	196	120	13.8	B	1,108.82
851803011203006	180	735	370	280	180	16.4	131	35	49.6	20x20	220	110	14.4	B	1,124.11





CERTUS Installation Kit

Specification

- Installation Kit to suit d20, 32, 40, 63 and 90 Certus Valves
- Available with or without lid



Code	Description	Weight	Delivery Code	Gross Price
		Kg		£ GBP
85999090	Installation kit including surface box	2.6	C	160.37
85999091	Installation kit without surface box	2.3	C	140.72

CERTUS Square Drive Tee Key

Specification

- 50mm Square Drive Tee Key to suit Certus PE Ball Valves
- Length range 750-1500mm



Code	Range	Weight	Delivery Code	Gross Price
	mm	Kg		£ GBP
9642500002	750mm long	1.5	C	181.61
9642500003	1,000mm long	2.2	C	171.03
9642500004	1,500mm long	3	C	301.31

MAGNUS™ PE BALL VALVES FOR GAS AND WATER

All spigot ends are delivered with the **double spigot length** option allowing for a second electrofusion weld if the first one fails.

The spigots are butt welded to the body. **Visual beads** reassuring joint quality for each weld in complete pipe line.

The valves are equipped with a **weather seal** avoiding ingress of ground water and dirt into the operating mechanism.

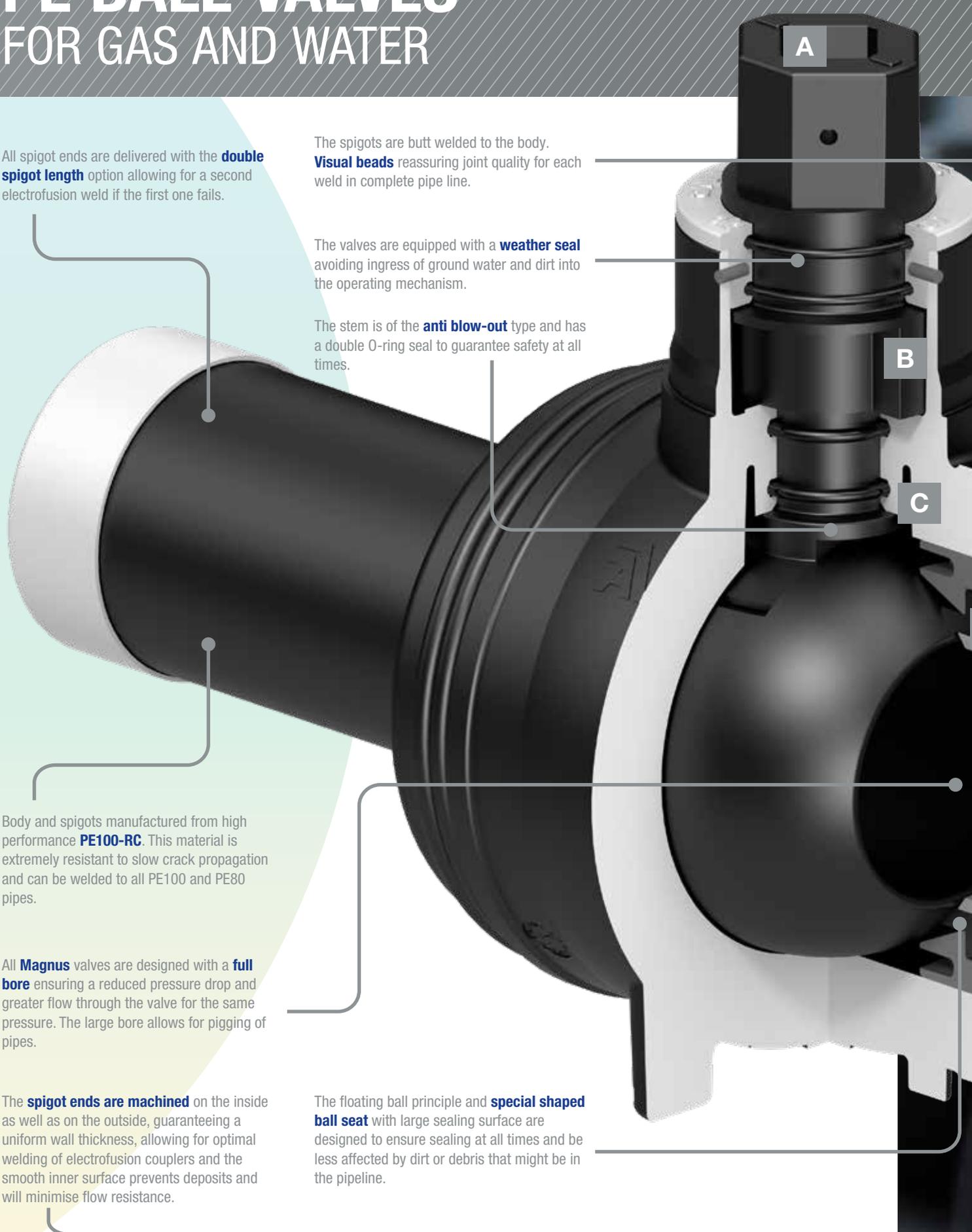
The stem is of the **anti blow-out** type and has a double O-ring seal to guarantee safety at all times.

