



Petro Valves

Ball valve Solutions

High Technology

One Piece, Two-Piece & Three-Piece Ball Valves Manufacturer

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About us

The Petro Valves has been founded in 2007 and company is subsidiary of Petro Power in the United Kingdom.

We are a leading Manufacturer of ball valves, high pressure ball valves, flanged ball valve, stainless steel ball valve, brass ball valves, one-piece, two-piece & three-piece ball valves, three-way ball valves, heated ball valves, ball valves with actuators, PTFE lined ball valves, PTFE lined three-way ball valves, ball valves with ceramic insert, plug valves, PTFE lined plug valves, centric butterfly valves, PTFE lined butterfly valves, eccentric butterfly valves, check valves, PTFE lined check valves, sight glasses, PTFE lined sight glasses, PTFE lined pipes and fittings, diaphragm valves, gate valves, globe valves, safety valves, sampling valve systems, gasket sheets, gaskets, packing cords.

With over 10 years of continued success and outstanding growth, Petro Valves has become one of the premier quarter-turn butterfly valve, ball valve, and pneumatic and electric actuator manufacturers in the UK, and the largest manual and automated butterfly valve manufacturer in the Northern England. With global operations in over 12 countries, Petro Valves has developed a fully integrated and innovative product line in the world's largest and fastest growing economies. These products are engineered to meet the needs and expectations of our customers.

Certified ISO 9001

Petro Valves manufacturing facilities are certified to ISO 9001 and EU Directives, assuring product quality, precision manufacturing and internal process integrity.

Expertise

Petro Valve's extensively trained staff is knowledgeable in all aspects of flow control technology and provide personal attention to every customer. To serve you locally, each region maintains a factory certified sales and service network for all Petro Valves products.

Our experienced valve automation experts are happy to assist all customers, big or small. The Assured Automation sales & support staff have extensive training in valve automation and know our product line like the back of their hands. If you have a question, please don't hesitate to contact us using the links below.

Features:

- Customization available
- Robust and approved design
- Better fit
- Material Offered:
 - Inconel
 - Duplex Stainless Steel
 - Alloy Steel
 - Aluminium Bronze
 - Low Carbon Steel
 - Cast Steel
 - Stainless Steel Material

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FLANGED BALL VALVES

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-2k	INTERFLANGED BALL VALVE	PN-EN	DN10÷DN250	PN10÷PN40	-50°C ÷ +250°C	10
DP-3k	FLANGED BALL VALVE	PN-EN	DN10÷DN250	PN6÷PN40	-50°C ÷ +250°C	12
DP-31k	FLANGED BALL VALVE	PN-EN	DN100÷DN250	PN6÷PN40	-50°C ÷ +250°C	14
DP-23k	FLANGED BALL VALVE	PN-EN	DN10÷DN250	PN6÷PN40	-50°C ÷ +250°C	16
DP-1k	FLANGED BALL VALVE	PN-EN	DN10÷DN150	PN6÷PN40	-50°C ÷ +250°C	18
DP-1kS	FLANGED BALL VALVE	PN-EN	DN10÷DN50	PN6÷PN100	-50°C ÷ +250°C	20
DP-41k	FLANGED SCREWED BALL VALVE	PN-EN	DN10÷DN50	PN6÷PN100	-50°C ÷ +250°C	22
DP-2b	INTERFLANGED BALL VALVE	PN-EN	DN10÷DN100	PN10÷PN40	-50°C ÷ +200°C	24
DP-400k	FLANGED BALL VALVE 400°C	PN-EN	DN10÷DN100	PN16÷PN100	-50°C ÷ +400°C	26
DP-405k	FLANGED BALL VALVE METAL-METAL	PN-EN	DN10÷DN150	PN16÷PN100	-50°C ÷ +200°C	28
DP-430k	FLANGED BALL VALVE	PN-EN	DN10÷DN200	PN63÷PN100	-50°C ÷ +200°C	30
DP-21k	FLANGED BALL VALVE	DIN	DN32÷DN80	PN10÷PN40	-50°C ÷ +250°C	32
DP-25k	FLANGED BALL VALVE	DIN	DN50÷DN100	PN6÷PN40	-50°C ÷ +250°C	34
DP-22k	FLANGED BALL VALVE	DIN	DN100÷DN250	PN6÷PN40	-50°C ÷ +250°C	36
DP-3kC	FLANGED BALL VALVE	ANSI	NPS1/2"÷NPS10"	Class150, 300	-50°C ÷ +250°C	38
DP-31kC	FLANGED BALL VALVE	ANSI	NPS 4"÷ NPS 10"	Class150, 300	-50°C ÷ +250°C	38
DP-24kC	FLANGED BALL VALVE	ANSI, ASME	NPS1/2"÷NPS10"	Class150, 300	-50°C ÷ +250°C	40
DP-44kC	FLANGED SCREWED BALL VALVE	ANSI, ASME	NPS1/2"÷ NPS 2"	Class150, 300, 600	-50°C ÷ +250°C	42
DP-1kC	FLANGED BALL VALVE	ANSI	NPS1/2"÷ NPS 6"	Class150, 300	-50°C ÷ +250°C	44
DP-430kC	FLANGED BALL VALVE	ANSI	NPS1/2"÷NPS10"	Class150, 300, 600	-50°C ÷ +200°C	46



INTERNAL AND EXTERNAL THREADED BALL VALVES

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-3gw	INTERNAL THREADED BALL VALVE	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	48
DP-3gz	EXTERNAL THREADED BALL VALVE	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	48
DP-1gw	INTERNAL THREADED BALL VALVE	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	50
DP-1gz	EXTERNAL THREADED BALL VALVE	PN-EN	DN10÷DN100	PN6÷PN40	50°C ÷ +250°C	50
DP-1gwS	INTERNAL THREADED SCREWED BALL VALVE	PN-EN	DN10÷DN50	PN6÷PN100	-50°C ÷ +250°C	52
DP-1gzS	EXTERNAL THREADED SCREWED BALL VALVE	PN-EN	DN10÷DN50	PN6÷PN100	-50°C ÷ +250°C	52
DP-400gw	INTERNAL THREADED BALL VALVE 400°C	PN-EN	DN10÷DN100	PN6÷PN100	-50°C ÷ +400°C	54
DP-430gw	INTERNAL THREADED BALL VALVE	PN-EN	DN65÷DN100	PN63÷PN100	-50°C ÷ +200°C	56
DP-410gw	INTERNAL THREADED BALL VALVE	ANSI	NPS3/8"÷NPS3"	Class150, 300, 600, 800	-50°C ÷ +200°C	58

BALL VALVES FOR WELDING

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-3p	BALL VALVE FOR WELDING	PN-EN	DN10÷DN250	PN6÷PN40	-50°C ÷ +250°C	60
DP-24p	BALL VALVE FOR WELDING	PN-EN	DN10÷DN250	PN6÷PN40	-50°C ÷ +250°C	62
DP-1p	BALL VALVE FOR WELDING	PN-EN	DN10÷DN150	PN6÷PN40	-50°C ÷ +250°C	64
DP-1pS	SCREWED BALL VALVE FOR WELDING	PN-EN	DN6÷DN50	PN6÷PN100	-50°C ÷ +250°C	66
DP-400p	BALL VALVE FOR WELDING 400°C	PN-EN	DN10÷DN100	PN16÷PN100	-50°C ÷ +400°C	68
DP-405p	BALL VALVE FOR WELDING METAL-METAL	PN-EN	DN25÷DN150	PN16÷PN100	-50°C ÷ +200°C	70
DP-430p	BALL VALVE FOR WELDING	PN-EN	DN65÷DN250	PN16÷PN100	-50°C ÷ +200°C	72
DP-32pSW	BALL VALVE FOR WELDING SOCKET WELD	ANSI	NPS1/2"÷NPS10"	Class150, 300	-50°C ÷ +250°C	74
DP-34pC	BALL VALVE FOR WELDING	ANSI, ASME	NPS1/2"÷NPS10"	Class150,300	-50°C ÷ +250°C	74
DP-24pC	BALL VALVE FOR WELDING	ANSI	NPS1/2"÷NPS10"	Class150, 300	-50°C ÷ +250°C	76
DP-44pC	SCREWED BALL VALVE FOR WELDING	ANSI, ASME	NPS1/2"÷NPS2"	Class150, 300, 600	-50°C ÷ +250°C	78
DP-44pSW	BALL VALVE FOR WELDING SOCKET WELD	ANSI	NPS1/2"÷NPS2"	Class150, 300, 600	-50°C ÷ +250°C	80



THREE-WAY FLANGED BALL VALVES

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-5k	THREE-WAY FLANGED BALL VALVE	PN-EN	DN10÷DN250	PN6÷PN40	-50°C ÷ +250°C	82
DP-450k	THREE-WAY FLANGED BALL VALVE	PN-EN	DN10÷DN150	PN10÷PN100	-50°C ÷ +200°C	84
DP-5kC	THREE-WAY FLANGED BALL VALVE	ANSI	NPS1/2"÷NPS10"	Class150,300	-50°C ÷ +250°C	86
DP-5gw	THREE-WAY INTERNAL THREADED BALL VALVE	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	88
DP-5gz	THREE-WAY EXTERNAL THREADED BALL VALVE	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	88
DP-450gw	THREE-WAY INTERNAL THREADED BALL VALVE	PN-EN	DN10÷DN100	PN10÷PN100	-50°C ÷ +200°C	90
DP-5p	THREE-WAY BALL VALVE FOR WELDING	PN-EN	DN10÷DN250	PN6÷PN40	-50°C ÷ +250°C	92
Application versions of balls in valves type DP-5						94
Application versions of balls in valves type DP-450						95

HEATED FLANGED BALL VALVES

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-10k	HEATED FLANGED BALL VALVE	PN-EN	DN15÷DN250	PN6÷PN40	-50°C ÷ +250°C	96
DP-10kC	HEATED FLANGED BALL VALVE	ANSI	NPS1/2"÷NPS10"	Class150, 300	-50°C ÷ +250°C	96
DP-10b	HEATED INTERFLANGED BALL VALVE	PN-EN	DN10÷DN100	PN10÷PN40	-50°C ÷ +250°C	100
DP-10gw	HEATED INTERNAL THREADED BALL VALVE	PN-EN	DN15÷DN100	PN6÷PN40	-50°C ÷ +250°C	102
DP-10gz	HEATED EXTERNAL THREADED BALL VALVE	PN-EN	DN15÷DN100	PN6÷PN40	-50°C ÷ +250°C	102
DP-10gwC	HEATED INTERNAL THREADED BALL VALVE	ANSI	NPS1/2"÷ NPS 4"	Class150, 300	-50°C ÷ +250°C	102
DP-10gzC	HEATED EXTERNAL THREADED BALL VALVE	ANSI	NPS1/2"÷ NPS 4"	Class150, 300	-50°C ÷ +250°C	102
DP-10p	HEATED BALL VALVE FOR WELDING	PN-EN	DN15÷DN250	PN6÷PN40	-50°C ÷ +250°C	104
DP-9k	HEATED THREE-WAY FLANGED BALL VALVE	PN-EN	DN15÷DN250	PN6÷PN40	-50°C ÷ +250°C	106
DP-9kC	HEATED THREE-WAY FLANGED BALL VALVE	ANSI	NPS1/2"÷NPS10"	Class150, 300	-50°C ÷ +250°C	106
DP-9gw	HEATED INTERNAL THREADED BALL VALVE	PN-EN	DN15÷DN100	PN6÷PN40	-50°C ÷ +250°C	110
DP-9gz	HEATED EXTERNAL THREADED BALL VALVE	PN-EN	DN15÷DN100	PN6÷PN40	-50°C ÷ +250°C	110
DP-9gwC	HEATED INTERNAL THREADED BALL VALVE	ANSI	NPS1/2"÷ NPS 4"	Class150, 300	-50°C ÷ +250°C	110



HEATED FLANGED BALL VALVES

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-9gzC	HEATED EXTERNAL THREADED BALL VALVE	ANSI	NPS 1/2" ÷ NPS 4"	Class150, 300	-50°C ÷ +250°C	110
DP-9p	HEATED THREE-WAY BALL VALVE FOR WELDING	PN-EN	DN15 ÷ DN250	PN6 ÷ PN40	-50°C ÷ +250°C	112
Application versions of balls in valves type DP-9						114

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MANOMETER BALL VALVES

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-1gwS-m	MANOMETER INTERNAL THREADED BALL VALVE	PN-EN	m1, m2, m3, m4	PN6 ÷ PN100	-50°C ÷ +250°C	122
DP-1gzS-m	MANOMETER EXTERNAL THREADED BALL VALVE	PN-EN	m1, m2, m3, m4	PN6 ÷ PN100	-50°C ÷ +250°C	122
DP-1gwS-mC	MANOMETER INTERNAL THREADED BALL VALVE	ANSI	m5, m6, m7, m8, m9	Class150, 300, 600	-50°C ÷ +250°C	122
DP-1gzS-mC	MANOMETER EXTERNAL THREADED BALL VALVE	ANSI	m5, m6, m7, m8, m9	Class150, 300, 600	-50°C ÷ +250°C	122

BALL VALVES FOR TANKS

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-8g	ALUMINIUM THREADED BALL VALVE	PN-EN	DN10 ÷ DN40	PN6 ÷ PN25	-30°C ÷ +150°C	124
DP-8p	BALL VALVE FOR WELDING – ALUMINIUM BODY	PN-EN	DN50	PN6 ÷ PN25	-30°C ÷ +150°C	125
DP-13	BALL VALVE FOR AUTO TANKS – ALUMINIUM	PN-EN	DN80	PN6 ÷ PN16	-30°C ÷ +150°C	126
DP-14a	BALL VALVE FOR TANKS WITH THREAD M130x6	PN-EN	DN100	PN6 ÷ PN10	-30°C ÷ +150°C	127
DP-14b	BALL VALVE FOR TANKS WITH THREAD G 4"	PN-EN	DN100	PN6 ÷ PN10	-30°C ÷ +150°C	127
DP-14c	BALL VALVE FOR TANKS WITH THREAD W 4"	PN-EN	DN100	PN6 ÷ PN10	-30°C ÷ +150°C	127
DP-14d	BALL VALVE FOR TANKS WITH THREAD W 5 1/2"	PN-EN	DN100	PN6 ÷ PN10	-30°C ÷ +150°C	127
DP-14k	FLANGED BALL VALVE FOR TANKS	PN-EN	DN100	PN6 ÷ PN10	-30°C ÷ +150°C	128
DP-3kgz	BALL VALVE FOR RAILWAY TANKS	PN-EN	DN100	PN6 ÷ PN10	-30°C ÷ +150°C	129



DP-15	ALUMINIUM BALL VALVE FOR RAILWAY TANKS	PN-EN	DN125	PN6÷PN10	-30°C ÷ +150°C	130
DP-20	VENTILATION VALVE FOR TANKS	PN-EN	-----	-----	-30°C ÷ +200°C	131

CUSTOM BALL VALVES

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-2/3k	SPECIAL INTERFLANGED BALL VALVE	PN-EN ANSI ASME DIN	DN10÷DN250 NPS1/2"÷NPS10"	PN6÷PN40	-50°C ÷ +250°C	132
DP-3sz	FAST CONNECTING BALL VALVE	PN-EN	DN15÷DN100	PN6÷PN16	-50°C ÷ +200°C	134
DP-1sz	FAST CONNECTING BALL VALVE	PN-EN	DN15÷DN80	PN6÷PN16	-50°C ÷ +200°C	134
DP-1w	DRAIN OFF BALL VALVE WITH OUTLET FOR HOSE	PN-EN	DN10÷DN50	PN6÷PN40	-50°C ÷ +250°C	136
DP-1a	DRAIN OFF BALL VALVE WITH STRAIGHT OUTLET	PN-EN	DN10÷DN50	PN6÷PN40	-50°C ÷ +250°C	138
DP-1b	DRAIN OFF BALL VALVE WITH ANGLED OUTLET	PN-EN	DN10÷DN50	PN6÷PN40	-50°C ÷ +250°C	138
DP-3k/gw	BALL VALVE FLANGED AND INTERNAL THREADED	PN-EN	DN10÷DN250	PN6÷PN40	-50°C ÷ +250°C	140
DP-3k/gz	BALL VALVE FLANGED AND EXTERNAL THREADED	PN-EN	DN10÷DN250	PN6÷PN40	-50°C ÷ +250°C	140
DP-3k/p	BALL VALVE FLANGED AND FOR WELDING	PN-EN	DN10÷DN250	PN6÷PN40	-50°C ÷ +250°C	140
DP-3gw/gz	BALL VALVE INTERNAL AND EXTERNAL THREADED	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	140
DP-3gw/p	BALL VALVE INTERNAL THREADED AND FOR WELDING	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	140
DP-3gz/p	BALL VALVE EXTERNAL THREADED AND FOR WELDING	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	140
DP-1k/gw	BALL VALVE FLANGED AND INTERNAL THREADED	PN-EN	DN10÷DN150	PN6÷PN40	-50°C ÷ +250°C	142
DP-1k/gz	BALL VALVE FLANGED AND EXTERNAL THREADED	PN-EN	DN10÷DN150	PN6÷PN40	-50°C ÷ +250°C	142
DP-1k/p	BALL VALVE FLANGED AND FOR WELDING	PN-EN	DN10÷DN150	PN6÷PN40	-50°C ÷ +250°C	142
DP-1gw/gz	BALL VALVE INTERNAL AND EXTERNAL THREADED	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	142
DP-1gw/p	BALL VALVE INTERNAL THREADED AND FOR WELDING	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	142
DP-1gz/p	BALL VALVE EXTERNAL THREADED AND FOR WELDING	PN-EN	DN10÷DN100	PN6÷PN40	-50°C ÷ +250°C	142
DP-1kS/gwS	BALL VALVE FLANGED AND INTERNAL THREADED	PN-EN	DN6÷DN50	PN6÷PN100	-50°C ÷ +250°C	144
DP-1kS/gzS	BALL VALVE FLANGED AND EXTERNAL THREADED	PN-EN	DN6÷DN50	PN6÷PN100	-50°C ÷ +250°C	144
DP-1kS/pS	BALL VALVE FLANGED AND FOR WELDING	PN-EN	DN6÷DN50	PN6÷PN100	-50°C ÷ +250°C	144
DP-1gwS/gzS	BALL VALVE INTERNAL AND EXTERNAL THREADED	PN-EN	DN6÷DN50	PN6÷PN100	-50°C ÷ +250°C	144
DP-1gwS/pS	BALL VALVE INTERNAL THREADED AND FOR WELDING	PN-EN	DN6÷DN50	PN6÷PN100	-50°C ÷ +250°C	144
DP-1gzS/pS	BALL VALVE EXTERNAL THREADED AND FOR WELDING	PN-EN	DN6÷DN50	PN6÷PN100	-50°C ÷ +250°C	144



SIGHT VANES AND SIGHT GLASSES

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
PZD	FLANGED SIGHT VANE	PN-EN	DN10÷DN200	PN6÷PN40	-50°C ÷ +250°C	146
PZDC	FLANGED SIGHT VANE	ANSI	NPS1/2"÷NPS 8"	Class150, 300	-50°C ÷ +250°C	148
WZR	SIGHT GLASS WITH PIPE	PN-EN	Dw30÷Dw170	PN6÷PN40	-50°C ÷ +250°C	150
WZP	FLAT SIGHT GLASS	PN-EN	Dw30÷Dw170	PN6÷PN40	-50°C ÷ +250°C	150

DIAGRAMS OF TEMPERATURE AND PRESSURE RELATION

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TEFLON-LINED VALVES AND FITTINGS

TYPE	NAME	STANDARD	DIAMETER	PRESSURE	TEMPERATURE	PAGE
DP-303k	FLANGED BALL VALVE LINED FEP, PFA	PN-EN	DN15+DN100	PN6+PN16	-30°C + +250°C	154
DP-303kC	FLANGED BALL VALVE LINED FEP, PFA	ANSI ASME	NPS1/2"+NPS4"	Class150	-30°C + +250°C	156
DP-310k	TEFLON-LINED BUTTERFLY VALVE	PN-EN	DN50+DN250	PN6+PN16	-30°C + +250°C	158
DP-330k	TEFLON-LINED CHECK VALVE	PN-EN	DN15+DN100	PN6+PN16	-30°C + +250°C	160
PZD-340k	TEFLON-LINED SIGHT GLASS	PN-EN	DN15+DN100	PN6+PN16	-30°C + +250°C	162
DP-350	TEFLON-LINED PIPES	PN-EN	DN15+DN200	PN6+PN16	-30°C + +250°C	164
DP-350C	TEFLON-LINED PIPE	ANSI ASME	NPS1/2"+NPS8"	Class150	-30°C + +250°C	166
DP-352	TEFLON-LINED T-JOINTS	PN-EN	DN20+DN150	PN6+PN16	-30°C + +250°C	168
DP-352C	TEFLON-LINED T-JOINT	ANSI ASME	NPS1/2"+NPS6"	Class150	-30°C + +250°C	170
DP-354	TEFLON-LINED ELBOW 90°	PN-EN	DN25+DN150	PN6+PN16	-30°C + +250°C	172
DP-356	TEFLON-LINED ELBOW 45°	PN-EN	DN25+DN150	PN6+PN16	-30°C + +250°C	172
DP-354C	TEFLON-LINED ELBOW 90°	ANSI ASME	NPS1/2"+NPS6"	Class150	-30°C + +250°C	174
DP-356C	TEFLON-LINED ELBOW 45°	ANSI ASME	NPS1/2"+NPS6"	Class150	-30°C + +250°C	174
DP-358	TEFLON-LINED FLANGED REDUCTION	PN-EN	DN25+DN150	PN6+PN16	-30°C + +250°C	176
DP-358C	TEFLON-LINED FLANGED REDUCTION	ANSI ASME	NPS1"+NPS6"	Class150	-30°C + +250°C	178
DP-360	TEFLON-LINED REDUCTION FLANGE	PN-EN	DN25+DN150	PN6+PN16	-30°C + +250°C	180
DP-370	TEFLON BELLOW COMPENSATOR	PN-EN	DN25+DN250	PN6+PN16	-30°C + +200°C	182
DP-320k	DIAPHRAGM VALVE	PN-EN	DN15+DN200	PN6+PN10	-30°C + +100°C	184

SERVICES

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Way of valve selection

Type of valve, building: DP.....

Connection:

- k** – flange _____
- kC** – flange acc. to ANSI _____
- gw** – internal thread _____
- gwC** – internal thread NPT _____
- gz** – external thread _____
- gzC** – external thread NPT _____
- p** – Butt Weld _____
- pSW** – Socket Weld _____
- sz** – fast connection _____
- Other** _____

Material Execution:

- K** – 1.4301, _____
- K1** – 1.4541, _____
- K2** – 1.4571, _____
- K3** – 1.4539, _____
- K4** – 1.4404, _____
- K5** – 2.4602 hastelloy C22, _____
- Z** – 1.0038 (1.0254) _____
- ZR** – 1.0038 oil derivatives, _____
- ZGZ** – 1.0038 natural gas, _____
- ZGP** – 1.0038 propane butane gas, _____
- Z1** – 1.0570 _____
- Z2** – 1.0562 (P355) _____
- Z5** – 1.0565 _____
- AL.** – Aluminium _____
- PFA** – steel 1.0038 (1.0254) lined PFA _____
- FEP** – steel 1.0038 (1.0254) lined FEP _____
- PTFE** – steel 1.0038 (1.0254) lined PTFE _____
- PFAAS** – steel 1.0038 (1.0254) lined PFA antistatic _____
- Other** _____

Nominal Pressure:

- C4** – PN6, _____
- C5** – PN10, _____
- C1** – PN16, _____
- C2** – PN25, _____
- C3** – PN40, _____
- C6** – PN63, _____
- C7** – PN100, _____
- C8** – PN160, _____
- C9** – PN250, _____
- CL150** – class 150, _____
- CL300** – class 300, _____
- CL600** – class 600, _____
- CL800** – class 800 _____
- CL900** – class 900, _____

Nominal Diameter:

- DN6** _____
- DN10** _____
- DN15** _____
- DN20** _____
- DN25** _____
- DN32** _____
- DN40** _____
- DN50** _____
- DN65** _____
- DN80** _____
- DN100** _____
- DN125** _____
- DN150** _____
- DN200** _____
- DN250** _____

- NPS1/4"** _____
- NPS 3/8"** _____
- NPS 1/2"** _____
- NPS 3/4"** _____
- NPS 1"** _____
- NPS 1 1/4"** _____
- NPS 1 1/2"** _____
- NPS 2"** _____
- NPS 2 1/2"** _____
- NPS 3"** _____
- NPS 4"** _____
- NPS 5"** _____
- NPS 6"** _____
- NPS 8"** _____
- NPS 10"** _____

Nominal Temperature:

- | | | | |
|--|--|--|--|
| <input type="checkbox"/> T30 - from -20°C to +50°C | <input type="checkbox"/> T31 - from -30°C to +50°C | <input type="checkbox"/> T35 - from -40°C to +50°C | <input type="checkbox"/> T36 - from -50°C to +50°C |
| <input type="checkbox"/> T18 - from -20°C to +70°C | <input type="checkbox"/> T15 - from -30°C to +70°C | <input type="checkbox"/> T16 - from -40°C to +70°C | <input type="checkbox"/> T17 - from -50°C to +70°C |
| <input type="checkbox"/> T32 - from -20°C to +100°C | <input type="checkbox"/> T3 - from -30°C to +100°C | <input type="checkbox"/> T33 - from -40°C to +100°C | <input type="checkbox"/> T34 - from -50°C to +100°C |
| <input type="checkbox"/> T19 - from -20°C to +150°C | <input type="checkbox"/> T1 - from -30°C to +150°C | <input type="checkbox"/> T5 - from -40°C to +150°C | <input type="checkbox"/> T9 - from -50°C to +150°C |
| <input type="checkbox"/> T20 - from -20°C to +200°C | <input type="checkbox"/> T2 - from -30°C to +200°C | <input type="checkbox"/> T6 - from -40°C to +200°C | <input type="checkbox"/> T10 - from -50°C to +200°C |
| <input type="checkbox"/> T21 - from -20°C to +250°C | <input type="checkbox"/> T4 - from -30°C to +250°C | <input type="checkbox"/> T7 - from -40°C to +250°C | <input type="checkbox"/> T11 - from -50°C to +250°C |
| <input type="checkbox"/> T22 - from -20°C to +300°C | <input type="checkbox"/> T27 - from -30°C to +300°C | <input type="checkbox"/> T8 - from -40°C to +300°C | <input type="checkbox"/> T12 - from -50°C to +300°C |
| <input type="checkbox"/> T23 - from -20°C to +345°C | <input type="checkbox"/> T28 - from -30°C to +345°C | <input type="checkbox"/> T25 - from -40°C to +345°C | <input type="checkbox"/> T13 - from -50°C to +345°C |
| <input type="checkbox"/> T24 - from -20°C to +400°C | <input type="checkbox"/> T29 - from -30°C to +400°C | <input type="checkbox"/> T26 - from -40°C to +400°C | <input type="checkbox"/> T14 - from -50°C to +400°C |

Three-way:

ball type L with possibility of setting in three positions

- 1L**-180°, **L331**-180°

ball type L with possibility of setting in two positions

- 2L**-90°, **L321**-90°

ball type T with possibility of setting in three positions

- 1T**-180°, **2T**-180°, **3T**-180°, **4T**-180°, **T331**-180°, **T332**-180°, **T333**-180°, **T334**-180°

ball type T with possibility of setting in two positions

- 5T**-90°, **6T**-90°, **7T**-90°, **8T**-90°

Heating:

Building of heating jacket

A – Heating jacket on body _____

B – Heating jacket on all building length _____

Type of heating medium connection:

PK – flange _____

PGw – internal thread _____

PGZ – external thread _____

PP – for welding _____

Additional execution:

AS – antistatic execution _____

FS – Fire Safe execution _____

NP – adjustment for assembling of worm gear or drive _____

P – equipped with worm gear _____

SP – equipped with pneumatic drive _____

SE – equipped with electric drive _____

KR – equipped with limit signal indicator _____

KL100 – equipped with column with height 100mm _____

ZP – possibility of sealing _____

ZK – possibility of padlocking _____

Special building length L=..... mm

DP-2k INTERFLANGED BALL VALVE

acc. to PN-EN, DN10÷DN80 with full bore, DN100÷DN250 with reduced bore

DIAMETER RANGE

from DN10 to DN250

CHARACTERISTIC

Ball valves type DP-2k are cut-off dismantle able valves. In diameter range DN10÷DN80 valves have full bore and in diameter range DN100÷DN250 valves have reduced bore. Flanged connections are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction, are relatively short and can be regenerated. It is recommended to assemble valves DP-2k between flanges of pipeline with help of long screws or „pins”. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C5-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature

T1 - from -30°C to +150°C **T5** -
from -40°C to +150°C **T9** -
from -50°C to +150°C

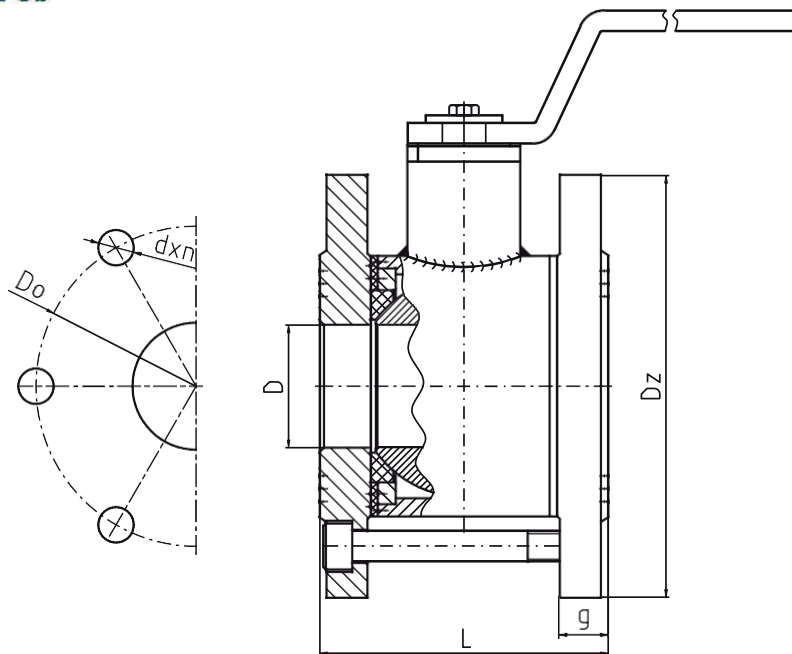
T2 - from -30°C to +200°C **T6** -
from -40°C to +200°C **T10** -
from -50°C to +200°C

T4 - from -30°C to +250°C **T7** -
from -40°C to +250°C **T11** -
from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking



DN	10	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
D	10	15	20	25	32	40	50	62	75	85	105	130	162	200
Weight (kg)	1,2	1,4	2,6	2,9	4	5,1	8,9	10,6	13,5	18,7	26,5	40,2	69,5	107
Flanges according to PN-EN 1092-1:2006 PN 10														
L	54	54	72	72	86	94	104	119	133	153	171	202	242	306
Dz	90	95	105	115	140	150	165	185	200	220	250	285	340	395
Do	60	65	75	85	100	110	125	145	160	180	210	240	295	350
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	18x6 M16x2	18x8	22x8	22x8	M20 x12
g	14	14	16	16	18	18	19	20	20	22	22	26	24	26
Flanges according to PN-EN 1092-1:2006 PN 16														
L	54	54	72	74	86	94	104	119	133	153	171	202	246	312
Dz	90	95	105	115	140	150	165	185	200	220	250	285	340	405
Do	60	65	75	85	100	110	125	145	160	180	210	240	295	355
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	18x6 M16x2	18x8	22x8	22x10 M20x2	M24x12
g	14	14	16	16	18	18	19	20	20	22	22	26	26	29
Flanges according to PN-EN-1:2006 PN 25														
L	54	54	72	74	86	94	106	123	141	161	183	210	258	324
Dz	90	95	105	115	140	150	165	185	200	235	270	300	360	425
Do	60	65	75	85	100	110	125	145	160	190	220	250	310	370
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	22x6 M20x2	26x8	26x8	26x12	M27x12
g	14	14	16	16	18	18	20	22	24	26	28	30	32	35
Flanges according to PN-EN-1:2006 PN 40														
L	54	54	72	74	86	94	106	123	141	161	183	210	266	338
Dz	90	95	105	115	140	150	165	185	200	235	270	300	375	450
Do	60	65	75	85	100	110	125	145	160	190	220	250	320	385
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	22x6 M20x2	26x8	26x8	29,5x12	32,5x12
g	14	14	16	16	18	18	20	22	24	26	28	30	36	42

* - worm gear application recommended ** - only with worm gear

DP-3k FLANGED BALL VALVE

acc. to PN-EN, DN10÷DN80 with full bore, DN100÷DN250 with reduced bore

DIAMETER RANGE

from DN10 to DN250

CHARACTERISTIC

Ball valves type DP-3k are cut-off dismantleable valves. In diameter range DN10÷DN80 valves have full bore and in diameter range DN100÷ DN250 valves have reduced bore. Flanged connections are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC)).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature:

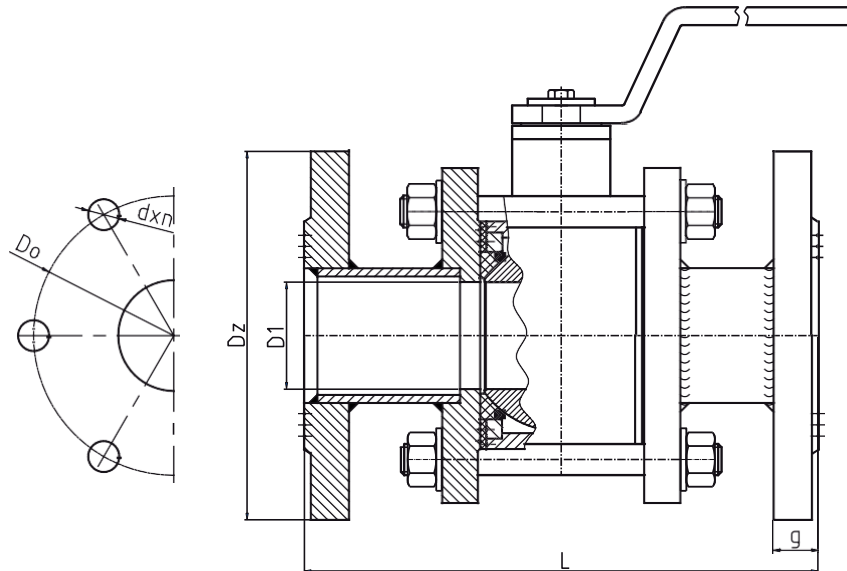
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen			Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-3k



L – Length of building according to EN 558-1 : 1995 series 1

DN	10	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
L	130	130	150	160	180	200	230	290	310	350	400	480	600	730
D1	10	15	20	25	32	40	50	62	75	85	105	130	162	200
Weight (kg)	2,0	2,2	3,7	4,2	5,5	7,5	11,9	14,8	23,1	30	39	60	85	160
Flanges according to PN-EN 1092-1;2006 PN 6														
Dz	75	80	90	100	120	130	140	160	190	210	240	265	320	375
Do	50	55	65	75	90	100	110	130	150	170	200	225	280	335
dxn	11x4	11x4	11x4	11x4	14x4	14x4	14x4	14x4	18x4	18x4	18x8	18x8	18x8	18x12
g	12	12	14	14	16	16	16	16	18	18	20	20	22	24
Flanges according to PN-EN 1092-1:2006 PN 10														
Dz	90	95	105	115	140	150	165	185	200	220	250	285	340	395
Do	60	65	75	85	100	110	125	145	160	180	210	240	295	350
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8	22x8	22x12
g	14	14	16	16	18	18	19	20	20	22	22	24	24	26
Flanges according to PN-EN 1092-1:2006 PN 16														
Dz	90	95	105	115	140	150	165	185	200	220	250	285	340	405
Do	60	65	75	85	100	110	125	145	160	180	210	240	295	355
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8	22x12	26x12
g	14	14	16	16	18	18	19	20	20	22	22	24	26	29
Flanges according to PN-EN 1092-1:2006 PN 25														
Dz	90	95	105	115	140	150	165	185	200	235	270	300	360	425
Do	60	65	75	85	100	110	125	145	160	190	220	250	310	370
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8	26x 12	29,5 x12
g	14	14	16	16	18	18	20	22	24	26	28	30	32	35
Flanges according to PN-EN 1092-1:2006 PN 40														
Dz	90	95	105	115	140	150	165	185	200	235	270	300	375	450
Do	60	65	75	85	100	110	125	145	160	190	220	250	320	385
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8	29,5 x12	32,5 x12
g	14	14	16	16	18	18	20	22	24	26	28	30	36	42

* - worm gear application recommended

** - only with worm gear

DP-31k FLANGED BALL VALVE

acc. to PN-EN with full bore

DIAMETER RANGE

from DN100 to DN250

CHARACTERISTIC

Ball valves type DP-31k are cut-off dismantlable valves with full bore. Flanged connections are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature:

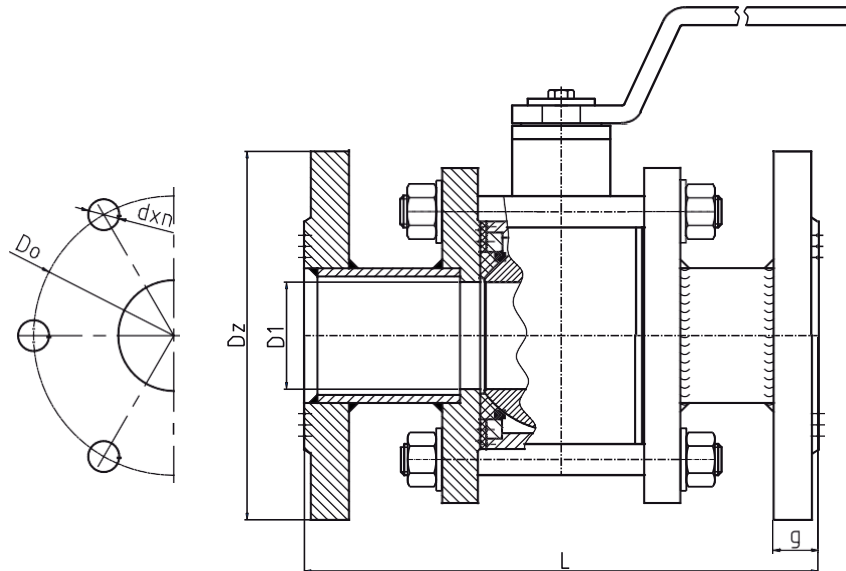
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE lubPTFE with GRAPHITE or T7W						
Stem seals:	PTFE + PTFE cord lubPTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-31k



L – Length of building according to EN 558-1 : 1995 series 1

DN	10÷80	100	125	150*	200**	250**
L	TYPE DP3k	350	400	480	600	730
D1		100	125	150	200	253
Weight (kg)		30	39	60	85	160
Flanges according to PN-EN 1092-1;2006 PN 6						
Dz	TYPE DP3k	210	240	265	320	375
Do		170	200	225	280	335
dxn		18x4	18x8	18x8	18x8	18x12
g		18	20	20	22	24
Flanges according to PN-EN 1092-1;2006 PN 10						
Dz	TYPE DP3k	220	250	285	340	395
Do		180	210	240	295	350
dxn		18x8	18x8	22x8	22x8	22x12
g		22	22	24	24	26
Flanges according to PN-EN 1092-1;2006 PN 16						
Dz	TYPE DP3k	220	250	285	340	405
Do		180	210	240	295	355
dxn		18x8	18x8	22x8	22x12	26x12
g		22	22	24	26	29
Flanges according to PN-EN 1092-1;2006 PN 25						
Dz	TYPE DP3k	235	270	300	360	425
Do		190	220	250	310	370
dxn		22x8	26x8	26x8	26x 12	29,5 x12
g		26	28	30	32	35
Flanges according to PN-EN 1092-1;2006 PN 40						
Dz	TYPE DP3k	235	270	300	375	450
Do		190	220	250	320	385
dxn		22x8	26x8	26x8	29,5 x12	32,5 x12
g		26	28	30	36	42

* - worm gear application recommended

** - only with worm gear

DP-23k FLANGED BALL VALVE

acc. to PN-EN with full bore

DIAMETER RANGE

from DN10 to DN 250

CHARACTERISTIC

Ball valves type DP-23k are cut-off and non-dismantleable valves with full bore. Flanged connections are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature:

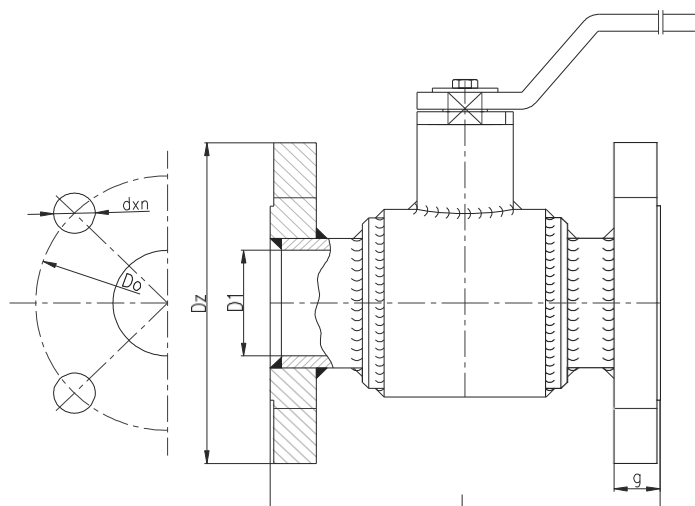
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-23k



L – Length of building according to EN 558-1 : 1995 series 1

DN	10	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
L	130	130	150	160	180	200	230	290	310	350	400	480	600	730
D1	10	15	20	25	32	40	50	62	75	98	123	148	198	253
Weight (kg)	2,0	2,2	3,7	4,2	5,5	7,5	11,9	14,8	23,1	30	39	60	85	160
Flanges according to PN-EN 1092-1;2006 PN 6														
Dz	75	80	90	100	120	130	140	160	190	210	240	265	320	375
Do	50	55	65	75	90	100	110	130	150	170	200	225	280	335
dxn	11x4	11x4	11x4	11x4	14x4	14x4	14x4	14x4	18x4	18x4	18x8	18x8	18x8	18x12
g	12	12	14	14	16	16	16	16	18	18	20	20	22	24
Flanges according to PN-EN 1092-1:2006 PN 10														
Dz	90	95	105	115	140	150	165	185	200	220	250	285	340	395
Do	60	65	75	85	100	110	125	145	160	180	210	240	295	350
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8	22x8	22x12
g	14	14	16	16	18	18	19	20	20	22	22	24	24	26
Flanges according to PN-EN 1092-1:2006 PN 16														
Dz	90	95	105	115	140	150	165	185	200	220	250	285	340	405
Do	60	65	75	85	100	110	125	145	160	180	210	240	295	355
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8	22x12	26x12
g	14	14	16	16	18	18	19	20	20	22	22	24	26	29
Flanges according to PN-EN 1092-1:2006 PN 25														
Dz	90	95	105	115	140	150	165	185	200	235	270	300	360	425
Do	60	65	75	85	100	110	125	145	160	190	220	250	310	370
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8	26x12	29,5 x12
g	14	14	16	16	18	18	20	22	24	26	28	30	32	35
Flanges according to PN-EN 1092-1:2006 PN 40														
Dz	90	95	105	115	140	150	165	185	200	235	270	300	375	450
Do	60	65	75	85	100	110	125	145	160	190	220	250	320	385
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8	29,5 x12	32,5 x12
g	14	14	16	16	18	18	20	22	24	26	28	30	36	42

* - worm gear application recommended

** - only with worm gear



DP-1k FLANGED BALL VALVE

acc. to PN-EN with reduced bore

DIAMETER RANGE

from DN10 to DN150

CHARACTERISTIC

Ball valves type DP-1k are cut-off and non-dismantle able valves with reduced bore. Flanged connections are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5- PN10, C1-PN16, C2-PN25, C3- PN40

Temperature:

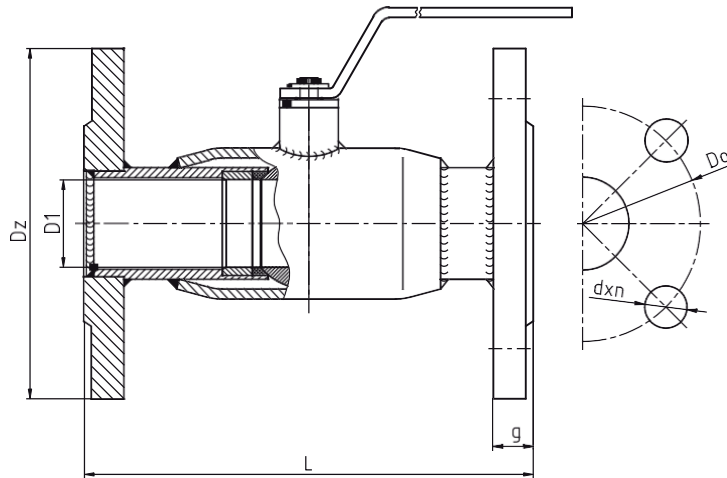
T1 - from -30°C to +150°C T5 - from -40°C to +150°C T9 - from -50°C to +150°C
 T2 - from -30°C to +200°C T6 - from -40°C to +200°C T10 - from -50°C to +200°C
 T4 - from -30°C to +250°C T7 - from -40°C to +250°C T11 - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO2, CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-1k



L – Length of building according to EN 558-1 : 1995 series 1

DN	10	15	20	25	32	40	50	65	80	100	125	150*
L	120	130	150	160	180	200	230	290	310	350	400	480
D1	10	10	15	20	25	32	40	50	62	85	105	130
Weight (kg)	2	2	2,2	3,1	4,5	5,3	7,9	11,8	13,9	24	38,3	51,4
Flanges according to PN-EN 1092-1:2006 PN 6												
Dz	75	80	90	100	120	130	140	160	190	210	240	265
Do	50	55	65	75	90	100	110	130	150	170	200	225
dxn	11x4	11x4	11x4	11x4	14x4	14x4	14x4	14x4	18x4	18x4	18x8	18x8
g	12	12	14	14	16	16	16	16	18	18	20	20
Flanges according to PN-EN 1092-1:2006 PN 10												
Dz	90	95	105	115	140	150	165	185	200	220	250	285
Do	60	65	75	85	100	110	125	145	160	180	210	240
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8
g	14	14	16	16	18	18	19	20	20	22	22	24
Flanges according to PN-EN 1092-1:2006 PN 16												
Dz	90	95	105	115	140	150	165	185	200	220	250	285
Do	60	65	75	85	100	110	125	145	160	180	210	240
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8
g	14	14	16	16	18	18	19	20	20	22	22	24
Flanges according to PN-EN 1092-1:2006 PN 25												
Dz	90	95	105	115	140	150	165	185	200	235	270	300
Do	60	65	75	85	100	110	125	145	160	190	220	250
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8
g	14	14	16	16	18	18	20	22	24	26	28	30
Flanges according to PN-EN 1092-1:2006 PN 40												
Dz	90	95	105	115	140	150	165	185	200	235	270	300
Do	60	65	75	85	100	110	125	145	160	190	220	250
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8
g	14	14	16	16	18	18	20	22	24	26	28	30