Body and spigots manufactured from high performance **PE100-RC**. This material is extremely resistant to slow crack propagation and can be welded to all PE100 and PE80 pipes.

All **Magnus** valves are designed with a **full bore** ensuring a reduced pressure drop and greater flow through the valve for the same pressure. The large bore allows for pigging of pipes.

The **spigot ends are machined** on the inside as well as on the outside, guaranteeing a uniform wall thickness, allowing for optimal welding of electrofusion couplers and the smooth inner surface prevents deposits and will minimise flow resistance.

The floating ball principle and **special shaped ball seat** with large sealing surface are designed to ensure sealing at all times and be less affected by dirt or debris that might be in the pipeline.



The **Magnus Series 85/50** is an extensive range of PE ball valves up to d180 used for isolation of water and gas service to both domestic and commercial premises.

The range have been extensively and independently type tested against worldwide leading standards such as EN1555-4, ISO4437-4 and EN12201-4 for water applications.

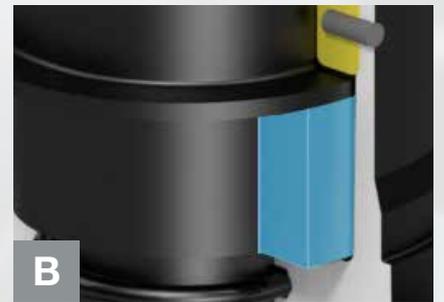
Magnus ball valves have undergone additional testing over and above that required in the specification. This ensures that the valve is suitable for distribution systems and environments anywhere in the world.

The extensive Magnus ball valve range consists of multiple sizes starting at d25 up to d180. Depending on the requested pressure rating the valves are available with SDR11 or SDR 17 spigot ends. The selected materials are tested and approved for GAS and WATER applications.

The valves are rated as MOP10 for GAS applications and PN16 for WATER.



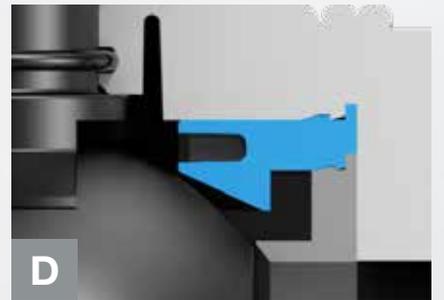
A Due to the **internal and external drive** the valves can be operated by all standardised spindles.



B If the valve is over torqued during opening or closing, the connector is designed to fail before the valve seals, thus preventing a leak to atmosphere. The **safety connector** can be replaced under live conditions.



C The **flexible spindle shaft** ensures equal compression around the O-rings when loaded by internal pressure. At the same time the groove will adapt to any deformation as a result of upstream pressure on the ball when the valve is in the closed position.



D The **seat retainer and support ring** design ensure the ball seat is kept in place at all times. This optimal design prevents the ball seat from being dislodged, which guarantees a good functionality throughout the years.



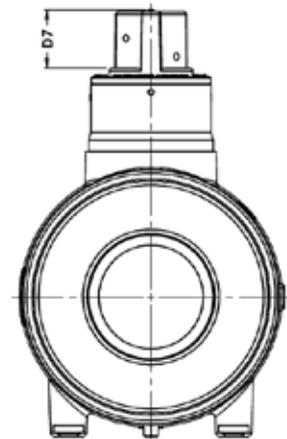
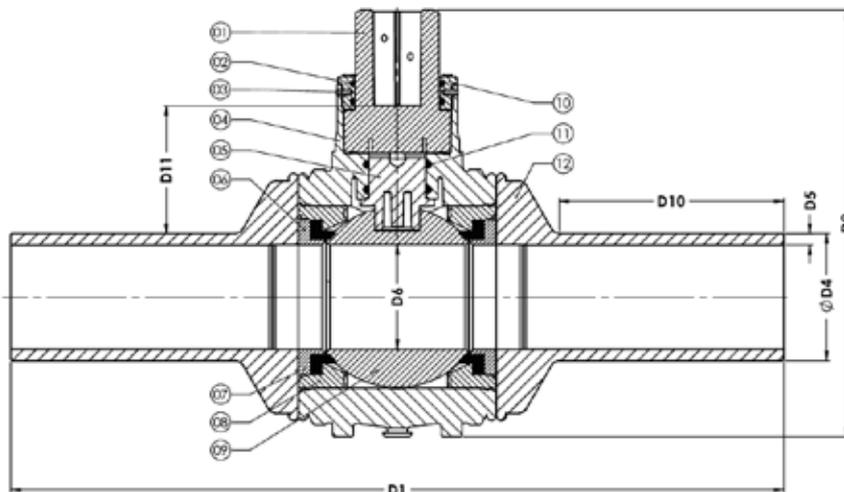
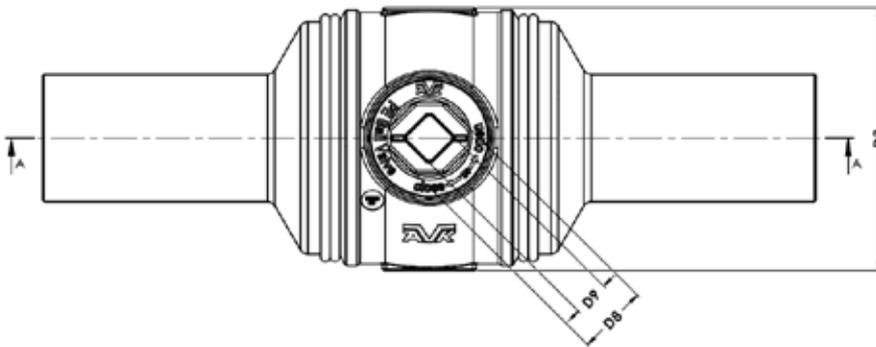
MAGNUS PE Ball Valve

Specification

- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d25-180



Code	D4 mm	D6 mm	D1 mm	D2 mm	D3 mm	D5 mm	D7 mm	D8 mm	D9 mm	D10 mm	D11 mm	Weight Kg	Delivery Code	Gross Price £ GBP
850255022204017	25	25	310	190	90	3.0	35	49.6	20.5	84	65	0.9	C	108.17
850325012204017	32	25	320	190	90	3.0	35	49.6	20.5	90	62	0.9	B	114.62
850405012204017	40	32	340	205	100	3.7	35	49.6	20.5	98	65	1.1	C	160.59
850505012204017	50	40	365	220	115	4.6	35	49.6	20.5	111	65	1.4	C	172.04
850635012204007	63	50	440	255	140	5.8	40	49.6	25.5	128	80	2.5	C	184.44
850905022204007	90	74	545	300	185	8.2	40	49.6	25.5	158	90	5.0	C	367.07
851105012204007	110	86	585	320	205	10.0	40	49.6	25.5	165	90	6.7	C	477.20
851255012204007	125	86	595	320	205	11.4	40	49.6	25.5	176	80	7.2	C	495.54
851605012204007	160	120	710	405	285	14.6	40	49.6	25.5	196	105	16.3	C	1,330.59
851805012204007	180	120	725	405	285	16.4	40	49.6	25.5	210	95	17.3	C	1,348.94