*- worm gear application recommended

DP-1kS FLANGED SCREWED BALL VALVE

acc. to PN-EN with full bore

DIAMETER RANGE

from DN10 to DN50

CHARACTERISTIC

Ball valves type DP-1kS are cut-off dismantlable valves with full bore. Flanged connections are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40, **C6**-PN63, **C7**- PN100, **C8**- PN160

Temperature:

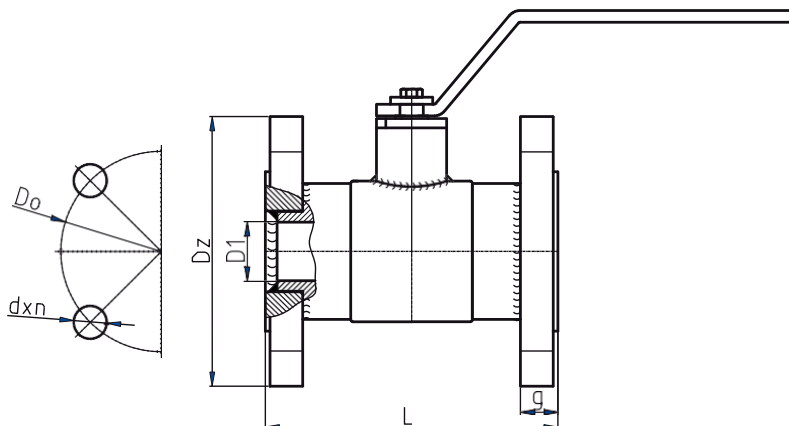
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-1kS



DN	10	15	20	25	32	40	50
D1	10	15	20	25	32	40	50
Weight (kg)	1,7	1,9	2,25	3,1	4,55	5,3	7,9
Flanges according to PN-EN 1092-1:2006					PN 6		
L	85	90	110	125	130	140	178
Dz	75	80	90	100	120	130	140
Do	50	55	65	75	90	100	110
dxn	11 x 4	11 x 4	11 x 4	11 x 4	14 x 4	14 x 4	14 x 4
g	12	12	14	14	16	16	16
Flanges according to PN-EN 1092-1:2006					PN 10		
L	85	90	110	125	130	140	178
Dz	90	95	105	115	140	150	165
Do	60	65	75	85	100	110	125
dxn	14 x 4	14 x 4	14 x 4	14 x 4	18 x 4	18 x 4	18 x 4
g	14	14	16	16	18	18	19
Flanges according to PN-EN 1092-1:2006					PN 16		
L	85	90	110	125	130	140	178
Dz	90	95	105	115	140	150	165
Do	60	65	75	85	100	110	125
dxn	14 x 4	14 x 4	14 x 4	14 x 4	18 x 4	18 x 4	18 x 4
g	14	14	16	16	18	18	19
Flanges according to PN-EN 1092-1:2006					PN 25		
L	85	90	110	125	130	140	180
Dz	90	95	105	115	140	150	165
Do	60	65	75	85	100	110	125
dxn	14 x 4	14 x 4	14 x 4	14 x 4	18 x 4	18 x 4	18 x 4
g	14	14	16	16	18	18	20
Flanges according to PN-EN 1092-1:2006					PN 40		
L	85	90	110	125	130	140	180
Dz	90	95	105	115	140	150	165
Do	60	65	75	85	100	110	125
dxn	14 x 4	14 x 4	14 x 4	14 x 4	18 x 4	18 x 4	18 x 4
g	14	14	16	16	18	18	20
Flanges according to PN-EN 1092-1:2006					PN 63		
L	97	102	122	141	142	156	192
Dz	100	105	130	140	155	170	180
Do	70	75	90	100	110	125	135
dxn	14 x 4	14 x 4	18 x 4	18 x 4	22 x 4	22 x 4	22 x 4
g	20	20	22	24	24	26	26
Flanges according to PN-EN 1092-1:2006					PN 100		
L	97	102	122	141	142	156	196
Dz	100	105	130	140	155	170	195
Do	70	75	90	100	110	125	145
dxn	14 x 4	14 x 4	18 x 4	18 x 4	22 x 4	22 x 4	26 x 4
g	20	20	22	24	24	26	28

DP-41k FLANGED SCREWED BALL VALVE

acc. to PN-EN with full bore

DIAMETER RANGE

from DN10 to DN50

CHARACTERISTIC

Ball valves type DP-41k are cut-off dismantlable valves with full bore. Flanged connections are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40, **C6**-PN63, **C7**- PN100, **C8**- PN160

Temperature:

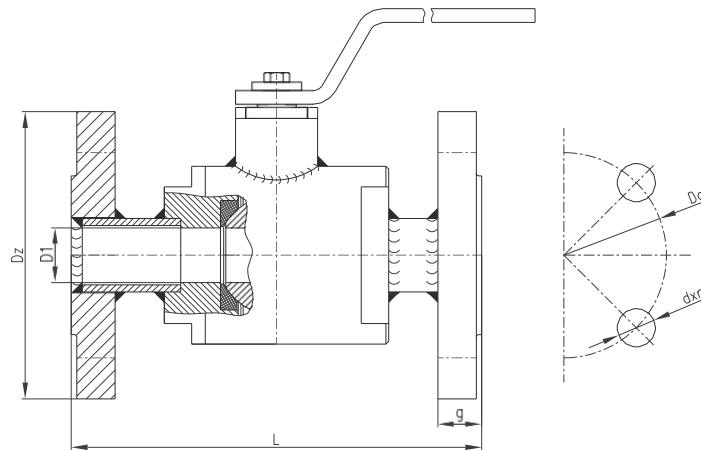
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-41k



L – Length of building according to EN 558-1 : 1995 series 1

DN	10	15	20	25	32	40	50
L	120	130	150	160	180	200	230
D1	10	15	20	25	32	40	50
Weight (kg)	2	2	2,2	3,1	4,5	5,3	7,9
Flanges according to PN-EN 1092-1:2006				PN 6			
Dz	75	80	90	100	120	130	140
Do	50	55	65	75	90	100	110
dxn	11x4	11x4	11x4	11x4	14x4	14x4	14x4
g	12	12	14	14	16	16	16
Flanges according to PN-EN 1092-1:2006				PN 10			
Dz	90	95	105	115	140	150	165
Do	60	65	75	85	100	110	125
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4
g	14	14	16	16	18	18	19
Flanges according to PN-EN 1092-1:2006				PN 16			
Dz	90	95	105	115	140	150	165
Do	60	65	75	85	100	110	125
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4
g	14	14	16	16	18	18	19
Flanges according to PN-EN 1092-1:2006				PN 25			
Dz	90	95	105	115	140	150	165
Do	60	65	75	85	100	110	125
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4
g	14	14	16	16	18	18	20
Flanges according to PN-EN 1092-1:2006				PN 40			
Dz	90	95	105	115	140	150	165
Do	60	65	75	85	100	110	125
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4
g	14	14	16	16	18	18	20
Flanges according to PN-EN 1092-1:2006				PN 63			
Dz	100	105	130	140	155	170	180
Do	70	75	90	100	110	125	135
dxn	14 x 4	14 x 4	18 x 4	18 x 4	22 x 4	22 x 4	22 x 4
g	20	20	22	24	24	26	26
Flanges according to PN-EN 1092-1:2006				PN 100			
Dz	100	105	130	140	155	170	195
Do	70	75	90	100	110	125	145
dxn	14 x 4	14 x 4	18 x 4	18 x 4	22 x 4	22 x 4	26 x 4
g	20	20	22	24	24	26	28

DP-2b INTERFLANGED BALL VALVE

acc. to PN-EN, DN10÷DN100 with full bore

DIAMETER RANGE

from DN10 to DN100

CHARACTERISTIC

Ball valves type DP-2b are cut-off dismantlable. Flanged connections are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction, are relatively short and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C5-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature

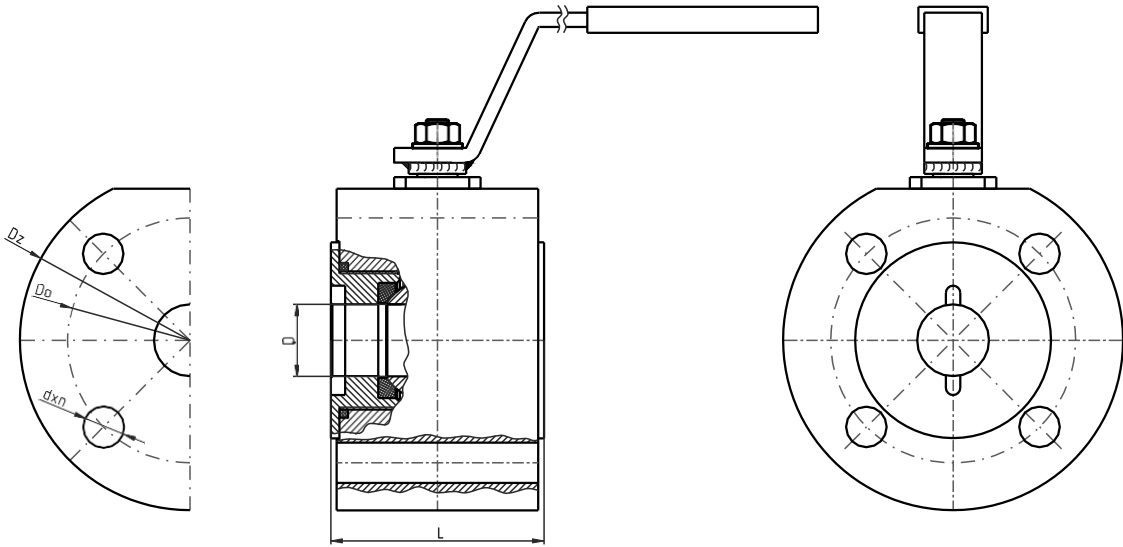
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE or PTFE with GRAPHITE or T7W						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-2b



DN	10	15	20	25	32	40	50	65	80	100
D	10	15	20	25	32	40	50	62	75	98
L	33	44	44	49	70	78	84	100	126	160
Weight (kg)	2,2	2,1	2,2	4,6	6,7	7,9	12,50	17,5	24,5	39,0
Flanges according to PN-EN 1092-1:2006 PN 10										
Do	60	65	75	85	100	110	125	145	160	180
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	18x8
Flanges according to PN-EN 1092-1:2006 PN 16										
Do	60	65	75	85	100	110	125	145	160	180
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	18x8
Flanges according to PN-EN-1:2006 PN 25										
Do	60	65	75	85	100	110	125	145	160	190
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	22x8
Flanges according to PN-EN-1:2006 PN 40										
Do	60	65	75	85	100	110	125	145	160	190
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	22x8

We can make threaded holes or change length of valve building onto client wish.

DP-400k FLANGED BALLVALVE 400°C

DIAMETER RANGE

from DN10 to DN100

CHARACTERISTIC

Ball valves type DP-400k are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure:

C1- PN16, **C2**-PN25, **C3**- PN40, **C5**-PN10, **C6**- PN63, **C7**- PN100

For special order: **C8** – PN160

Temperature:

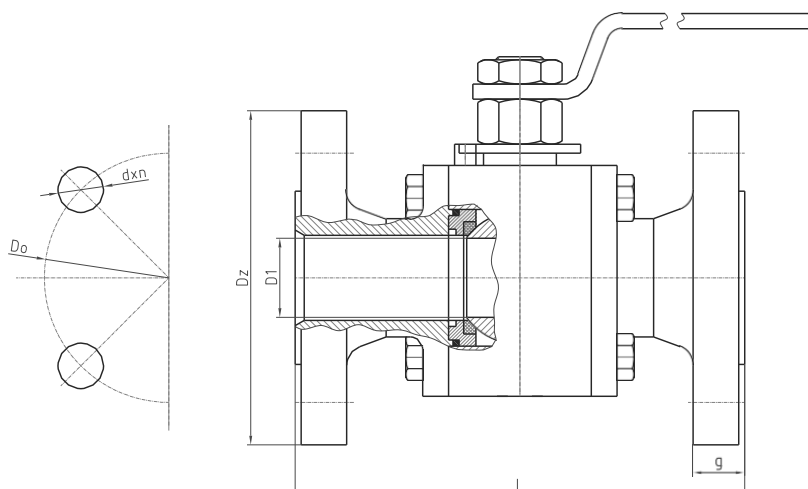
T20 - from -20°C to +200°C **T2** - **T22** - from -20°C to +300°C **T27** **T23** - from -20°C to +345°C **T28** **T24** - from -20°C to +400°C **T29**
 from -30°C to +200°C **T6** - - from -30°C to +300°C **T8** - - from -30°C to +345°C **T25** - - from -30°C to +400°C **T26** -
 from -40°C to +200°C **T10** - from -40°C to +300°C **T12** - from -40°C to +345°C **T13** - from -40°C to +400°C **T14** -
 from -50°C to+200°C from -50°C to+300°C from -50°C to+345°C from -50°C to+400°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball	1.4541	1.4571	1.4006	1.4006
Stem	1.4541	1.4571	1.4006	1.4541
Seal	Graphite, Coal + SB			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast-furnace gas, propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-400k



Presented drawing is only demonstrative.

Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

DN	10	15	20	25	32	40	50	65	80	100
D1	9,5	14	19	25	30	38	47	62	76	95
Flanges according to PN-EN 1092-1:2006						PN 16				
L	150	155	160	170		220				
Dz	90	95	105	115	140	150	165	185	200	220
Do	60	65	75	85	100	110	125	145	160	180
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8
g	16	16	18	18	18	18	20	22	24	20
Weight (kg)	2,7	4	4,7	7	9,3	12,2	18,4	27,4	36,5	59
Flanges according to PN-EN 1092-1:2006						PN 25, PN 40				
L	150	155	160	170	-	220	-	-	-	-
L-F1	-	130	150	160	180	200	230	290	310	350
Dz	90	95	105	115	140	150	165	185	200	235
Do	60	65	75	85	100	110	125	145	160	190
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8
g	16	16	18	18	18	18	20	22	24	24
Weight (kg)	2,7	4	4,7	7	9,3	12,2	18,4	27,4	36,5	63
Flanges according to PN-EN 1092-1:2006						PN 63				
L	160	155	----	180		220				
L-F1	-	130		-	180	-	230	290	310	350
Dz	100	105		140	155	170	180	205	215	250
Do	70	75		100	110	125	135	160	170	200
dxn	14x4	14x4		18x4	22x4	22x4	22x4	22x8	22x8	26x8
g	20	20		24	24	26	26	26	28	30
Weight (kg)	3,6	4,7		8,5	11,5	15,3	21,6	30,2	39,5	65
Flanges according to PN-EN 1092-1:2006						PN 100				
L	160		----	190	200	230	250		330	380
Dz	100	105		140	155	170	195	220	230	265
L-F1	-	-		-	-	-	-	-	-	-
Do	70	75		100	110	125	145	170	180	210
dxn	14x4	14x4		18x4	22x4	22x4	26x4	26x8	26x8	30x8
g	20	20		24	24	26	28	30	32	36
Weight (kg)	3,9	5,2		9,3	12,4	18,3	24,5	34,1	44	67,5

DP-405k FLANGED BALL VALVE METAL-METAL

DIAMETER RANGE

from DN10 to DN150

CHARACTERISTIC

Ball valves type DP-405k are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure:

C1- PN16, **C2**-PN25, **C3**- PN40, **C6**- PN63, **C7**- PN100
For special order: **C8** – PN160

Temperature:

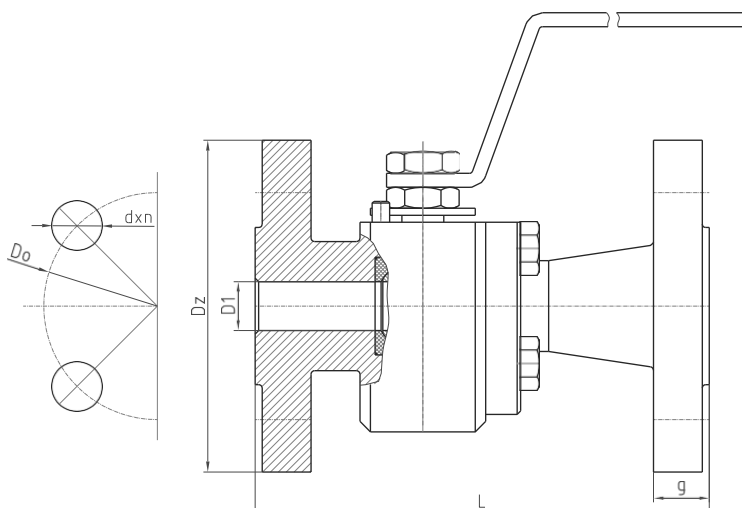
T18 - from -20°C to +70°C **T17** - from -50°C to +70°C **T5** - from -40°C to +150°C
T15 - from -30°C to +70°C **T19** - from -20°C to +150°C **T9** - from -50°C to +150°C
T16 - from -40°C to +70°C **T1** - from -30°C to +150°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball	1.4571 + Stellite 6	1.4571 + Stellite 6	1.4034 (hardened)	1.4034 (hardened)
Stem	1.4541	1.4571	1.4006 or 1.4541	1.4006 or 1.4541
Seat	1.4571 + Stellite 6	1.4571 + Stellite 6	1.4034 (hardened)	1.4034 (hardened)
Seal	PTFE + 25% coke, O-ring NBR or EPDM or FPM or HNBR			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast-furnace gas, propane gas, butane gas, propane-butane gas	

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-405k



Presented drawing is only demonstrative.

Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

DN	10	15	20	25	32	40	50	65	80	100	125*	150**
L-F1	130	130	150	160	180	200	230	290	310	350	400	480
L-F4	115	115	120	125	130	140	150	170	180	190	-	-
L-F5	-	-	-	-	-	-	-	-	-	-	325	350
L-F7	-	-	-	-	-	-	-	-	-	-	400	450
Flanges according to PN-EN 1092-1:2006 PN 16												
D1	9,5	14	20	25	30	38	47	62	76	95	125	150
Dz	90	95	105	115	140	150	165	185	200	220	250	285
Do	60	65	75	85	100	110	125	145	160	180	210	240
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8
g	16	16	18	18	18	18	20	22	24	20	22	22
Weight (kg)	2,2	2,3	4,4	6,8	8,8	9,8	13,5	20,5	29,7	47,3	72	115
Flanges according to PN-EN 1092-1:2006 PN 25, PN 40												
D1	9,5	14	20	25	30	38	47	62	76	95	125	150
Dz	90	95	105	115	140	150	165	185	200	235	270	300
Do	60	65	75	85	100	110	125	145	160	190	220	250
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8
g	16	16	18	18	18	18	20	22	24	24	26	28
Weight (kg)	2,2	2,3	4,4	6,8	8,8	9,8	13,5	20,5	29,7	51,7	83	145
Flanges according to PN-EN 1092-1:2006 PN 63												
D1	9,5	14	----	25	30	38	47	62	76	95	119	142
Dz	100	105		140	155	170	180	205	215	250	295	345
Do	70	75		100	110	125	135	160	170	200	240	280
dxn	14x4	14x4		18x4	22x4	22x4	22x4	22x8	22x8	26x8	30x8	33x8
g	20	20		24	24	26	26	26	28	30	34	36
Weight (kg)	2.8	3.5		8.6	11.3	12.9	16.1	28.6	44.6	68	92	156
Flanges according to PN-EN 1092-1:2006 PN 100												
D1	9,5	14	----	25	30	38	47	62	76	95	119	142
Dz	100	105		140	155	170	195	220	230	265	315	355
Do	70	75		100	110	125	145	170	180	210	250	290
dxn	14x4	14x4		18x4	22x4	22x4	26x4	26x8	26x8	30x8	33x8	33x12
g	20	20		24	24	26	28	30	32	36	40	44
Weight (kg)	2.8	3.5		8.6	11.3	12.9	20.3	32.1	49	76	98	187

* - worm gear application recommended

** - only with worm gear

DP-430k FLANGED BALL VALVE

DIAMETER RANGE

from DN10 to DN200

CHARACTERISTIC

Ball valves type DP-430k are dismantlable 2-pc or 3-pc valves depending on diameter and working parameters. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure:

C6- PN63, **C7**- PN100

For special order: **C8** – PN160

Temperature:

T18 - from -20°C to +70°C

T15 - from -30°C to +70°C

T16 - from -40°C to +70°C

T17 - from -50°C to +70°C

T19 - from -20°C to +150°C

T1 - from -30°C to +150°C

T5 - from -40°C to +150°C

T9 - from -50°C to +150°C

T20 - from -20°C to +200°C

T2 - from -30°C to +200°C

T6 - from -40°C to +200°C

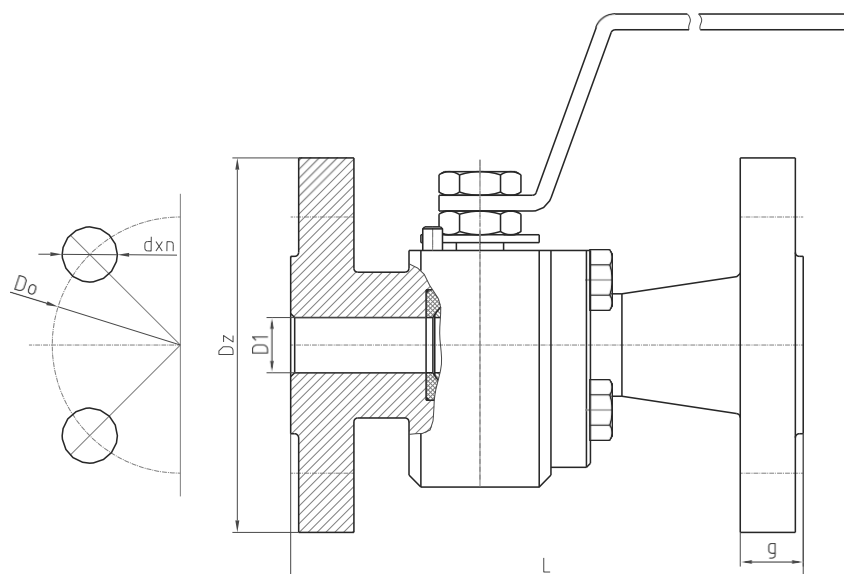
T10 - from -50°C to +200°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball to DN 100	1.4541 or 1.4571	1.4571	1.4541 or 1.4571	1.4541 or 1.4571
Ball from DN 125	1.4541	1.4571	1.4006	1.4006
Stem	1.4541	1.4571	1.4006	1.4541
Seal	PTFE + 25% coke, O-ring NBR or EPDM or FPM or HNBR			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast- furnace gas, propane gas, butane gas, propane- butane gas	
There are available following material executions for special order: 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-430k



Presented drawing is only demonstrative.

Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

DN	10	15	25	32	40	50	65	80	100	125*	150**	200**
D1	9,5	14	25	30	38	47	62	76	95	119	142	195
L	130	130	160	180	200	230	290	310	350	400	480	600
Flanges according to PN-EN 1092-1:2006 PN 63												
L-F1	130	130	160	180	200	230	290	310	350	400	480	600
L-F5	-	-	-	-	-	-	-	-	-	-	350	-
L-F7	-	-	-	-	-	-	-	-	-	400	450	550
Dz	100	105	140	155	170	180	205	215	250	295	345	415
Do	70	75	100	110	125	135	160	170	200	240	280	345
dxn	14x4	14x4	18x4	22x4	22x4	22x4	22x8	22x8	26x8	30x8	33x8	36x12
g	20	20	24	24	26	26	26	28	30	34	36	42
Weight (kg)	2.8	3.5	8.6	11.3	12.9	16.1	28.6	44.6	68	92	156	230
Flanges according to PN-EN 1092-1:2006 PN 100												
L-F1	130	130	160	180	200	230	290	310	350	400	480	---
L-F7	-	-	-	-	-	-	-	-	-	400	450	
Dz	100	105	140	155	170	195	220	230	265	315	355	
Do	70	75	100	110	125	145	170	180	210	250	290	
dxn	14x4	14x4	18x4	22x4	22x4	26x4	26x8	26x8	30x8	33x8	33x12	
g	20	20	24	24	26	28	30	32	36	40	44	
Weight (kg)	2.8	3.5	8.6	11.3	12.9	20.3	32.1	49	76	98	187	

* - worm gear application recommended

** - only with worm gear

DP-21k FLANGED BALL VALVE

acc. to DIN with full bore

DIAMETER RANGE

from DN32 to DN80

CHARACTERISTIC

Ball valves type DP-21k are cut-off and non-dismantleable valves with full bore. Flanged connections are executed according to PN-EN 1092-1:2006 and valve building length according to DIN 32 02. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C5-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature

T1 - from -30°C to +150°C **T5** -
from -40°C to +150°C **T9** -
from -50°C to +150°C

T2 - from -30°C to +200°C **T6** -
from -40°C to +200°C **T10** -
from -50°C to +200°C

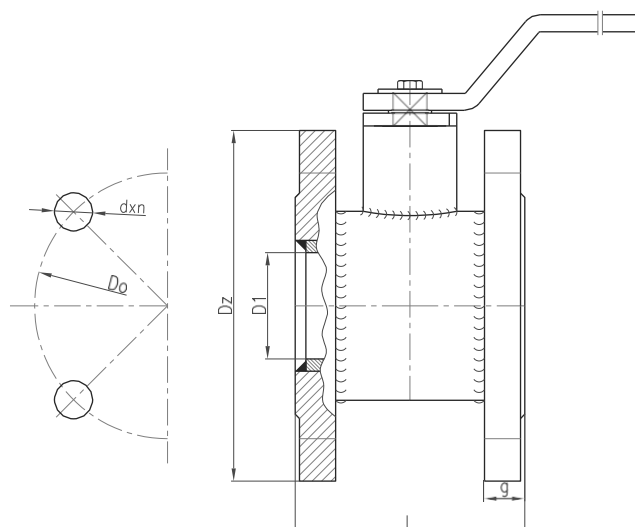
T4 - from -30°C to +250°C **T7** -
from -40°C to +250°C **T11** -
from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-21k



L – Length of building according to DIN 32 02

DN	10 ÷ 25	32	40	50	65	80	100÷250
D1	TYPE DP1kS	32	40	50	62	75	TYPE DP22k
Weight (kg)		4	5,1	8,9	10,6	13,5	
Flanges according to PN-EN 1092-1:2006 PN 10							
L	TYPE DP1kS	104	106	108	112	140	TYPE DP22k
Dz		140	150	165	185	200	
Do		100	110	125	145	160	
dxn		18x4	18x4	18x4	18x8	18x8	
g		18	18	19	20	20	
Flanges according to PN-EN 1092-1:2006 PN 16							
L	TYPE DP1kS	104	106	108	112	140	TYPE DP22k
Dz		140	150	165	185	200	
Do		100	110	125	145	160	
dxn		18x4	18x4	18x4	18x8	18x8	
g		18	18	19	20	20	
Flanges according to PN -EN 1092-1:2006 PN 25							
L	TYPE DP1kS	104	106	108	112	140	TYPE DP22k
Dz		140	150	165	185	200	
Do		100	110	125	145	160	
dxn		18x4	18x4	18x4	18x8	18x8	
g		18	18	20	22	24	
Flanges according to PN-EN 1092-1:2006 PN 40							
L	TYPE DP1kS	104	106	108	112	140	TYPE DP22k
Dz		140	150	165	185	200	
Do		100	110	125	145	160	
dxn		18x4	18x4	18x4	18x8	18x8	
g		18	18	20	22	24	

DP-25k FLANGED BALL VALVE

acc. to DIN with full bore

DIAMETER RANGE

from DN50 to DN100

CHARACTERISTIC

Ball valves type DP-25k are cut-off dismantlable with full bore. Flanged connections are executed according to PN-EN 1092-1:2006 and valve building length according to DIN 32 02 series F4 (EN 558-1:1995 series 14). Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature:

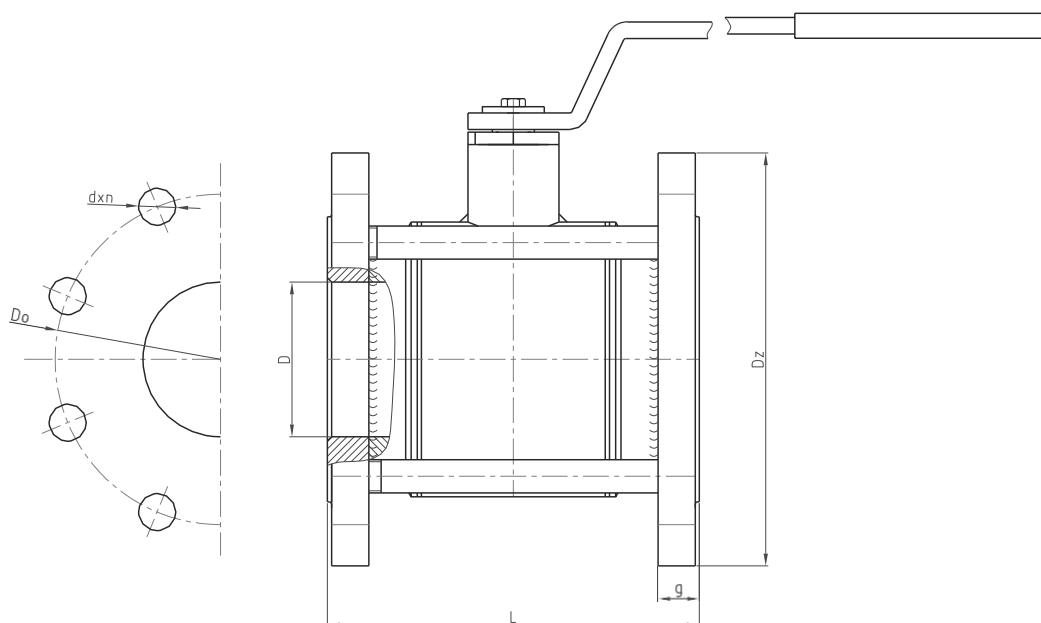
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-25k



L - Length of building according to DIN 32 02 series F4 (EN 558-1:1995 series 14)

DN	50	65	80	100
L	150	170	180	190
D1	50	62	75	85
Weight (kg)	11,9	14,8	23,1	25,2
Flanges according to PN-EN 1092-1:2006				PN 10
Dz	165	185	200	220
Do	125	145	160	180
dxn	18x4	18x8	18x8	18x8
g	19	20	20	22
Flanges according to PN-EN 1092-1:2006				PN 16
Dz	165	185	200	220
Do	125	145	160	180
dxn	18x4	18x8	18x8	18x8
g	19	20	20	22
Flanges according to PN-EN 1092-1:2006				PN 25
Dz	165	185	200	235
Do	125	145	160	190
dxn	18x4	18x8	18x8	22x8
g	20	22	24	26
Flanges according to PN-EN 1092-1:2006				PN 40
Dz	165	185	200	235
Do	125	145	160	190
dxn	18x4	18x8	18x8	22x8
g	20	22	24	26

DP-22k FLANGED BALL VALVE

acc. to DIN with full bore

DIAMETER RANGE

from DN100 to DN250

CHARACTERISTIC

Ball valves type DP-22k are cut-off and non-dismantleable valves with full bore. Flanged connections are executed according to PN-EN 1092-1:2006 and valve building length according to DIN 32 02. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature

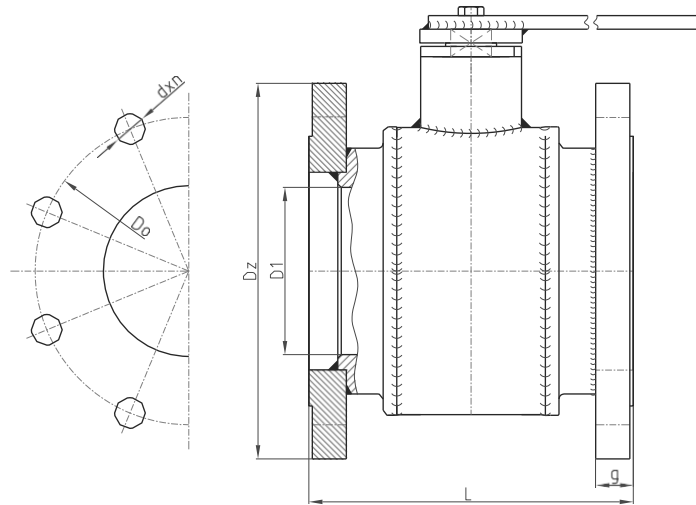
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, zwierzęce	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-22k



L - Length of building according to DIN 32 02

DN	10 ÷ 25	32 ÷ 100	100	125	150*	200**	250**
D1			98	123	148	200	253
Weight (kg)	TYPE DP1kS	TYPE DP21k	18,7	39	60	85	160
Kolnierze wg PN-EN 1092-1:2006 PN 6							
L			190	325	350	400	650
Dz	TYP	TYP	210	240	265	320	375
Do			170	200	225	280	335
dxn	DP1kS	DP21k	18x4	18x8	18x8	18x8	18x12
g			18	20	20	22	24
Flanges according to PN-EN 1092-1:2006 PN 10							
L			190	325	350	400	650
Dz	TYPE DP1kS	TYPE DP21k	220	250	285	340	395
Do			180	210	240	295	350
dxn			18x8	18x8	22x8	22x8	22x12
g			22	22	24	24	26
Flanges according to PN-EN 1092-1:2006 PN 16							
L			190	325	350	400	650
Dz	TYPE DP1kS	TYPE DP21k	220	250	285	340	405
Do			180	210	240	295	355
dxn			18x8	18x8	22x8	22x12	26x12
g			22	22	24	26	29
Flanges according to PN-EN 1092-1:2006 PN 25							
L			190	325	350	400	650
Dz	TYPE DP1kS	TYPE DP21k	235	270	300	360	425
Do			190	220	250	310	370
dxn			22x8	26 x8	26x8	26x12	29,5 x12
g			26	28	30	32	35
Flanges according to PN-EN 1092-1:2006 PN 40							
L			190	325	350	400	650
Dz	TYPE DP1kS	TYPE DP21k	235	270	300	375	450
Do			190	220	250	320	385
dxn			22x8	26x8	26x8	29,5 x12	32,5 x12
g			26	28	30	36	42

* - worm gear application recommended

** - only with worm gear

DP-3kC FLANGED BALL VALVE

acc. to ANSI, NPS 1/2" ÷ NPS 3" with full bore, NPS 4" ÷ NPS 10" with reduced bore

DP-31kC FLANGED BALL VALVE

acc. to ANSI with full bore

DIAMETER RANGE

from NPS 1/2" to NPS 10"

CHARACTERISTIC

Ball valves type DP-3kC and DP-31kC are cut-off dismantlable valves. In diameter range NPS 1/2" ÷ NPS 3" valves DP-3kC have full bore and in diameter range NPS 4" ÷ NPS 10" valves have reduced bore, valves DP-31kC have full bore. Flanged connections are executed according to ANSI CLASS and according to PN-EN 1759-1. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – class 150, **CL300** - class 300

Temperature:

T1 - from -30°C to +150°C **T5** -
from -40°C to +150°C **T9** -
from -50°C to +150°C

T2 - from -30°C to +200°C **T6** -
from -40°C to +200°C **T10** -
from -50°C to +200°C

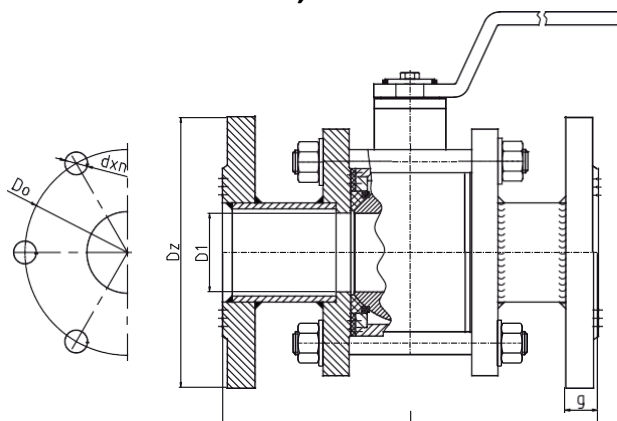
T4 - from -30°C to +250°C **T7** -
from -40°C to +250°C **T11** -
from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, zwierzęce	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-3kC, DP-31kC



L - Length of building according to EN 558-1 : 1995 series 1

DP-3kC

NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6*	8**	10**
DN	15	20	25	32	40	50	65	80	100	125	150	200	250
L	130	150	160	180	200	230	290	310	350	400	480	600	730
D1	15	20	25	32	40	50	62	75	85	105	130	162	200
Weight (kg)	2,2	3,7	4,2	5,5	7,5	11,9	14,8	23,1	30	39	60	85	160
Flanges according to PN-EN 1759-1 Class 150													
Dz	89	98	108	117	127	152	178	190	229	254	279	343	406
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	215,9	241,3	298,4	362
dxn	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	19x4	19x4	19x4	19x8	22,2x8	22,2x8	22,2x8	25,4x12
g	12	14	16	18	19	21	24	26	27	28	31	34	38
Flanges according to PN-EN 1759-1 Class 300													
Dz	95	117	124	133	156	165	190	210	254	279	318	381	444
Do	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200	235	269,9	330,2	387,4
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8	22,2x8	22,2x8	22,2x8	22,2x8	22,2x12	25,4x12	28,6x16
g	14,3	15,9	17,5	19	20,6	22,2	25,4	28,6	31,8	34,9	36,5	41,3	47,6

* - worm gear application recommended

** - only with worm gear

DP-31kC

NPS	1/2 ÷ 3	4	5	6*	8**	10**
DN	TYPE DP3kC	100	125	150	200	250
L		350	400	480	600	730
D1		100	125	150	200	253
Weight (kg)		30	39	60	85	160
Flanges according to PN-EN 1759-1 Class 150						
Dz	TYPE DP3kC	229	254	279	343	406
Do		190,5	215,9	241,3	298,4	362
dxn		19x8	22,2x8	22,2x8	22,2x8	25,4x12
g		27	28	31	34	38
Flanges according to PN-EN 1759-1 Class 300						
Dz	TYPE DP3kC	254	279	318	381	444
Do		200	235	269,9	330,2	387,4
dxn		22,2x8	22,2x8	22,2x12	25,4x12	28,6x16
g		31,8	34,9	36,5	41,3	47,6

* - worm gear application recommended

** - only with worm gear

DP-24kC FLANGED BALL VALVE

acc. to ANSI, ASME with full bore

DIAMETER RANGE

from NPS 1/2" to NPS 10"

CHARACTERISTIC

Ball valves type DP-24kC are cut-off and non-dismantleable valves with full bore. Flanged connections are executed according to ANSI CLASS and according to PN-EN 1759-1, valve building length according to ASME B 16.10-2000. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – class 150, **CL300** – class 300

Temperature:

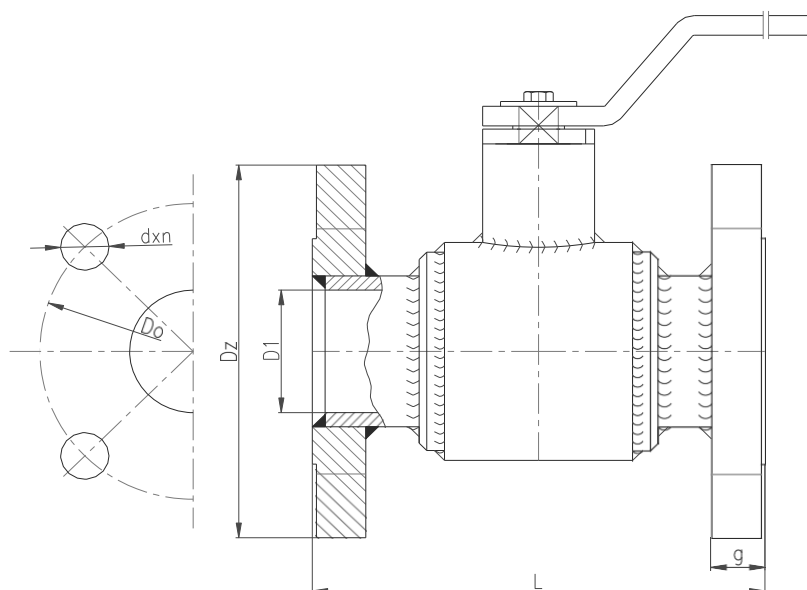
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-24kC



L - Length of building according to ASME B 16.10-2000

NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6*	8**	10**
DN	15	20	25	32	40	50	65	80	100	125	150	200	250
D1	15	20	25	32	40	50	62	75	98	123	148	198	253
Flanges according to PN-EN 1759-1 Class 150													
L	108	117	127	140	165	178	190	203	229	330	394	457	533
Dz	89	98	108	117	127	152	178	190	229	254	279	343	406
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	215,9	241,3	298,4	362
dxn	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	19x4	19x4	19x4	19x8	22,2x9	22,2x8	22,2x8	25,4x8
g	12	14	16	18	19	21	24	26	27	28	31	34	38
Flanges according to PN-EN 1759-1 Class 300													
L	140	152	165	178	190	216	241	282	305	330	403	502	568
Dz	95	117	124	133	156	165	190	210	254	254	318	381	444
Do	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200	235	269,9	330,2	387,4
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8	22,2x8	22,2x8	22,2x8	22,2x8	22,2x12	25,4x12	28,6x16
g	14,3	15,9	17,5	19	20,6	22,2	25,4	28,6	31,8	34,9	36,5	41,3	47,6

* - worm gear application recommended

** - only with worm gear

DP-44kC FLANGED SCREWED BALL VALVE

acc. to ANSI, ASME with full bore

DIAMETER RANGE

from NPS 1/2" to NPS 2"

CHARACTERISTIC

Ball valves type DP-44kC are cut-off dismantlable valves with full bore. Flanged connections are executed according to ANSI CLASS and according to PN-EN 1759-1, valve building length according to ASME B 16.10-2000. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – class 150, **CL300** - class 300, **CL600** - class 600, **CL900** - class 900

Temperature:

T1 - from -30°C to +150°C
T5 - from -40°C to +150°C
T9 - from -50°C to +150°C

T2 - from -30°C to +200°C
T6 - from -40°C to +200°C
T10 - from -50°C to +200°C

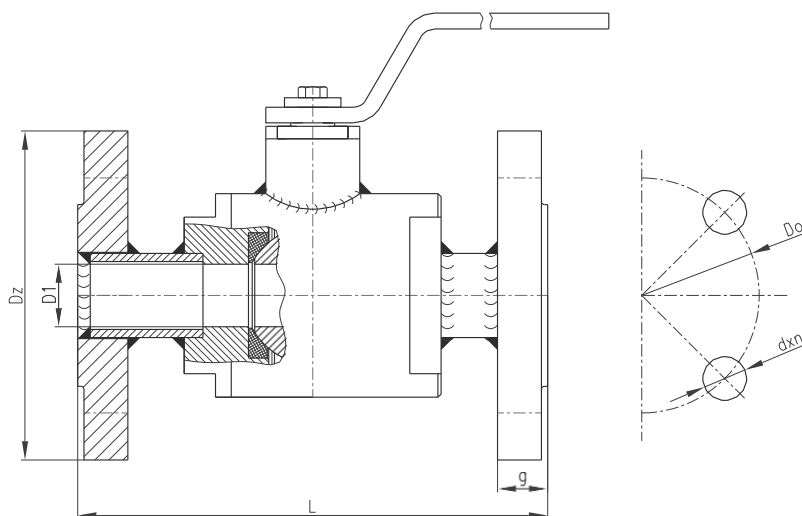
T4 - from -30°C to +250°C
T7 - from -40°C to +250°C
T11 - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-44kC



L - Length of building according to ASME B 16.10-2000

NPS	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
D1	15	20	25	32	40	50
Weight (kg)	1,9	2,2	3,1	4,5	5,3	7,9
Flanges according to PN-EN 1759-1 Class 150						
L	108	117	127	140	165	178
Dz	89	98	108	117	127	152
Do	60,3	69,8	79,4	88,9	98,4	120,6
dxn	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	19x4
g	12	14	16	18	19	21
Flanges according to PN-EN 1759-1 Class 300						
L	140	152	165	178	170	216
Dz	95	117	124	133	156	165
Do	66,7	82,6	88,9	98,4	114,3	127
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8
g	14,3	15,9	17,5	19	20,6	22,2
Flanges according to PN-EN 1759-1 Class 600						
L	165	190	216	229	241	292
Dz	95	117	124	133	156	165
Do	66,7	82,6	88,9	98,4	114,3	127
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8
g	14,3	15,9	17,5	20,6	22,2	25,4

DP-1kC FLANGED BALL VALVE

acc. to ANSI with reduced bore

DIAMETER RANGE

from NPS1/2" to NPS 6"

CHARACTERISTIC

Ball valves type DP-1kC are cut-off and non-dismantleable valves with reduced bore. Flanged connections are executed according to ANSI CLASS and according to PN-EN 1759-1. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – class 150, **CL300** - class 300

Temperature:

T1 - from -30°C to +150°C **T5** -
from -40°C to +150°C **T9** -
from -50°C to +150°C

T2 - from -30°C to +200°C **T6** -
from -40°C to +200°C **T10** -
from -50°C to +200°C

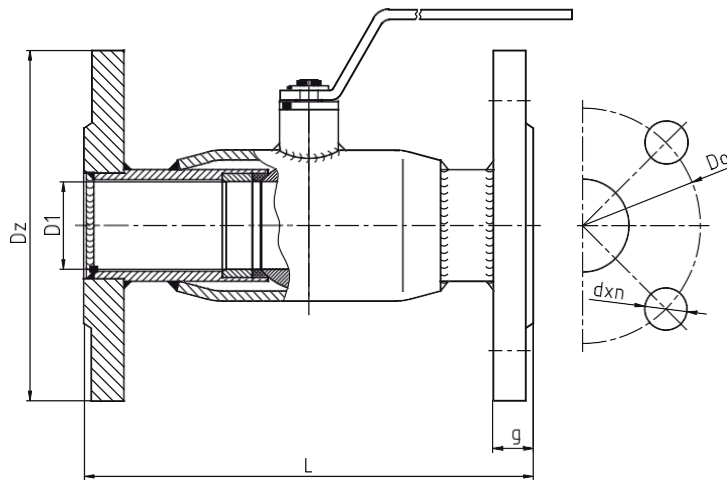
T4 - from -30°C to +250°C **T7** -
from -40°C to +250°C **T11** -
from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-1kC



L – Length of building according to EN 558-1 : 1995 series 1

NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6*
DN	15	20	25	32	40	50	65	80	100	125	150
L	130	150	160	180	200	230	290	310	350	400	480
D1	10	15	20	25	32	40	50	62	85	105	130
Weight (kg)	1,9	2,2	3,1	4,5	5,3	7,9	11,7	13,8	24	38,3	51,3
Flanges according to PN-EN 1759-1						Class 150					
Dz	89	98	108	117	127	152	178	190	229	254	279
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	215,9	241,3
dxn	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	19x4	19x4	19x4	19x8	22,2x8	22,2x8
g	12	14	16	18	19	21	24	26	27	28	31
Flanges according to PN-EN 1759-1						Class 300					
Dz	95	117	124	133	156	165	190	210	254	279	318
Do	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200	235	269,9
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8	22,2x8	22,2x8	22,2x8	22,2x8	22,2x12
g	14,3	15,9	17,5	19	20,6	22,2	25,4	28,6	31,8	34,9	36,5

*- worm gear application recommended

DP-430kC FLANGED BALL VALVE API608, API6D, FIRE SAFE, ANTISTATIC, ANSI

DIAMETER RANGE

from NPS 1/2" to NPS 10"

CHARACTERISTIC

Ball valves type DP-430kC are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. Building of valves follows requirements of API 608 and API 607 standards taking into account fire resistance (FIRE SAFE) and protection against static charges appearance (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – Class 150, **CL300** - Class 300, **CL600** – Class 600
For special order: Class 800, Class 900, Class 1500

Temperature:

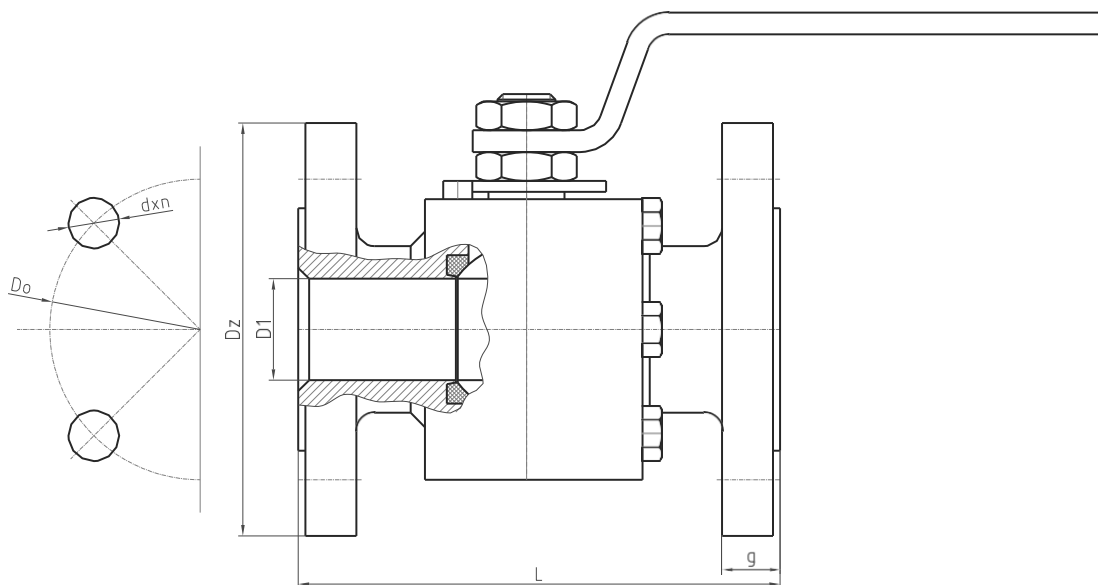
T18 - from -20°C to +70°C	T19 - from -20°C to +150°C	T20 - from -20°C to +200°C
T15 - from -30°C to +70°C	T1 - from -30°C to +150°C	T2 - from -30°C to +200°C
T16 - from -40°C to +70°C	T5 - from -40°C to +150°C	T6 - from -40°C to +200°C
T17 - from -50°C to +70°C	T9 - from -50°C to +150°C	T10 - from -50°C to +200°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball to DN 100	1.4541 or 1.4571	1.4571	1.4541 or 1.4571	1.4541 or 1.4571
Ball from DN 125	1.4541	1.4571	1.4006	1.4006
Stem	1.4541	1.4571	1.4006	1.4541
Seal	PTFE + 25% coke, O-ring NBR or EPDM or FPM or HNBR, Grafit			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast- furnace gas, propane gas, butane gas, propane- butane gas	
There are available following material executions for special order: 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-430kC



Presented drawing is only demonstrative.

Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8 *	10 **
DN	15	20	25	32	40	50	65	80	100	150	200*	250**
Flanges according to PN-EN 1759-1 Class 150												
L	108	117	127	140	165	178	190	203	229	394	457	533
D1	11,5	17,5	24	30,5	37	50	62	75	100	150	200	250
Dz	89	98	108	117	127	152	178	190	229	279	343	406
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	241,3	298,4	361,9
dxn	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	19x4	19x4	19x4	19x8	22,2x8	22,2x8	25,4x12
g	12	13	14,5	16	18	19	22,5	24	24	26	29	31
Weight (kg)	3,5	4,5	8	9	11	15	24	33	53	89	135	165
Flanges according to PN-EN 1759-1 Class 300												
L	140	152	165	178	191	216	241	282	305	403	419	457
D1	12,5	17,5	24	30,5	37	50	62	75	100	150	200	250
Dz	95	117	124	133	155,5	165	190,5	209	254	317,5	381	444,5
Do	66,5	82,6	88,9	98,6	114,3	127	149,4	168,1	200,2	269,7	330,2	387,4
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8	22,2x8	22,2x8	22,2x8	22,2x12	25,4x12	28,5x16
g	14,5	16	17,5	19	20,5	22,5	25,5	28,5	32	37	41	48
Weight (kg)	4,3	6,2	9	10	12	17	26	35	56	94	140	176
Flanges according to PN-EN 1759-1 Class 600												
NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6 *	8 **
L	165	190,5	216	229	241	292	330	356	432	502	559	660.4
D1	12,5	17,5	24	30,5	37	50	62	75	100	125	150	200
Dz	95	117	124	133	155,5	165	190,5	209	273	330	355,6	419.1
Do	66,5	82,6	88,9	98,6	114,3	127	149,4	168,1	216	266,7	291,1	349.3
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8	22,2x8	22,2x8	25,5x8	28.5x8	28,5x12	32x12
g	21	23	24	27	29	32	35	39	45	51	54	62
Weight (kg)	6,3	8,2	10,8	12,6	14,8	21	30,7	40,9	67	89	123	176

* - worm gear application recommended

** - only with worm gear

DP-3gw INTERNAL THREADED BALL VALVE DP-3gz EXTERNAL THREADED BALL VALVE

acc. to PN-EN with full bore

DP-3gwC INTERNAL THREADED BALL VALVE DP-3gzC EXTERNAL THREADED BALL VALVE

acc. to ANSI with full bore

DIAMETER RANGE

from DN10 to DN100
from NPS 3/8" to NPS 4"

CHARACTERISTIC

Ball valves type DP-3gw, DP-3gz, DP-3gwC and DP-3gzC are cut-off dismantlable valves with full bore. Valves DP-3gw and DP-3gz are executed according to PN-EN with thread G, DP-3gwC and DP-3gzC are executed according to ANSI with thread NPT. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40
CL150 – class 150, **CL300** - class 300

Temperature:

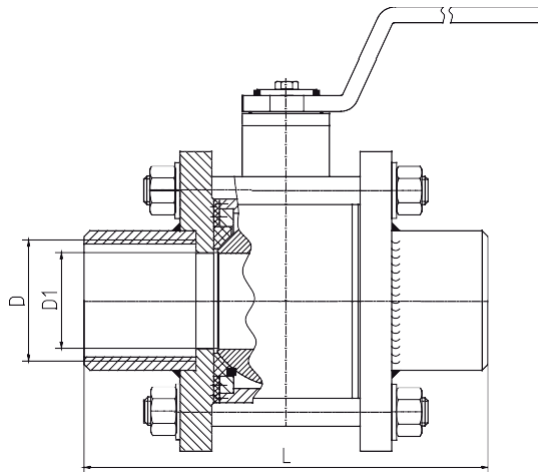
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

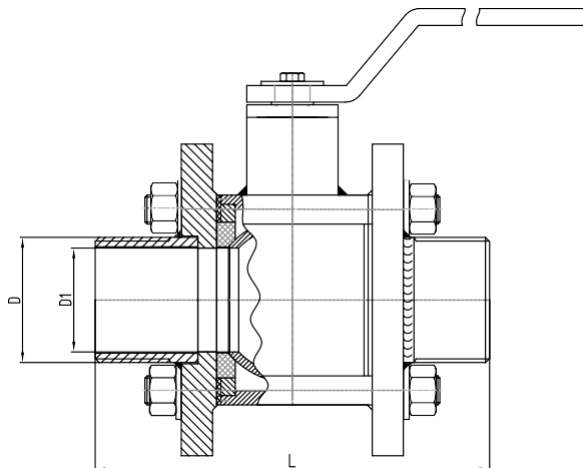
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-3gw, DP-3gwC



DN	10	15	20	25	32	40	50	65	80	100
NPS	3/8	1/2	3/4	1	5/4	3/2	2	5/2	3	4
L	85	85	95	105	120	130	150	185	205	For special order
D - DP-3gw	G 3/8	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2	G 5/2	G3	
D - DP-3gwC	NPT 3/8	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2	NPT 5/2	NPT 3	
D1	10	15	20	25	32	40	50	62	75	
Weight (kg)	1	1	2,1	2,3	2,7	4,1	7,3	9,7	16	

DP-3gz, DP-3gzC



DN	10	15	20	25	32	40	50	65	80	100
NPS	3/8	1/2	3/4	1	5/4	3/2	2	5/2	3	4
L	115	115	130	145	170	180	190	250	300	For special order
D - DP-3gz	G 3/8	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2	G 5/2	G3	
D - DP-3gzC	NPT 3/8	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2	NPT 5/2	NPT 3	
D1	10	15	20	25	32	40	50	62	75	
Weight (kg)	1	1	2,1	2,3	2,7	4,1	7,3	9,7	16	

DP-1gw INTERNAL THREADED BALL VALVE DP-1gz EXTERNAL THREADED BALL VALVE

acc. to PN-EN with reduced bore

DP-1gwC INTERNAL THREADED BALL VALVE DP-1gzC EXTERNAL THREADED BALL VALVE

acc. to ANSI with reduced bore

DIAMETER RANGE

from DN10 to DN100 from
NPS 3/8" to NPS 4"

CHARACTERISTIC

Ball valves type DP-1gw, DP-1gwC, DP-1gz and DP-1gzC are cut-off non-dismantleable valves with reduced bore. Valves DP-1gw and DP-1gz are executed according to PN-EN with thread G, DP-1gwC and DP-1gzC are executed according to ANSI with thread NPT. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5- PN10, C1-PN16, C2-PN25, C3- PN40
CL150 – class 150, CL300 - class 300

Temperature:

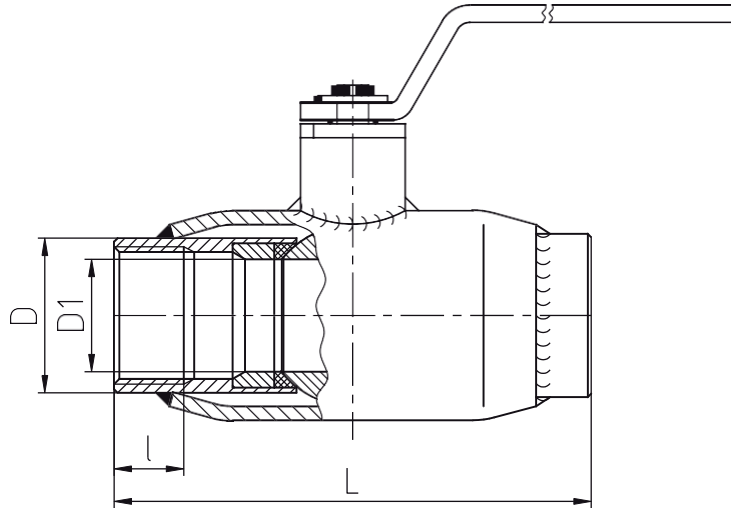
T1 - from -30°C to +150°C T5 - from -40°C to +150°C T9 - from -50°C to +150°C
T2 - from -30°C to +200°C T6 - from -40°C to +200°C T10 - from -50°C to +200°C
T4 - from -30°C to +250°C T7 - from -40°C to +250°C T11 - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462(Duplex) and many others.							

Ball valve can be provided with following additional equipment:

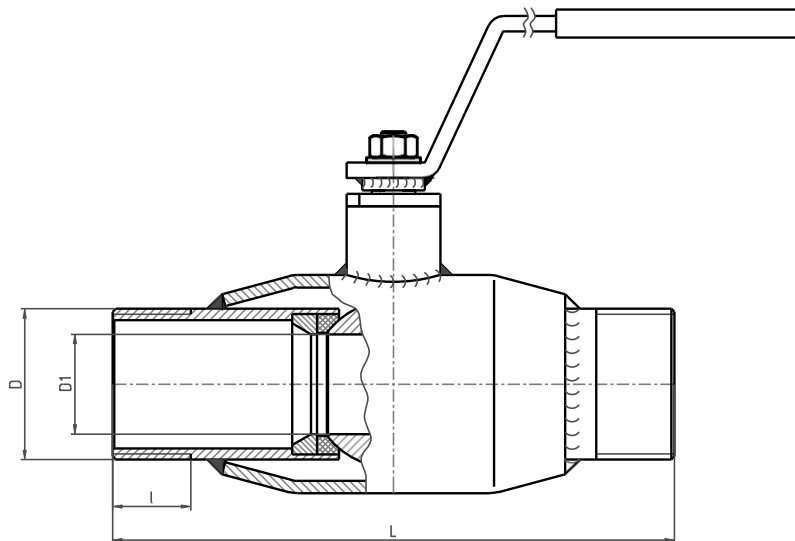
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP1-gw, DP1-gwC



DN	10	15	20	25	32	40	50	65	80	100
NPS	3/8	1/2	3/4	1	5/4	3/2	2	5/2	3	4
L	116	116	126	130	150	150	170	215	220	300
D - DP-1gw	G 3/8	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2	G 5/2	G3	G4
D - DP-1gwC	NPT 3/8	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2	NPT 5/2	NPT 3	NPT 4
I	16	15	15	25	23	25	25	25	25	30
D1	10	10	15	20	25	32	40	50	62	85
Weight (kg)	0,7	0,7	0,8	1,1	1,7	2,3	2,9	5,8	7,3	14,1

DP1-gz, DP1-gzC



DN	10	15	20	25	32	40	50	65	80	100
NPS	3/8	1/2	3/4	1	5/4	3/2	2	5/2	3	4
L	115	115	130	145	170	180	190	250	300	360
D - DP-1gz	G 3/8	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2	G 5/2	G3	G4
D - DP-1gzC	NPT 3/8	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2	NPT 5/2	NPT 3	NPT 4
I	16	18	20	20	25	25	25	25	25	30
D1	10	10	15	20	25	32	40	50	62	85
Weight (kg)	0,7	0,7	0,8	1,1	1,7	2,3	2,9	5,8	7,3	14,1

DP-1gwS INTERNAL THREADED SCREWED BALL VALVE DP-1gzS EXTERNAL THREADED SCREWED BALL VALVE

acc. to PN-EN with full bore

DP-1gwSC INTERNAL THREADED SCREWED BALL VALVE DP-1gzSC EXTERNAL THREADED SCREWED BALL VALVE

acc. to ANSI with full bore

DIAMETER RANGE

from DN6 to DN50
from NPS 1/4" to NPS 2"

CHARACTERISTIC

Ball valves type DP-1gwS, DP1gzS, DP-1gwSC and DP1gzSC are cut-off dismantlable valves with full bore. Valves DP-1gwS and DP1gzS are executed according to PN-EN with thread G, DP-1gwSC and DP1gzSC are executed according to ANSI with thread NPT. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40, **C6**-PN63, **C7**- PN100

CL150 – Class 150, **CL300** - Class 300, **CL600** – Class 600

Temperature

T1 - from -30°C to +150°C **T5** -
from -40°C to +150°C **T9** -
from -50°C to +150°C

T2 - from -30°C to +200°C **T6** -
from -40°C to +200°C **T10** -
from -50°C to +200°C

T4 - from -30°C to +250°C **T7** -
from -40°C to +250°C **T11** -
from -50°C to +250°C

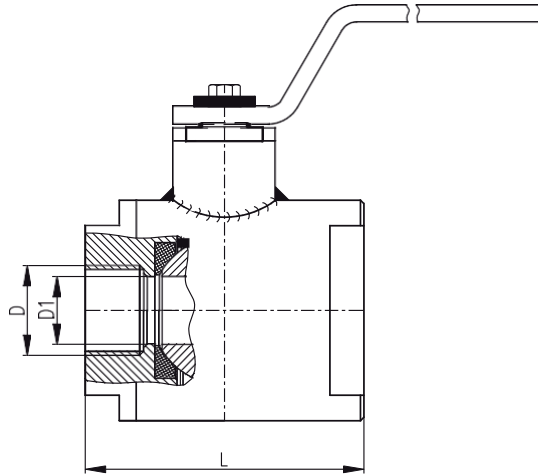
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462(Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

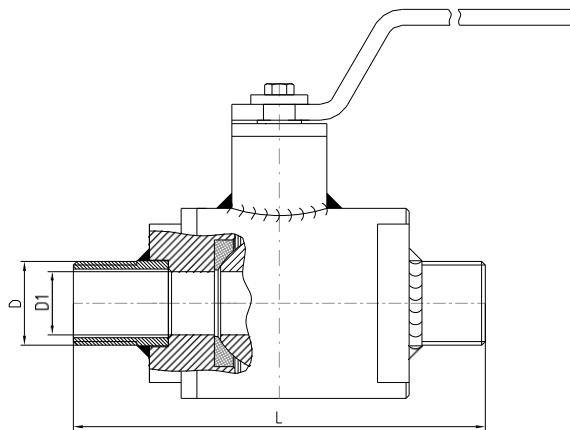


DP-1gwS, DP-1gwSC



NPS	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN	6	10	15	20	25	32	40	50
L	52,5	52,5	66	82	98	110	127	150
D - DP-1gwS	G 1/4	G 3/8	G 1/2	G 3/4	G 1	G 1 1/4	G 1 1/2	G 2
D - DP-1gwSC	NPT 1/4	NPT 3/8	NPT 1/2	NPT 3/4	NPT 1	NPT 1 1/4	NPT 1 1/2	NPT 2
D1	6	10	15	20	25	32	40	50
Weight (kg)	0,7	0,7	0,7	2,0	2,1	3,0	4,1	6,5

DP-1gzS, DP-1gzSC



NPS	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
DN	6	10	15	20	25	32	40	50
L	95	95	115	130	145	170	180	190
D - DP-1gzS	G 1/4	G 3/8	G 1/2	G 3/4	G 1	G 1 1/4	G 1 1/2	G 2
D - DP-1gzSC	NPT 1/4	NPT 3/8	NPT 1/2	NPT 3/4	NPT 1	NPT 1 1/4	NPT 1 1/2	NPT 2
D1	6	10	15	20	25	32	40	50
Weight (kg)	0,7	0,7	0,7	2,0	2,1	3,0	4,1	6,5

DP-400gw INTERNAL THREADED BALL VALVE 400°C

DIAMETER RANGE

from DN10 to DN100

CHARACTERISTIC

Ball valves type DP-400gw are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40, **C6**- PN63, **C7**- PN100

For special order: **C8** – PN160

Temperature:

T20 - from -20°C to +200°C **T2**

- from -30°C to +200°C **T6** -

from -40°C to +200°C **T10** -

from -50°C to +200°C **T22** -

from -20°C to +300°C **T27** -

from -30°C to +300°C

T8 - from -40°C to +300°C **T12**

- from -50°C to +300°C **T23** -

from -20°C to +345°C **T28** -

from -30°C to +345°C **T25** -

from -40°C to +345°C **T13** -

from -50°C to +345°C

T24 - from -20°C to +400°C

T29 - from -30°C to +400°C

T26 - from -40°C to +400°C

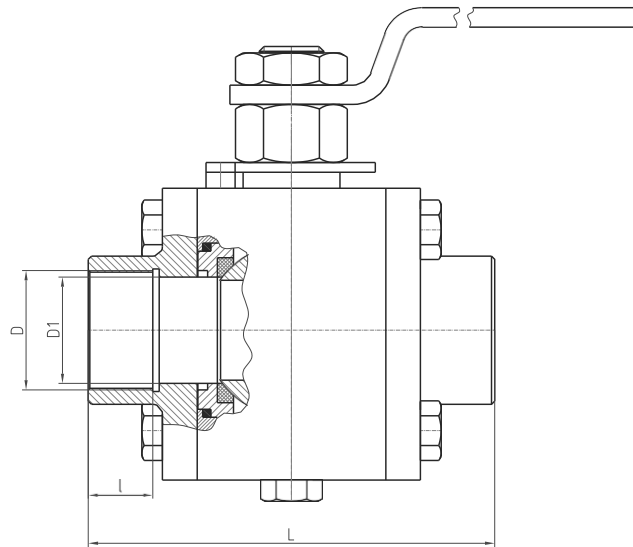
T14 - from -50°C to +400°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball	1.4571	1.4571	1.4571	1.4571
Stem	1.4541	1.4571	1.4006	1.4541
Seal	PTFE (PTFE + 25% coke), Graphite, Coal + Sb			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast-furnace gas, propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-400gw



Presented drawing is only demonstrative.

Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

DN	10	15	20	25	32	40	50	65	80	100
D1	9,5	14	19	25	30	38	47	62	76	95
D	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L	75	75	90	105	120	130	150	170	180	230
I	13	15	16,5	19,5	21,5	23	26	31	34	40
Weight (kg)	1,2	2,1	2,3	4	5,5	7,5	12,5	19,7	27	35

DP-430gw INTERNAL THREADED BALL VALVE

DIAMETER RANGE

from DN65 to DN100

CHARACTERISTIC

Ball valves type DP-430gw are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C6- PN63, **C7**- PN100

For special order: **C8** – PN160

Temperature:

T18 - from -20°C to +70°C

T15 - from -30°C to +70°C

T16 - from -40°C to +70°C

T17 - from -50°C to +70°C

T19 - from -20°C to +150°C

T1 - from -30°C to +150°C

T5 - from -40°C to +150°C

T9 - from -50°C to +150°C

T20 - from -20°C to +200°C

T2 - from -30°C to +200°C

T6 - from -40°C to +200°C

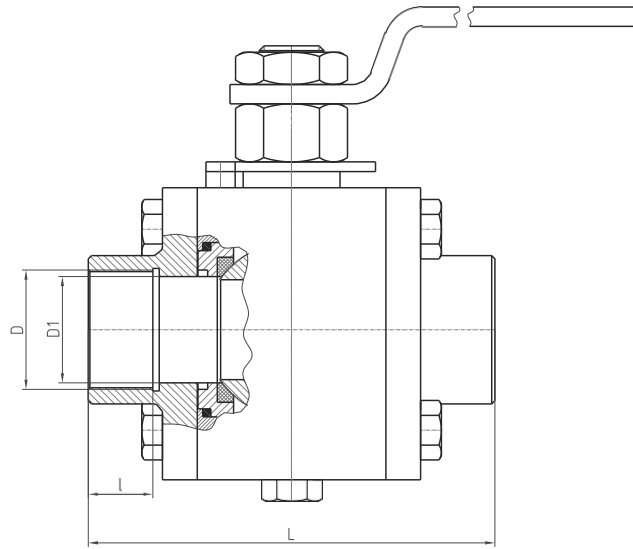
T10 - from -50°C to +200°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball to DN 100	1.4541 or 1.4571	1.4571	1.4541 or 1.4571	1.4541 or 1.4571
Stem	1.4541	1.4571	1.4006	1.4541
Seal	PTFE + 25% coke, O-ring NBR or EPDM or FPM or HNBR			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast- furnace gas, propane gas, butane gas, propane- butane gas	
There are available following material executions for special order: 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-430gw



Presented drawing is only demonstrative.
Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical

DN	65	80	100
D	G 2 1/2	G 3	G 4
D1	62	76	95
I	31	34	40
PN 63			
L	170	180	230
Weight (kg)	15	20	26
PN 100			
L	170	185	235
Weight (kg)	19	25	31

DP-410gw INTERNAL THREADED BALL VALVE NPT, ANSI, FIRE SAFE, ANTISTATIC

DIAMETER RANGE

from NPS 3/8" to NPS 3"

CHARACTERISTIC

Ball valves type DP-410gw are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Building of valves follows requirements of standards API 608 and API 607, BS 5351, BS 6755, taking into account fire resistance (FIRE SAFE) and protection against static charges appearance (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – Class 150, **CL300** - Class 300, **CL600** – Class 600, **CL800** – Class 800

For special order: Class 900, Class 1500

Temperature:

T18 - from -20°C to +70°C

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T15 - from -30°C to +70°C

T1 - from -30°C to +150°C

T2 - from -30°C to +200°C

T16 - from -40°C to +70°C

T5 - from -40°C to +150°C

T6 - from -40°C to +200°C

T17 - from -50°C to +70°C

T9 - from -50°C to +150°C

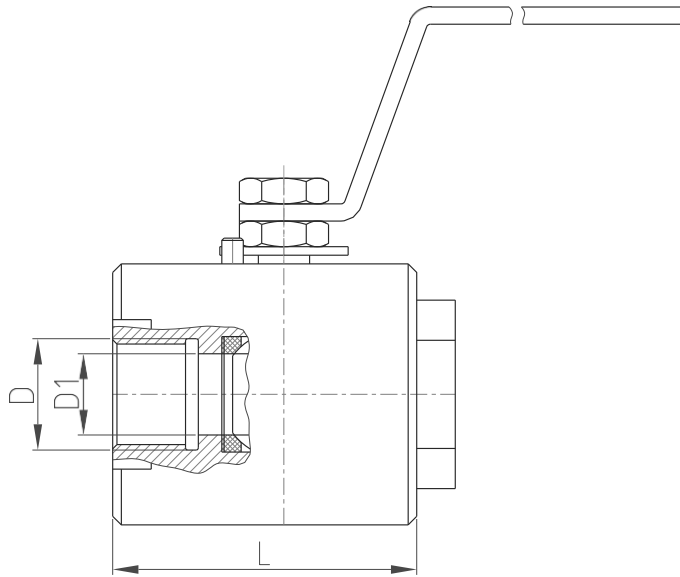
T10 - from -50°C to +200°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball	1.4571	1.4571	1.4571	1.4571
Stem	1.4541	1.4571	1.4006	1.4541
Seal	PTFE + 25% coke, PEEK, O-ring NBR or EPDM or FPM or HNBR			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast- furnace gas, propane gas, butane gas, propane- butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462(Duplex) and many others.				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-410gw



Presented drawing is only demonstrative.

Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

NPS	3/8	1/2	3/4	1	1 1/4	1 1/2	2	3
DN	10	15	20	25	32	40	50	80
L	55*	60	82*	90	110*	120	140	210
D	NPT 3/8-12	NPT 1/2-14	NPT 3/4-14	NPT 1-11.5	NPT 1 1/4-11.5	NPT 1 1/2-11.5	NPT 2-11.5	NPT 3-8
D1	9,5	12.5	19	25	30	38	49	76
Weight (kg)	0,55	0.6	1,9	2.1	3,5	7.2	11.7	35.3

DP-3p BALL VALVE FOR WELDING

acc. to PN-EN, DN10÷DN80 with full bore, DN100÷DN250 with reduced bore

DP-31p BALL VALVE FOR WELDING

acc. to PN-EN, with full bore

DIAMETER RANGE

from DN10 to DN250

CHARACTERISTIC

Ball valves type DP-3p and DP-31p are cut-off dismantlable valves. Valves DP-3p in diameter range DN10÷DN80 have full bore and in diameter range DN100÷ DN250 have reduced bore, valves DP-31p have full bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1- PN16, C2-PN25, C3- PN40

Temperature:

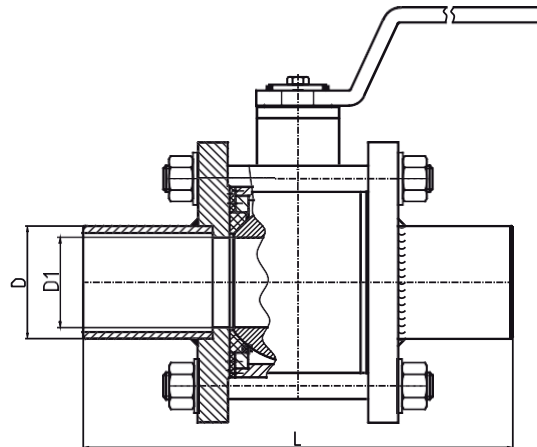
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

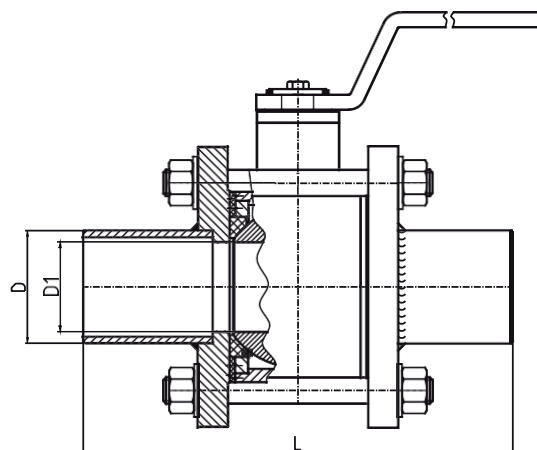
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-3p



DN	10	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
L	130	130	150	160	180	200	230	290	310	350	400	480	600	730
D1	10	15	20	25	32	40	50	62	75	85	105	130	162	200
D	17,3	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3	139,7	168,3	219	273
Weight (kg)	1,5	1,5	2,1	2,3	2,7	4,1	7,3	9,6	16	20	26	40	67	130

DP-31p



DN	10 ÷ 80	100	125	150*	200**	250**
L	TYPE DP3p	350	400	480	600	730
D1		100	125	150	200	253
D		114,3	139,7	168,3	219	273
Weight (kg)		20	26	40	67	130

* - worm gear application recommended

** - only with worm gear

DP-24p BALL VALVE FOR WELDING

acc. to PN-EN with full bore

DIAMETER RANGE

from DN15 to DN250

CHARACTERISTIC

Ball valves type DP-24p are cut-off valves with full bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1- PN16, C2-PN25, C3- PN40

Temperature:

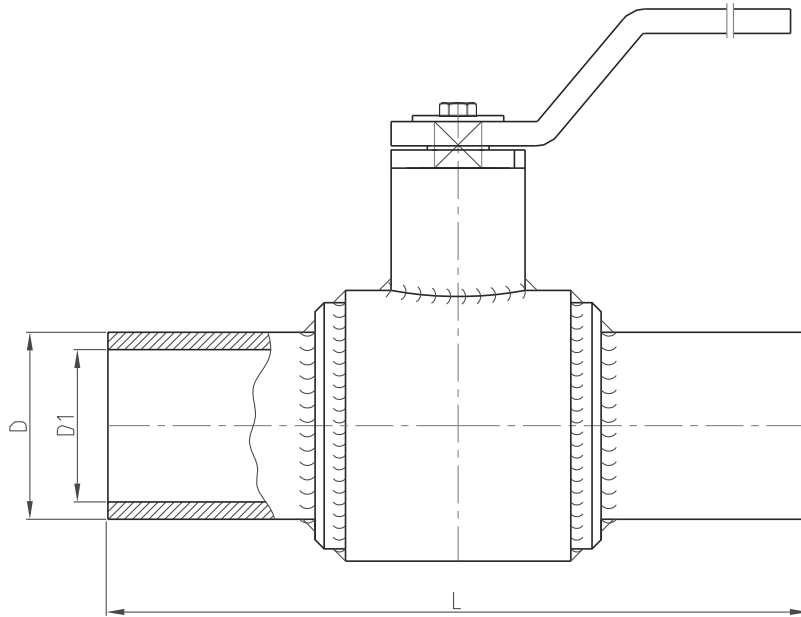
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-24p



DN	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
L	130	150	160	370	380	390	400	450	520	600	700	800	900
D1	15	20	25	32	40	50	65	75	98	123	148	198	253
D	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3	139,7	168,3	219	273
Weight (kg)	1,1	1,2	2,5	4,5	7	11,2	12,9	21	30	35	50	80	150

* - worm gear application recommended

** - only with worm gear

DP-1p BALL VALVE FOR WELDING

acc. to PN-EN with reduced bore

DIAMETER RANGE

from DN10 to DN150

CHARACTERISTIC

Ball valves type DP-1p are cut-off non-dismantleable valves with reduced bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40

Temperature:

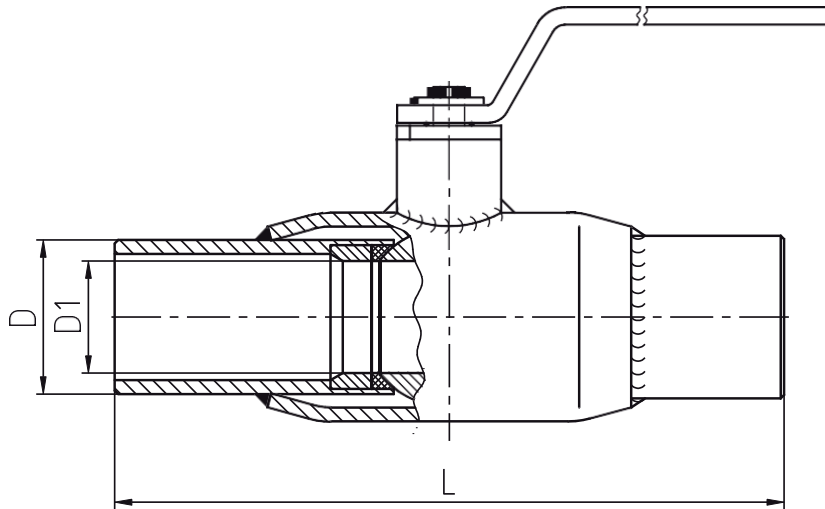
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE or PTFE with GRAPHITE or T7W						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-1p



DN	10	15	20	25	32	40	50	65	80	100	125	150
L	230	230	230	230	260	260	300	300	300	450	500	600
D1	10	10	15	20	25	32	40	50	62	85	105	130
D	17,2	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3	139,7	168,3
Weight (kg)	0,7	0,7	0,7	1,2	1,7	2,4	3,5	5,7	7,3	14,1	24	28,2

DP-1pS SCREWED BALL VALVE FOR WELDING

acc. to PN-EN with full bore

DIAMETER RANGE

from DN6 to DN50

CHARACTERISTIC

Ball valves type DP-1pS are cut-off dismantlable valves with full bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS KURKA

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40, **C6**-PN63, **C7**- PN100

Temperature:

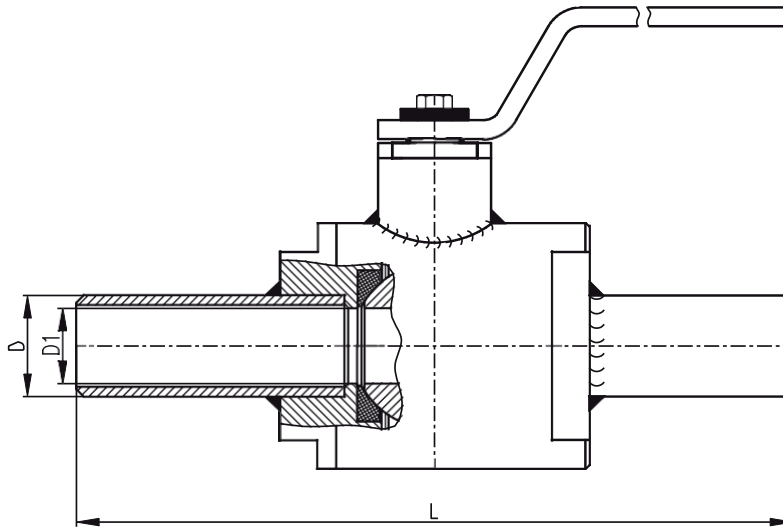
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP1-pS



DN	6	10	15	20	25	32	40	50
L	150	150	165	190	216	229	241	292
D	10,2	17,2	21,3	26,9	33,7	42,4	48,3	60,3
D1	6	10	15	20	25	32	40	50
Weight (kg)	0,6	0,8	1	2,2	2,5	3,5	4,7	7,5

There is available change of valve building length or execution in connection version SOCKET WELD onto client wish.

DP-400p BALL VALVE FOR WELDING 400°C

DIAMETER RANGE

from DN10 to DN100

CHARACTERISTIC

Ball valves type DP-400p are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C1- PN16, **C2**-PN25, **C3**- PN40, **C6**- PN63, **C7**- PN100

For special order: **C8** – PN160

Temperature:

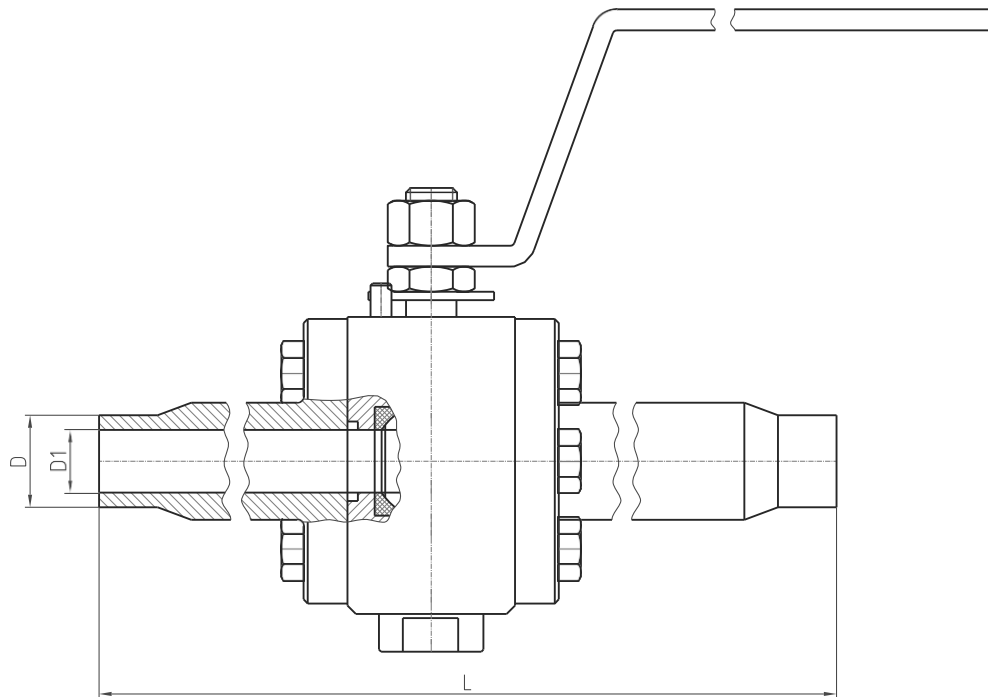
T20 - from -20°C to +200°C **T2** **T22** - from -20°C to +300°C **T23** - from -20°C to +345°C **T24** - from -20°C to +400°C
 - from -30°C to +200°C **T6** - **T27** - from -30°C to +300°C **T8** **T28** - from -30°C to +345°C **T29** - from -30°C to +400°C
 from -40°C to +200°C **T10** - - from -40°C to +300°C **T12** - **T25** - from -40°C to +345°C **T26** - from -40°C to +400°C
 from -50°C to +200°C from -50°C to +300°C **T13** - from -50°C to +345°C **T14** - from -50°C to +400°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball	1.4541	1.4571	1.4571	1.4571
Stem	1.4541	1.4571	1.4006	1.4541
Seal	Graphite, Coal + SB			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast- furnace gas, propane gas, butane gas, propane- butane gas	
There are available following material executions for special order: 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-400p



Presented drawing is only demonstrative.

Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

DN	10	15	20	25	32	40	50	65	80	100
L	270	270	270	270	270	270	300	360	390	450
D1	9,5	14	19	25	30	38	47	62	76	95
D	18	22	27.5	34	43	49	61	77	90	115
Weight (kg)	1.5	2.2	2.9	4.5	6	8	13.5	27,5	42	64

DP-405p BALL VALVE FOR WELDING METAL-METAL, FIRE SAFE, ANTISTATIC

DIAMETER RANGE

from DN25 to DN150

CHARACTERISTIC

Ball valves type DP-405p are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. Minimum internal diameter of bore is according to standard API 6D or alternatively to standard API 608. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C1- PN16, **C2**-PN25, **C3**- PN40, **C6**- PN63, **C7**- PN100
For special order: **C8** – PN160

Temperature:

T18 - from -20°C to +70°C

T17 - from -50°C to +70°C

T5 - from -40°C to +150°C

T15 - from -30°C to +70°C

T19 - from -20°C to +150°C

T9 - from -50°C to +150°C

T16 - from -40°C to +70°C

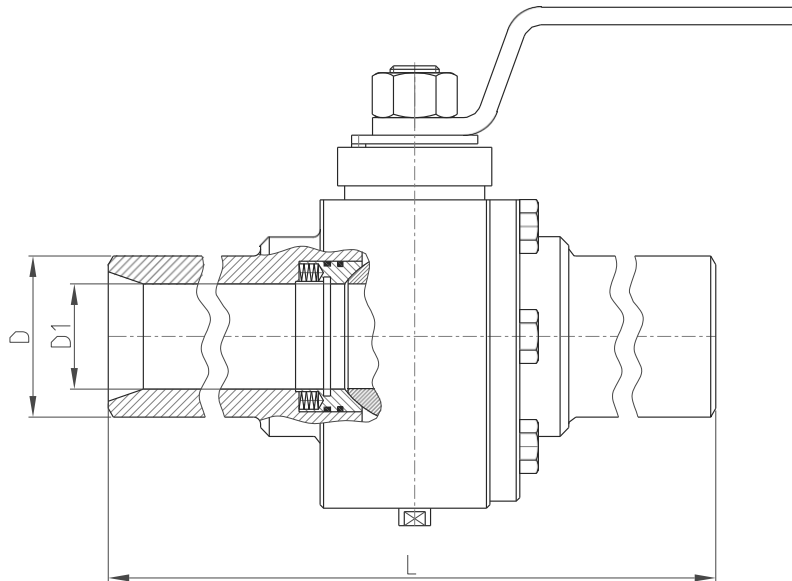
T1 - from -30°C to +150°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball	1.4571 + Stellite 6	1.4571 + Stellite 6	1.4034 (hardened)	1.4034 (hardened)
Stem	1.4541	1.4571	1.4006 or 1.4541	1.4006 or 1.4541
Seat	1.4571 + Stellite 6	1.4571 + Stellite 6	1.4034 (hardened)	1.4034 (hardened)
Seal	PTFE (PTFE + 25% coke), O-ring NBR (EPDM, FPM, HNBR), Graphite			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast-furnace gas, propane gas, butane gas, propane-butane gas	

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-405p



Presented drawing is only demonstrative.
Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

DN	25	32	40	50	65	80	100	100
L	270	270	270	300	360	390	450	450
D1	25	32	38	49	62	74	100	100
Lk1	160	180	200	230	290	310	350	350
D	34	43	49	61	77	90	115	115

DP-430p BALL VALVE FOR WELDING

DIAMETER RANGE

from DN65 to DN250

CHARACTERISTIC

Ball valves type DP-430p are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C1- PN16, **C2**-PN25, **C3**- PN40, **C6**- PN63, **C7**- PN100

For special order: **C8** – PN160

Temperature:

T18 - from -20°C to +70°C

T15 - from -30°C to +70°C

T16 - from -40°C to +70°C

T17 - from -50°C to +70°C

T19 - from -20°C to +150°C **T1**

- from -30°C to +150°C **T5** -

from -40°C to +150°C **T9** -

from -50°C to +150°C

T20 - from -20°C to +200°C **T2**

- from -30°C to +200°C **T6** -

from -40°C to +200°C **T10** -

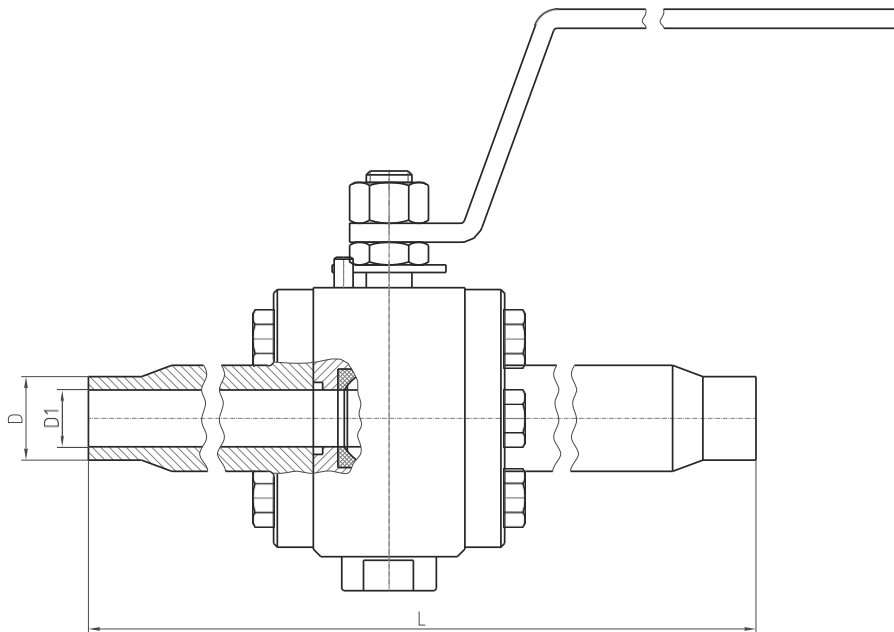
from -50°C to +200°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball do DN 100	1.4541 or 1.4571	1.4571	1.4541 or 1.4571	1.4541 or 1.4571
Ball od DN 125	1.4541	1.4571	1.4006	1.4006
Stem	1.4541	1.4571	1.4006	1.4541
Seal	PTFE + 25% coke, O-ring NBR or EPDM or FPM or HNBR			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast- furnace gas, propane gas, butane gas, propane- butane gas	
There are available following material executions for special order: 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-430p



Presented drawing is only demonstrative.
Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

Diameter from DN6 to DN50 TYPE DP-1pS

DN	65	80	100	125	150*	200**	250**
L	360	390	450	525	600	600	730
D1	62	76	95	119	142	200	250
D	77	90	115	onto client wish			

* - worm gear application recommended

** - only with worm gear

DP-34pC BALL VALVE FOR WELDING ASMEB16.10

acc. to ANSI, ASME with full bore

DP-32pSW BALL VALVE FOR WELDING SOCKET WELD

acc. to ANSI with full bore

DIAMETER RANGE

from NPS 1/2" to NPS 10"

CHARACTERISTIC

Ball valves type DP-34pC and DP-32pSW are cut-off dismantlable valves with full bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – class 150, **CL300** - class 300

Temperature:

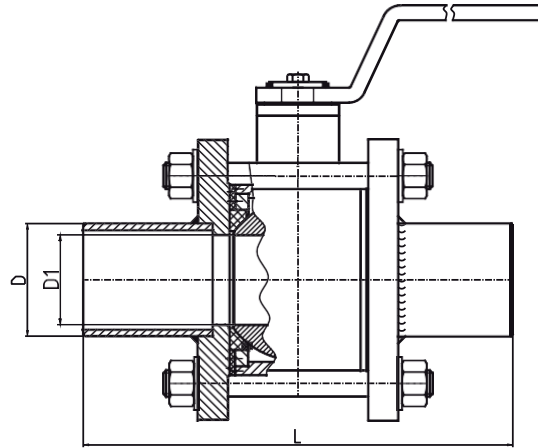
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-34pC