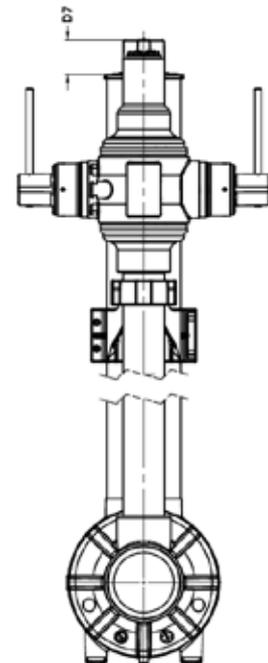
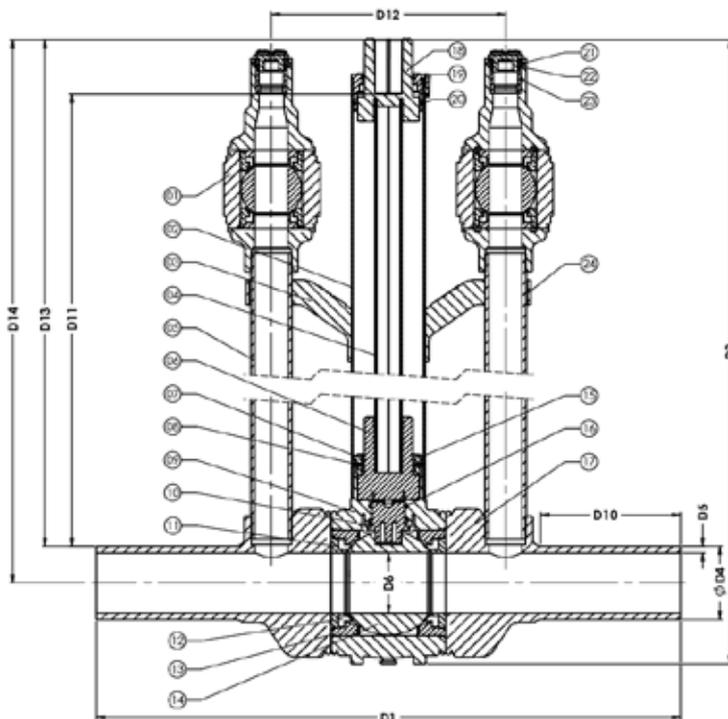
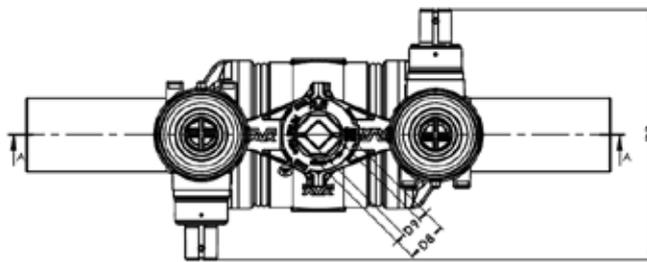
MAGNUS PE Ball Valve with Stem Extension and 2 Purge Points

Specification

- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d63-180



Code	D4	D6	D1	D2	D3	D5	D7	D8	D9	D10	D11	D12	D13	D14	Weight Kg	Delivery Code	Gross Price £ GBP
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm				
85063501200400722	63	50	715	810	305	5.8	40	49.6	25.5	170	635	285	700	730	8.7	B	848.61
85090502200400722	90	74	710	855	305	8.2	40	49.6	25.5	170	645	285	710	755	12.0	B	1,077.28
85110501200400722	110	86	715	875	305	10.0	40	49.6	25.5	170	645	285	710	765	13.8	C	1,179.29
85125501200400722	125	86	715	875	305	11.4	40	49.6	25.5	170	635	285	700	765	14.6	B	1,180.95
85160501200400722	160	120	795	1045	305	14.6	40	49.6	25.5	170	750	355	815	895	26.3	C	2,226.04
85180501200400722	180	120	795	1045	305	16.4	40	49.6	25.5	170	740	355	805	895	27.1	B	2,226.04





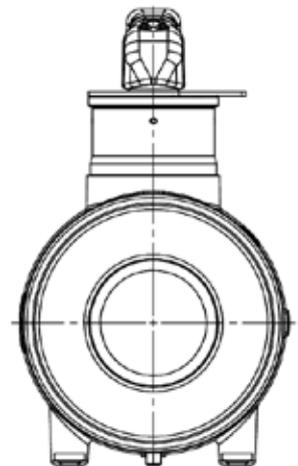
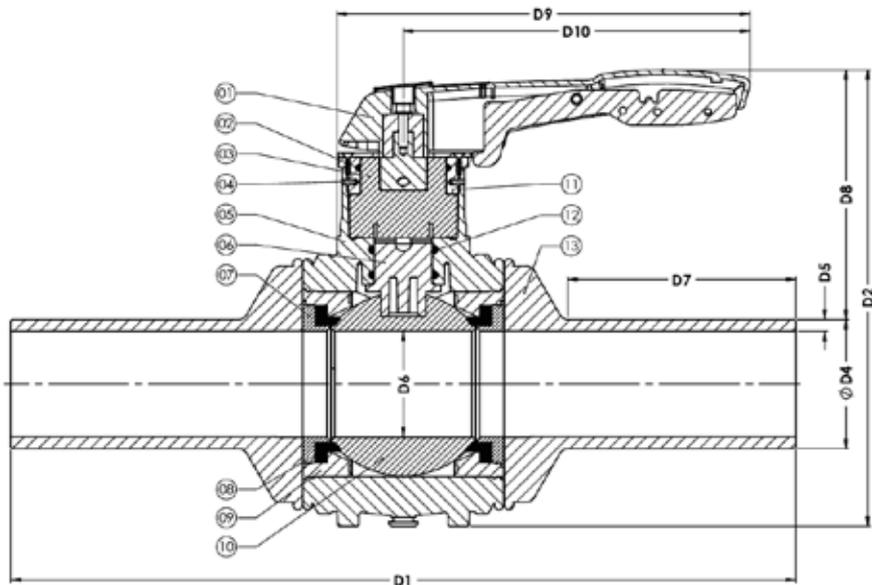
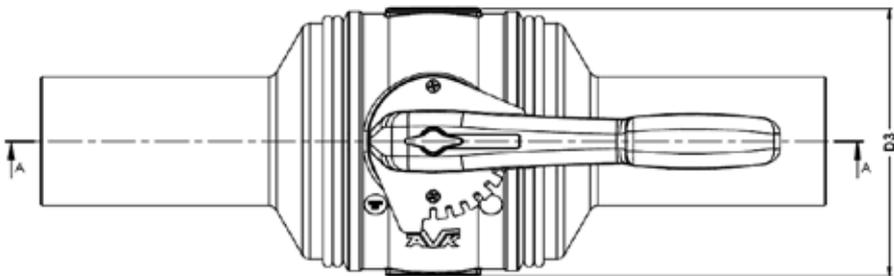
MAGNUS PE Ball Valve with Lever

Specification

- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d25-180



Code	D4 mm	D6 mm	D1 mm	D2 mm	D3 mm	D5 mm	D7 mm	D8 mm	D9 mm	D10 mm	Weight Kg	Delivery Code	Gross Price £ GBP
85025502220408730	25	25	310	205	90	3.0	84	140	230	195	1.3	C	232.58
85032501220408730	32	25	320	205	90	3.0	90	140	230	195	1.3	C	220.91
85040501220408730	40	32	340	220	100	3.7	98	140	230	195	1.4	C	282.10
85050501220408730	50	40	365	235	115	4.6	111	145	230	195	1.7	C	265.64
85063501220409731	63	50	440	270	140	5.8	128	165	286	240	3.1	C	366.92
85090502220409731	90	74	545	320	185	8.2	158	175	286	240	5.4	C	528.02
85110501220409731	110	86	585	335	205	10.0	165	170	286	240	7.4	C	647.93
85125501220409731	125	86	595	335	205	11.4	176	165	286	240	7.8	C	659.53
85160501220410732	160	120	710	420	285	14.6	196	210	450	390	17.4	C	1,585.65
85180501220410732	180	120	725	420	285	16.4	210	205	450	390	18.5	C	1,707.45