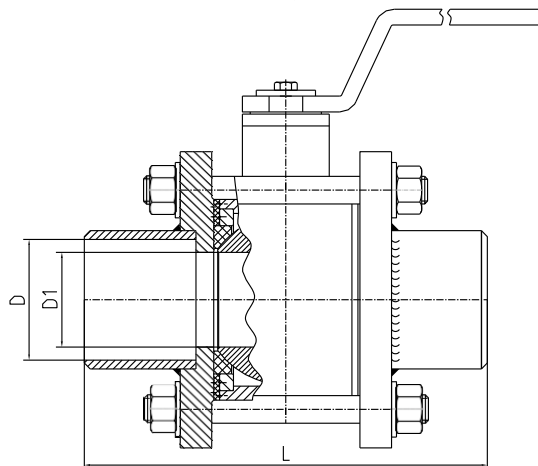
L - Length of building according to ASME B 16.10-2000

NPS	1/2	3/4	1	5/4	3/2	2	5/2	3	4	5	6*	8**	10**
DN	15	20	25	32	40	50	65	80	100	125	150	200	250
L	140	152	165	178	190	216	241	282	305	406	457	521	559
D1	15	20	25	32	40	50	62	75	100	125	150	200	253
D	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3	139,7	168,3	219	273
Weight (kg)	1	2,1	2,3	2,7	4,1	7,3	9,6	16	20	26	40	67	130

* - worm gear application recommended

** - only with worm gear

DP-32pSW



NPS	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6*	8**	10**
DN	10	15	20	25	32	40	50	65	80	100				
D1	12,7	15	20	25	32	38	50	65	75	100				
D	17,6	21,7	27,1	33,8	42,6	48,7	61,1	76,9	89,8	115,4				
L	130	130	150	160	180	200	230	290	310	350				
Weight (kg)	1,5	1,5	2,1	2,3	2,7	4,1	7,3	9,6	16	20				
												For special order		

* - worm gear application recommended

** - only with worm gear

DP-24pC BALL VALVE FOR WELDING

acc. to ANSI, ASME with full bore

DIAMETER RANGE

from NPS 1/2" to NPS 10"

CHARACTERISTIC

Ball valves type DP-24pC are cut-off valves with full bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – class 150, **CL300** – class 300

Temperature:

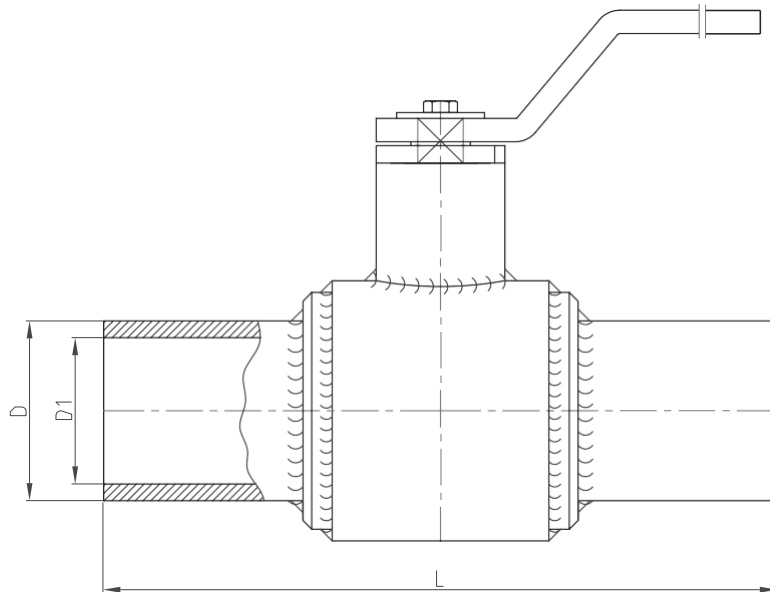
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE or PTFE with GRAPHITE or T7W						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-24pC



L - Length of building according to ASME B 16.10-2000

NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6*	8**	10**
DN	15	20	25	32	40	50	65	80	100	125	150	200	250
L	140	152	165	178	190	216	241	282	305	406	457	521	559
D1	15	20	25	32	40	50	65	75	98	123	148	198	253
Weight (kg)	1,1	1,2	2,5	4,5	7	11,2	12,9	21	30	35	50	80	150

* - worm gear application recommended

** - only with worm gear

DP-44pC SCREWED BALL VALVE FOR WELDING

acc. to ANSI, ASME with full bore

DIAMETER RANGE

from NPS1/2" to NPS2"

CHARACTERISTIC

Ball valves type DP-44pC are cut-off dismantlable valves with full bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – class 150, **CL300** – class 300, **CL600** – class 600

Temperature:

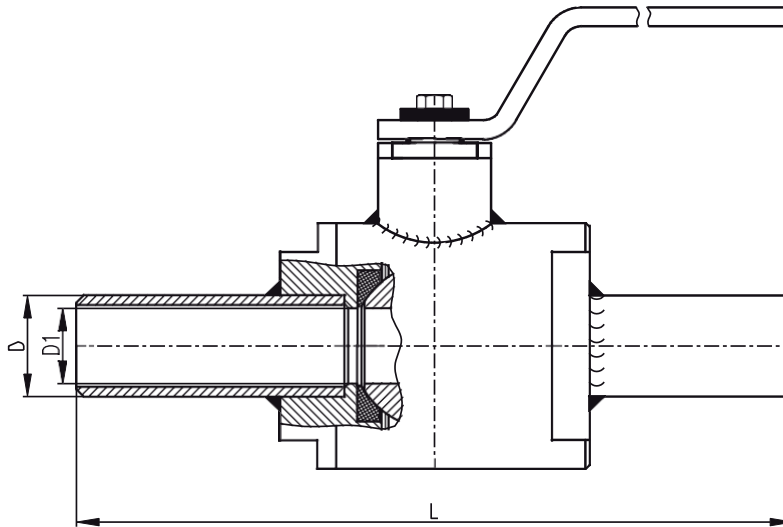
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils		Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP44-pC



L - Length of building according to ASME B 16.10-2000

NPS	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
L	140	152	165	178	190	216
D1	15	20	25	32	40	50

DP-44pSW BALL VALVE FOR WELDING SOCKET WELD

acc. to ANSI with full bore

DIAMETER RANGE

od NPS3/8" do NPS2"

CHARACTERISTIC

Ball valves type DP-44pSW are cut-off dismantlable valves with full bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

CL150 – class 150, **CL300** – class 300, **CL600** – class 600

Temperature:

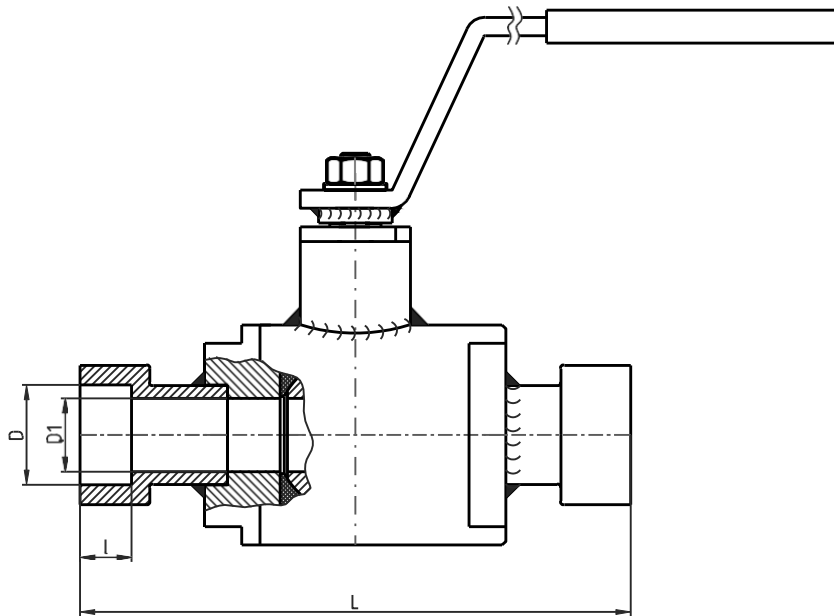
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP44-pSW



NPS	1/2	3/4	1	1 1/4	1 1/2	2
DN	15	20	25	32	40	50
L	130	150	160	180	200	230
D	21,7	27,2	34,0	42,8	48,6	61,0
I	11	14	14	14	14	16

DP-5k THREE-WAY FLANGED BALL VALVE

acc. to PN-EN with reduced bore

DIAMETER RANGE

from DN10 to DN250

CHARACTERISTIC

Three-way ball valves type DP-5k are cut-off dismantlable valves with reduced bore. Flanged connections are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves can be regenerated and have seal in three ways. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). Valves are executed in two versions: with ball type L – ball with two holes at angle 90°, with ball type T – ball with three holes.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature:

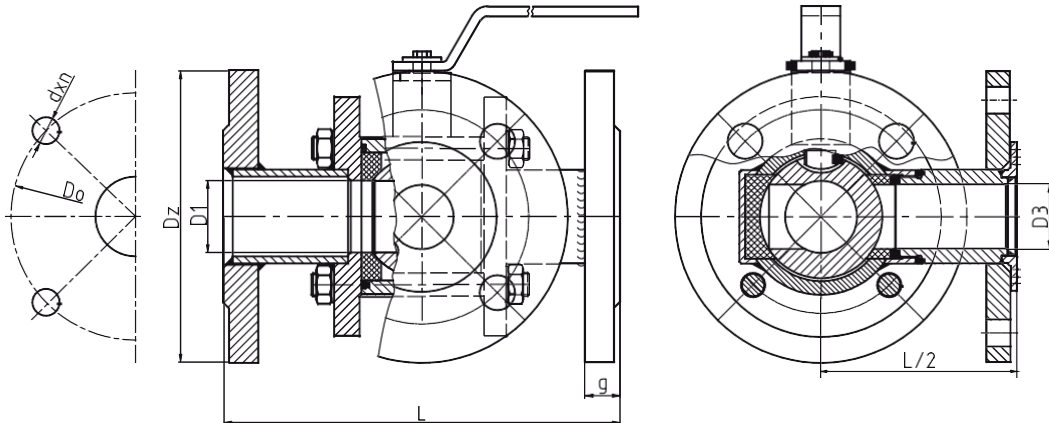
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen			Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-5k



L= Length of building according to EN 558-1 : 1995 series 1

DN	10	15	20	25	32	40	50	65	80	100	125	150*	200**	250**	
L	130	140	150	160	180	200	230	290	310	350	400	480	For special order		
L/2	60	65	75	80	90	100	115	145	155	175	200	240			
D1	10	15	20	23	27	33	45	54	67	80	96	118			
D3	10	15	20	20	27	33	45	54	67	80	96	118			
Weight (kg)	2,7	3	4,7	5,5	7,3	12	16,2	19,9	26	34	50	85			
Flanges according to PN-EN 1092-1:2006													PN 6		For special order
Dz	75	80	90	100	120	130	140	160	190	210	240	265			
Do	50	55	65	75	90	100	110	130	150	170	200	225			
dxn	11x4	11x4	11x4	11x4	14x4	14x4	14x4	14x4	18x4	18x4	18x8	18x8			
g	12	12	14	14	16	16	16	16	18	18	20	20			
Flanges according to PN-EN 1092-1:2006													PN 10		
Dz	90	95	105	115	140	150	165	185	200	220	250	285			
Do	60	65	75	85	100	110	125	145	160	180	210	240			
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8			
g	14	14	16	16	18	18	19	20	20	22	22	24			
Flanges according to PN-EN 1092-1:2006													PN 16		
Dz	90	95	105	115	140	150	165	185	200	220	250	285			
Do	60	65	75	85	100	110	125	145	160	180	210	240			
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8			
g	14	14	16	16	18	18	19	20	20	22	22	24			
Flanges according to PN-EN 1092-1:2006													PN 25		
Dz	90	95	105	115	140	150	165	185	200	235	270	300			
Do	60	65	75	85	100	110	125	145	160	190	220	250			
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8			
g	14	14	16	16	18	18	20	22	24	26	28	30			
Flanges according to PN-EN 1092-1:2006													PN 40		
Dz	90	95	105	115	140	150	165	185	200	235	270	300			
Do	60	65	75	85	100	110	125	145	160	190	220	250			
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8			
g	14	14	16	16	18	18	20	22	24	26	28	30			

* - worm gear application recommended

** - only with worm gear

DP-450k THREE-WAY FLANGED BALL VALVE

DIAMETER RANGE

from DN10 to DN150

CHARACTERISTIC

Three-way ball valves type DP-450k are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves can be regenerated and have seal in three ways. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). Valves are executed in two versions: with ball type L – ball with two holes at angle 90°, with ball type T – ball with three holes.

WORKING PARAMETERS

Nominal pressure:

C5- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40, **C6**-PN63 , **C7**-PN100

For special order: **C8** – PN160

Temperature:

T18 - from -20°C to +70°C

T15 - from -30°C to +70°C

T16 - from -40°C to +70°C

T17 - from -50°C to +70°C

T19 - from -20°C to +150°C

T1 - from -30°C to +150°C

T5 - from -40°C to +150°C

T9 - from -50°C to +150°C

T20 - from -20°C to +200°C

T2 - from -30°C to +200°C

T6 - from -40°C to +200°C

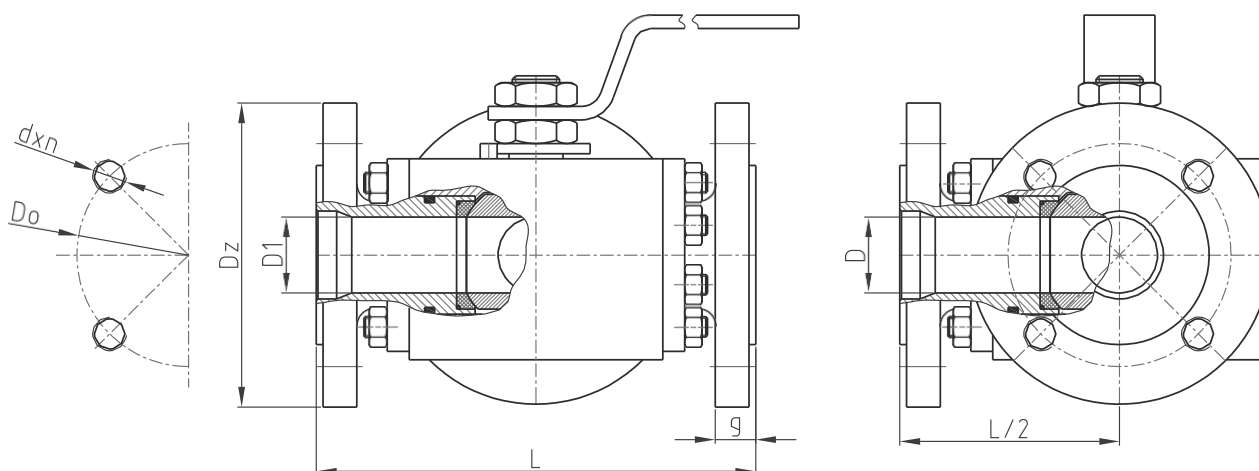
T10 - from -50°C to +200°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball to DN 100	1.4541 or 1.4571	1.4571	1.4541 or 1.4571	1.4541 or 1.4571
Ball from DN 125	1.4541	1.4571	1.4006	1.4006
Stem	1.4541	1.4571	1.4006	1.4541
Seal	PTFE + 25% coke, O-ring NBR or EPDM or FPM or HNBR			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils , petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast- furnace gas, propane gas, butane gas, propane- butane gas	
There are available following material executions for special order: 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-450k



Presented drawing is only demonstrative.

Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

DN	10	15	20	25	32	40	50	65	80	100	125	150*
D	9,5	14	20	25	30	38	47	62	76	95	125	150
L	130	130	150	160	180	200	230	290	310	350	400	480
L/2	65	65	75	80	90	100	115	145	155	175	200	240
Flanges according to PN-EN 1092-1:2006 PN16												
Dz	90	95	105	115	140	150	165	185	200	220	250	285
Do	60	65	75	85	100	110	125	145	160	180	210	240
dxn	14x4	14x4	14x4	M12x4	M16x4	M16x4	M16x4	18x8	M16x8	18x8	18x8	22x8
g	16	16	18	18	18	18	20	22	24	20	22	22
Weight (kg)	3,4	4,6	6,4	9,5	12,9	16	16,9	28,7	39,7	58,6	89,6	127,9
Flanges according to PN-EN 1092-1:2006 PN25, PN40												
Dz	90	95	105	115	140	150	165	185	200	235	270	300
Do	60	65	75	85	100	110	125	145	160	190	220	250
dxn	14x4	14x4	14x4	M12x4	M16x4	M16x4	M16x4	18x8	M16x8	M20x8	26x8	26x8
g	16	16	18	18	18	18	20	22	24	24	26	28
Weight (kg)	3,4	4,6	6,4	9,5	12,9	16	16,9	28,7	39,7	63,9	97,2	149,8
Flanges according to PN-EN 1092-1:2006 PN 63												
Dz	100	105	130	140	155	170	180	205	215	250	295	345
Do	70	75	90	100	110	125	135	160	170	200	240	280
dxn	14x4	14x4	18x4	M16x4	M20x4	M20x4	22x4	22x8	M20x8	M24x8	30x8	33x8
g	20	20	22	24	24	26	26	26	28	30	34	36
Weight (kg)	4,1	5,8	7,9	9,8	13,7	16,5	21,8	35,2	49,6	77	106,3	160,4
Flanges according to PN-EN 1092-1:2006 PN 100												
Dz	100	105	130	140	155	170	-----					
Do	70	75	90	100	110	125						
dxn	14x4	14x4	18x4	M16x4	M20x4	M20x4						
g	20	20	22	24	24	26						
Weight (kg)	4,1	5,8	7,9	9,8	13,7	16,5						

* - worm gear application recommended

DP-5kC THREE-WAY FLANGED BALL VALVE

acc. to ANSI with reduced bore

DIAMETER RANGE

from NPS1/2" to NPS 10"

CHARACTERISTIC

Three-way ball valves type DP-5kC are cut-off dismantlable valves with reduced bore. Flanged connections are executed according to ANSI CLASS and according to PN-EN 1759-1. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves can be regenerated and have seal in three ways. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). Valves are executed in two versions: with ball type L – ball with two holes at angle 90°, with ball type T – ball with three holes.

WORKING PARAMETERS

Nominal pressure:

CL150 – class 150, **CL300** - class 300

Temperature:

T1 - from -30°C to +150°C **T5** -
from -40°C to +150°C **T9** -
from -50°C to +150°C

T2 - from -30°C to +200°C **T6** -
from -40°C to +200°C **T10** -
from -50°C to +200°C

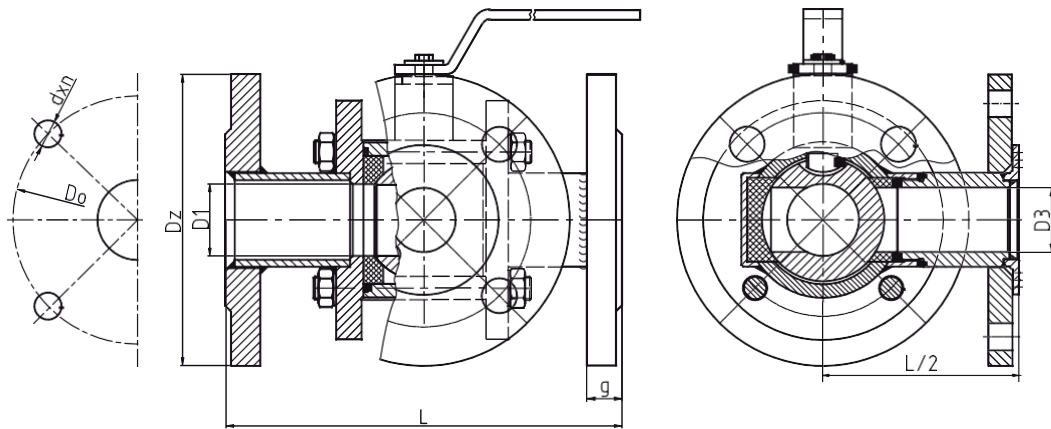
T4 - from -30°C to +250°C **T7** -
from -40°C to +250°C **T11** -
from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen			Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-5kC



L= Length of building according to EN 558-1: 1995 series 1

NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6*	8**	10**
DN	15	20	25	32	40	50	65	80	100	125	150	200	250
L	130	150	160	180	200	230	290	310	350	400	480	For special order	
L/2	65	75	80	90	100	115	145	155	175	200	240		
D3	15	20	20	27	33	45	54	67	80	96	118		
Weight (kg)	3	4,7	5,5	7,3	12	16,2	19,9	26	34	50	85		
Flanges according to PN-EN 1759-1 Class 150													
Dz	89	98	108	117	127	152	178	190	229	254	279		
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	215,9	241,3		
dxn	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	19x4	19x4	19x4	19x8	22,2x8	22,2x8		
g	12	14	16	18	19	21	24	26	27	28	31		
Flanges according to PN-EN 1759-1 Class 300												For special order	
Dz	95	117	124	133	156	165	190	210	254	279	318		
Do	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200	235	269,9		
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8	22,2x8	22,2x8	22,2x8	22,2x8	22,2x12		
g	14,3	15,9	17,5	19	20,6	22,2	25,4	28,6	31,8	34,9	36,5		

* - worm gear application recommended

** - only with worm gear

**DP-5gw THREE-WAY INTERNAL THREADED BALL VALVE DP-5gz
THREE-WAY EXTERNAL THREADED BALL VALVE**

acc. to PN-EN with reduced bore

**DP-5gwC THREE-WAY INTERNAL THREADED BALL VALVE DP-5gzC
THREE-WAY EXTERNAL THREADED BALL VALVE**

acc. to ANSI with reduced bore

DIAMETER RANGE

from DN10 to DN100 from
NPS3/8" to NPS4"

CHARACTERISTIC

Three-way ball valves type DP-5gw, DP-5gwC, DP-5gz and DP-5gzC are cut-off dismantlable valves with reduced bore. Valves DP-5gw and DP-5gz are executed according to PN-EN with thread G, DP-5gwC and DP-5gzC are executed according to ANSI with thread NPT. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves can be regenerated and have seal in three ways. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). Valves are executed in two versions: with ball type L – ball with two holes at angle 90°, with ball type T – ball with three holes.

WORKING PARAMETERS

Nominal pressure:

**C4-PN6, C5-PN10, C1- PN16, C2-PN25, C3- PN40,
CL150 – class 150, CL300 - class 300**

Temperature:

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

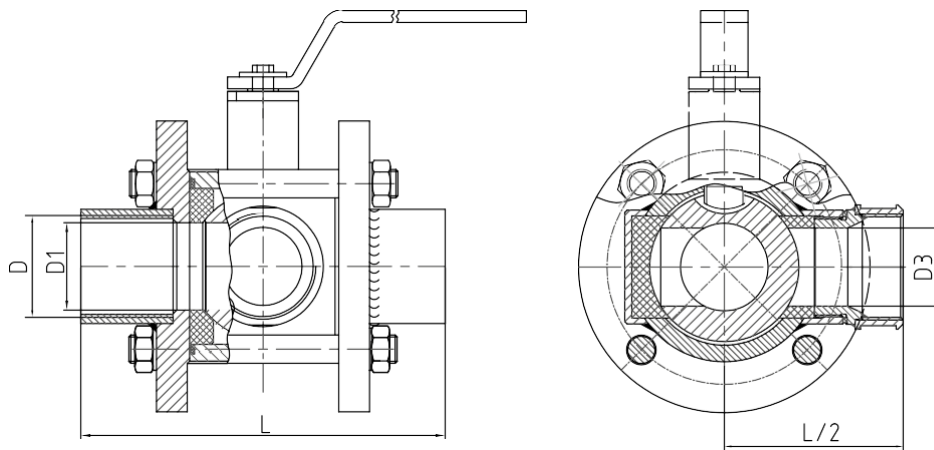
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals	PTFE or PTFE with GRAPHITE or T7W						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

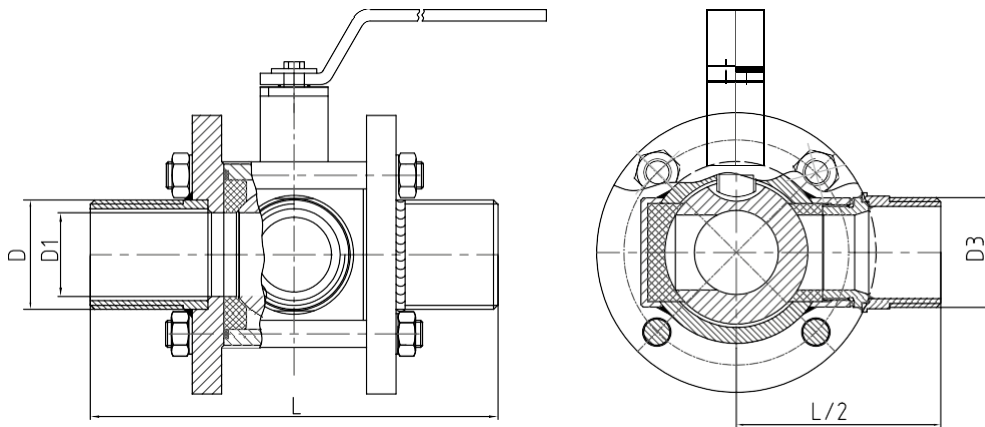


DP-5gw, DP-5gwC



DN	10	15	20	25	32	40	50	65	80	100
NPS	3/8	1/2	3/4	1	5/4	3/2	2	2 1/2	3	4
L	115	115	130	145	170	180	190	For special order		
L/2	54	54	62,5	70	79	84,5	102			
D - DP-5gw	G 3/8	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2			
D - DP-5gwC	NPT 3/8	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2			
D1	10	15	20	23	27	33	45			
D3	10	15	20	20	27	33	45			
Weight (kg)	2,2	2,2	3,8	4,5	5,8	7	8			

DP-5gz, DP-5gzC



DN	10	15	20	25	32	40	50	65	80	100
NPS	3/8	1/2	3/4	1	5/4	3/2	2	2 1/2	3	4
L	115	115	130	145	170	180	190	For special order		
L/2	54	54	62,5	70	79	84,5	102			
D- DP-5gw	G 3/8	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2			
D - DP-5gwC	NPT 3/8	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2			
D1	10	15	20	23	27	33	45			
D3	10	15	20	20	27	33	45			
Weight (kg)	2,2	2,2	3,8	4,5	5,8	7	8			

DP-450gw THREE-WAY INTERNAL THREADED BALL VALVE

DIAMETER RANGE

from DN10 to DN100

CHARACTERISTIC

Three-way ball valves type DP-450gw are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves can be regenerated and have seal in three ways. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). Valves are executed in two versions: with ball type L – ball with two holes at angle 90°, with ball type T – ball with three holes.

WORKING PARAMETERS

Nominal pressure:

C5- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40, **C6**-PN63 **C7**-PN100

For special order: **C8** – PN160

Temperature:

T18 - from -20°C to +70°C

T15 - from -30°C to +70°C

T16 - from -40°C to +70°C

T17 - from -50°C to +70°C

T19 - from -20°C to +150°C

T1 - from -30°C to +150°C

T5 - from -40°C to +150°C

T9 - from -50°C to +150°C

T20 - from -20°C to +200°C

T2 - from -30°C to +200°C

T6 - from -40°C to +200°C

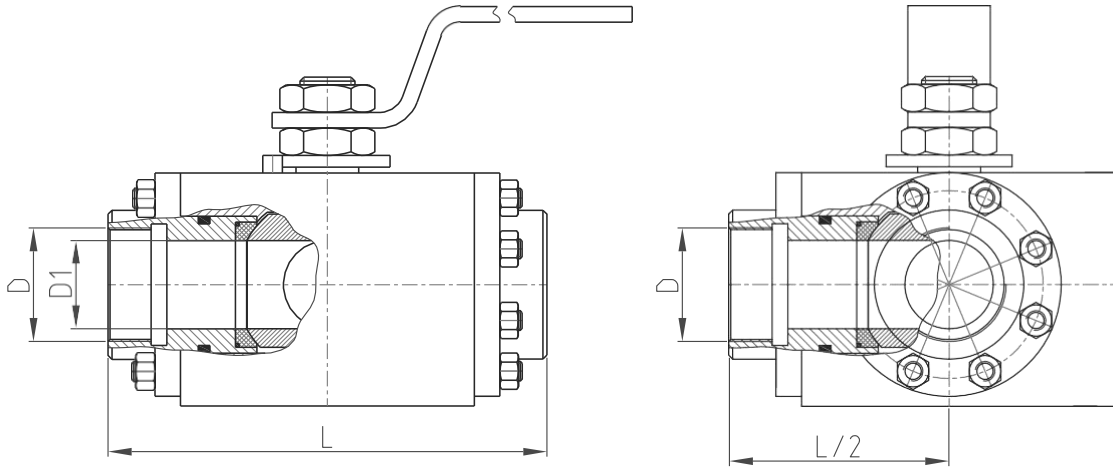
T10 - from -50°C to +200°C

PART	EXECUTION			
	K1	K2	Z1	Z5
	Material specification			
Body	1.4541	1.4571	1.0577	1.0565
Ball to DN 100	1.4541 or 1.4571	1.4571	1.4541 or 1.4571	1.4541 or 1.4571
Ball from DN 125	1.4541	1.4571	1.4006	1.4006
Stem	1.4541	1.4571	1.4006	1.4541
Seal	PTFE + 25% coke, O-ring NBR or EPDM or FPM or HNBR			
Anticorrosive protection:	-----	-----	painting coat or zinc plating	
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, petrol, kerosene, diesel oil, fuel oil, fuels, petroleum, machine oils (hydraulic, engine, transformer), natural gas, mine gas, blast- furnace gas, propane gas, butane gas, propane- butane gas	
There are available following material executions for special order: 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others				

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-450gw



Presented drawing is only demonstrative.

Ball valves can have 2-pc or 3-pc construction, but connection dimensions are identical.

DN	10	15	20	25	32	40	50	65	80	100
L	100	115	120	130	150	160	190	220		
D	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
D1	9,5	14	19	25	30	38	47	62	76	95
L/2	50	57,5	60	65	75	80	90	110		
Weight (kg)	2,7	3,7	5,1	7,6	10,3	14,4	15,2	25,8	35,7	48

DP-5p THREE-WAY BALL VALVE FOR WELDING

acc. to PN-EN with reduced bore

DIAMETER RANGE

from DN10 to DN250

CHARACTERISTIC

Three-way ball valves type DP-5p are cut-off dismantlable valves with reduced bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves can be regenerated and have seal in three ways. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). Valves are executed in two versions: with ball type L – ball with two holes at angle 90°, with ball type T – ball with three holes.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature:

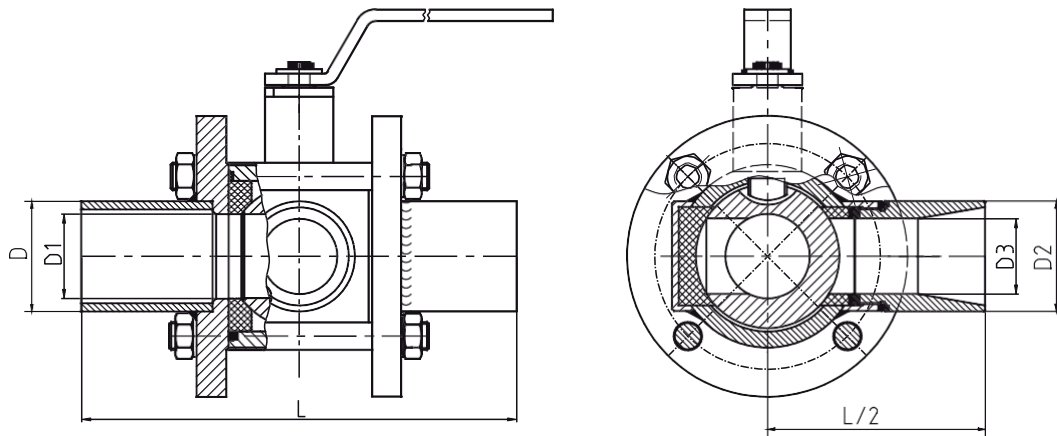
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-5p



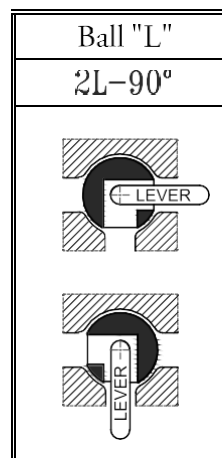
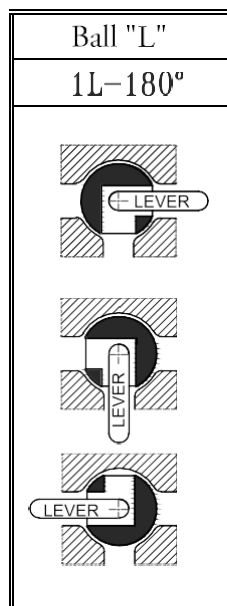
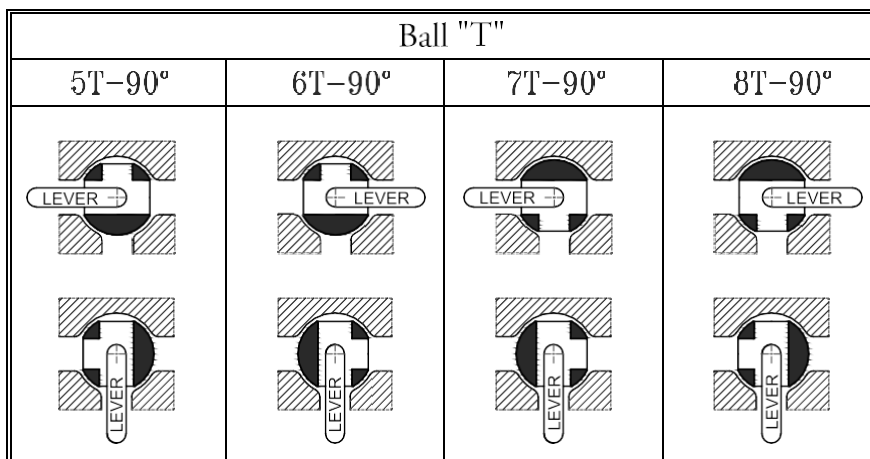
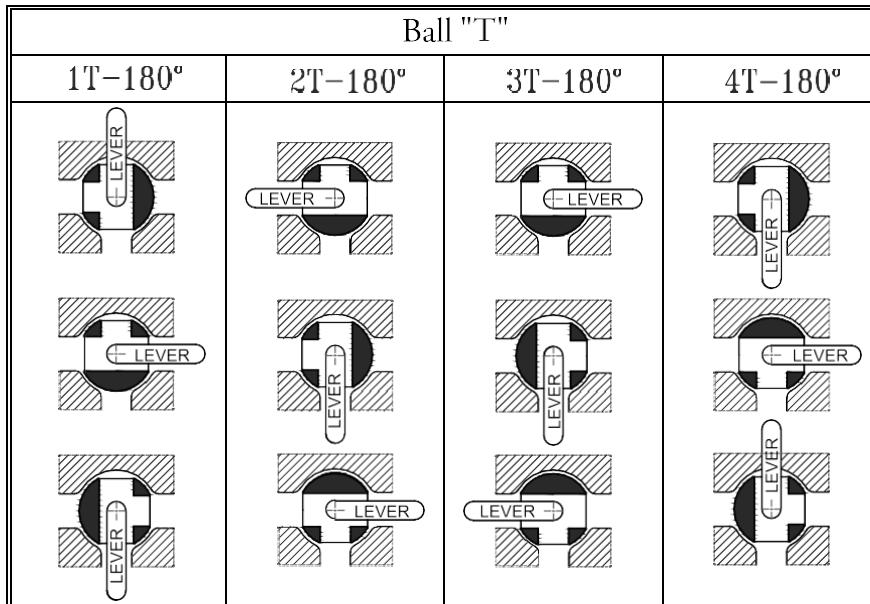
DN	10	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
L	130	130	150	160	180	200	230	290	310	350	400	480	For special order	
L/2	61	61	71	96,5	101	100	110	140	150	167	192	232		
D	17,3	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	108	133	159		
D1	10	15	20	23	27	33	45	54	67	80	96	118		
D2	22	26	38	38	48	56	65	73	90	108	133	159		
D3	10	15	20	20	27	33	45	54	67	80	96	118		
Weight (kg)	2	2,2	3,8	4,6	5,8	7	8	10,3	16	29	45	71		

* - worm gear application recommended

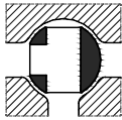

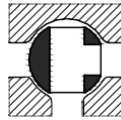
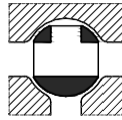

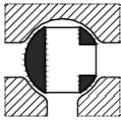
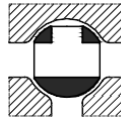
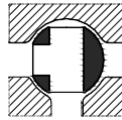


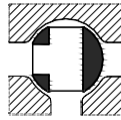
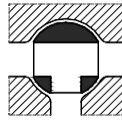
** - only with worm gear

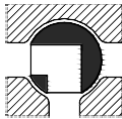


There is available change of valve building length
or execution in connection version SOCKET WELD onto client wish.



Application versions of balls type „L” and „T” depending of turn angle in valves type DP-5 and DP-9



Application versions of balls type „L” and „T” depending of turn angle in valves type DP-450

Ball "T"			
T 331-180°	T 332-180°	T 333-180°	T 334-180°
			
			
			

Ball "L"
L 331-180°




Ball "L"
L 321-90°



DP-10k HEATED FLANGED BALL VALVE

acc. to PN-EN, DN10÷DN80 with full bore, DN100÷DN250 with reduced bore

DP-10kC HEATED FLANGED BALL VALVE

acc. to ANSI, NPS 1/2" ÷ NPS 3" with full bore, NPS 4" ÷ NPS 10" with reduced bore

DIAMETER RANGE

from DN15 to DN250 from
NPS 1/2" to NPS 10"

CHARACTERISTIC

Heated ball valves type DP-10k and DP-10kC are cut-off dismantlable valves. In diameter range DN10÷DN80 and NPS 1/2" ÷ NPS 3" valves have full bore and in diameter range DN100÷ DN250 and NPS 4" ÷ NPS 10" valves have reduced bore. Flanged connections in valves DP-10k are executed according to PN-EN 1092-1:2006 and in valves DP-10kC are executed according to ANSI CLASS and according to PN-EN 1759-1. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). For heating of valves can be applied among other things water, steam, oils, liquids like Petyrgo, Borygo and similar. Valves can be heated:

A – on body, B – on all building length. Ends of heating jacket can be: PG - threaded, PK - flanged or PP - for welding. Valves have in standard column L=100mm what assures valve insulation.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40
CL150 – class 150, **CL300** - class 300

Temperature:

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

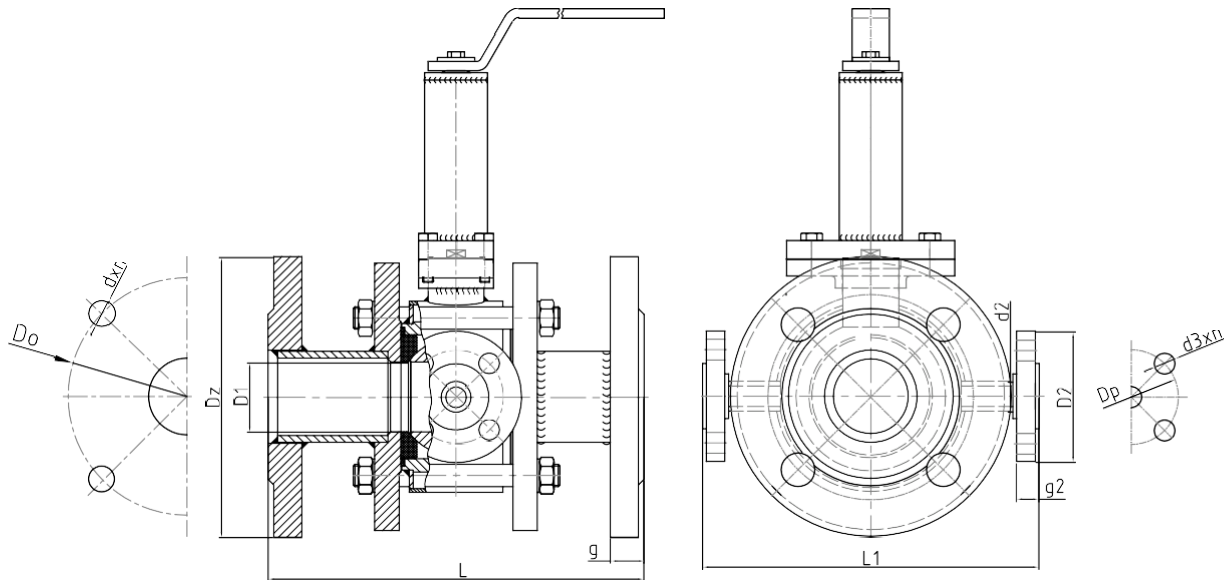
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Column	1.4301			1.0038			
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

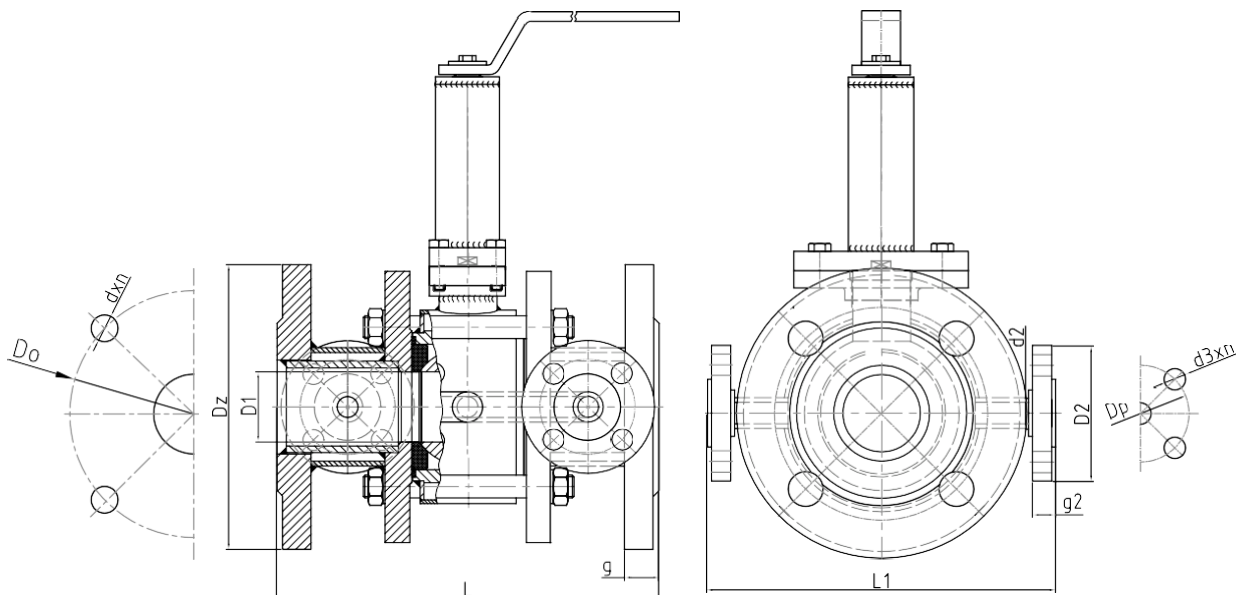
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-10k, DP-10kC

Version APK heated on body, with flanged connection of heating jacket



Version BPK heated on all building length, with flanged connection of heating jacket





DP-10k

L – Length of building according to EN 558-1: 1995 series 1

DN	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
L	130	150	160	180	200	230	290	310	350	400	480	600	730
D1	15	20	25	32	40	50	62	75	85	105	130	162	200
D2	95	95	95	95	95	95	95	95	95	105	105	105	105
d2	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	26,9	26,9	26,9	26,9
d3 x n	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4
D_n	65	65	65	65	65	65	65	65	65	75	75	75	75
g2	14	14	14	14	14	14	14	14	14	16	16	16	16
L1	189	209	209	220	234	271	281	304	326	393	435	486	545
Weight (kg)	3,6	5,2	5,7	7	9	14	17	26	33	44	66	92,5	172
Flanges according to PN-EN 1092-1:2006 PN 6													
Dz	80	90	100	120	130	140	160	190	210	240	265	320	375
Do	55	65	75	90	100	110	130	150	170	200	225	280	335
d x n	11x4	11x4	11x4	14x4	14x4	14x4	14x4	18x4	18x4	18x8	18x8	18x8	18 x12
g	12	14	14	16	16	16	16	18	18	20	20	22	24
Flanges according to PN-EN 1092-1:2006 PN 10													
Dz	95	105	115	140	150	165	185	200	220	250	285	340	395
Do	65	75	85	100	110	125	145	160	180	210	240	295	350
d x n	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8	22x8	22 x12
g	14	16	16	18	18	19	20	20	22	22	24	24	26
Flanges according to PN-EN 1092-1:2006 PN 16													
Dz	95	105	115	140	150	165	185	200	220	250	285	340	405
Do	65	75	85	100	110	125	145	160	180	210	240	295	355
d x n	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8	22x12	26 x12
g	14	16	16	18	18	19	20	20	22	22	24	26	29
Flanges according to PN-EN 1092-1:2006 PN 25													
Dz	95	105	115	140	150	165	185	200	235	270	300	360	425
Do	65	75	85	100	110	125	145	160	190	220	250	310	370
d x n	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8	26x12	29,5 x12
g	14	16	16	18	18	20	22	24	26	28	30	32	35
Flanges according to PN-EN 1092-1:2006 PN 40													
Dz	95	105	115	140	150	165	185	200	235	270	300	375	450
Do	65	75	85	100	110	125	145	160	190	220	250	320	385
d x n	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8	29,5x12	32,5 x12
g	14	16	16	18	18	20	22	24	26	28	30	36	42

* - worm gear application recommended

** - only with worm gear

DP-10kC

L – Length of building according to EN 558-1: 1995 series 1

NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6*	8**	10**
DN	15	20	25	32	40	50	65	80	100	125	150	200	250
L	130	150	160	180	200	230	290	310	350	400	480	600	730
D1	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
D2	89	89	89	89	89	89	89	89	89	98	98	98	98
d2	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	26,9	26,9	26,9	26,9
d3x n	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4
Dp	60,3	60,3	60,3	60,3	60,3	60,3	60,3	60,3	60,3	69,8	69,8	69,8	69,8
g2	12	12	12	12	12	12	12	12	12	14	14	14	14
L1	189	209	209	220	234	271	281	304	326	393	435	486	545
Weight (kg)	3,6	5,2	5,7	7	9	14	17	26	33	44	66	92,5	172
Flanges according to PN-EN 1759-1 Class 150													
Dz	89	98	108	117	127	152	178	190	229	254	279	343	406
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	215,9	241,3	298,4	362
d x n	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	19x4	19x4	19x4	19x8	22,2x8	22,2x8	22,2x8	25,4x12
g	12	14	16	18	19	21	24	26	27	28	31	34	38
Flanges according to PN-EN 1759-1 Class 300													
Dz	95	117	124	133	156	165	190	210	254	279	318	381	444
Do	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200	235	269,9	330,2	387,4
d x n	15,9x4	19x4	19x4	19x4	22,2x4	19x8	22,2x8	22,2x8	22,2x8	22,2x8	22,2x12	25,4x12	28,6x16
g	14,3	15,9	17,5	19	20,6	22,2	25,4	28,6	31,8	34,9	36,5	41,3	47,6

* - worm gear application recommended

** - only with worm gear

DP-10b HEATED INTERFLANGED BALL VALVE

acc. to PN-EN, DN15÷DN100 with full bore

DIAMETER RANGE

from DN10 to DN100

CHARACTERISTIC

Heated ball valves type DP-10b are cut-off dismantlable valves Flanged connections in valves DP-10b are executed according to PN-EN 1092-1:2006. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). For heating of valves can be applied among other things water, steam, oils, liquids like Petrygo, Borygo and similar. Ends of heating jacket can be: PG - threaded, PK - flanged or PP - for welding.