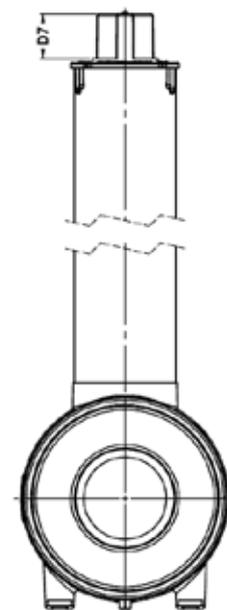
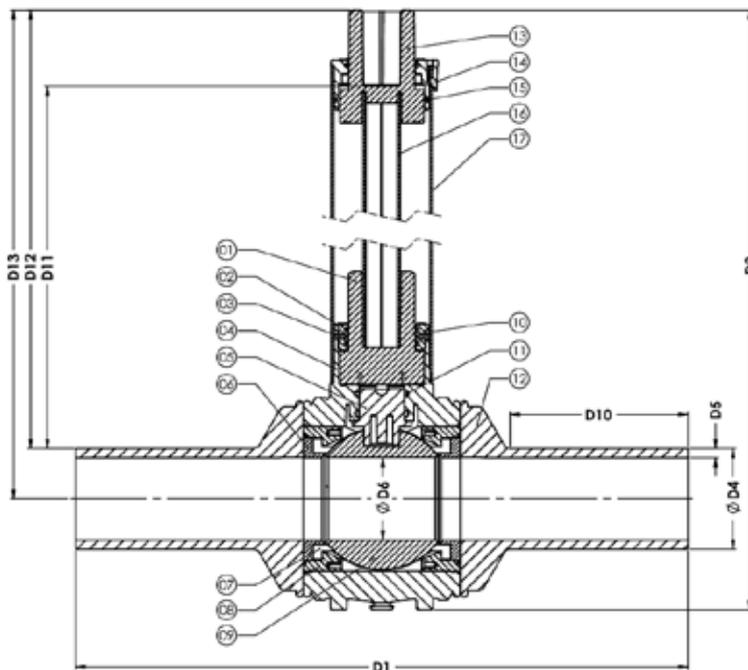
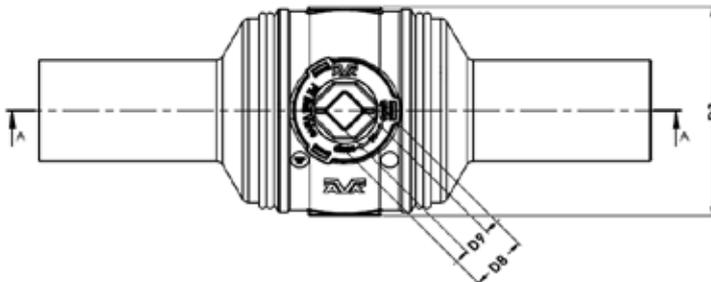
MAGNUS PE Ball Valve with Stem Extension

Specification

- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d63-180



Code	D4	D6	D1	D2	D3	D5	D7	D8	D9	D10	D11	D12	D13	Weight	Delivery Code	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg		£ GBP
85063501220400720	63	50	440	810	140	5.8	40	49.6	25.5	128	635	700	730	3.9	B	311.90
85090502220400720	90	74	545	855	185	8.2	40	49.6	25.5	158	645	710	755	6.4	B	473.28
85110501220400720	110	86	585	875	205	10.0	40	49.6	25.5	165	645	710	765	8.2	C	592.83
85125501220400720	125	86	595	875	205	11.4	40	49.6	25.5	176	635	705	765	8.6	C	602.11
85160501220400720	160	120	710	1045	285	14.6	40	49.6	25.5	196	750	815	895	18.4	C	1,503.29
85180501220400720	180	120	725	1045	285	16.4	40	49.6	25.5	210	740	805	895	19.4	C	1,521.78





MAGNUS PE Ball Valve with Stem Extension and 1 Purge Point

Specification

- PE100, SDR11 (SDR17.6 available upon request)
- EN12201-4 / EN 1555-4 / ISO4437-4 / GB15558.3
- Full Bore
- d63-180



Code	D4	D6	D1	D2	D3	D5	D7	D8	D9	D10	D11	D12	D13	D14	Weight	Delivery	Gross Price
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg	Code	£ GBP
85063501200400721	63	50	715	810	152.5	5.8	40	49.6	25.5	170	635	285	700	730	6.8	C	616.18
85090502200400721	90	74	710	855	152.5	8.2	40	49.6	25.5	170	645	285	710	755	9.9	C	844.99
85110501200400721	110	86	715	875	152.5	10.0	40	49.6	25.5	170	645	285	710	765	11.9	C	945.62
85125501200400721	125	86	715	875	152.5	11.4	40	49.6	25.5	170	635	285	700	765	12.6	C	947.87
85160501200400721	160	120	795	1045	152.5	14.6	40	49.6	25.5	170	750	355	815	895	24.2	C	1,983.96
85180501200400721	180	120	795	1045	152.5	16.4	40	49.6	25.5	170	740	355	805	895	25.0	C	1,989.91