WORKING PARAMETERS

Nominal pressure:

C5-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

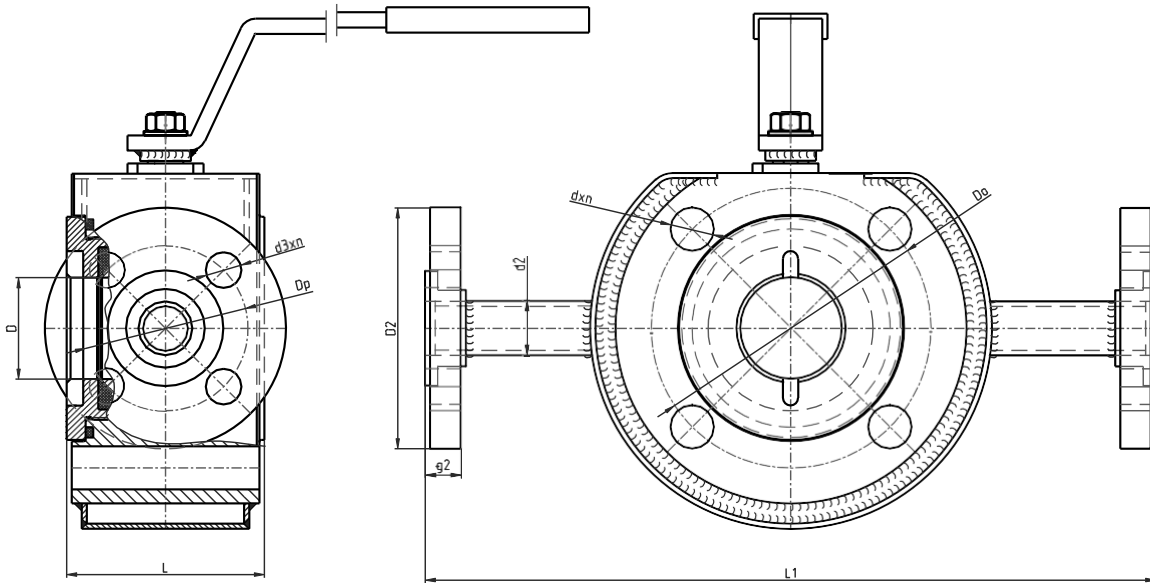
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE or PTFE with GRAPHITE or T7W						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking



DP-10b



DN	15	20	25	32	40	50	65	80	100
D	15	20	25	32	40	50	62	75	98
L	44	44	60	70	78	84	100	126	160
D2	95	95	95	95	95	95	95	95	95
d2	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3
d3 x n	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4
D _n	65	65	65	65	65	65	65	65	65
g2	14	14	14	14	14	14	14	14	14
L1	~233	~243	253	278	288	~303	~323	~335	~358
Weight (kg)	~2,8	~3,5	~4,9	~8,0	~8,9	~12,9	~21,0	~26,5	~45,8
Flanges according to PN-EN 1092-1:2006 PN 10									
Do	65	75	85	100	110	125	145	160	180
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	18x8
Flanges according to PN-EN 1092-1:2006 PN 16									
Do	65	75	85	100	110	125	145	160	180
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	18x8
Flanges according to PN-EN-1:2006 PN 25									
Do	65	75	85	100	110	125	145	160	190
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	22x8
Flanges according to PN-EN-1:2006 PN 40									
Do	65	75	85	100	110	125	145	160	190
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	22x8

We can make threaded holes or change length of valve building onto client wish.

DP-10gw HEATED INTERNAL THREADED BALL VALVE DP-10gz HEATED EXTERNAL THREADED BALL VALVE

acc. to PN-EN with full bore

DP-10gwC HEATED INTERNAL THREADED BALL VALVE DP-10gzC HEATED EXTERNAL THREADED BALL VALVE

acc. to ANSI with full bore

DIAMETER RANGE

from DN15 to DN100 from
NPS 1/2" to NPS 4"

CHARACTERISTIC

Heated ball valves type DP-10gw and DP-10gwC, DP-10gz, DP-10gzC are cut-off dismantlable valves with full bore. Valves DP-10gw and DP-10gz are executed according to PN-EN with thread G, valves DP-10gwC and DP-10gzC are executed according to ANSI with thread NPT. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). For heating of valves can be applied among other things water, steam, oils, liquids like Petygo, Borygo and similar. Valves can be heated: A - on body. Ends of heating jacket can be: PG - threaded, PK - flanged or PP - for welding. Valves have in standard column L=100mm what assures valve insulation.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

CL150 – class 150, **CL300** - class 300

Temperature:

T1 - from -30°C to +150°C **T5** -
from -40°C to +150°C **T9** -
from -50°C to +150°C

T2 - from -30°C to +200°C **T6** -
from -40°C to +200°C **T10** -
from -50°C to +200°C

T4 - from -30°C to +250°C **T7** -
from -40°C to +250°C **T11** -
from -50°C to +250°C

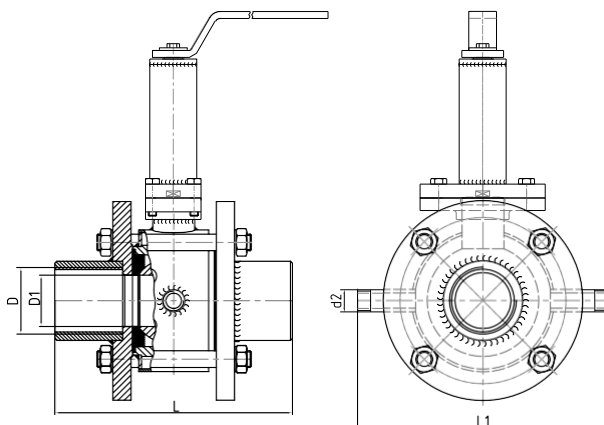
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Column	1.430			1.0038			
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO2, CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-10gw, DP-10gwC

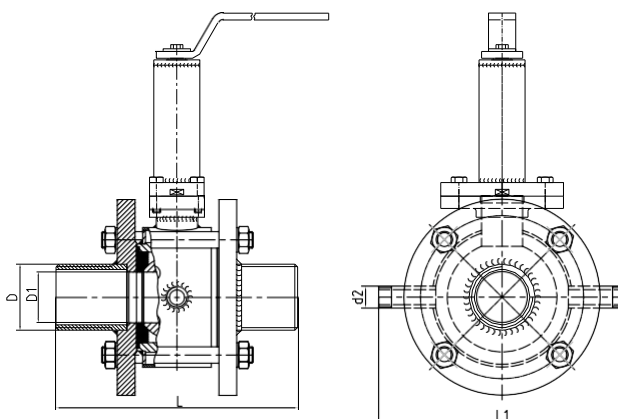
Version APG heated on body, with threaded connection of heating jacket



DN	15	20	25	32	40	50	65	80	100
NPS	1/2	3/4	1	5/4	3/2	2	5/2	3	4
L	85	95	105	120	130	150	For special order		
D - DP-10gw	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2			
D - DP-10gwC	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2			
D1	15	20	25	32	40	50			
L1	181	201	201	212	226	263			
d2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2			
Weight (kg)	1,2	2,4	2,7	3,1	4,5	8,3			

DP-10gz, DP10-gzC

Version APG heated on body, with threaded connection of heating jacket



DN	15	20	25	32	40	50	65	80	100
NPS	1/2	3/4	1	5/4	3/2	2	5/2	3	4
L	115	130	145	170	180	190	For special order		
D - DP-10gw	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2			
D - DP-10gwC	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2			
D1	15	20	25	32	40	50			
L1	181	201	201	212	226	263			
d2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2			
Weight (kg)	1,2	2,4	2,7	3,1	4,5	8,3			

DP-10p HEATED BALL VALVE FOR WELDING

acc. to PN-EN, DN10÷DN80 with full bore, DN80÷DN250 with reduced bore

DIAMETER RANGE

from DN15 to DN250

CHARACTERISTIC

Heated ball valves type DP-10p are cut-off dismantlable valves. In diameter range DN10÷DN80 valves have full bore and in diameter DN100÷ DN250 valves have reduced bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). For heating of valves can be applied among other things water, steam, oils, liquids like Petygo, Borygo and similar. Valves can be heated: A - on body. Ends of heating jacket can be: PG - threaded, PK - flanged or PP - for welding. Valves have in standard column L=100mm what assures valve insulation.

PRAMETRY PRACY

Nominal pressure:

C4-PN6, C5-PN10, C1- PN16, C2-PN25, C3- PN40

Temperature:

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

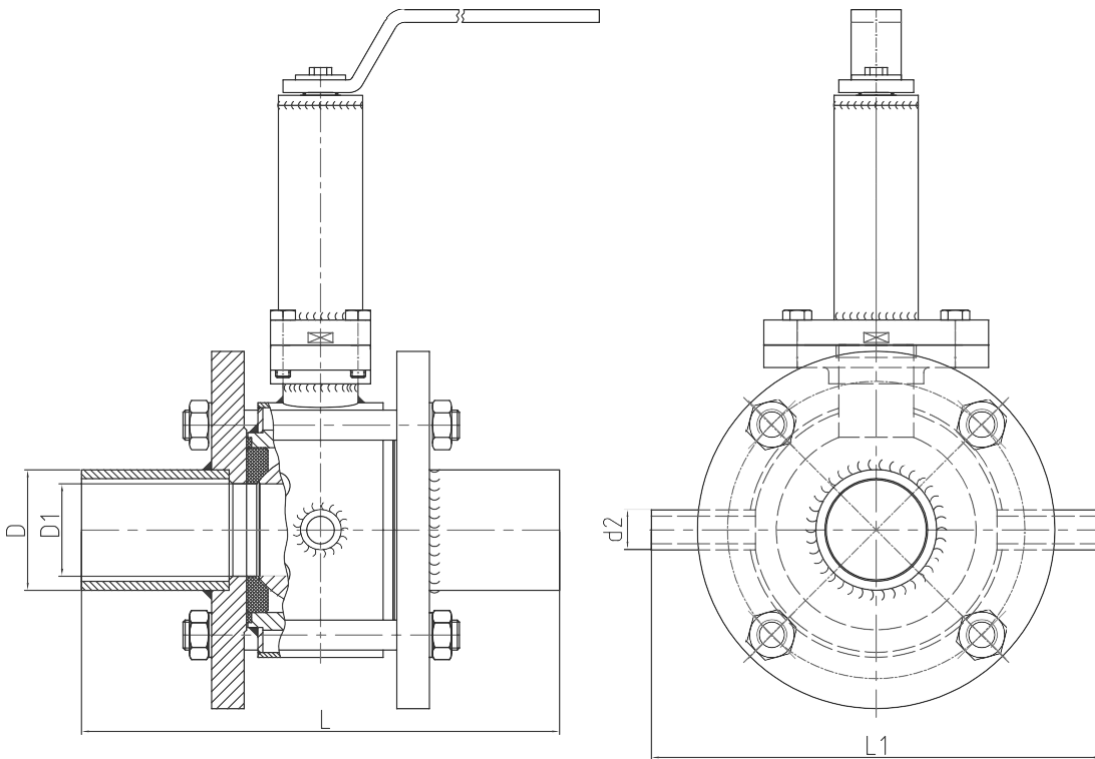
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Column	1.4301			1.0038			
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-10p

Version APP heated on body, with connection of heating jacket for welding



DN	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
L	130	150	160	180	200	230	290	310	350	400	480	600	730
D	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3	139,7	168,3	219,1	273
D1	15	20	25	32	40	50	62	75	85	105	130	162	200
L1	181	201	201	212	226	263	273	296	318	385	427	478	537
d ₂	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	26,9	26,9	26,9	26,9
Weight (kg)	1,2	2,4	2,6	3,1	4,6	8,4	10,8	17,5	22	28,8	43,7	72,4	140

* - worm gear application recommended

** - only with worm gear

There is available execution in connection version SOCKET WELD according to the client request.

DP-9k HEATED THREE-WAY FLANGED BALL VALVE

acc. to PN-EN with reduced bore

DP-9kC HEATED THREE-WAY FLANGED BALL VALVE

acc. to ANSI with reduced bore

DIAMETER RANGE

from DN 15 to DN 250 from
NPS1/2" to NSP10"

CHARACTERISTIC

Three-way ball valves type DP-9k are cut-off dismantlable valves with reduced bore. Flanged connections are executed according to PN-EN 1092-1:2006 and in case of DP-9kC connections are executed according to ANSI CLASS and according to PN-EN 1759-1. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have seal in three ways. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). Valves have in standard column L=100mm what assures valve insulation and are executed in two versions: with ball type L – ball with two holes at angle 90°, with ball type T – ball with three holes. For heating of valves can be applied among other things water, steam, oils, liquids like Petrygo, Borygo and similar. Valves can be heated: A – on body, B – on all building length. Ends of heating jacket can be: PG - threaded, PK - flanged or PP- for welding.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

CL150 – Class 150, **CL300** - Class 300

Temperature:

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

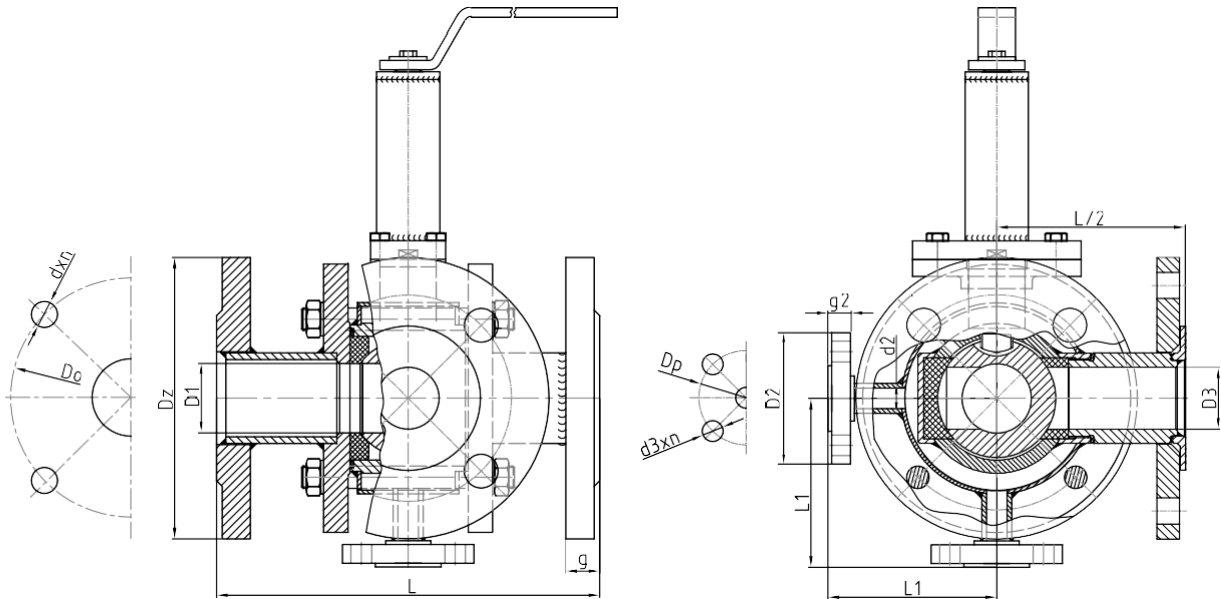
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Column	1.4301			1.0038			
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen			Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

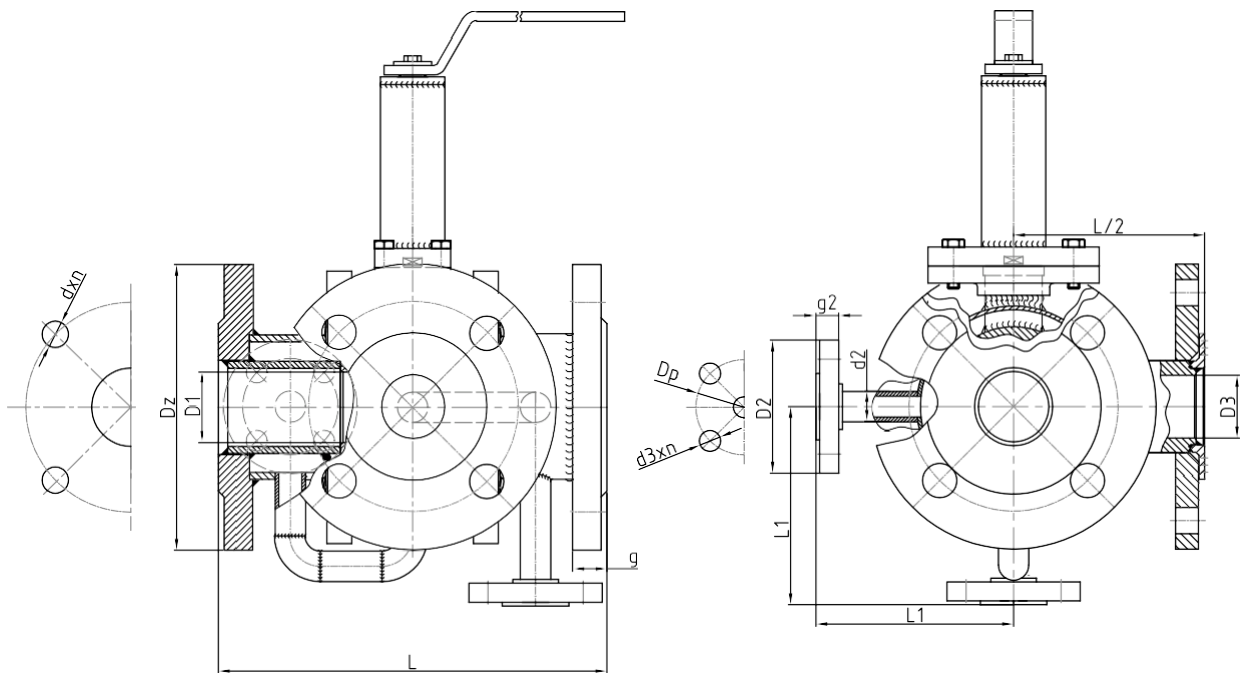
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-9k, DP-9kC

Version APK heated on body, with flanged connection of heating jacket



Version BPK heated on body, with flanged connection of heating jacket



DP-9k

L – Length of building according to EN 558-1: 1995 series 1

DN	15	20	25	32	40	50	65	80	100	125	150*	200**	250**			
L	130	150	160	180	200	230	290	310	350	For special order						
D1	15	20	23	27	33	45	54	67	80							
D3	15	20	20	27	33	45	54	67	80							
L/2	65	75	80	90	100	115	145	155	175							
D ₁	95	95	95	95	95	95	95	95	95							
d ₁	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3							
d ₁ x n	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4	14x4							
Dp	65	65	65	65	65	65	65	65	65							
g ₁	14	14	14	14	14	14	14	14	14							
L1	95	104	104	110	117	136	141	152	163							
Weight (kg)	4,4	6,2	7	8,8	13,6	18,4	22,2	28,7	37							
Flanges according to PN-EN 1092-1:2006										PN 6						
Dz	80	90	100	120	130	140	160	190	210	For special order						
Do	55	65	75	90	100	110	130	150	170							
dxn	11x4	11x4	11x4	14x4	14x4	14x4	14x4	18x4	18x4							
g	12	14	14	16	16	16	16	18	18							
Flanges according to PN-EN 1092-1:2006														PN 10		
Dz	95	105	115	140	150	165	185	200	220							
Do	65	75	85	100	110	125	145	160	180							
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8							
g	14	16	16	18	18	19	20	20	22							
Flanges according to PN-EN 1092-1:2006														PN 16		
Dz	95	105	115	140	150	165	185	200	220							
Do	65	75	85	100	110	125	145	160	180							
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8							
g	14	16	16	18	18	19	20	20	22							
Flanges according to PN-EN 1092-1:2006														PN 25		
Dz	95	105	115	140	150	165	185	200	235							
Do	65	75	85	100	110	125	145	160	190							
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8							
g	14	16	16	18	18	20	22	24	26							
Flanges according to PN-EN 1092-1:2006										PN 40						
Dz	95	105	115	140	150	165	185	200	235							
Do	65	75	85	100	110	125	145	160	190							
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8							
g	14	16	16	18	18	20	22	24	26							

* - worm gear application recommended

** - only with worm gear

DP-9kC

L – Length of building according to EN 558-1: 1995 series 1

NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6*	8**	10**
DN	15	20	25	32	40	50	65	80	100	125	150	200	250
L	130	150	160	180	200	230	290	310	350	For special order			
D1	15	20	23	27	33	45	54	67	80				
D3	15	20	20	27	33	45	54	67	80				
L/2	65	75	80	90	100	115	145	155	175				
D2	89	89	89	89	89	89	89	89	89				
d2	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3				
d3x n	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4				
Dp	60,3	60,3	60,3	60,3	60,3	60,3	60,3	60,3	60,3				
g2	12	12	12	12	12	12	12	12	12				
L1	95	104	104	110	117	136	141	152	163				
Weight (kg)	4,4	6,2	7	8,8	13,6	18,4	22,2	28,7	37				
Flanges according to PN-EN 1759-1 Class 150										For special order			
Dz	89	98	108	117	127	152	178	190	229				
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5				
dxn	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	19x4	19x4	19x4	19x8				
g	12	14	16	18	19	21	24	26	27				
Flanges according to PN-EN 1759-1 Class 300													
Dz	95	117	124	133	156	165	190	210	254				
Do	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200				
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8	22,2x8	22,2x8	22,2x8				
g	14,3	15,9	17,5	19	20,6	22,2	25,4	28,6	31,8				

* - worm gear application recommended

** - only with worm gear

DP-9gw HEATED THREE-WAY INTERNAL THREADED BALL VALVE DP-9gz HEATED THREE-WAY EXTERNAL THREADED BALL VALVE

acc. to PN-EN with reduced bore

DP-9gwC HEATED THREE-WAY INTERNAL THREADED BALL VALVE DP-9gzC HEATED THREE-WAY EXTERNAL THREADED BALL VALVE

acc. to ANSI with reduced bore

DIAMETER RANGE

from DN 15 to DN100, from NPS 1/2" to NPS 4"

CHARACTERISTIC

Three-way ball valves type DP-9gw, DP-9gz, DP-9gwC and DP-9gzC are cut-off dismantlable valves with reduced bore. Valves DP-9gw and DP-9gz are executed according to PN-EN with thread G, valves DP-9gwC and DP-9gzC are executed according to ANSI with thread NPT. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have seal in three ways. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). Valves have in standard column L=100mm what assures valve insulation and are executed in two versions: with ball type L – ball with two holes at angle 90°, with ball type T – ball with three holes. For heating of valves can be applied among other things water, steam, oils, liquids like Petrygo, Borygo and similar. Valves can be heated: A – on body. Ends of heating jacket can be: PG - threaded, PK - flanged or PP - for welding.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10 C1- PN16, C2-PN25, C3- PN40, CL150 – Class 150, CL300 - Class 300

Temperature:

T1 - from -30°C to +150°C T5 - from -40°C to +150°C T9 - from -50°C to +150°C
T2 - from -30°C to +200°C T6 - from -40°C to +200°C T10 - from -50°C to +200°C
T4 - from -30°C to +250°C T7 - from -40°C to +250°C T11 - from -50°C to +250°C

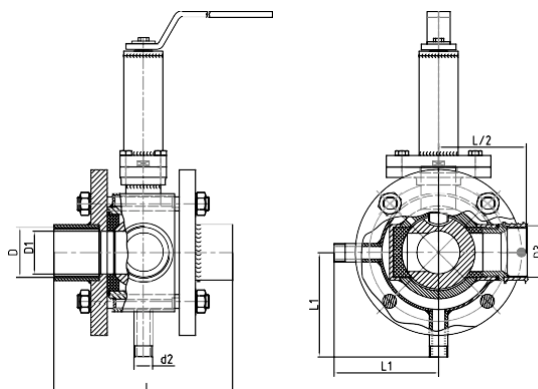
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.431	1.451	1.451	1.0038 or 1.0254			
Ball:	1.431	1.451	1.451	1.4301 or 1.0038+CrNi			
Stem:	1.431	1.451	1.451	1.4301			
Ball seals	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Column	1.4301			1.0038			
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	----- ---	----- ---	----- ---	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils		Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-9gw, DP-9gwC

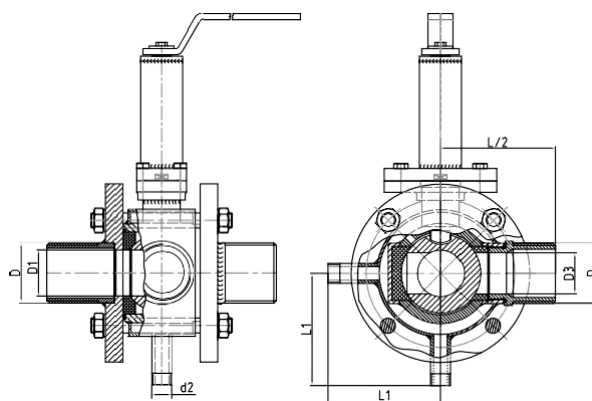
Version APG heated on body, with threaded connection of heating jacket



NPS	1/2	3/4	1	5/4	3/2	2	5/2	3	4
DN	15	20	25	32	40	50	65	80	100
L	115	130	145	170	180	190	For special order		
D - DP-9gw	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2			
D - DP-9gwC	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2			
D1	15	20	23	27	33	45			
D3	15	20	20	27	33	45			
d ₂	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2			
L1	91	100	100	106	113	132			
L/2	57,5	65	72,5	85	90	95			
Weight (kg)	2,4	4	4,8	6,2	7,4	9			

DP-9gz, DP-9gzC

Version APG heated on body, with threaded connection of heating jacket



NPS	1/2	3/4	1	5/4	3/2	2	5/2	3	4
DN	15	20	25	32	40	50	65	80	100
L	115	130	145	170	180	190	For special order		
D - DP-9gw	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2			
D - DP-9gwC	NPT 1/2	NPT 3/4	NPT 1	NPT 5/4	NPT 3/2	NPT 2			
D1	15	20	23	27	33	45			
D3	15	20	20	27	33	45			
d ₂	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2			
L1	91	100	100	106	113	132			
L/2	57,5	65	72,5	85	90	95			
Weight (kg)	2,4	4	4,8	6,2	7,4	9			

DP-9p HEATED THREE-WAY BALL VALVE FOR WELDING

acc. to PN-EN with reduced bore

DIAMETER RANGE

from DN15 to DN250

CHARACTERISTIC

Three-way ball valves type DP-9 are cut-off dismantlable valves with reduced bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have seal in three ways. There is possibility of antistatic execution which protects against static charges (ANTISTATIC). Valves have in standard column L=100mm what assures valve insulation and are executed in two versions: with ball type L – ball with two holes at angle 90°, with ball type T – ball with three holes For heating of valves can be applied among other things water, steam, oils, liquids like Petrygo, Borygo and similar. Valves can be heated: A – on body. Ends of heating jacket can be: PG - threaded, PK - flanged or PP - for welding.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10 **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature:

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

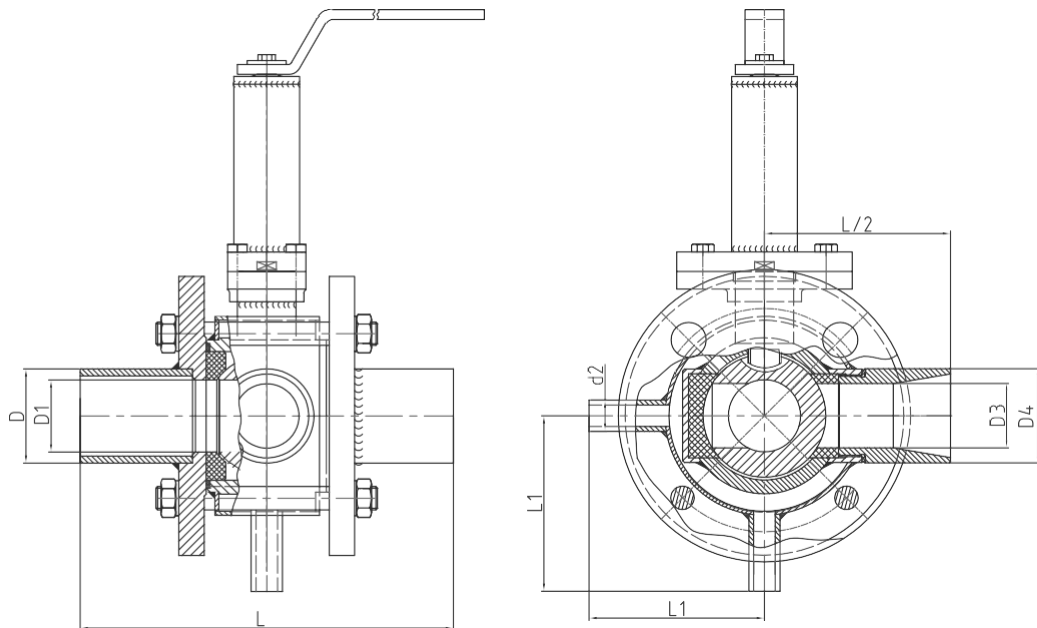
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Column	1.4301			1.0038			
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-9p

Version APP heated on body, with connection of heating jacket for welding



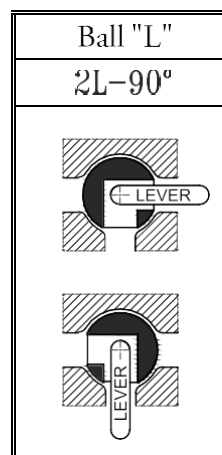
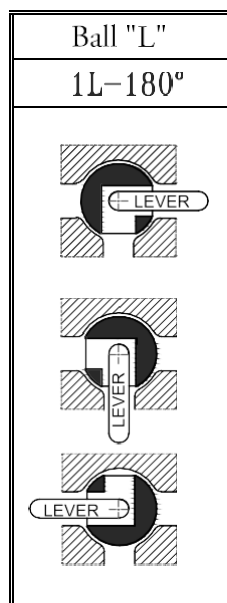
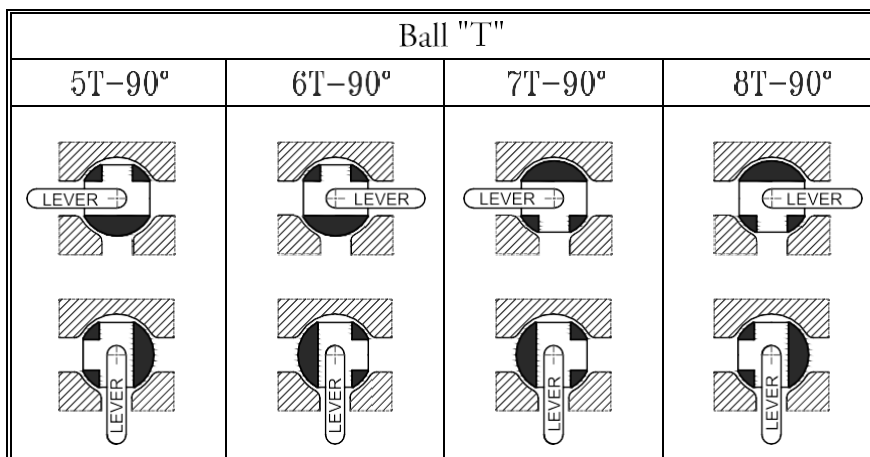
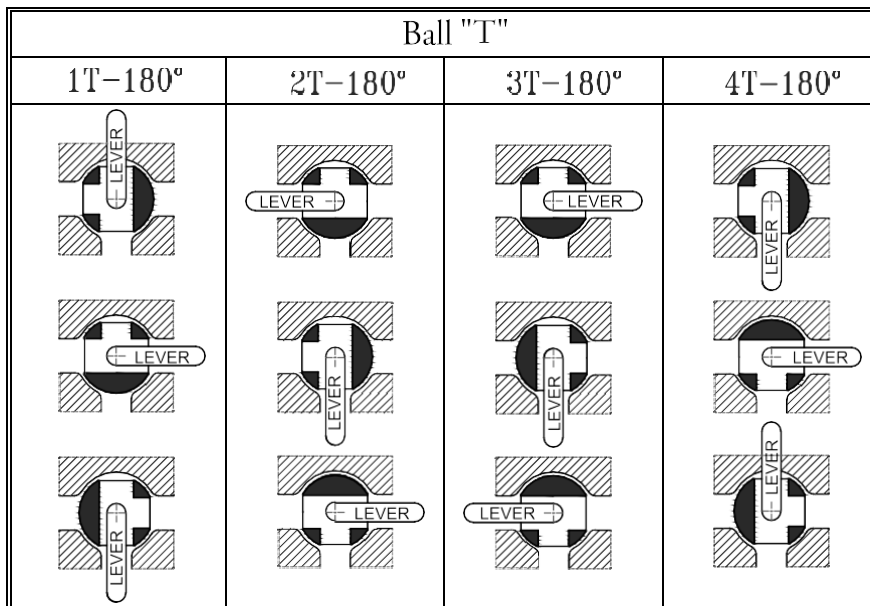
DN	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
L	130	150	160	180	200	230	290	310	350	For special order			
D	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	108				
D1	15	20	23	27	33	45	54	67	80				
D4	26	38	38	48	56	65	73	90	108				
D3	15	20	20	27	33	45	54	67	80				
d ₂	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3				
L1	91	100	100	106	113	132	137	148	159				
L/2	61	71	96,5	101,5	100	110	140	150	167,5				
Weight (kg)	2,4	4	5	6,2	7,4	9	11,5	17,5	31				

* - worm gear application recommended

** - only with worm gear

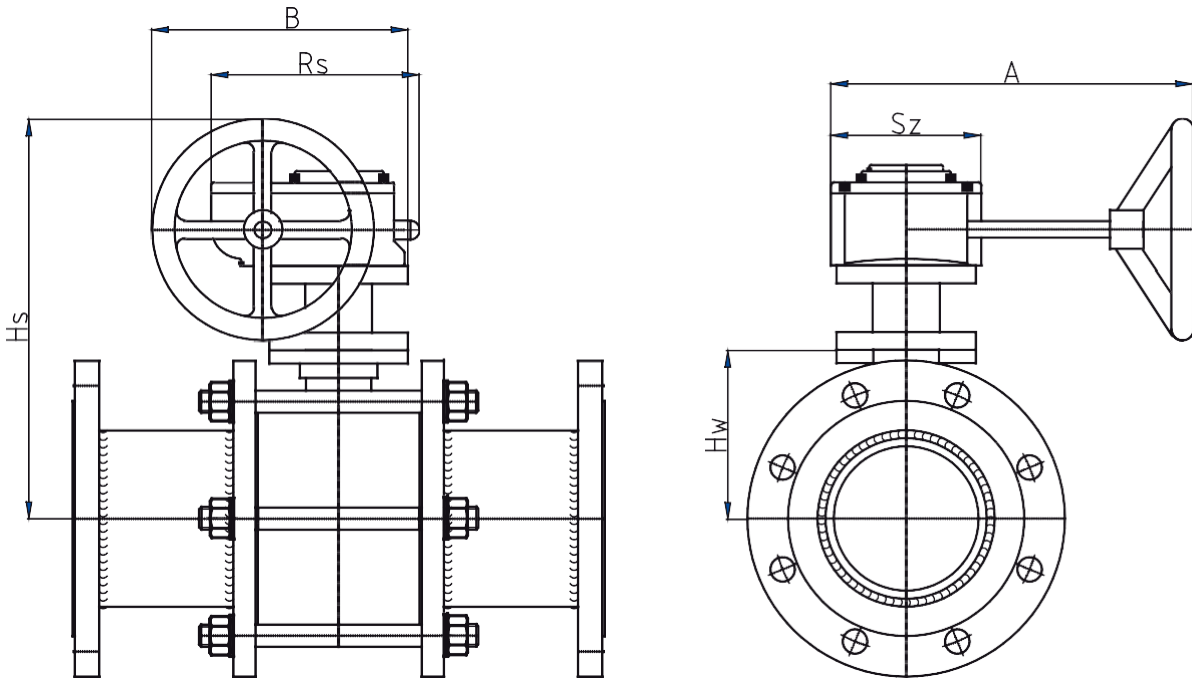
There is available execution in connection version SOCKET WELD according to the customer request

Application versions of balls type „L” and „T” depending of turn angle in valves type DP-5 and DP-9



BALL VALVES WITH WORM GEAR

Worm gear is used for steering of ball valves in which there is required stem turn in range 0-90° or multiple 360°. In case of ball valves with big diameters application of worm gear causes increase of working culture or significantly reduces risk of stem damage. Use of worm gear together with drive applications enables emergency change of steering of pneumatic or electric drive in case of pressure failure of steering medium. It is also important that use of worm gear together with drive applications enables assembling of drives with lower torques, what in result considerably reduces costs connected with particular investment.



Overall and connection dimensions according to catalogue cards

DN	Handle worm gear						Worm gear weight (kg)	Type
	Hs	Hw	Rs	A	B	Sz		
50	263	94	137	254	179	112	4,0	400
65	268	100	137	254	179	112	4,0	400
80	280	110	137	254	179	112	4,0	400
100	332	123	188	326	241	135	8,0	800
125	342	133	188	326	241	135	8,0	800
150	360	152	188	326	241	135	8,0	800
200	494	202	206	366	322	156	13,5	1500
250	520	228	206	366	322	156	13,5	1500

BALL VALVE WITH PNEUMATIC DRIVE

Main advantage of such applications is operating speed and connection simplicity. Offered drives can be double-sided or one-sided working with return spring.

Drive REVO:

High class German pneumatic drives used for starting mostly of fittings elements with set angle 0°-90°, 0°-180° as well as other required set angles. They are as one and double sided drives with torques, by six bar steering pressure, from 6 Nm to 12000 Nm – standard execution, and special executions to 25000 Nm. All REVO drives have ATEX protection what enables to use given drives in explosion endangered zone.

Drive PRISMA:

Spanish quarter torque drives depending on execution can work in different environment, starting from primary series PS, through made from polyamide series PP, stainless steel series PI and PH adjusted for work in temperature to +265°C. Whole range of products have ATEX what enables to use given drives in explosion endangered zone. Depending on execution torque to 4100Nm.

Drives AIR TORQUE:

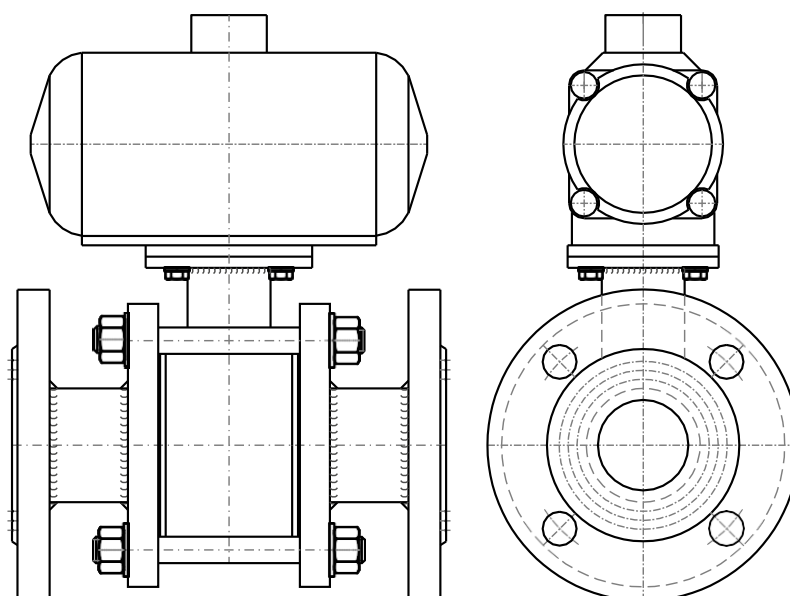
High class quarter torque and full torque drives. Series 3P are three position drives in working range 0-90-180. Drives executed in class HC enable hydraulic control of working speed, series S are made from stainless steel. Whole range of products have ATEX what enables to use given drives in explosion endangered zone. Depending on execution torque to 5400Nm.

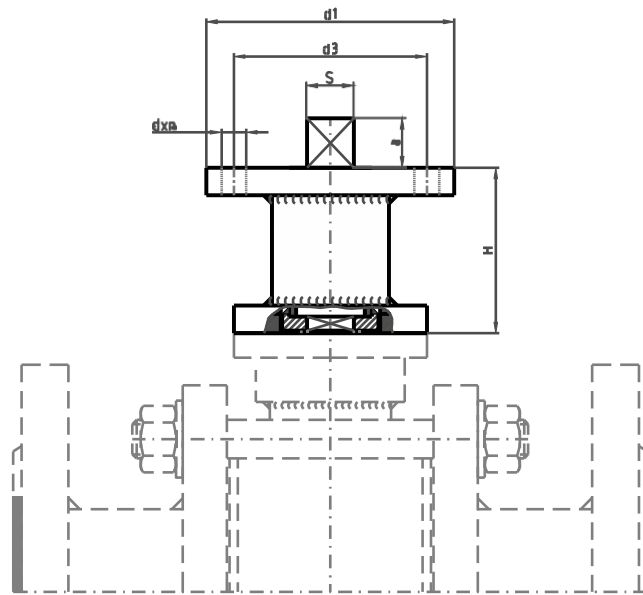
Ball valves with pneumatic drives can be additionally equipped with handle lever for emergency change of steering (to DN 50), and worm gears, which optionally can be used for drive support. Application of gear lets use drive with considerably lower torque.

Drives are selected on basis of a few parameters:

- pressure of supplying air,
- required valve torque,
- kind of flow medium, its temperature and pressure

During equipping of our fitting in automatic systems we use devices of leading market producers. Above are listed most popular sets. Of course, we can equip our valves with other types of drives onto client wish. The only one defining factor is required by particular valve torque.





F – Connection dimensions according to PN-EN ISO 5211

Valve DN	F	d_1	d_3	n x d	S/45° turned	a	H
15	F 05	65	50	4 x M6	14 x 14	16	50
20	F 05	65	50	4 x M6	14 x 14	16	50
25	F 05	65	50	4 x M6	14 x 14	16	50
32	F 05	65	50	4 x M6	14 x 14	16	50
40	F 05	65	50	4 x M6	14 x 14	16	50
50	F 07	90	70	4 x M8	17 x 17	19	60
65	F 07	90	70	4 x M8	17 x 17	19	60
80	F 07	90	70	4 x M8	17 x 17	19	60
100	F 10	125	102	4 x M10	22 x 22	24	80
125	F 10	125	102	4 x M10	22 x 22	24	80
150	F 10	125	102	4 x M10	22 x 22	24	80
200	F 12	150	125	4 x M12	27 x 27	29	100
250	F 12	150	125	4 x M12	27 x 27	29	100

BALL VALVE WITH ELECTRIC DRIVE

Drive PS AUTOMATION

Series PSR and PSQ are primary market executions. They have easy for development main board and exchange-able clutch insert. Depending on version torque to 1000Nm. Series PSQ AMS are intelligent regulation actuators which enables regulation in full range. Drives have built in safety and diagnostic functions and initial set automatic system. Presented drives have ATEX and can be used in EX zone.

Drives MODACT

They are offered depending on particular application requirements in many versions, starting from simple quarter torque drives and ending on multiple torque drives adjusted for work in nuclear power plants. Drives have ATEX and can work in explosion endangered zone, wide range of torques and additional equipment enables given drives usage in many applications.

Drives AUMA

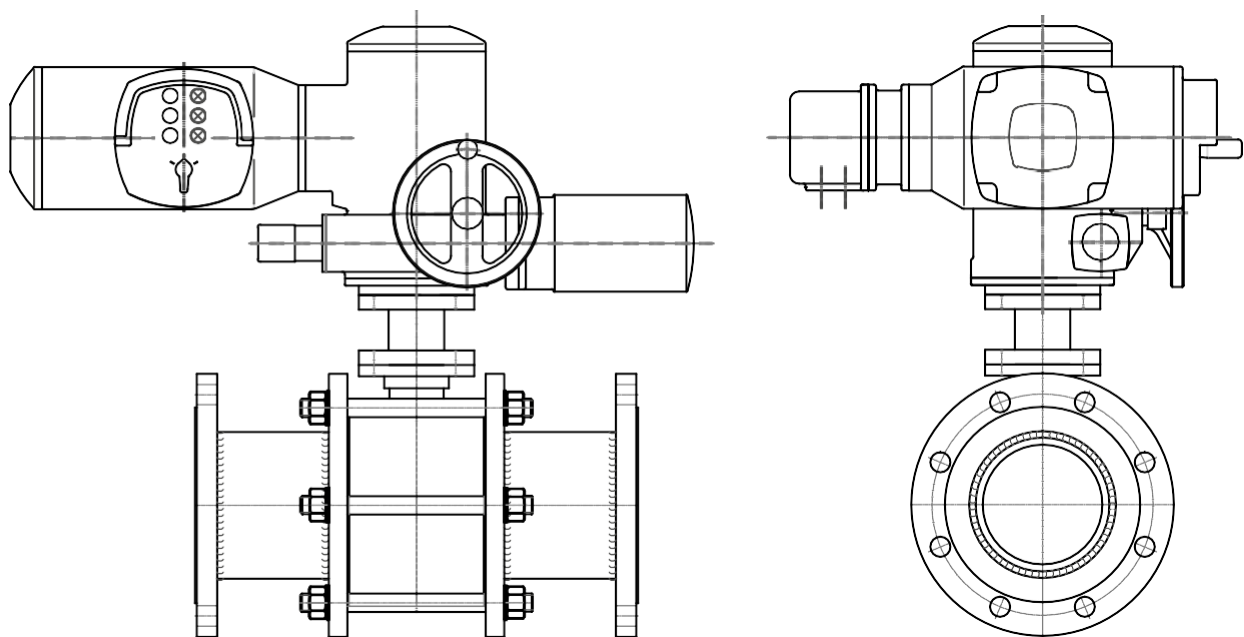
Well known drive with strong position. They are in four primary versions. Each version can work in EX zone and is executed according to IP 67. There is available development of main drive elements e.g. with additional switches etc.. Series SGR and SAR enable full process control via regulation modules.

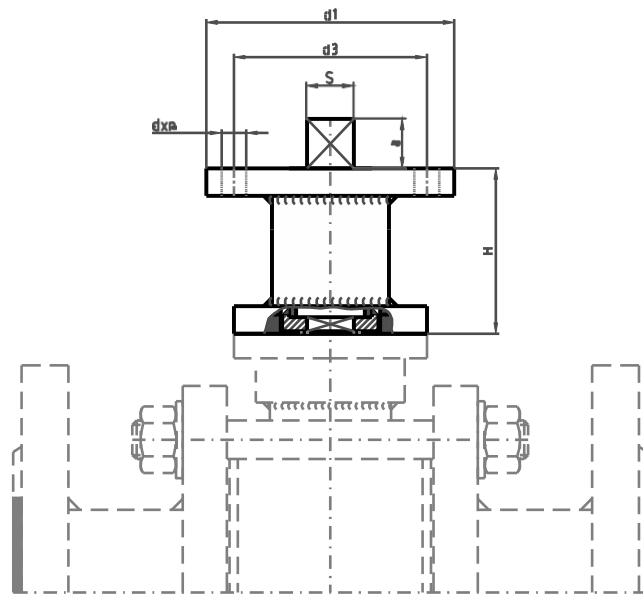
Ball valves with electric drives can be additionally equipped with handle lever for emergency change of steering (to DN 50), and worm gears, which optionally can be used for drive support. Application of gear lets use drive with considerably lower torque.

Drives are selected on basis of a few parameters:

- required valve torque,
- kind of flow medium, its temperature and pressure

During equipping of our fitting in automatic systems we use devices of leading market producers. Above are listed most popular sets. Of course, we can equip our valves with other types of drives onto client wish. The only one defining factor is required by particular valve torque.





F – Connection dimensions according to PN-EN ISO 5211

Valve DN	F	d_1	d_3	n x d	S/45° turned	a	H
15	F 05	65	50	4 x M6	14 x 14	16	50
20	F 05	65	50	4 x M6	14 x 14	16	50
25	F 05	65	50	4 x M6	14 x 14	16	50
32	F 05	65	50	4 x M6	14 x 14	16	50
40	F 05	65	50	4 x M6	14 x 14	16	50
50	F 07	90	70	4 x M8	17 x 17	19	60
65	F 07	90	70	4 x M8	17 x 17	19	60
80	F 07	90	70	4 x M8	17 x 17	19	60
100	F 10	125	102	4 x M10	22 x 22	24	80
125	F 10	125	102	4 x M10	22 x 22	24	80
150	F 10	125	102	4 x M10	22 x 22	24	80
200	F 12	150	125	4 x M12	27 x 27	29	100
250	F 12	150	125	4 x M12	27 x 27	29	100

BALL VALVE WITH LIMIT SIGNAL INDICATOR

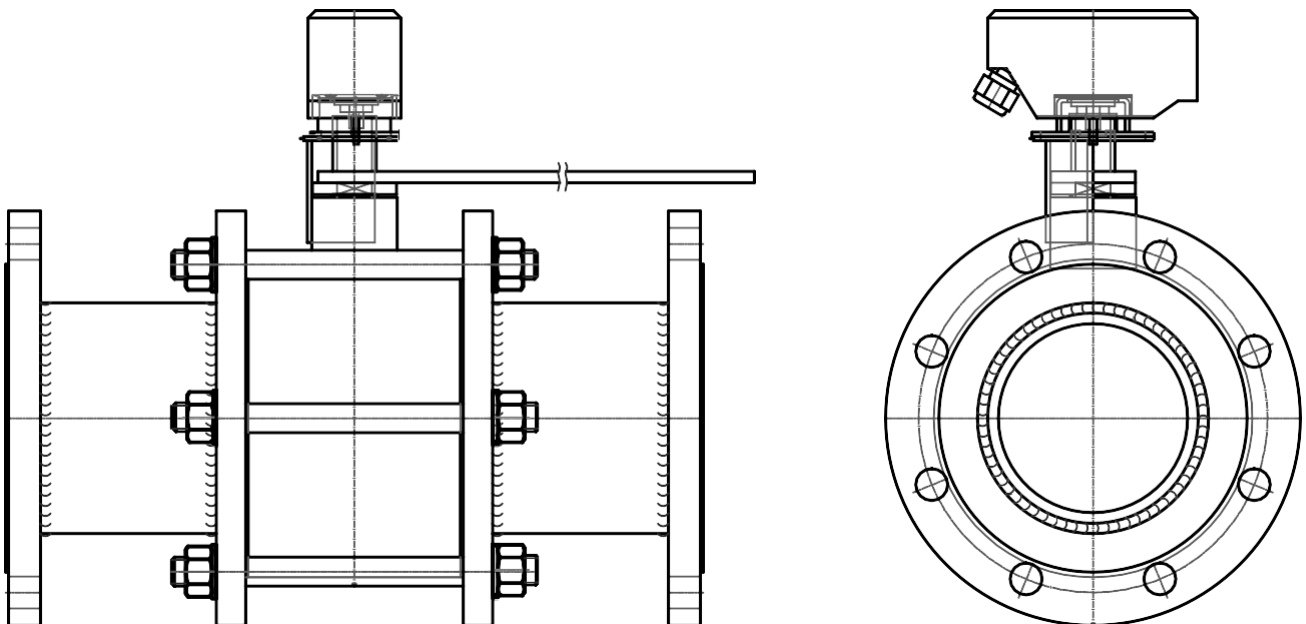
Limit signal indicators 83401 are standard mechanical position indicators used for work in closed rooms without dustiness or moisture.

Limit signal indicators PCR 3 are compact solution in westamid casing in execution IP65. Switch has big signal indicator and membrane which prevents steam condensation. Indicator module mechanical or inductive. Used for work in closed rooms and outdoor beyond EX zone.

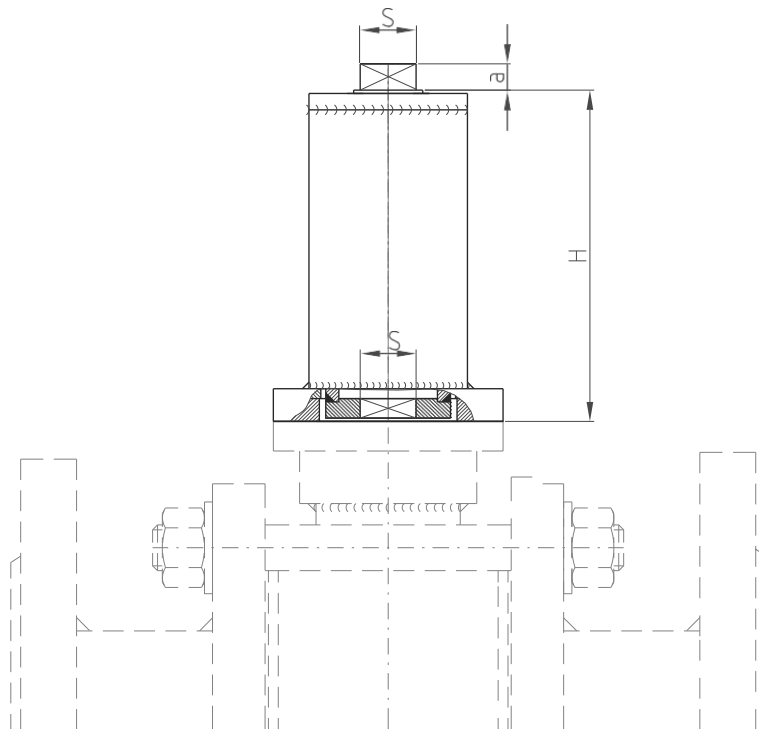
Limit signal indicators TCR 1 are mechanical solution used for work in EX zone. They have modular construction with possibility of direct connection of steering valves. Used for work in closed rooms and outdoor in EX zone.

Limit signal indicators TPF are inductive position indicators used for work in EX zone. They have modular construction with possibility of direct connection of steering valves and spot signaling with LED diodes. Used for work in closed rooms and outdoor in EX zone.

There is available building of other type position indicators according to user preferences.



Assembled on ball valves columns lengthen stem and thanks to this fact enable steering of underground installed fittings or all there where steering from determined height is necessary.



Valve DN	S	a	H standard	TYPE	H minimum	TYPE
15	8 x 8	5	100	KL1 – 100	50	KL1 – 50
20 ¹	8 x 8	5	100	KL1 – 100	50	KL1 – 50
20	10 x 10	5	100	KL2 – 100	50	KL2 – 50
25 ¹	8 x 8	5	100	KL1 – 100	50	KL1 – 50
25	10 x 10	5	100	KL2 – 100	50	KL2 – 50
32	10 x 10	5	100	KL2 – 100	50	KL2 – 50
40	10 x 10	5	100	KL2 – 100	50	KL2 – 50
50 ¹	10 x 10	5	100	KL2 – 100	50	KL2 – 50
50	17 x 17	6	100	KL3 – 100	50	KL3 – 50
65	17 x 17	6	100	KL3 – 100	50	KL3 – 50
80	17 x 17	6	100	KL3 – 100	50	KL3 – 50
100	24 x 24	8	100	KL4 – 100	50	KL4 – 50
125	24 x 24	8	100	KL4 – 100	50	KL4 – 50
150	24 x 24	8	100	KL4 – 100	50	KL4 – 50
200	42 x 42	12	100	KL5 – 100	50	KL5 – 50
250	42 x 42	12	100	KL5 – 100	50	KL5 – 50

¹– applied to following valves: DP-1k, DP-1kC, DP-1gw, DP-1gwC, DP-1gz, DP-1gzC, DP-1p, DP-1w, DP-1a, DP-1b, DP-1sz

Ball valve columns are produced for individual client order. Column height is executed according to client requirements or according to standard.

**DP-1gwS-m MANOMETER INTERNAL THREADED BALL VALVE DP-1gzS-m
MANOMETER EXTERNAL THREADED BALL VALVE**

acc. to PN-EN with full bore

**DP-1gwS-mC MANOMETER INTERNAL THREADED BALL VALVE DP-1gzS-mC
MANOMETER EXTERNAL THREADED BALL VALVE**

acc. to ANSI with full bore

DIAMETER

Execution: m1, m2, m3, m4, m5, m6, m7, m8, m9

CHARACTERISTIC

Ball valves type DP-1gwS-m and DP-1gwS-mC, DP-1gzS-m and DP-1gzS-mC are manometer cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40, **C6**-PN63, **C7**- PN100

CL150 – Class 150, **CL300** - Class 300, **CL600** – Class 600

Temperature:

T1 - from -30°C to +150°C **T5** -
from -40°C to +150°C **T9** -
from -50°C to +150°C

T2 - from -30°C to +200°C **T6** -
from -40°C to +200°C **T10** -
from -50°C to +200°C

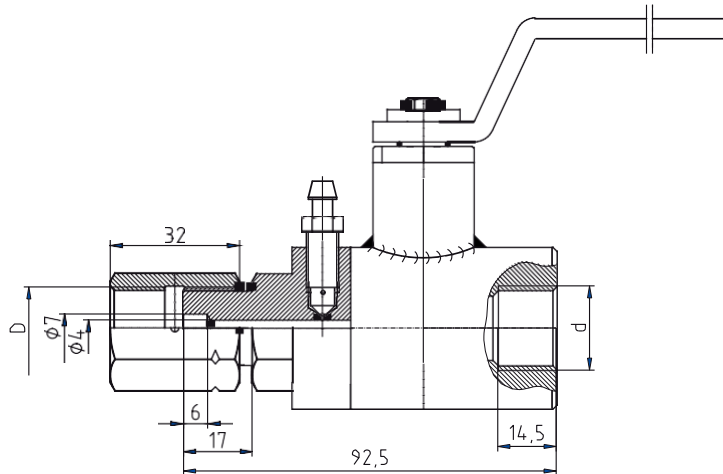
T4 - from -30°C to +250°C **T7** -
from -40°C to +250°C **T11** -
from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

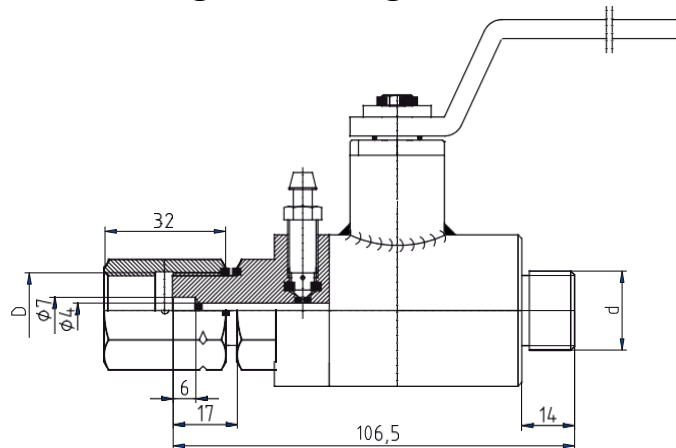
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-1gwS-m, DP-1gwS-mC



Execution	D	d	Weight (kg)
m1	M 20 x 1,5	M 20 x 1,5	0,9
m2	M 20 x 1,5	G 1/2"	0,9
m3	G 1/2"	M 20 x 1,5	0,9
m4	G 1/2"	G 1/2"	0,9
m5	NPT 1/2"	NPT 1/2"	0,9
m6	NPT 1/2"	M20x1,5	0,9
m7	M20x1,5	NPT 1/2"	0,9
m8	NPT 1/2"	G 1/2"	0,9
m9	G 1/2"	NPT 1/2"	0,9

DP-1gzS-m, DP-1gzS-mC



Execution	D	d	Weight (kg)
m1	M 20 x 1,5	M 20 x 1,5	0,9
m2	M 20 x 1,5	G 1/2"	0,9
m3	G 1/2"	M 20 x 1,5	0,9
m4	G 1/2"	G 1/2"	0,9
m5	NPT 1/2"	NPT 1/2"	0,9
m6	NPT 1/2"	M20x1,5	0,9
m7	M20x1,5	NPT 1/2"	0,9
m8	NPT 1/2"	G 1/2"	0,9
m9	G 1/2"	NPT 1/2"	0,9

DP-8g ALUMINIUM THREADED BALL VALVE

DIAMETER RANGE

from DN10 to DN40

CHARACTERISTIC

Ball valves type DP-8g are cut-off dismantlable valves. Aluminium valves are designed for tanks. Valves should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure:

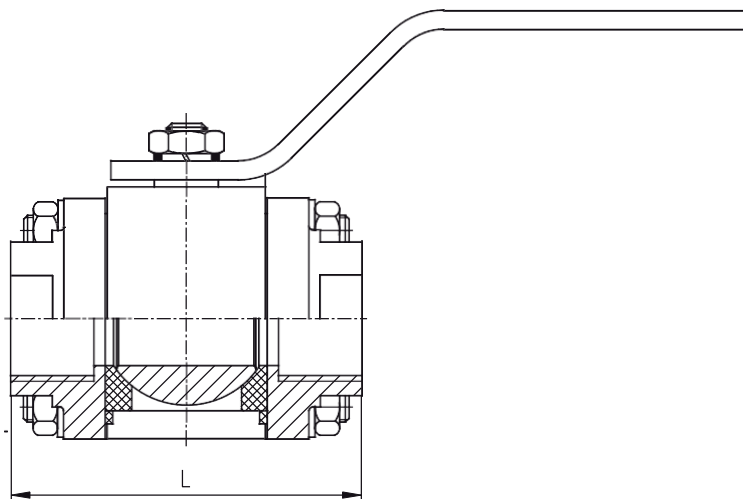
C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25

Temperature:

T1 - from -30°C to +150°C

T3 - from -30°C to +100°C

PART	EXECUTION
	AL
	Material specification
Body:	3.1325 (PA6-aluminium)
Ball:	1.4301 or 1.0038+CrNi
Stem:	1.4301
Connection:	3.1325 (PA6-aluminium)
Ball seals:	PTFE
Stem seals:	PTFE
Handle:	1.0038 zinc plated or 1.4301



DN	10	15	20	25	32	40
L	64	76	84	94	110	122
Weight (kg)	0,4	0,6	0,7	0,9	1,5	1,9

DP-8p BALL VALVE FOR WELDING – ALUMINIUM BODY

DIAMETER RANGE

DN50

CHARACTERISTIC

Ball valvestype DP-8p are cut-off dismantleable valves. Aluminum valves are designed for tanks. Valves should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure:

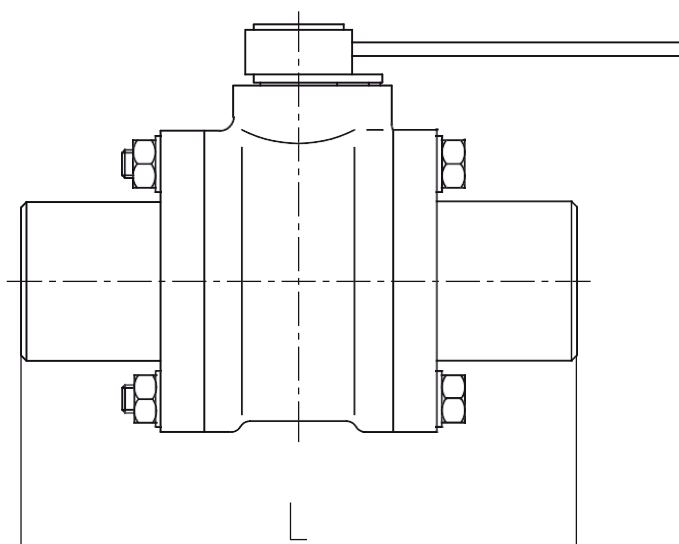
C4-PN6, C5- PN10, C1-PN16, C2-PN25

Temperature:

T1 - from -30°C to +150°C

T3 - from -30°C to +100°C

PART	EXECUTION
	AL
	Material specification
Body:	3.1325 (PA6-aluminium)
Ball:	1.4301 or 1.0038+CrNi
Stem:	1.4301
Connection:	1.0038 zinc plated or 1.4301
Ball seals:	PTFE
Stem seals:	PTFE
Handle:	1.0038 zinc plated or 1.4301



DN	L	Weight (kg)
50	172	6

DP-13 BALL VALVE FOR AUTO TANKS –ALUMINIUM

DIAMETER RANGE

DN80

CHARACTERISTIC

Ball valves type DP-13 are cut-off dismantlable valves. Aluminum valves are designed for tanks. Valves should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure:

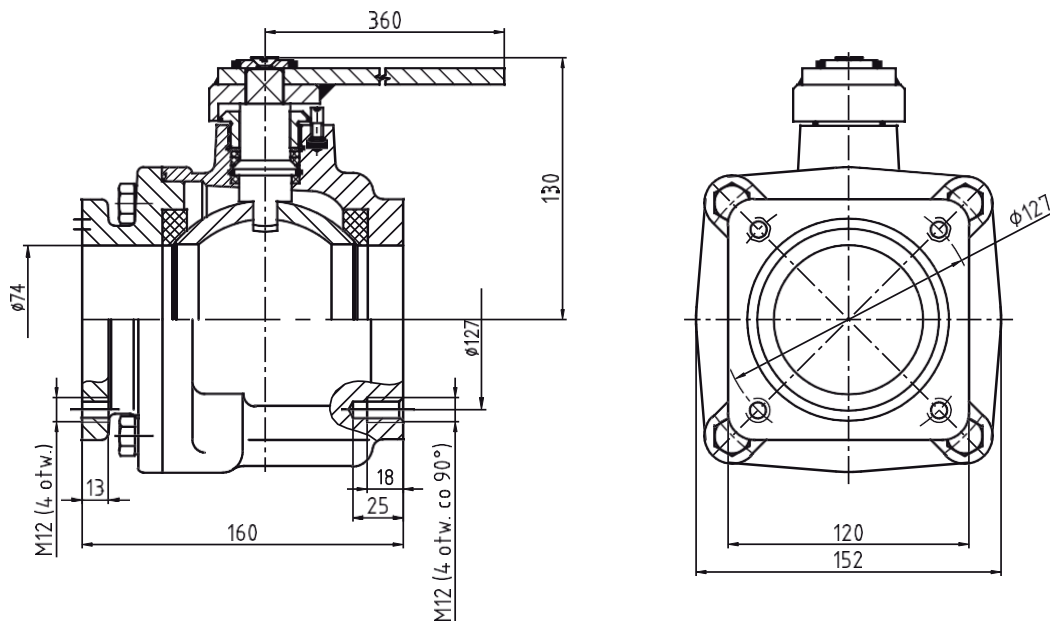
C4-PN6, C5- PN10, C1-PN16

Temperature:

T1 - from -30°C to +150°C

T3 - from -30°C to +100°C

EXECUTION	
PART	AL
	Material specification
Body:	3.1325 (PA6-aluminium)
Ball:	1.4301 or 1.0038+CrNi
Stem:	1.4301
Connection:	3.1325 (PA6-aluminium)
Ball seals:	PTFE
Stem seals:	PTFE
Handle:	1.0038 zinc plated or 1.4301



DN	L	Weight (kg)
80	160	6,3

DP-14a, DP-14b, DP-14c, DP-14d BALL VALVE FOR TANKS

DIAMETER RANGE

DN100

CHARACTERISTIC

Ball valve type DP-14 are cut-off dismantlable valves. Aluminum valves are designed for tanks. Valves should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure: C4-

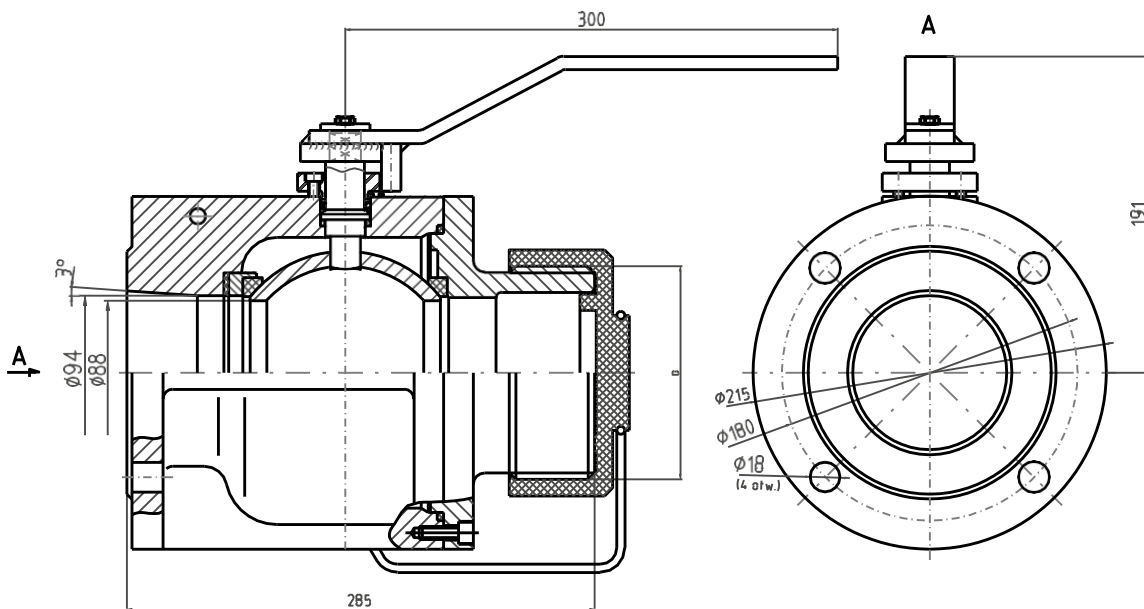
PN6, C5- PN10

Temperature:

T1 - from -30°C to +150°C

T3 - from -30°C to +100°C

PART	EXECUTION
	AL
	Material specification
Body:	3.1325 (PA6-aluminium)
Ball:	1.4301 or 1.0038+CrNi
Stem:	1.4301
Connection:	3.1325 (PA6-aluminium)
Ball seals:	PTFE
Stem seals:	PTFE
Handle:	1.0038 zinc plated or 1.4301



TYPE	D-thread	Weight (kg)
DP14a	M130x6	11,8
DP14b	G 4"	11,8
DP14c	W 4"	11,8
DP14d	W 5 ½"	11,8

DP-14k FLANGED BALL VALVE FOR TANKS

DIAMETER RANGE

DN100

CHARACTERISTIC

Ball valves type DP-14k are cut-off dismantlable valves. Aluminium valves are designed for tanks. Valves should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure: C4-

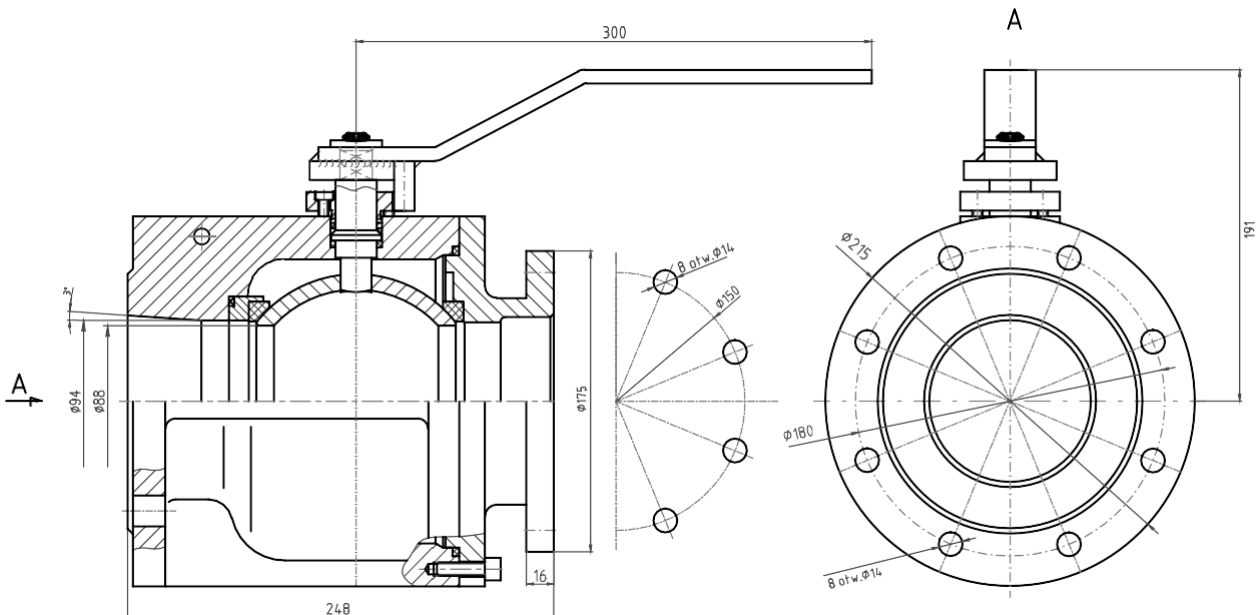
PN6, C5- PN10

Temperature:

T1 - from -30°C to +150°C

T3 - from -30°C to +100°C

PART	EXECUTION
	AL
	Material specification
Body:	3.1325 (PA6-aluminium)
Ball:	1.4301 or 1.0038+CrNi
Stem:	1.4301
Connection:	3.1325 (PA6-aluminium)
Ball seals:	PTFE
Stem seals:	PTFE
Handle:	1.0038 zinc plated or 1.4301



DP-3kgz BALL VALVE FOR RAILWAY TANKS

DIAMETER RANGE

DN100

CHARACTERISTIC

Ball valves type DP-3kgz are cut-off dismantlable valves. Valves are designed for tanks and should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure: C4-

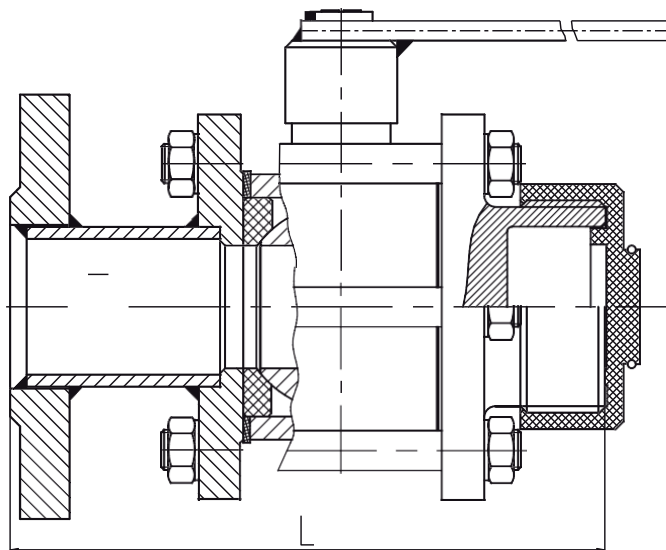
PN6, C5- PN10

Temperature:

T1 - from -30°C to +150°C

T3 - from -30°C to +100°C

PART	EXECUTION			
	K	K1	K2	Z, ZR, ZGZ, ZGP
	Material specification			
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi
Stem:	1.4301	1.4541	1.4571	1.4301
Connection:	1.4301	1.4541	1.4571	1.0038
Cap:	1.4301	1.4541	1.4571	1.0038 zinc plated
Screws:	1.4301	1.4541	1.4571	1.0038
Seals:	PTFE			
Handle:	1.0038			
Anticorrosive protection:	-----		-----	painting coat
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others				



DN	L	Weight (kg)
100	357	30,1

DP-15 ALUMINIUM BALL VALVE FOR RAILWAY TANKS

DIAMETER RANGE

DN125

CHARACTERISTIC

Ball valves type DP-15 are cut-off dismantlable valves. Aluminium valves are designed for tanks. Valves should work only in completely open or completely closed position. Valves have simple construction and can be regenerated.

WORKING PARAMETERS

Nominal pressure: C4-

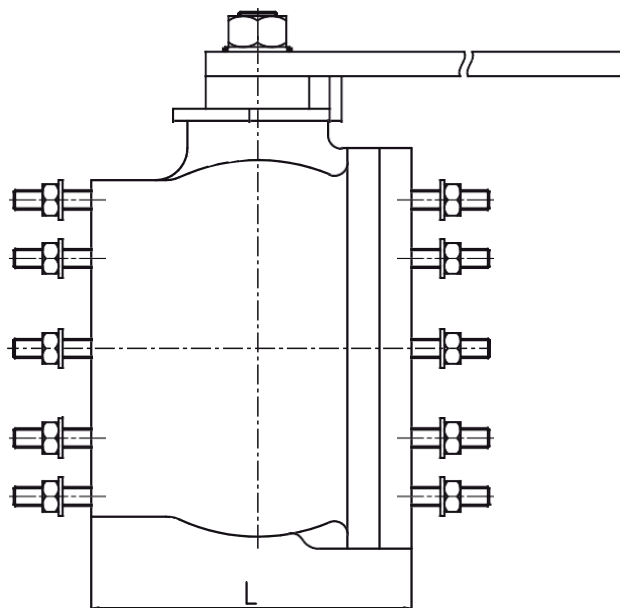
PN6, C5- PN10

Temperature:

T1 - from -30°C to +150°C

T3 - from -30°C to +100°C

PART	EXECUTION
	AL
	Material specification
Body:	3.1325 (PA6-aluminium)
Ball:	1.4301 or 1.0038+CrNi
Stem:	1.4301
Connection:	3.1325 (PA6-aluminium)
Ball seals:	PTFE
Stem seals:	PTFE
Handle:	1.0038 zinc plated or 1.4301



DN	L	Masa (kg)
125	201	18,6

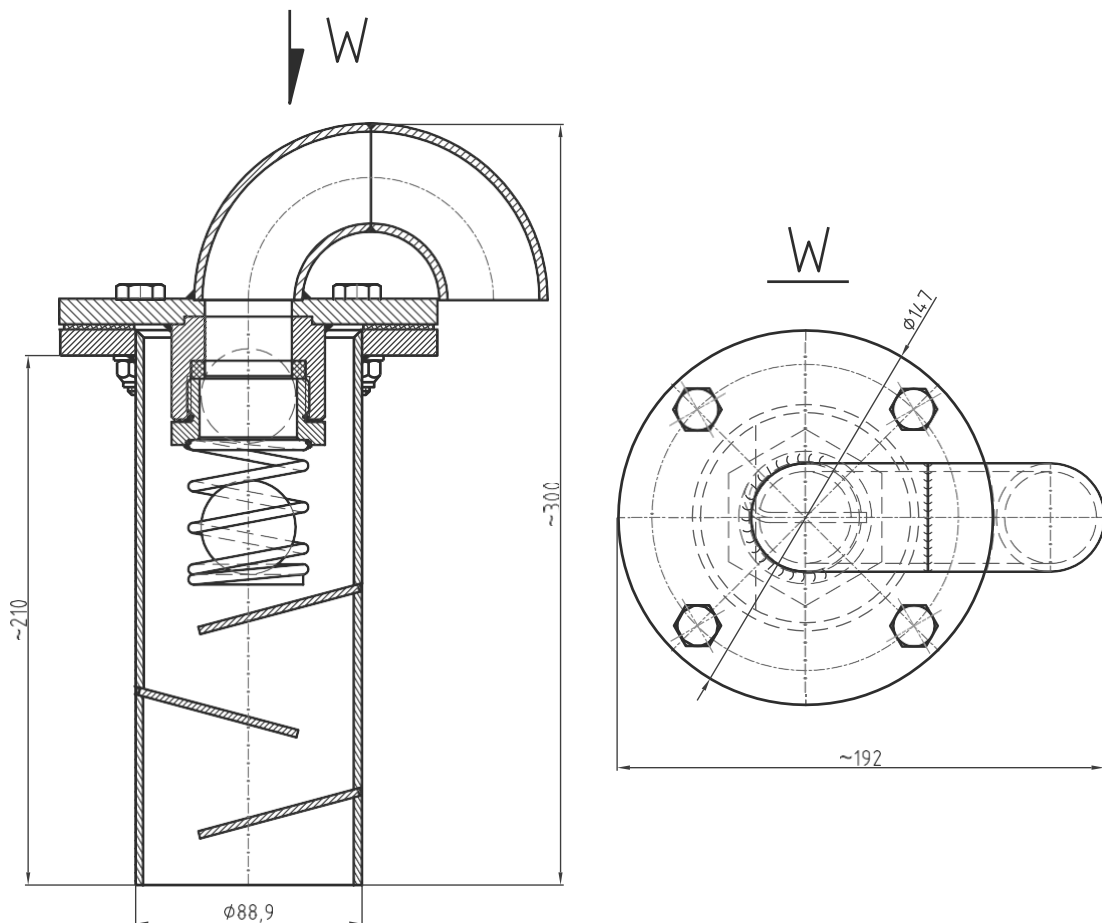
DP-20 VENTILATION VALVE FOR TANKS

WORKING PARAMETERS

Temperature:

T2 - from -30°C to +200°C

PART	EXECUTION		
	K	K1	Z
Body:	1.4301	1.4541	1.0038 or 1.0254
Ball:	1.4301	1.4541	1.4301
Basket :	1.4301	1.4541	1.0038 or 1.0254
Seals:	PTFE		
Anticorrosive protection:	-----	-----	painting coat, zinc plating
Application:	<p>MEDIUM WITH HIGHER TEMPERATURE LIQUID, IGNITABLE I.N.O. with ignition temperature higher than 600C or having temperature equal or higher than own ignition temperature (Class 3, classification code F2, packing group III)</p> <p>MEDIUM WITH HIGHER TEMPERATURE LIQUID, I.N.O. with temperature equal or higher than 1000C and lower than own ignition temperature (includes melted metals, melted salts etc.)(Class 9, classification code M9, packing group III).</p> <p>MEDIUM MELTED SULPHUR (Class 4.1, classification code F3, packing group III).</p>		



DP-2/3k SPECIAL INTERFLANGED BALL VALVE

acc. to PN-EN, ANSI, ASME, DIN with full bore

DIAMETER RANGE

from DN10 to DN250 from
NPS1/2" to NPS10"

CHARACTERISTIC

Ball valves type DP-2/3k are cut-off dismantlable valves. Building length and flanged connections are executed according to dimensions given by client or according to such standards as EN, ASME or DIN. Flanged connections can be executed according to PN-EN, ANSI, ASME, DIN. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. It is recommended to assemble valves DP-2/3k between flanges of pipeline with help of long screws or „pins“. Valves have simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**- PN16, **C2**-PN25, **C3**- PN40

Temperature:

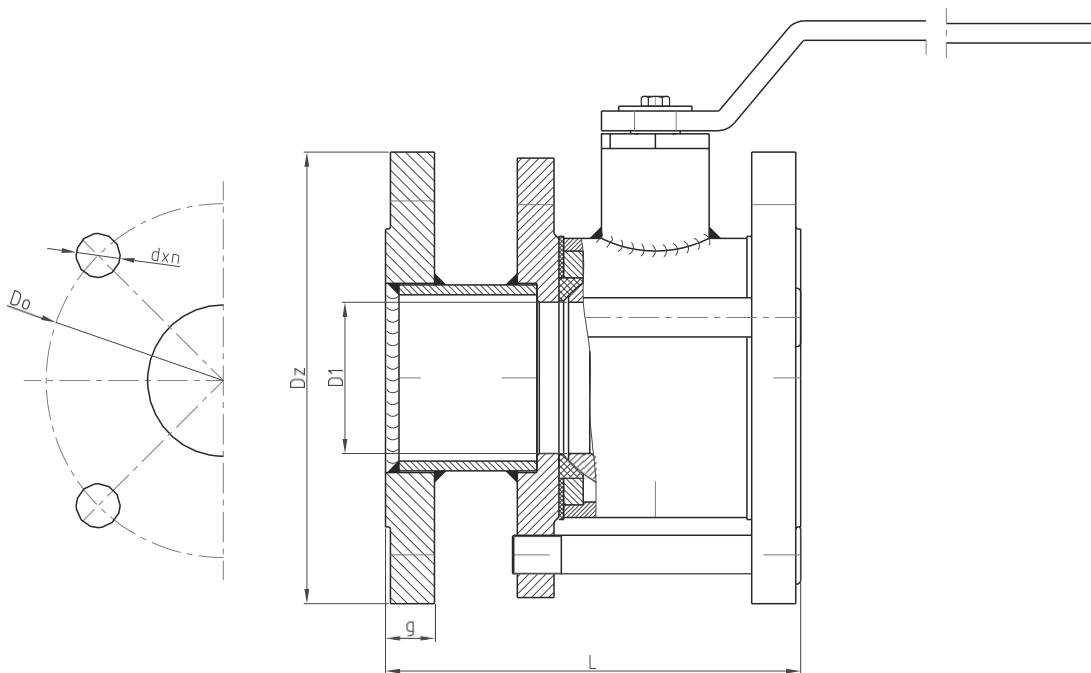
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen			Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-2/3k



DN	10	15	20	25	32	40	50	65	80	100	125	150*	200**	250**
D1	10	15	20	25	32	40	50	62	75	85	105	130	162	200
L	According to given by client lengths													
Dz														
Do														
dxn														
g														

* - worm gear application recommended

** - only with worm gear

DP-1sz FAST CONNECTING BALL VALVE

acc. to PN-EN with reduced bore

DP-3sz FAST CONNECTING BALL VALVE

acc. to PN-EN with full bore

DIAMETER RANGE

from DN15 to DN80

CHARACTERISTIC

Ball valves type DP-1sz and DP-3sz are cut-off valves. Valves DP-1sz have reduced bore and valves DP-3sz have full bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5- PN10, C1-PN16

Temperature:

T1 - from -30°C to +150°C
T5 - from -40°C to +150°C
T9 - from -50°C to +150°C

T2 - from -30°C to +200°C
T6 - from -40°C to +200°C
T10 - from -50°C to +200°C

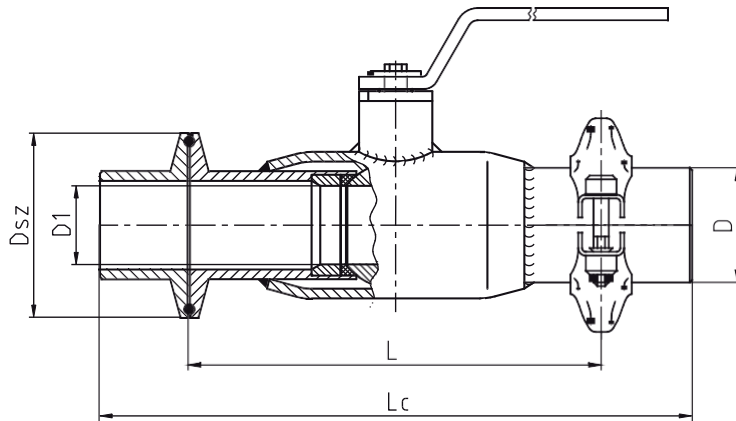
T4 - from -30°C to +250°C
T7 - from -40°C to +250°C
T11 - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

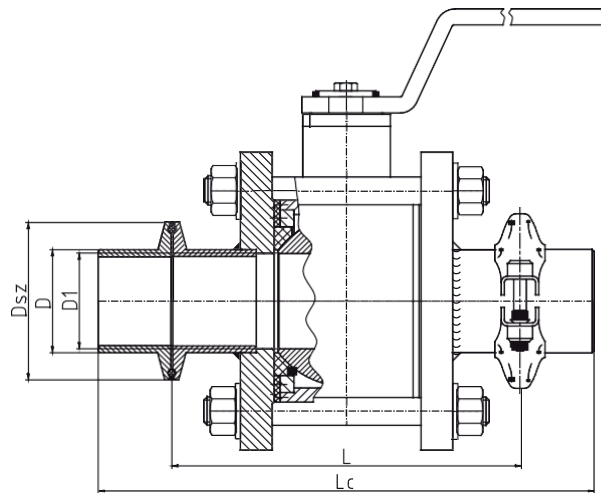
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-1sz



DN	15	20	25	32	40	50	65	80
L	130	150	160	180	200	230	290	310
Lc	170	190	230	220	240	310	370	390
D1	10	15	20	25	32	40	50	62
D	21	27	32	35	48	55	64	78
Dsz	50	50	50	50	64	78	78	92
Weight (kg)	0,7	1	1,5	2	2,6	3,8	6	7,6

DP-3sz



DN	15	20	25	32	40	50	65	80	100
L	110	122	124	140	150	170	180	193	For special order
Lc	150	160	164	180	190	250	260	273	
D1	15	20	25	32	40	50	62	75	
D	21	27	32	35,5	48	55	64	78	
Dsz	50	50	50	50	62	70	78	92	
Weight (kg)	1,1	2,2	2,4	2,9	4,3	7,5	9,9	16,4	

For special order – fast connecting connections in three-way valves DP-5, heated valves DP-10 and three-way heated valves DP-9.

DP-1w DRAIN OFF BALL VALVE WITH OUTLET FOR HOSE

acc. to PN-EN with reduced bore

DIAMETER RANGE

from DN10 to DN50

CHARACTERISTIC

Ball valves type DP-1w are cut-off non-dismantleable valves with reduced bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40

Temperature

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

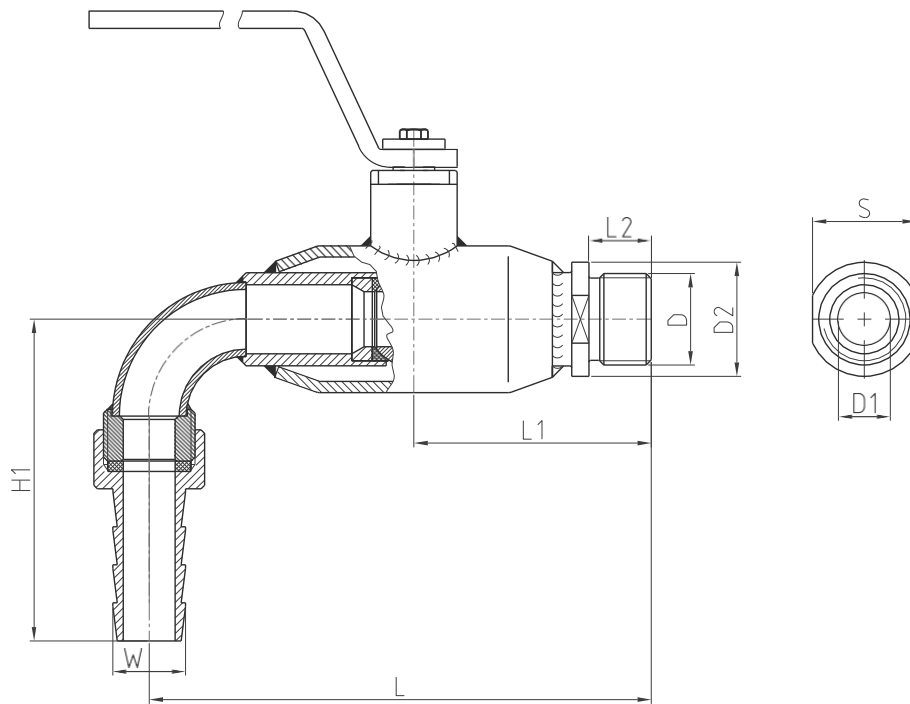
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord or PTFE with GRAPHITE + PTFE cord with GRAPHITE or T7W + PTFE cord with GRAPHITE						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking



DP-1w



DN	10	15	20	25	32	40	50
L	138	138	143	164	223	252	285
L1	63	63	68,5	76	90	100	115
L2	15	15	18	20	20	25	30
H1	90	89	93	110	124	146	169
D	G 1/2	G 1/2	G 3/4	G 1	G 5/4	G 3/2	G 2
D1	10	10	15	20	25	32	40
D2	24	29	33	43	50	60	76
S	22	27	30	41	46	55	70
W	15	18	21	27	34	42	52
Weight (kg)	0,5	0,7	1,0	1,4	2,1	3,3	4,6

DP-1a DRAIN OFF BALL VALVE WITH STRAIGHT OUTLET DP-1b DRAIN OFF BALL VALVE WITH ANGLED OUTLET

acc. to PN-EN with reduced bore

DIAMETER RANGE

from DN10 to DN50

CHARACTERISTIC

Ball valves type DP-1a and DP-1b are cut-off non-dismantleable valves with reduced bore. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40

Temperature:

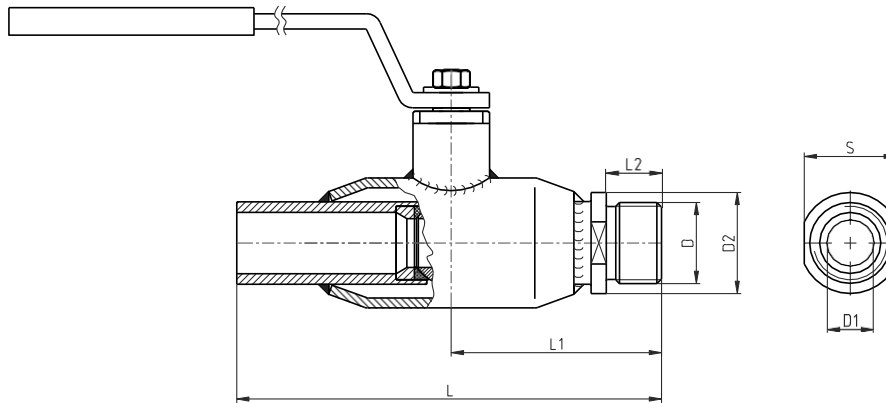
T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, zwierzęce	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others							

Ball valve can be provided with following additional equipment:

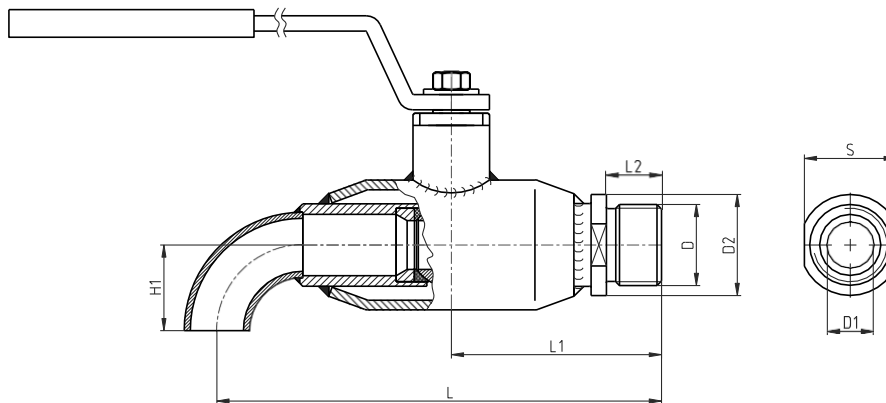
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-1a



DN	10	15	20	25	32	40	50
L	124	124	140	151	175	194	225
L1	63	63	68,5	76	90	100	115
L2	15	15	18	20	20	25	30
D	G 1/2	G 1/2	G 3/4	G1	G 5/4	G3/2	G2
D1	10	10	15	20	25	32	40
D2	24	29	33	43	50	60	76
S	22	27	30	41	46	55	70
Weight (kg)	0,3	0,7	0,8	1,3	1,8	2,5	3,6

DP-1b



DN	10	15	20	25	32	40	50
L	138	138	143	164	223	252	285
L1	63	63	68,5	76	90	100	115
L2	15	15	18	20	20	25	30
H1	28	28	29	38	39	48	71
D	G 1/2	G 1/2	G 3/4	G1	G 5/4	G 3/2	G2
D1	10	10	15	20	25	32	40
D2	24	29	33	43	50	60	76
S	22	27	30	41	46	55	70
Weight (kg)	0,4	0,8	1,0	1,4	1,8	2,6	3,7

- DP-3k/gw** **BALL VALVE FLANGED AND INTERNAL THREADED DP-3k/gz**
BALL VALVE FLANGED AND EXTERNAL THREADED DP-3k/p
BALL VALVE FLANGED AND FOR WELDING
- DP-3gw/gz** **BALL VALVE INTERNAL AND EXTERNAL THREADED**
- DP-3gw/p** **BALL VALVE INTERNAL THREADED AND FOR WELDING DP-3gz/p**
BALL VALVE EXTERNAL THREADED AND FOR WELDING

DIAMETER RANGE

from DN10 to DN250

CHARACTERISTIC

Ball valves type DP-3k/gw, DP-3k/gz, DP-3k/p, DP-3gw/gz, DP-3gw/p, DP-3gz/p are cut-off dismantlable valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40

Temperature:

T1 - from -30°C to +150°C **T5** - **T2** - from -30°C to +200°C **T6** - **T4** - from -30°C to +250°C **T7** -
from -40°C to +150°C **T9** - from -40°C to +200°C **T10** - from -40°C to +250°C **T11** -
from -50°C to +150°C from -50°C to +200°C from -50°C to +250°C

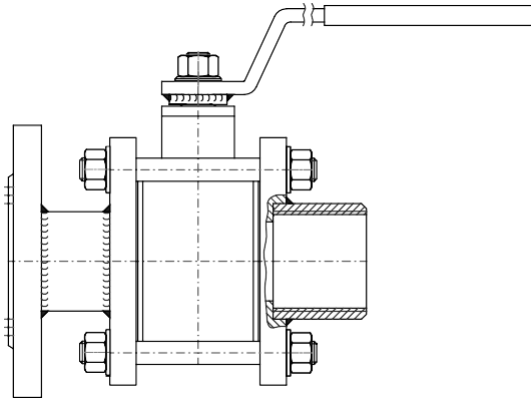
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, zwierzęce	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462(Duplex) and many others.							

Ball valve can be provided with following additional equipment:

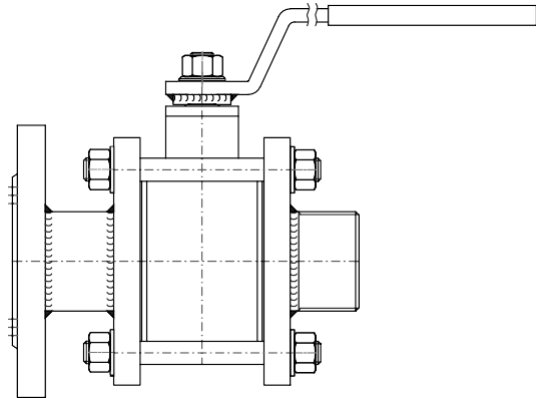
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking



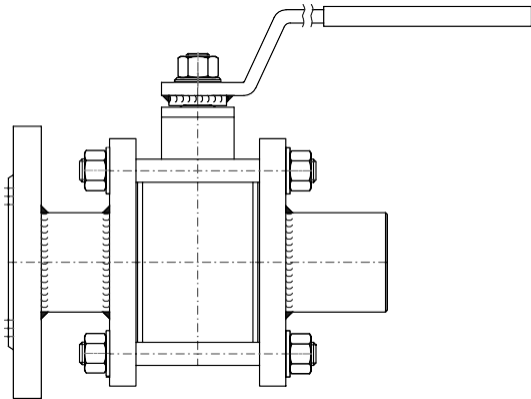
DP-3k/gw



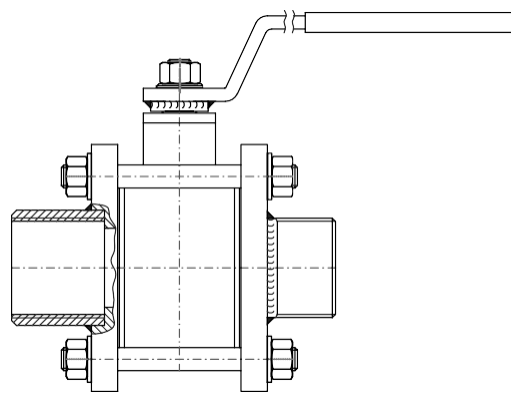
DP-3k/gz



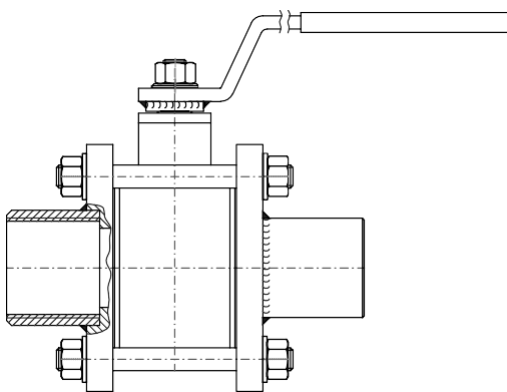
DP-3k/p



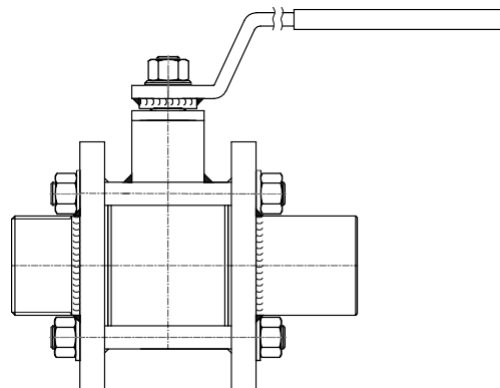
DP-3gw/gz



DP-3gw/p



DP-3gz/p



DP-1k/gw BALL VALVE FLANGED AND INTERNAL THREADED DP-1k/gz
BALL VALVE FLANGED AND EXTERNAL THREADED DP-1k/p
BALL VALVE FLANGED AND FOR WELDING

DP-1gw/gz BALL VALVE INTERNAL AND EXTERNAL THREADED

DP-1gw/p BALL VALVE INTERNAL THREADED AND FOR WELDING DP-1gz/p
BALL VALVE EXTERNAL THREADED AND FOR WELDING

DIAMETER RANGE

from DN10 to DN150

CHARACTERISTIC

Ball valves type DP-1k/gw, DP-1k/gz, DP-1k/p, DP-1gw/gz, DP-1gw/p, DP-1gz/p are cut-off valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5- PN10, C1-PN16, C2-PN25, C3- PN40

Temperature:

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

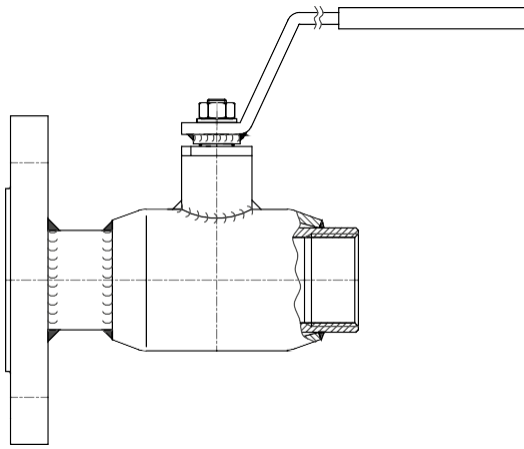
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, zwierzęce	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462(Duplex) and many others.							

Ball valve can be provided with following additional equipment:

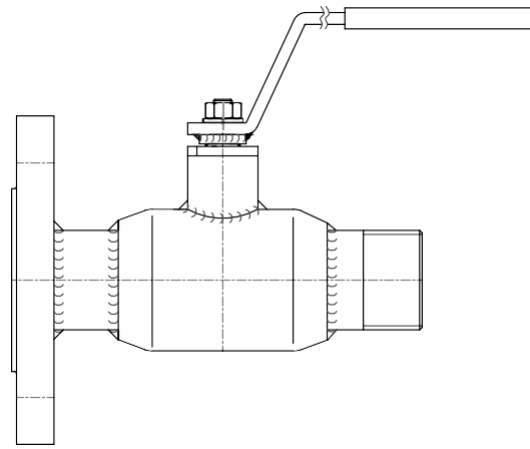
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking



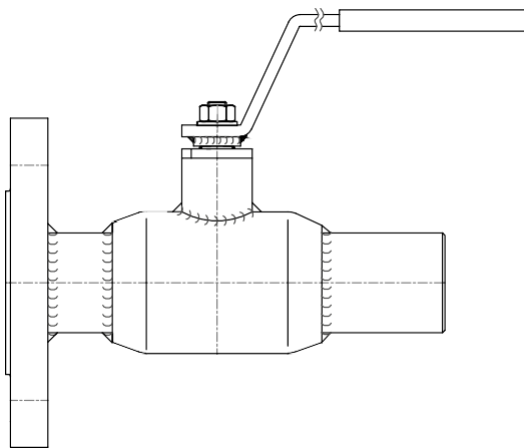
DP-1k/gw



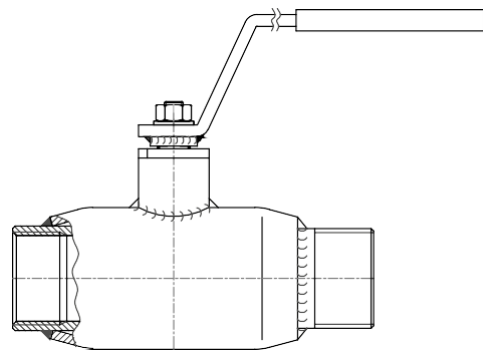
DP-1k/gz



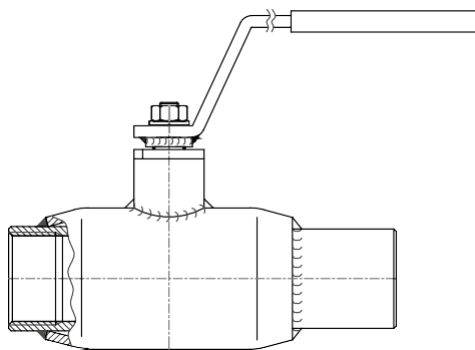
DP-1k/p



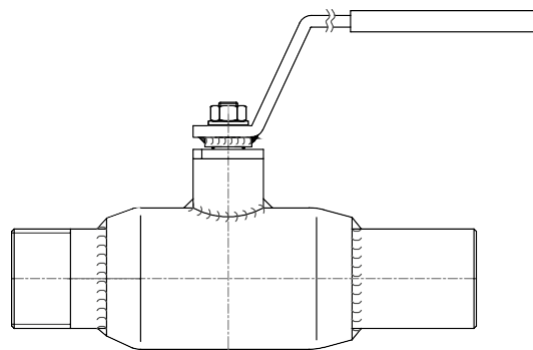
DP-1gw/gz



DP-1gw/p



DP-1gz-p



- DP-1kS/gwS BALL VALVE FLANGED AND INTERNAL THREADED DP-1kS/gzS**
BALL VALVE FLANGED AND EXTERNAL THREADED DP-1kS/pS
BALL VALVE FLANGED AND FOR WELDING
- DP-1gwS/gzS BALL VALVE INTERNAL AND EXTERNAL THREADED**
- DP-1gwS/pS BALL VALVE INTERNAL THREADED AND FOR WELDING DP-1gzS/pS**
BALL VALVE EXTERNAL THREADED AND FOR WELDING

DIAMETER RANGE

from DN6 to DN50

CHARACTERISTIC

Ball valves type DP-1kS/gwS, DP-1kS/gzS, DP-1kS/pS, DP-1gwS/gzS, DP-1gwS/pS, DP-1gzS/pS are cut-off valves. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5- PN10, C1-PN16, C2-PN25, C3- PN40, C6-PN63, C7- PN100

Temperature:

T1 - from -30°C to +150°C T5 - from -40°C to +150°C T9 - from -50°C to +150°C
T2 - from -30°C to +200°C T6 - from -40°C to +200°C T10 - from -50°C to +200°C
T4 - from -30°C to +250°C T7 - from -40°C to +250°C T11 - from -50°C to +250°C

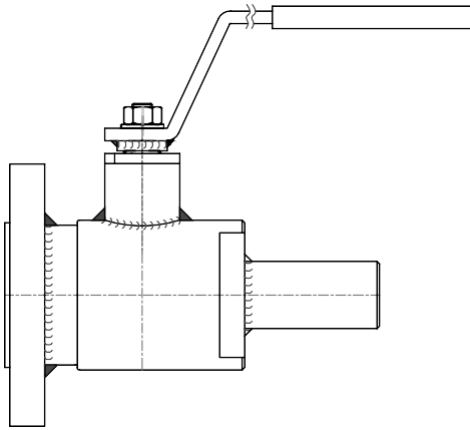
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Ball:	1.4301	1.4541	1.4571	1.4301 or 1.0038+CrNi			
Stem:	1.4301	1.4541	1.4571	1.4301			
Ball seals:	PTFE (PTFE with GRAPHITE, T7W)						
Stem seals:	PTFE + PTFE cord (PTFE with GRAPHITE + PTFE cord with GRAPHITE, T7W + PTFE cord with GRAPHITE)						
Handle:	1.0038 or 1.4301						
Anticorrosive protection:	-----	-----	-----	painting coat or zinc plating			
Application:	Aggressive medium according to resistance table, food medium, oxygen		Cold water, hot water, steam, air, nitrogen, CO2, CO, inert gases, mineral oils, vegetable oils, animal oils,	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas		Propane gas, butane gas, propane-butane gas
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462(Duplex) and many others.							

Ball valve can be provided with following additional equipment:

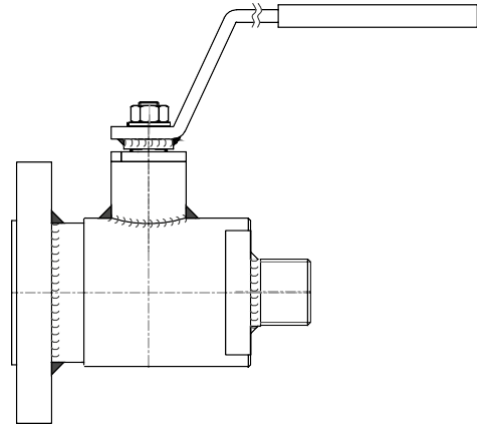
- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking



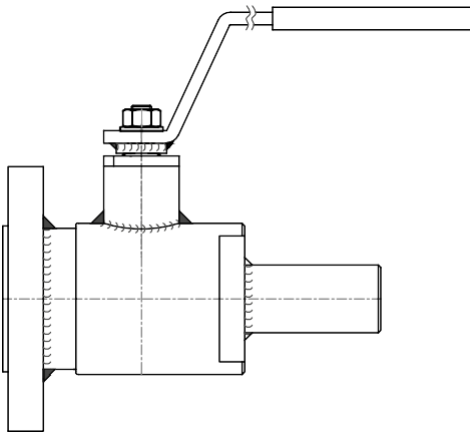
DP-1kS/gwS



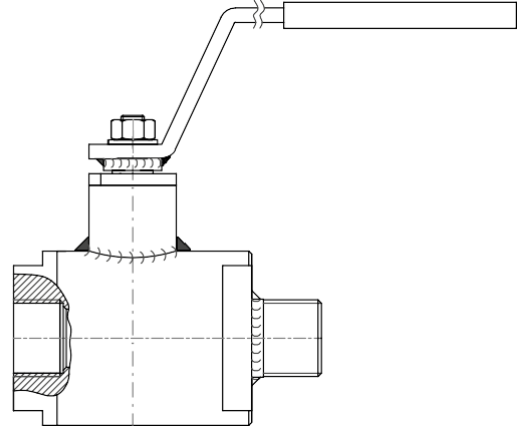
DP-1kS/gzS



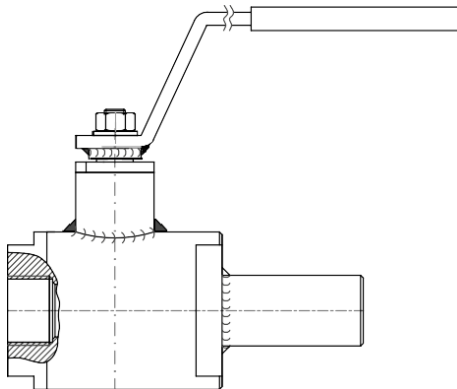
DP-1kS/pS



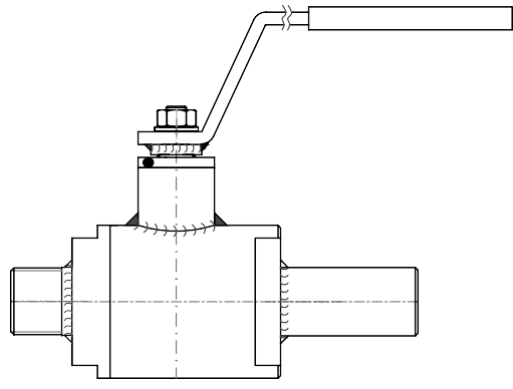
DP-1gwS/gzS



DP-1gwS/pS



DP-1gzS-pS



PZD FLANGED SIGHT VANE

acc. to PN-EN

DIAMETER RANGE

from DN10 to DN200

CHARACTERISTIC

Sight vane with flat glass: welded body with placed facing each other sight- glasses put in sockets sealed with flat seals. Flanges in PZD are executed according to PN-EN 1092-1:2006.

WORKING PARAMETERS

Nominal pressure:

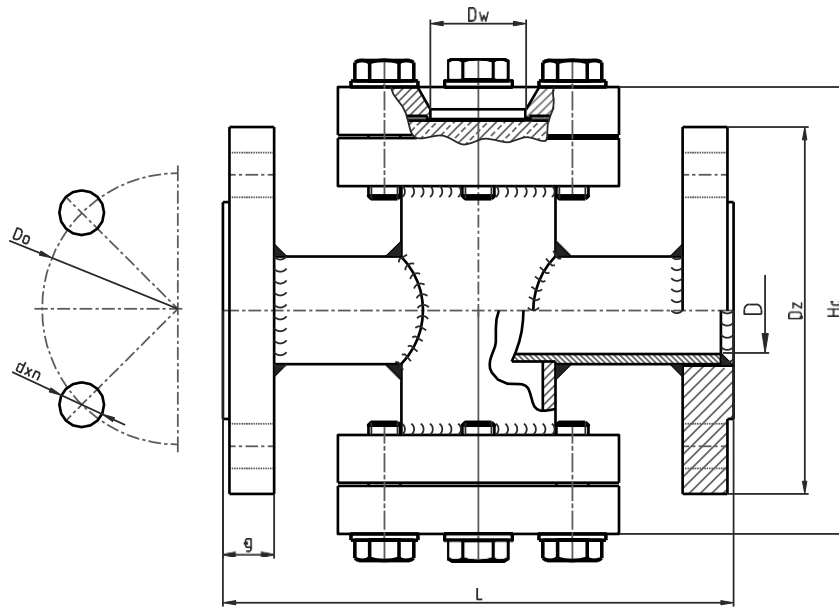
C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40

Temperature:

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Connection:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Sight glass:	Br-Si glass						
Screws:	1.4301	1.4541	1.4571	1.0038 zinc plated			
Seals:	PTFE or AF-OIL						
Anticorrosive protection:	-----	-----	-----	painting coat			
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, zwierzęce	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Onto client wish there is available sight vane execution in following connection versions: for welding, internal threaded and external threaded.



DN	10	15	20	25	32	40	50	65	80	100	125	150	200
L	130	130	150	160	180	200	230	290	310	350	400	480	600
Dw	30	30	50	50	50	80	80	125	125	125	170	170	170
Flanges according to PN-EN 1092-1:2006 PN 6													
Hc	157	157	182	182	182	268	268	342	342	342	424	424	480
Dz	75	80	90	100	120	130	140	160	190	210	240	265	320
Do	50	55	65	75	90	100	110	130	150	170	200	225	280
g	12	12	14	14	16	16	16	16	18	18	20	20	22
dxn	11x4	11x4	11x4	11x4	14x4	14x4	14x4	14x4	18x4	18x4	18x8	18x8	18x8
Flanges according to PN-EN 1092-1:2006 PN 10													
Hc	157	157	182	182	182	268	268	342	342	342	424	424	480
Dz	90	95	105	115	140	150	165	185	200	220	250	285	340
Do	60	65	75	85	100	110	125	145	160	180	210	240	295
g	14	14	16	16	18	18	19	20	20	22	22	24	26
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8	22x12
Flanges according to PN-EN 1092-1:2006 PN 16													
Hc	157	157	182	182	182	268	268	342	342	342	424	424	480
Dz	90	95	105	115	140	150	165	185	200	220	250	285	340
Do	60	65	75	85	100	110	125	145	160	180	210	240	295
g	14	14	16	16	18	18	19	20	20	22	22	24	26
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	18x8	18x8	22x8	22x12
Flanges according to PN-EN 1092-1:2006 PN 25													
Hc	157	157	186	186	192	278	278	352	352	352	444	444	500
Dz	90	95	105	115	140	150	165	185	200	235	270	300	360
Do	60	65	75	85	100	110	125	145	160	190	220	250	310
g	14	14	16	16	18	18	20	22	24	26	28	30	32
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8	26x12
Flanges according to PN-EN 1092-1:2006 PN 40													
Hc	161	161	192	192	192	288	288	362	362	362	464	464	520
Dz	90	95	105	115	140	150	165	185	200	235	270	300	375
Do	60	65	75	85	100	110	125	145	160	190	220	250	320
g	14	14	16	16	18	18	20	22	24	26	28	30	36
dxn	14x4	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8	30x12

PZDC FLANGED SIGHT VANE

acc. to ANSI

DIAMETER RANGE

from NPS1/2" to NPS 8"

CHARACTERISTIC

Sight vane with flat glass: welded body with placed facing each other sight- glasses put in sockets sealed with flat seals. Flanged connections are executed according to ANSI CLASS and according to PN-EN 1759-1.

WORKING PARAMETERS

Nominal pressure:

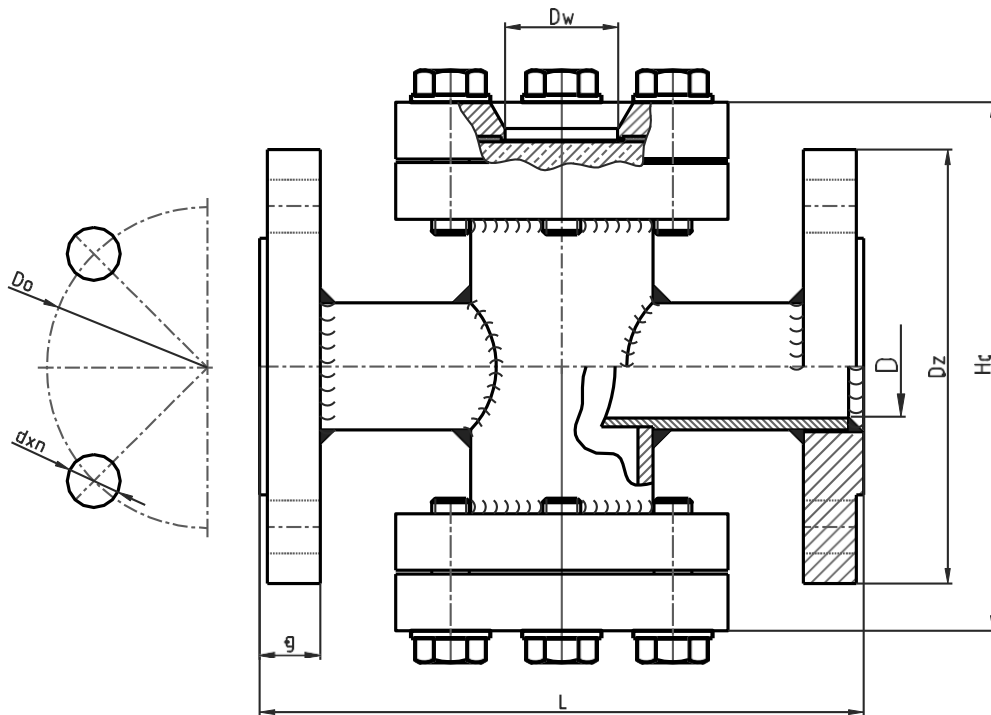
CL150 – class 150, **CL300** - class 300

Temperature:

T1 - from -30°C to +150°C **T5** - from -40°C to +150°C **T9** - from -50°C to +150°C
T2 - from -30°C to +200°C **T6** - from -40°C to +200°C **T10** - from -50°C to +200°C
T4 - from -30°C to +250°C **T7** - from -40°C to +250°C **T11** - from -50°C to +250°C

PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Connection:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Sight glass:	Br-Si glass						
Screws:	1.4301	1.4541	1.4571	1.0038 zinc plated			
Seals:	PTFE or AF-OIL						
Anticorrosive protection:	-----	-----	-----	painting coat			
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, zwierzęce	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy), 1.4462 (Duplex) and many others.							

Onto client wish there is available sight vane execution in following connection versions: for welding, internal threaded and external threaded.



NPS	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
DN	15	20	25	32	40	50	65	80	100	125	150	200
L	130	150	160	180	200	230	290	310	350	400	480	600
Dw	30	50	50	50	80	80	125	125	125	170	170	170
Flanges according to PN-EN 1759-1 Class 150												
Hc	157	182	182	182	268	268	342	342	342	424	424	480
Dz	89	98	108	117	127	152	178	190	229	254	279	343
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	215,9	241,3	298,4
g	12	14	16	18	19	21	24	26	27	28	31	34
dxn	15,9x4	15,9x4	15,9x4	15,9x4	15,9x4	19x4	19x4	19x4	19x8	22,2x8	22,2x8	22,2x8
Flanges according to PN-EN 1759-1 Class 300												
Hc	157	186	186	192	278	278	352	352	352	444	444	500
Dz	95	117	124	133	156	165	190	210	254	279	318	381
Do	66,7	82,6	88,9	98,4	114,3	127	149,2	168,3	200	235	269,9	330,2
g	14,3	15,9	17,5	19	20,6	22,2	25,4	28,6	31,8	34,9	36,5	41,3
dxn	15,9x4	19x4	19x4	19x4	22,2x4	19x8	22,2x8	22,2x8	22,2x8	22,2x8	22,2x12	25,4x12

WZR SIGHT GLASS WITH PIPE WZP FLAT SIGHT GLASS

acc. to PN-EN

DIAMETER RANGE

from Dw30 to Dw170

CHARACTERISTIC

Sight glasses with flat glass are executed in two versions flat and with pipe. Glass is seated in sockets and sealed with flat seals. Sight glasses with pipes are assembled by making inlet in pipelines, tanks etc. and welding pipe of sight glass. Flat sight glasses are assembled by welding of bottom flange.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**- PN10, **C1**-PN16, **C2**-PN25, **C3**- PN40

Temperature:

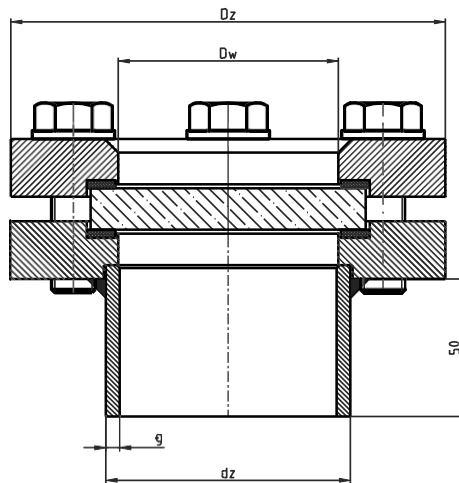
T1 - from -30°C to +150°C **T5** -
from -40°C to +150°C **T9** -
from -50°C to +150°C

T2 - from -30°C to +200°C **T6** -
from -40°C to +200°C **T10** -
from -50°C to +200°C

T4 - from -30°C to +250°C **T7** -
from -40°C to +250°C **T11** -
from -50°C to +250°C

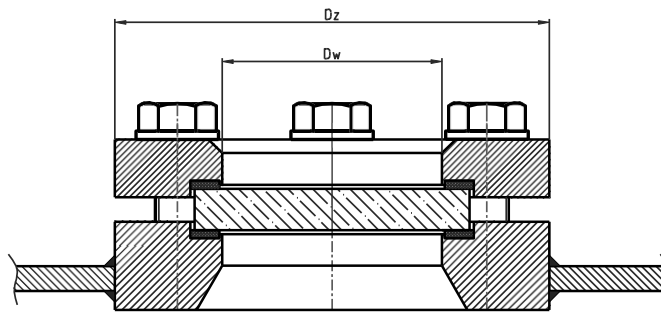
PART	EXECUTION						
	K	K1	K2	Z	ZR	ZGZ	ZGP
	Material specification						
Body:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Connection:	1.4301	1.4541	1.4571	1.0038 or 1.0254			
Sight glass:	Br-Si glass						
Screws:	1.4301	1.4541	1.4571	1.0038 zinc plated			
Seals:	PTFE or AF-OIL						
Anticorrosive protection:	-----	-----	-----	painting coat			
Application:	Aggressive medium according to resistance table		Cold water, hot water, steam, air, nitrogen, CO ₂ , CO, inert gases, mineral oils, vegetable oils, animal oils, zwierzęce	Petrol, kerosene, diesel oil, fuel oil, aircraft fuel, petroleum, machine oils, hydraulic oils, engine oils, transformer oils	Natural gas, mine gas, blast-furnace gas	Propane gas, butane gas, propane-butane gas	
There are available following material executions for special order: 1.0562 (P355), 1.4539(904L), 1.4404(316L), 1.4931(Uranus), 2.4602 (C22 Hastelloy),1.4462 (Duplex) and many others.							

Onto client wish there is available sight glass execution in following connection versions: flanged and internal threaded or external threaded.



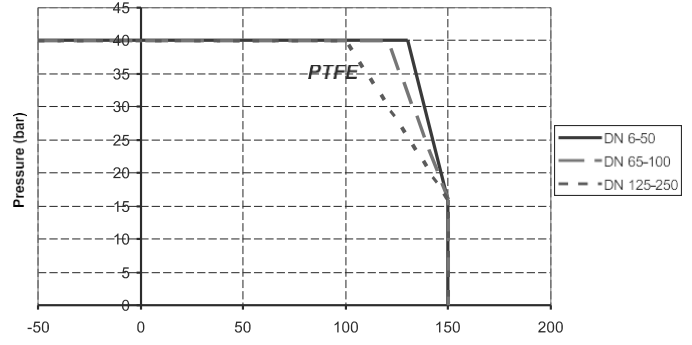
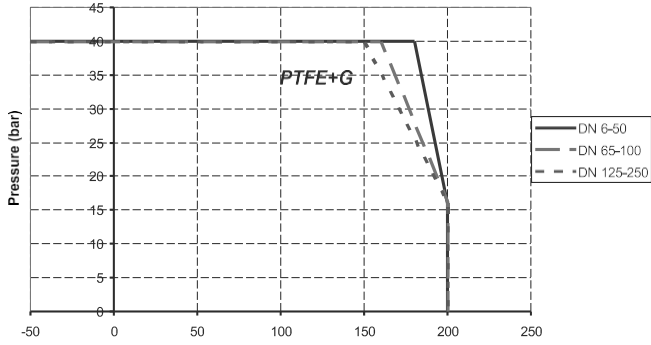
Dw	30	50	80	125	170
Dz	88	108	158	210	290
dz	48,3	57,0	88,9	133,0	219,1
g	4	4	5	5,6	8

WZP



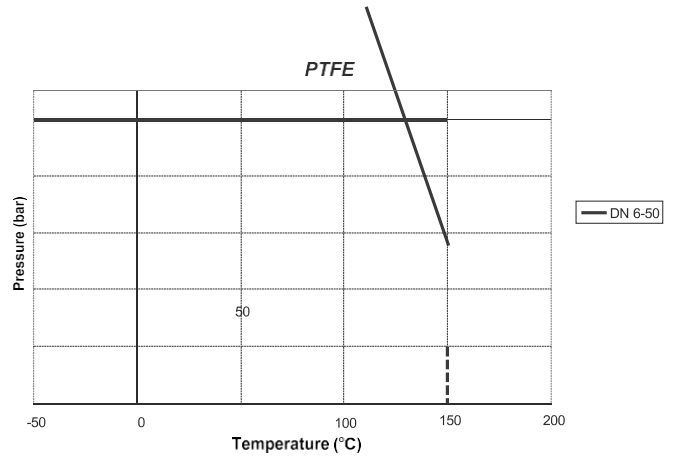
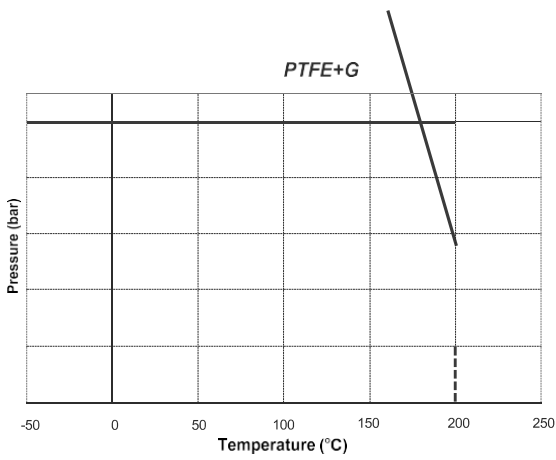
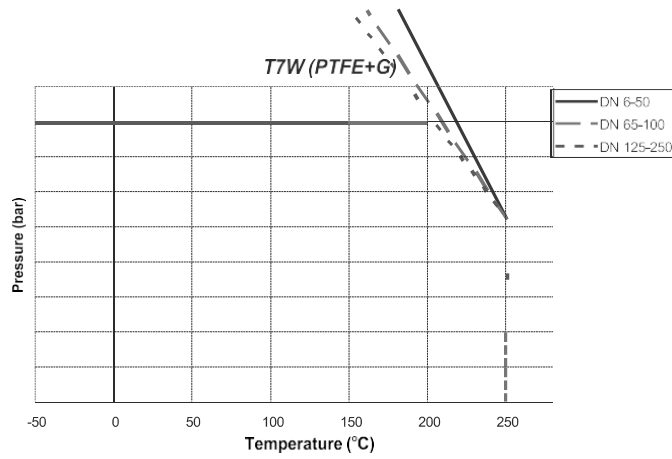
Dw	30	50	80	125	170
Dz	88	108	158	210	290

DIAGRAMS OF TEMPERATURE AND PRESSURE RELATION

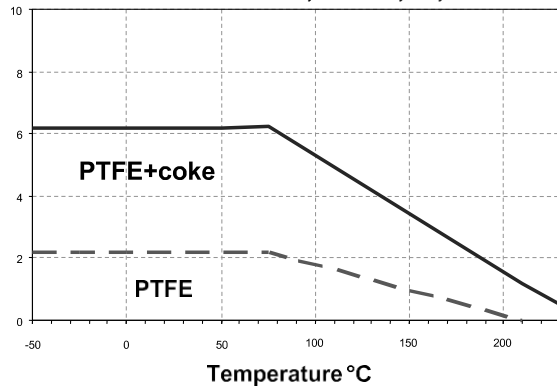


Temperature (°C)

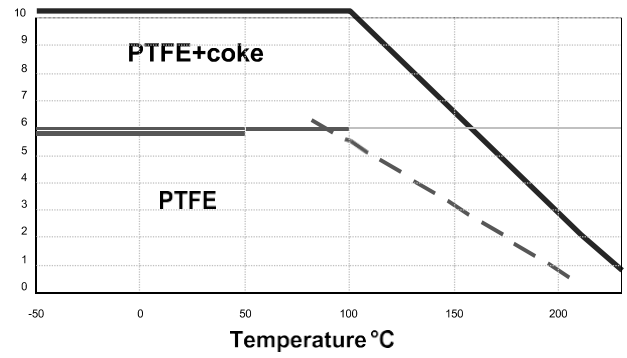
Temperature (°C)



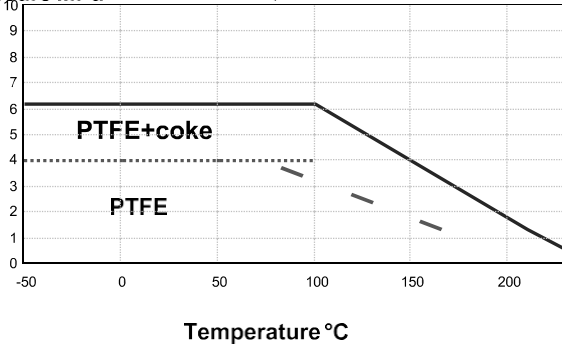
Pressure MPa **DN 125-250, PN 16,40,63**



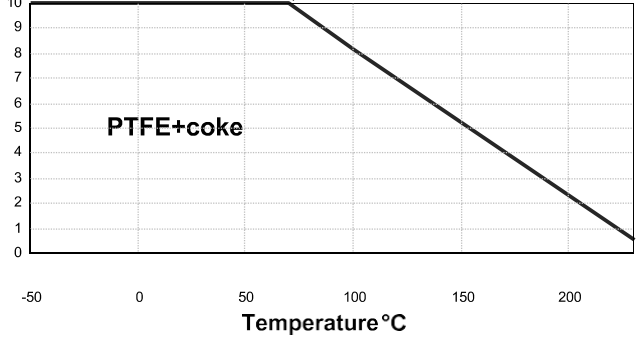
Pressure MPa **DN 10-50, PN 16,40,63,100**



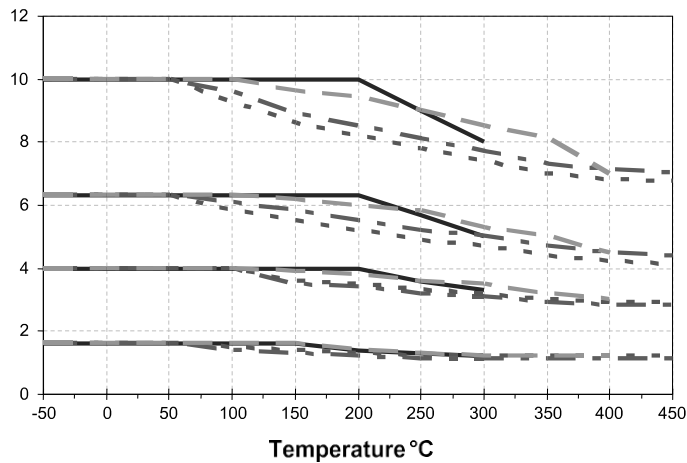
Pressure MPa **DN 65-100, PN 16,40,63**



Pressure MPa **DN 65-150, PN100**



Pressure MPa **Ball valve DP400**



DP-303k FLANGED BALL VALVE LINED FEP, PFA

acc. to PN-EN, DN15÷DN80 with full bore, DN100 with reduced bore

DIAMETER RANGE

from DN15 to DN100

CHARACTERISTIC

Ball valves type DP-303k are cut-off dismantlable valves. In diameter range DN15÷DN80 valves have full bore and in diameter DN100 valves have reduced bore. Flanged connections are executed according to PN-EN 1092-1:2006. Ball valves are lined with FEP or PFA. Moreover, in case of increased wear and frictions, instead of PTFE it can be used ceramic ball, what automatically increases resistance of valve to wear and improves its mechanical properties. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1-PN16

Temperature:

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T21 - from -20°C to +250°C

T1 - from -30°C to +150°C

T2 - from -30°C to +200°C

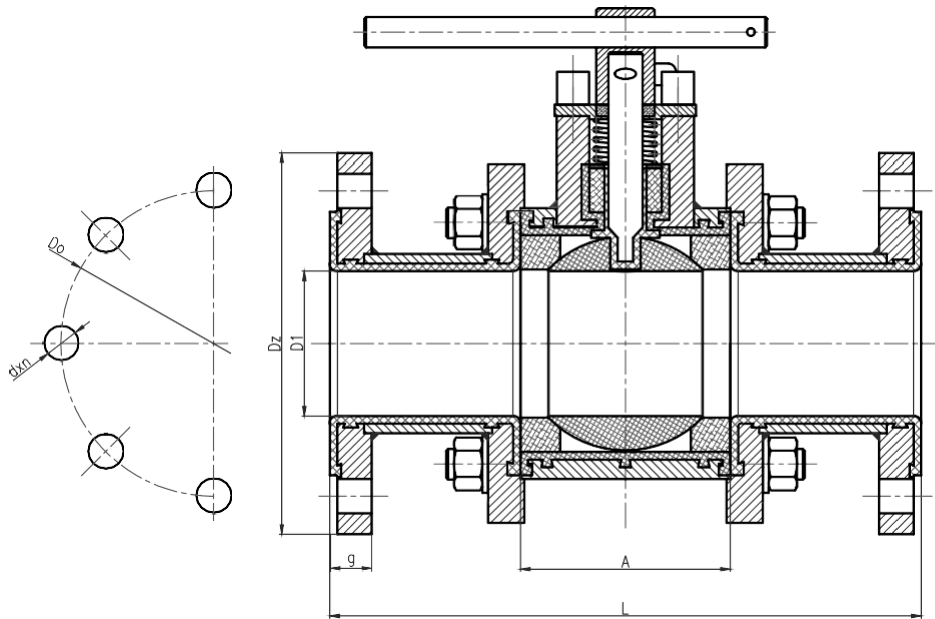
T4 - from -30°C to +250°C

PART	EXECUTION	
	FEP	PFA
	Material specification	
Lining:	FEP	PFA
Body:	1.0050	1.0050
Ball:	PTFE or ceramic	PTFE or ceramic
Stem:	1.4571	1.4571
Ball seals:	PTFE	PTFE
Stem seals:	PTFE	PTFE
Handle:	1.4571	1.4571
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone <p>It is not resistant in:</p> <ul style="list-style-type: none"> melt of sodium and potassium, fluohydric acid (35% to conc.) at 100°C, formic acid (10% to conc.) at 150°C, acetic acid (10% to conc.) at 150°C 	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-303k



DN	15	20	25	32	40	50	65	80	100
L	130	150	160	180	200	230	290	310	350
A	38	46	52	65	67	78	90	110	130
D1	13	18	24	32	38	48	62	76	96
Weight (kg)	2,0	3,0	4,0	6,0	8,4	11,2	11,5	20,5	29,0
Flanges according to PN EN 1092-1:2006, PN 6									
Do	55	65	75	90	100	110	130	150	170
dxn	11x4	11x4	11x4	14x4	14x4	14x4	14x4	18x4	18x4
Flanges according to PN EN 1092-1:2006, PN 10									
Do	65	75	85	100	110	125	145	160	180
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	18x8
Flanges according to PN EN 1092-1:2006, PN 16									
Do	65	75	85	100	110	125	145	160	180
dxn	14x4	14x4	14x4	18x4	18x4	18x4	18x4	18x8	18x8

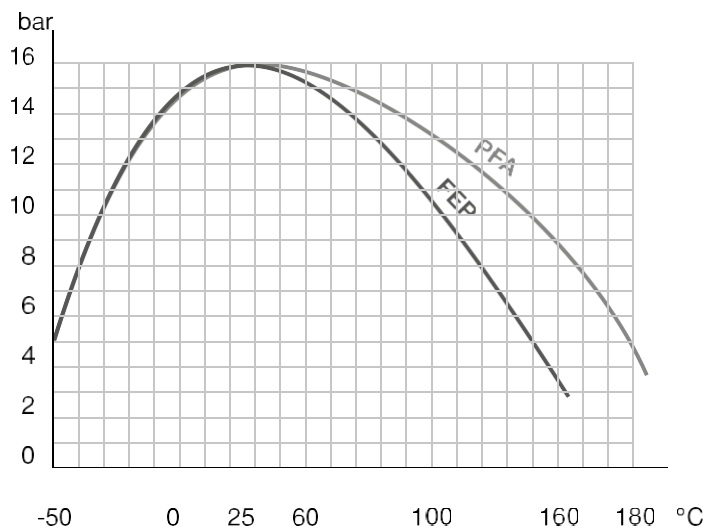


Diagram of temperature and pressure relation

DP-304kC FLANGED BALL VALVE LINED FEP, PFA

acc. to ANSI, ASME, 1/2"*3" with full bore, NPS 4" with reduced bore

DIAMETER RANGE

od NPS 1/2" do NPS 4"

CHARACTERISTIC

Ball valves type DP-303kC are cut-off dismantlable valves. In diameter range NPS 1/2"÷3" valves have full bore and in diameter NPS 4" valves have reduced bore. Flanged connections are executed according to ANSI B 16.5 class 150 and building length of valve according to ANSI B 16.10. Ball valves are lined with FEP or PFA. Moreover, in case of increased wear and frictions, instead of PTFE it can be used ceramic ball, what automatically increases resistance of valve to wear and improves its mechanical properties. Valves can be assembled on vertical or horizontal pipelines in any position, but they should work only in completely open or completely closed position. Valves have also simple construction and can be regenerated. There is possibility of antistatic execution which protects against static charges (ANTISTATIC).

WORKING PARAMETERS

Nominal pressure: CL150 -

class 150NPS

Temperature:

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T21 - from -20°C to +250°C

T1 - from -30°C to +150°C

T2 - from -30°C to +200°C

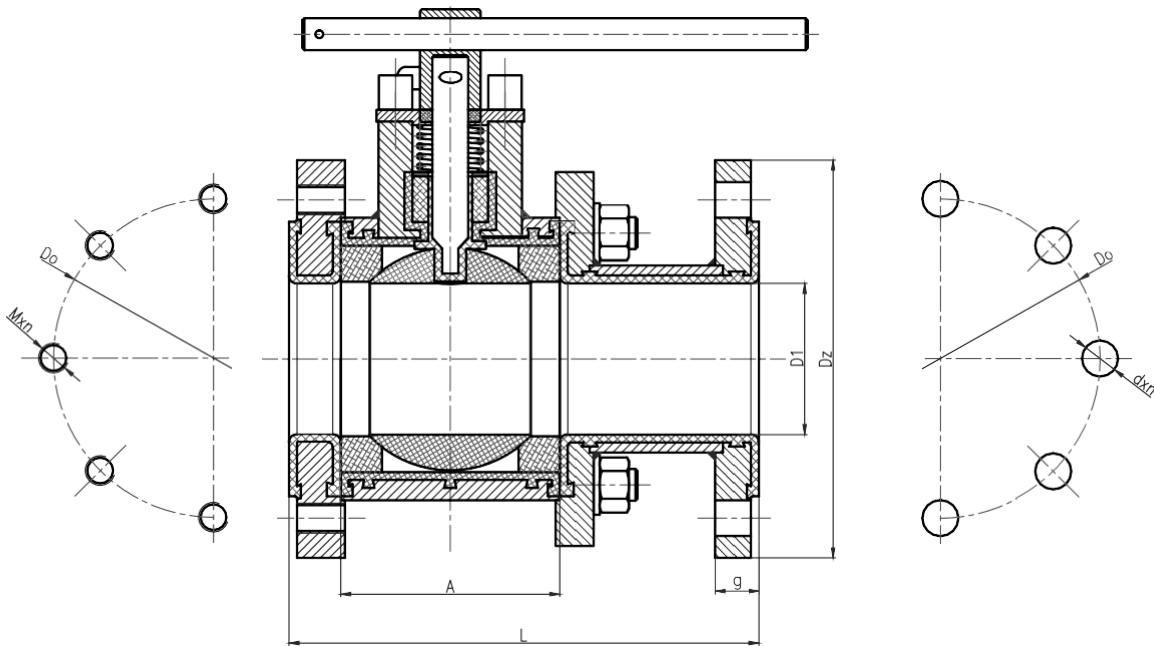
T4 - from -30°C to +250°C

PART	EXECUTION	
	FEP	PFA
	Material specification	
Lining:	FEP	PFA
Body:	1.0037	1.0037
Ball:	PTFE or ceramic	PTFE or ceramic
Stem:	1.4571	1.4571
Ball seals:	PTFE	PTFE
Stem seals:	PTFE	PTFE
Handle:	1.4571	1.4571
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone <p>It is not resistant in:</p> <ul style="list-style-type: none"> melt of sodium and potassium, fluohydric acid (35% to conc.) at 100°C, formic acid (10% to conc.) at 150°C, acetic acid (10% to conc.) at 150°C 	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone

Ball valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking

DP-304kC



L - Building length according to ANSI B 16.10

NPS	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
L	108	117	127	140	165	178	190	203	229
Dz	89	98	108	117	127	152	178	190	229
A	38	46	52	65	67	78	90	110	130
g	13	18	24	32	38	48	62	76	96
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5
dxn	4x16	4x16	4x16	4x16	4x16	4x19	4x19	8x19	8x19
weight (kg)	1,9	2,9	4,0	6,0	8,4	11,2	15,0	20,5	29,0

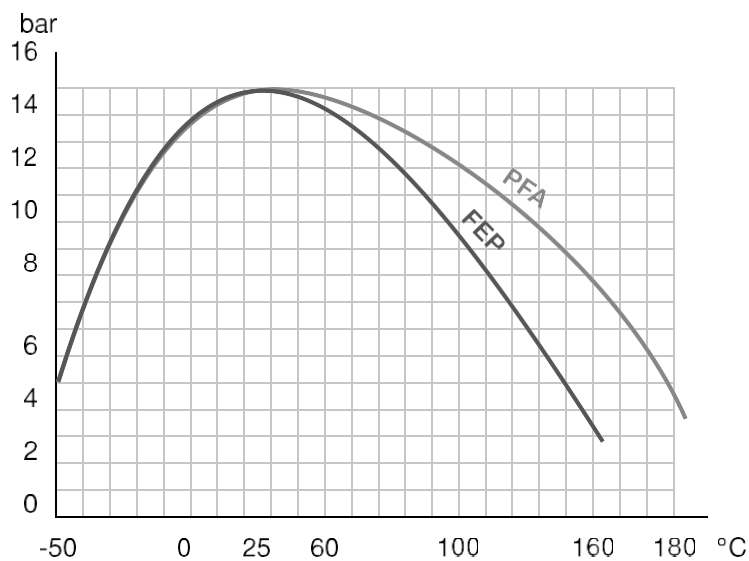


Diagram of temperature and pressure relation

DP-310k TEFLON-LINED BUTTERFLY VALVE

DIAMETER RANGE

from DN50 to DN250

CHARACTERISTIC

Butterfly valves are used to cut off and to regulate flow of corrosive liquids, gases, mixtures, as well as other powder media in pipeline systems. Valves have excellent sealing, short mounting length, are light weighted and can be easy to assemble. There are in production range also butterfly valves with disc protected with PFA C-antistatic coating. Advantage of such disc execution is thickness of coating up to 4 mm, electric conductivity 14 Ω /cm - useful in EX areas, working temperature up to 260°C, stability in case of diluted and concentrated organic and inorganic acids,alkalis and salt solutions, organic solvents, halogens and ozones, as well as shiny flat surface and longer disc durability. Moreover, discs with this type of coating (in comparison to ETFE) in principle get better resistance to wear and impacts.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1-PN16

Temperature:

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T21 - from -20°C to +250°C

T1 - from -30°C to +150°C

T2 - from -30°C to +200°C

T4 - from -30°C to +250°C

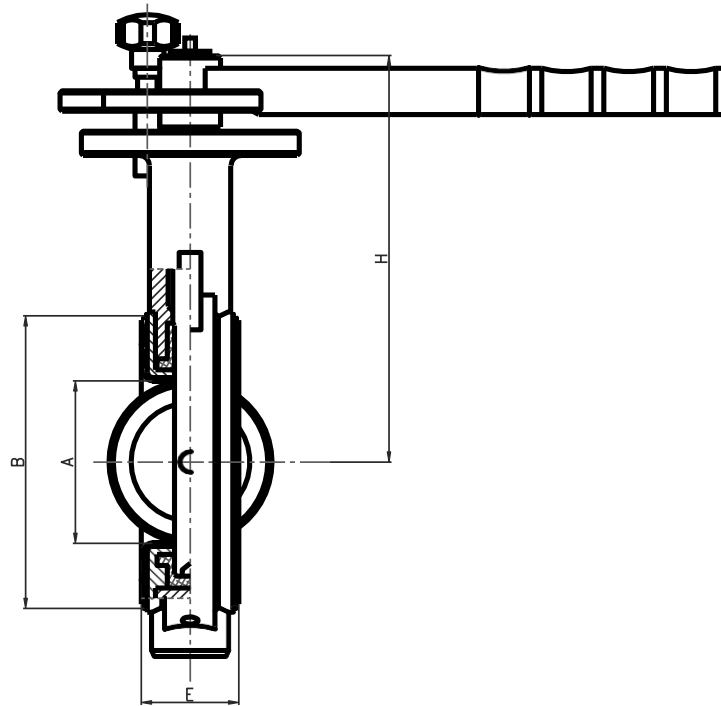
PART	EXECUTION			
	VFLV01	VFLV02	VFLV03	VFLV04
	Material specification			
Body:	nodular iron GGG 40			
Gate:	FEP or PFA	FEP or PFA	ETFE	Stainless steel
Seal:	Elastomer FEP or PFA	Elastomer	Elastomer	Elastomer
Anticorrosive protection:	painting coat			
Application:	<ul style="list-style-type: none"> • diluted and concentrated organic and inorganic acids, • alkalis and saline solution, • organic solvents, • halogens and ozone, • other liquid and gaseous media 			

Butterly valve can be provided with following additional equipment:

- pneumatic or electric drive (possible Ex execution)
- worm gear
- limit signal indicator (possible Ex execution)
- column
- possibility of sealing or padlocking



DP-310k



DN	50	65	80	100	125	150	200	250
A	52	62	80	102	122	145	192	249
B	109	129	144	163	194	221	275	300
H	183	191	200	217	235	248	285	390
E	44	48	48	52	54	58	60	70
Maximum pressure (bar)	10	10	10	10	10	8	8	8

DP-330k TEFLON-LINED CHECK VALVE

DIAMETER RANGE

from DN15 to DN100

CHARACTERISTIC

Flanged check valves are used for complete, fast and quiet flow closing in opposite direction. Valves have simple construction and can be easily assembled and disassembled on pipeline. Moreover, they are completely resistant to chemical substances and are high temperature resistant, have non-adhesive properties, as well as are resistant to atmospheric conditions and wear. Valves with neutral lining are resistant to impacts and additionally have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1-PN16

Temperature:

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T21 - from -20°C to +250°C

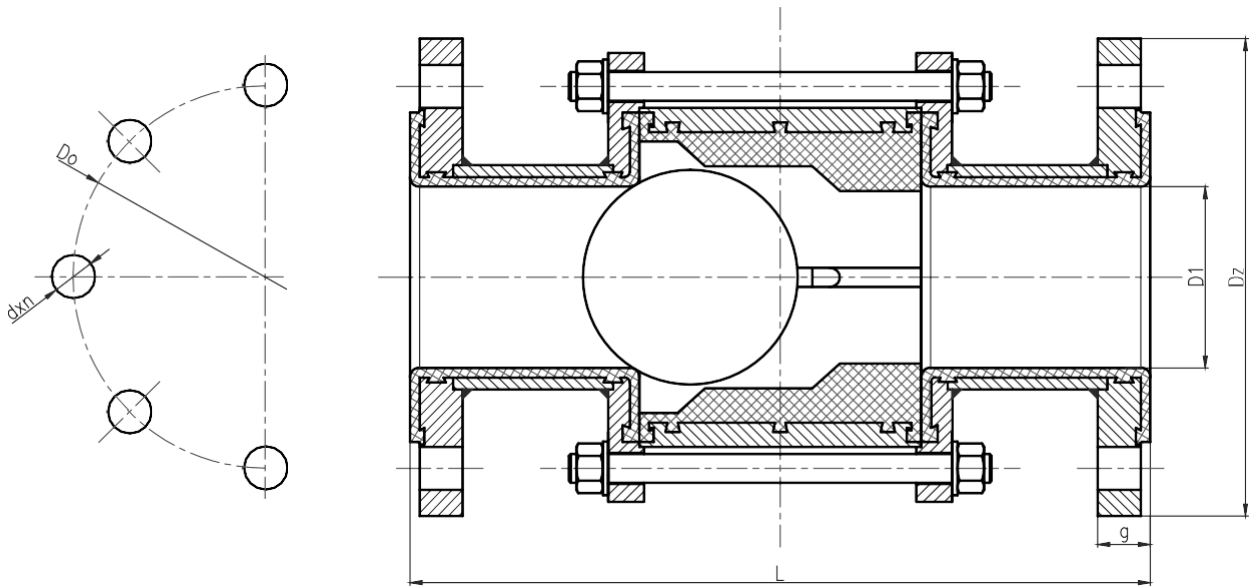
T1 - from -30°C to +150°C

T2 - from -30°C to +200°C

T4 - from -30°C to +250°C

PART	EXECUTION	
	FEP	PFA
	Material specification	
Lining:	FEP	PFA
3-part body:	1.0038 or 1.0254	1.0038 or 1.0254
Ball:	PTFE or PTFE antistatic	PTFE or PTFE antistatic
Ball seals:	PTFE	PTFE
Connecting screws:	A4	A4
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media 	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media

DO-330k



DN	15	20	25	32	40	50	65	80	100
d	13	18	24	32	38	48	62	76	96
Dz	95	105	115	140	150	165	185	200	220
Do	65	75	85	100	110	125	145	160	180
L	130	150	160	180	200	230	290	310	350
nxd	4x14	4x14	4x18	4x18	4x18	4x18	4x18	8x18	8x18

PZD-340k TEFLON-LINED SIGHT GLASS

DIAMETER RANGE

TYPE A : from DN15 to DN100

TYPE B : from DN40 to DN80

CHARACTERISTIC

Sight glasses are used for monitoring of corrosive liquids and are destined for visual control of decantation in pipelines. There are available two types A and B. Type A is welded execution with glass on each side and type B is welded execution with glass pipe. Sight glasses are practically completely resistant to operation of chemical substances and are high temperature resistant, have non-adhesive properties, as well as are resistant to atmospheric conditions and wear. Moreover, sight glasses with neutral lining have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1-PN16

Temperature:

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T21 - from -20°C to +250°C

T1 - from -30°C to +150°C

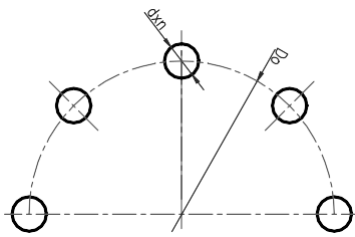
T2 - from -30°C to +200°C

T4 - from -30°C to +250°C

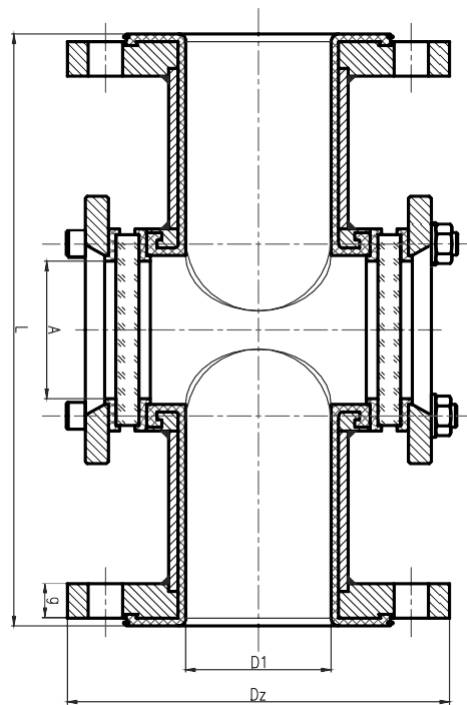
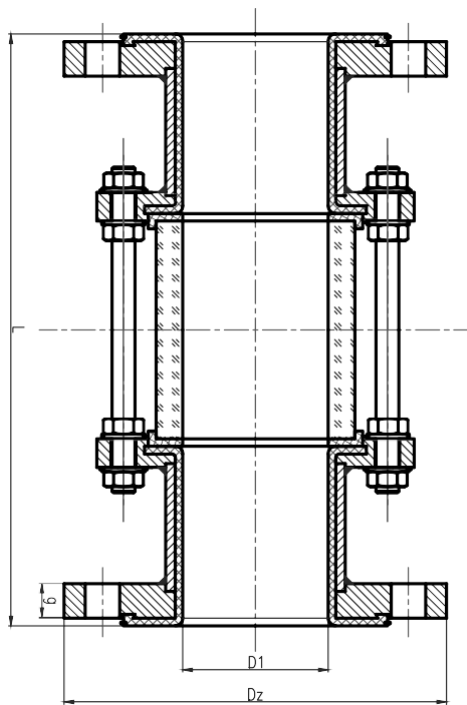
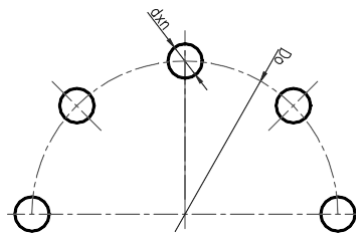
PART	EXECUTION	
	TYPE A	TYPE B
	Material specification	
Lining:	FEP or PFA C-antistatic	FEP or PFA C-antistatic
Body:	1.0038 or 1.0254	1.0038 or 1.0254
Seals:	PTFE or PTFE-antistatic	
Glass:	SCHOTT DURAN®	Br-Si glass
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media 	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media

PZD-340k

TYPE A



TYPE B



DN	15	20	25	32	40	50	65	80	100
L	130	150	160	180	200	230	290	310	350
Dz	95	105	115	140	150	165	185	200	220
Do	65	75	85	100	110	125	145	160	180
A	52	52	52	52	52	57	57	72	100
d	13	18	24	32	38	48	62	76	96
nxd	4x14	4x14	4x18	4x18	4x18	4x18	4x18	8x18	8x18

DP-350 TEFLON-LINED PIPES

DIAMETER RANGE

from DN20 to DN200

CHARACTERISTIC

PTFE lined pipes are used in all places where high corrosion protection against very aggressive chemical media, in conditions of high temperature and neutral lining with non-adhesive properties, is required. In case of rapid temperature changes where ceramic, enamelled or glass executions fail, fluoride artificial substances proved indispensable. Increased hardness of basic carrying material combined with excellent properties of fluoride elements PTFE, in relation with shape of carrying element and working conditions, gives best possible results. Such protection ensures long life, simple installation and considerable reduces maintenance costs. Pipes are practically completely resistant to operation of chemical substances and are high temperature resistant, have good non-adhesives properties, as well as are completely resistant to atmospheric conditions and wear. Moreover, pipes are neutral fittings, resistant to impacts, which have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1-PN16

Temperature:

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T21 - from -20°C to +250°C

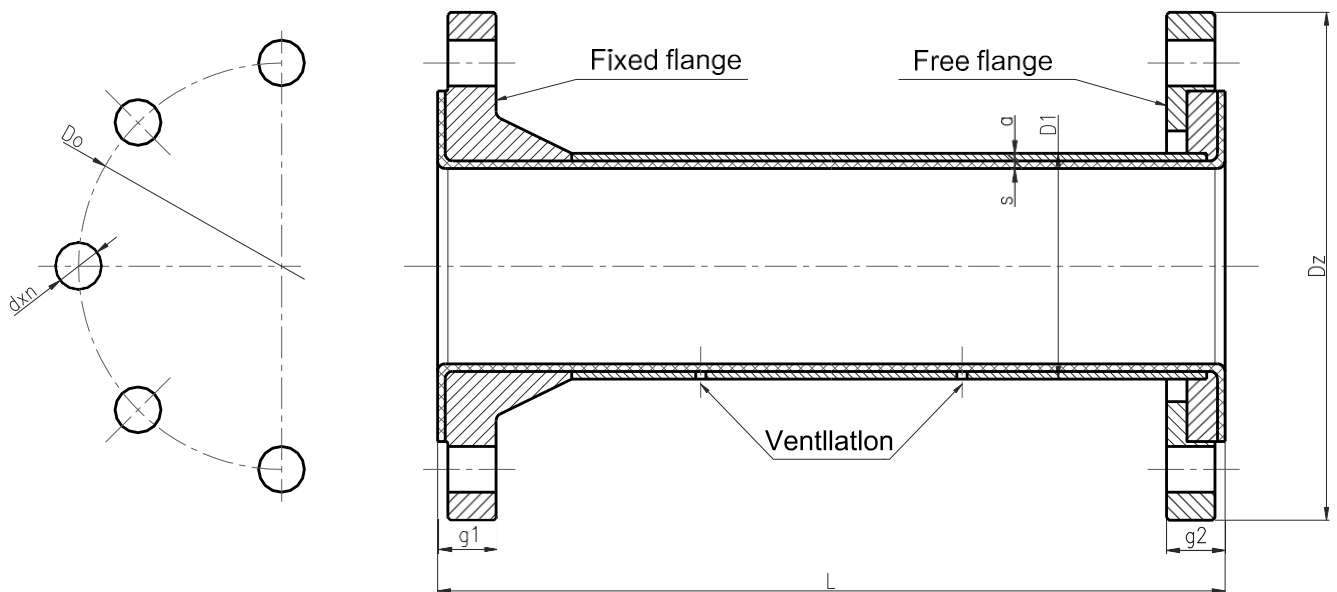
T1 - from -30°C to +150°C

T2 - from -30°C to +200°C

T4 - from -30°C to +250°C

PART	EXECUTION	
	P1	P2
	Material specification	
Lining:	pure PTFE	PTFE with filling
Pipe:	1.0038 or 1.0254	1.0038 or 1.0254
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> • diluted and concentrated organic and inorganic acids, • alkalis and saline solution, • organic solvents, • halogens and ozone, • other liquid and gaseous media 	<ul style="list-style-type: none"> • diluted and concentrated organic and inorganic acids, • alkalis and saline solution, • organic solvents, • halogens and ozone, • other liquid and gaseous media

DP-350



DN	20	25	32	40	50	65	80	100	125	150	200
D1	30	38,1	42,2	48,3	60,3	76,1	88,9	114,3	152	152	219,1
s	3	3,2	2,6	2,9	2,9	2,9	3,2	5	5	5	5,9
a	3	3	3	3	3	3	3	4	5	5	5
Do	75	85	100	110	125	145	160	180	210	240	295
Dz	105	115	140	150	165	182	200	220	250	285	340
g1	19	19	19	19	21	21	23	23	27	27	30
g2	31	31	31	31	33	33	37	39	39	40	40
dxn	4x14	4x14	4x18	4x18	4x18	4x18	8x18	8x18	8x18	8x18	8x18
L	Maximum 3000 mm										

DP-350C TEFLON-LINED PIPES ACCORDING TO ANSI, ASME

DIAMETER RANGE

from DN1/2' to DN 8"

CHARACTERISTIC

PTFE lined pipes are used in all places where high corrosion protection against very aggressive chemical media, in conditions of high temperature and neutral lining with non-adhesive properties, is required. In case of rapid temperature changes where ceramic, enamelled or glass executions fail, fluoride artificial substances proved indispensable. Increased hardness of basic carrying material combined with excellent properties of fluoride elements PTFE, in relation with shape of carrying element and working conditions, gives best possible results. Such protection ensures long life, simple installation and considerable reduces maintenance costs. Pipes are practically completely resistant to operation of chemical substances and are high temperature resistant, have good non-adhesives properties, as well as are completely resistant to atmospheric conditions and wear. Moreover, pipes are neutral fittings, resistant to impacts, which have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure: CL150 -
class150

Temperature:

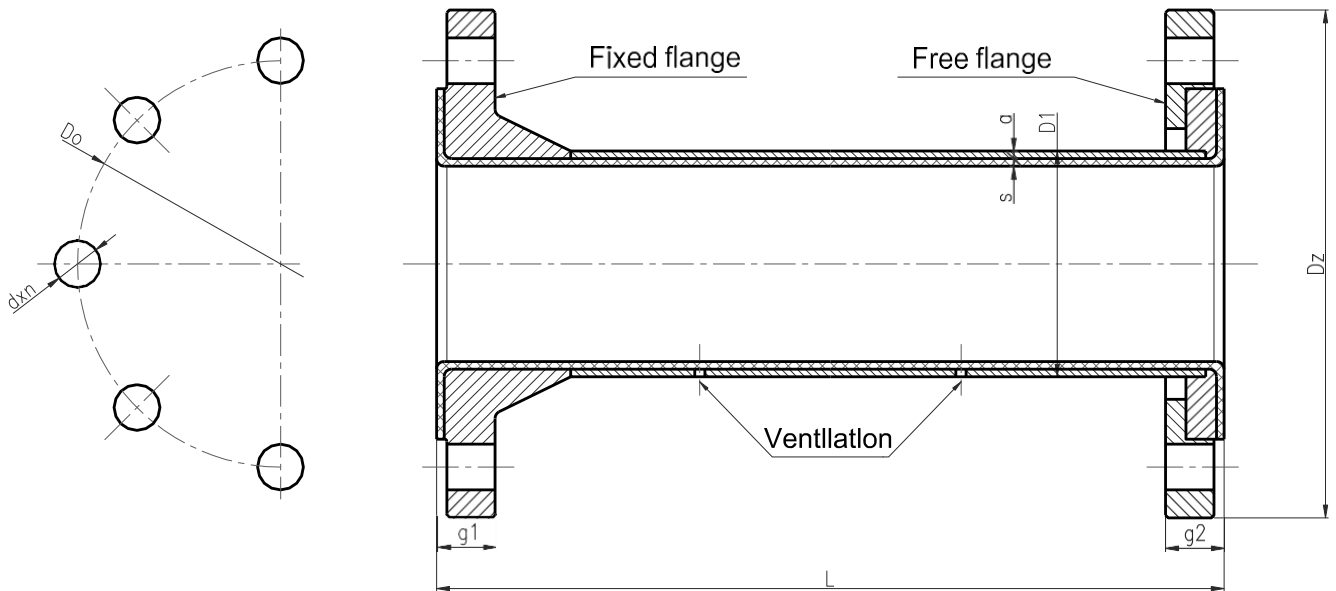
T19 - from -20°C to +150°C
T1 - from -30°C to +150°C

T20 - from -20°C to +200°C
T2 - from -30°C to +200°C

T21 - from -20°C to +250°C
T4 - from -30°C to +250°C

PART	EXECUTION	
	P1	P2
	Material specification	
Lining:	pure PTFE	PTFE with filling
Pipe:	1.0038 or 1.0254	1.0038 or 1.0254
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> • diluted and concentrated organic and inorganic acids, • alkalis and saline solution, • organic solvents, • halogens and ozone, • other liquid and gaseous media 	<ul style="list-style-type: none"> • diluted and concentrated organic and inorganic acids, • alkalis and saline solution, • organic solvents, • halogens and ozone, • other liquid and gaseous media

DP-350C



NPS	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"
Dz	88,9	98,4	107,9	117,5	127,0	152,4	177,8	190,5	228,6	254,0	279,4	342,9
Do	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	215,9	241,3	298,4
dxn	4x16	4x16	4x16	4x16	4x16	4x19	4x19	4x19	8x19	8x22	8x22	8x22
D1	30	30	38,1	42,2	48,3	60,3	76,1	88,9	114,3	152	152	219,1
s	3	3	3,2	2,6	2,9	2,9	2,9	3,2	5	5	5	5,9
a	3	3	3	3	3	3	3	3	4	5	5	5
g1	19	19	19	19	19	21	21	23	23	27	27	30
g2	31	31	31	31	31	33	33	37	39	39	40	40
L	Maximum 3000 mm											

DP-352 TEFLON-LINED T-JOINTS

DIAMETER RANGE

from DN20 to DN150

CHARACTERISTIC

Teflon-lined T-joints are used in all places where high corrosion protection against very aggressive chemical media, in conditions of high temperature and neutral lining with non-adhesive properties, is required. In case of rapid temperature changes where ceramic, enamelled or glass executions fail, fluoride artificial substances proved indispensable. Increased hardness of basic carrying material combined with excellent properties of fluoride elements PTFE, in relation with shape of carrying element and working conditions, gives best possible results. Such protection ensures long life, simple installation and considerable reduces maintenance costs. T-joints are practically completely resistant to operation of chemical substances and are high temperature resistant, have good non-adhesives properties, as well as are completely resistant to atmospheric conditions and wear. Moreover, T-joints are neutral fittings, resistant to impacts, which have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1-PN16

Temperature:

T19 - from -20°C to +150°C

T1 - from -30°C to +150°C

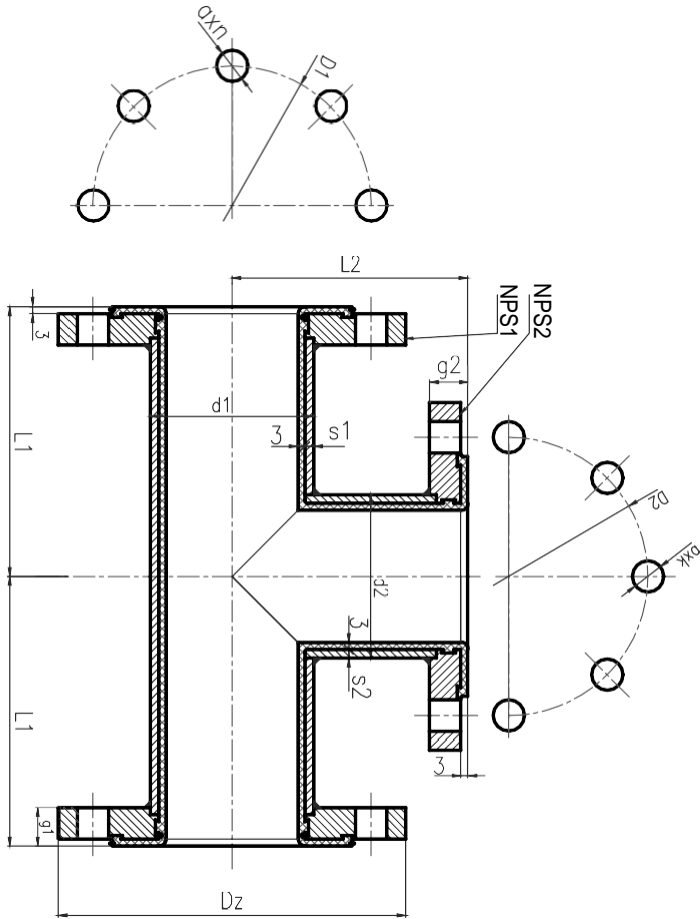
T20 - from -20°C to +200°C

T2 - from -30°C to +200°C

T21 - from -20°C to +250°C

T4 - from -30°C to +250°C

PART	EXECUTION	
	FEP	PFA
	Material specification	
Lining:	FEP	PFA C-antistatic
T-joint:	1.0038 or 1.0254	1.0038 or 1.0254
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> • diluted and concentrated organic and inorganic acids, • alkalis and saline solution, • organic solvents, • halogens and ozone, • other liquid and gaseous media 	<ul style="list-style-type: none"> • diluted and concentrated organic and inorganic acids, • alkalis and saline solution, • organic solvents, • halogens and ozone, • other liquid and gaseous media

DP-352


DN1	d1	DN2	d2	Length	
				L1	L2
20	35,0	20	35,0	95	95
		25	42,5		110
25	42,5	20	35,0	110	95
		32	48,0		130
32	48,0	25	42,5	130	110
		20	35,0		95
40	55,0	40	55,5	150	150
		32	48,0		130
		25	42,5		110
		20	35,0		100
50	63,5	50	63,5	120	120
		40	55,0		150
		32	48,0		130
		25	42,5		110
65	82,5	65	82,5	140	140
		50	63,5		120
		40	55,0		150
		32	48,0		130
80	90,0	80	90	165	165
		65	82,5		140
		50	63,5		120
		40	55,0		150
100	114,3	100	114,3	205	205
		80	90,0		165
		65	82,5		140
		50	63,5		120
125	139,7	125	139,7	245	245
		100	114,3		205
		80	90		165
		65	82,5		140
150	168,3	150	168,3	285	285
		125	139,7		245
		100	114,3		205
		80	82,5		165

DP-352C TEFLON-LINED T-JOINTS ACCORDING TO ANSI, ASME

DIAMETER RANGE

from DN 1/2" to DN 6"

CHARACTERISTIC

Teflon-lined T-joints are used in all places where high corrosion protection against very aggressive chemical media, in conditions of high temperature and neutral lining with non-adhesive properties, is required. In case of rapid temperature changes where ceramic, enamelled or glass executions fail, fluoride artificial substances proved indispensable. Increased hardness of basic carrying material combined with excellent properties of fluoride elements PTFE, in relation with shape of carrying element and working conditions, gives best possible results. Such protection ensures long life, simple installation and considerable reduces maintenance costs. T-joints are practically completely resistant to operation of chemical substances and are high temperature resistant, have good non-adhesives properties, as well as are completely resistant to atmospheric conditions and wear. Moreover, T-joints are neutral fittings, resistant to impacts, which have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure: CL150 -
class150

Temperature:

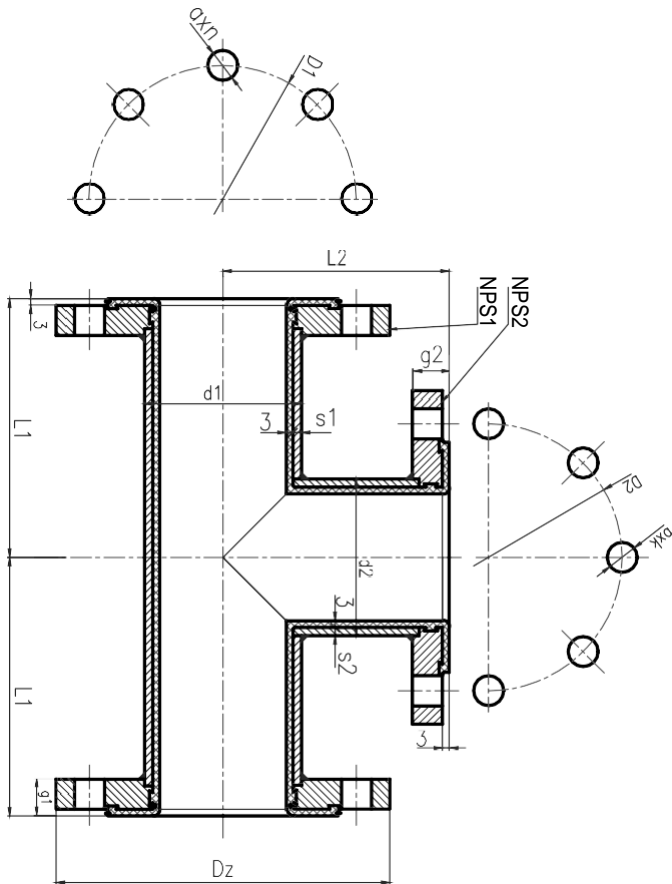
T19 - from -20°C to +150°C
T1 - from -30°C to +150°C

T20 - from -20°C to +200°C
T2 - from -30°C to +200°C

T21 - from -20°C to +250°C
T4 - from -30°C to +250°C

PART	EXECUTION	
	FEP	PFA
	Material specification	
Lining:	FEP	PFA C-antistatic
T-joint:	1.0038 or 1.0254	1.0038 or 1.0254
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media 	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media

DP-352C



NPS1	d1 (mm)	NPS2	d2 (mm)	Length	
				L1 (mm)	L2 (mm)
1/2"	30,0	1/2"	30,0	65	65
3/4"	35,5	3/4"	35,5	75	75
		1/2"	30,0		
1"	42,5	1"	42,5	89	89
		3/4"	35,5		
		1/2"	30,0		
1 1/4"	48,0	1 1/4"	48,0	95	95
		1"	42,5		
		3/4"	35,5		
1 1/2"	55,0	1 1/2"	55,0	102	102
		1 1/4"	48,0		
		1"	42,5		
		3/4"	35,5		
2"	63,5	2"	63,5	114	114
		1 1/2"	55,0		
		1 1/4"	48,0		
		1"	42,5		
2 1/2"	82,5	2 1/2"	82,5	127	127
		2"	63,5		
		1 1/2"	55,0		
		1 1/4"	48,0		
3"	90,0	3"	90,0	140	140
		2 1/2"	82,5		
		2"	63,5		
		1 1/2"	55,0		
4"	114,3	4"	114,3	165	165
		3"	90,0		
		2 1/2"	82,5		
		2"	63,5		
5"	139,7	5"	139,7	190	190
		4"	114,3		
		3"	90,0		
		2 1/2"	82,5		
6"	168,3	6"	168,3	203	203
		5"	139,7		
		4"	114,3		
		3"	90,0		

DP-354 TEFLON-LINED ELBOW 90° DP-356 TEFLON-LINED ELBOW 45°

DIAMETER RANGE

from DN25 to DN150

CHARACTERISTIC

Teflon-lined elbows are used in all places where high corrosion protection against very aggressive chemical media, in conditions of high temperature and neutral lining with non-adhesive properties, is required. In case of rapid temperature changes where ceramic, enamelled or glass executions fail, fluoride artificial substances proved indispensable. Increased hardness of basic carrying material combined with excellent properties of fluoride elements PTFE, in relation with shape of carrying element and working conditions, gives best possible results. Such protection ensures long life, simple installation and considerable reduces maintenance costs. Elbows are practically completely resistant to operation of chemical substances and are high temperature resistant, have good non-adhesives properties, as well as are completely resistant to atmospheric conditions and wear. Moreover, elbows are neutral fittings, resistant to impacts, which have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1-PN16

Temperature:

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T21 - from -20°C to +250°C

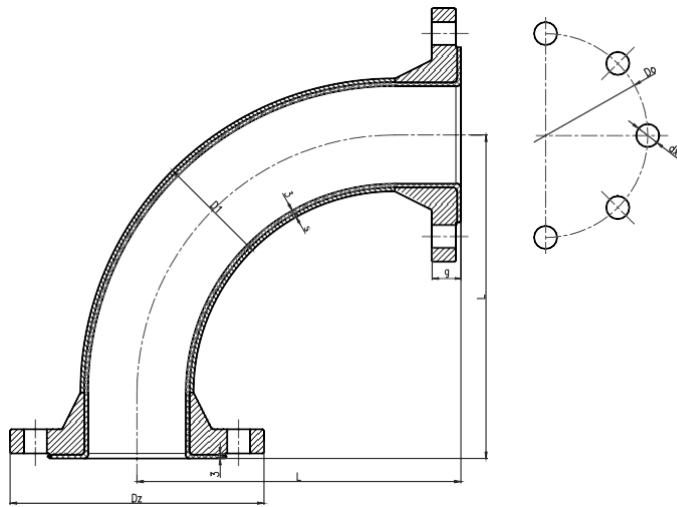
T1 - from -30°C to +150°C

T2 - from -30°C to +200°C

T4 - from -30°C to +250°C

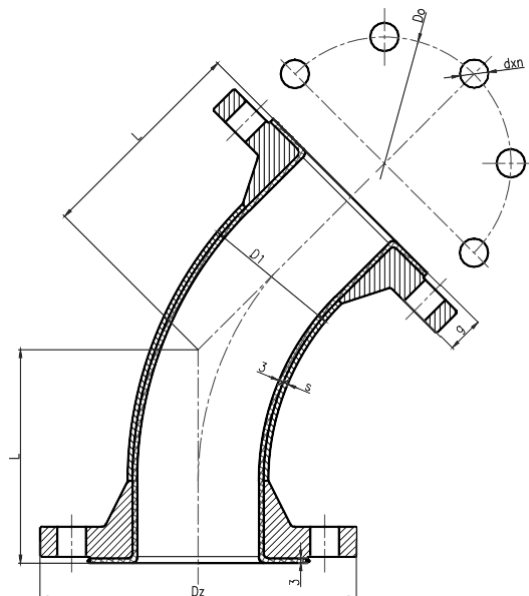
PART	EXECUTION	
	PTFE	PTFE antistatic
	Material specification	
Lining:	PTFE	PTFE antistatic
Elbow:	1.0038 or 1.0254	1.0038 or 1.0254
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media 	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media

DP-354



DN	25	32	40	50	65	80	100	125	150
D1	38,1	42/4	48,3	60,3	76,1	88,9	114,3	152	152
s	2,6	2,6	2,6	2,9	2,9	3,2	5	5	5
L	110	130	150	180	220	255	320	385	440
Do	85	100	110	125	145	160	180	210	240
Dz	115	140	150	165	185	200	220	250	285

DP-356



DN	25	32	40	50	65	80	100	125	150
D1	38,1	42,4	48,3	60,3	76,1	88,9	114,3	152	152
s	2,6	2,6	2,6	2,9	2,9	3,2	5	5	5
L	70	80	90	105	120	135	165	190	215
Do	85	100	110	125	145	160	180	210	240
Dz	115	140	150	165	185	200	220	250	285

DP-354C TEFLON-LINED ELBOW 90° ACCORDING TO ANSI, ASME DP-356C TEFLON-LINED ELBOW 45° ACCORDING TO ANSI, ASME

DIAMETER RANGE

from DN 1/2" to DN 6"

CHARACTERISTIC

Teflon-lined elbows are used in all places where high corrosion protection against very aggressive chemical media, in conditions of high temperature and neutral lining with non-adhesive properties, is required. In case of rapid temperature changes where ceramic, enamelled or glass executions fail, fluoride artificial substances proved indispensable. Increased hardness of basic carrying material combined with excellent properties of fluoride elements PTFE, in relation with shape of carrying element and working conditions, gives best possible results. Such protection ensures long life, simple installation and considerable reduces maintenance costs. Elbows are practically completely resistant to operation of chemical substances and are high temperature resistant, have good non-adhesives properties, as well as are completely resistant to atmospheric conditions and wear. Moreover, elbows are neutral fittings, resistant to impacts, which have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure: CL150 -

class 150

Temperature:

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T21 - from -20°C to +250°C

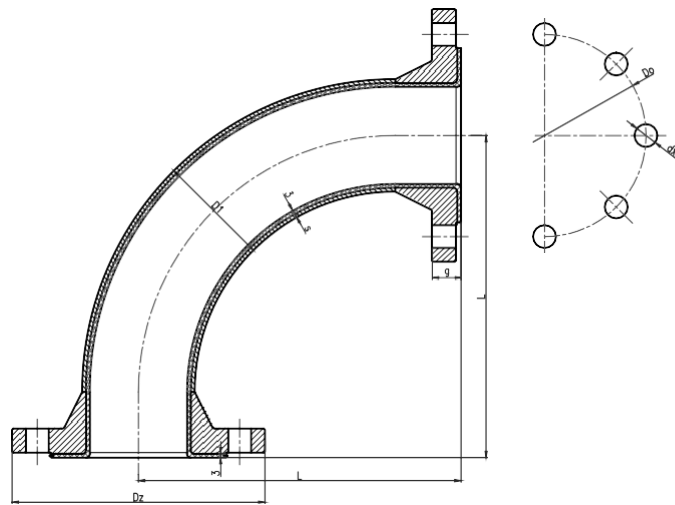
T1 - from -30°C to +150°C

T2 - from -30°C to +200°C

T4 - from -30°C to +250°C

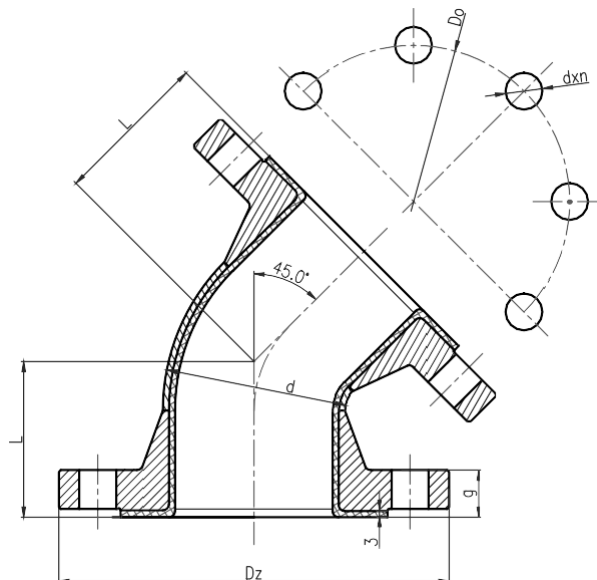
PART	EXECUTION	
	PTFE	PTFE antistatic
	Material specification	
Lining:	PTFE	PTFE antistatic
Kolano:	1.0038 or 1.0254	1.0038 or 1.0254
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media 	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media

DP-354C



NPS	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"
D1 (mm)	30	30	38,1	42,4	48,3	60,3	76,1	88,9	114,3	152	152
s (mm)	2,9	2,9	2,6	2,6	2,6	2,9	2,9	3,2	5	5	5
L (mm)	65	75	89	95	102	114	127	140	165	190	203
Do (mm)	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	215,9	241,3
Dz (mm)	88,9	98,4	107,9	117,5	127	152/4	177,8	190,5	228,6	254,0	279/4

DP-356C



NPS	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"
D1 (mm)	30	30	38,1	42/4	48,3	60,3	76,1	88,9	114,3	152	152
s (mm)	2,9	2,9	2,6	2,6	2,6	2,9	2,9	3,2	5	5	5
L (mm)	45	45	45	51	57	64	76	76	102	114	127
Do (mm)	60,3	69,8	79,4	88,9	98,4	120,6	139,7	152,4	190,5	215,9	241,3
Dz (mm)	88,9	98,4	107,9	117,5	127	152/4	177,8	190,5	228,6	254,0	279/4

DP-358 TEFLON-LINED FLANGED REDUCTION

DIAMETER RANGE

from DN25 to DN150

CHARACTERISTIC

Teflon-lined flanged reductions are used in all places where high corrosion protection against very aggressive chemical media, in conditions of high temperature and neutral lining with non-adhesive properties, is required. In case of rapid temperature changes where ceramic, enamelled or glass executions fail, fluoride artificial substances proved indispensable. Increased hardness of basic carrying material combined with excellent properties of fluoride elements PTFE, in relation with shape of carrying element and working conditions, gives best possible results. Such protection ensures long life, simple installation and considerable reduces maintenance costs. Flanged reductions are practically completely resistant to operation of chemical substances and are high temperature resistant, have good non-adhesives properties, as well as are completely resistant to atmospheric conditions and wear. Moreover, flanged reductions are neutral fittings, resistant to impacts, which have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**-PN16

Temperature:

T19 - from -20°C to +150°C

T20 - from -20°C to +200°C

T21 - from -20°C to +250°C

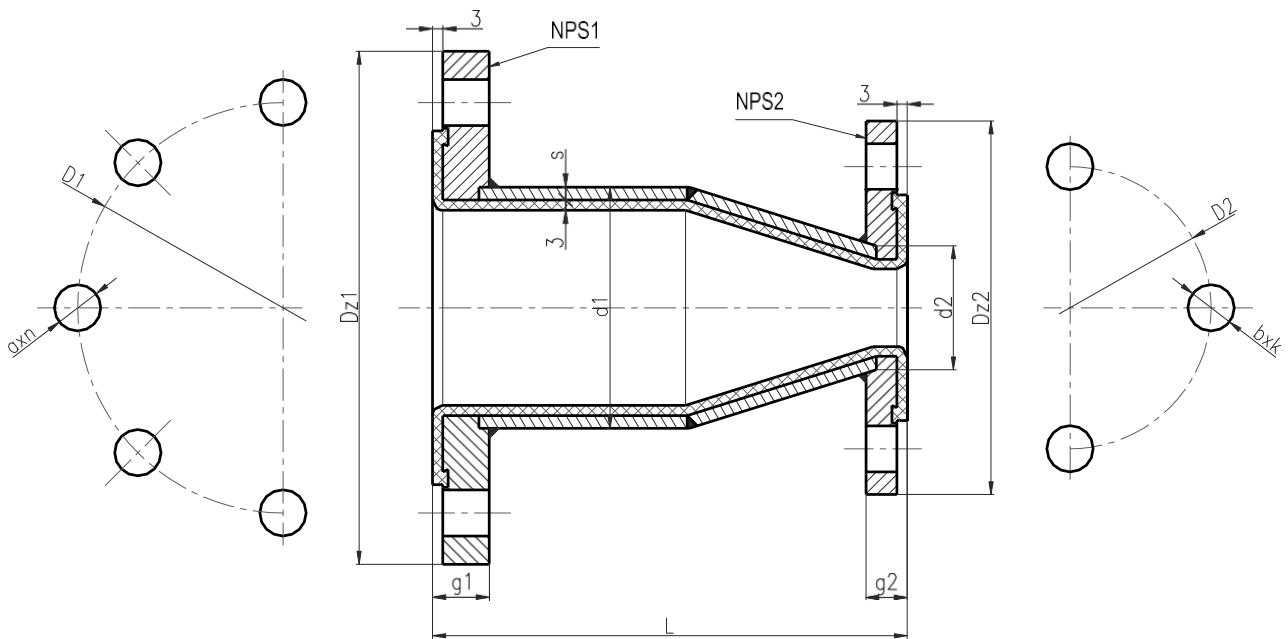
T1 - from -30°C to +150°C

T2 - from -30°C to +200°C

T4 - from -30°C to +250°C

PART	EXECUTION		
	PTFE	FEP	PFA
	Material specification		
Lining:	PTFE	FEP	PFA C-antistatic
Flanged reduction:	1.0038 or 1.0254	1.0038 or 1.0254	1.0038 or 1.0254
Anticorrosive protection:	painting coat	painting coat	painting coat
Application:	<ul style="list-style-type: none"> • diluted and concentrated organic and inorganic acids, • alkalis and saline solution, • organic solvents, • halogens and ozone, • other liquid and gaseous media 		

DP-358



DN1	d1	DN2	d2	L
25	38,1	20	30,0	125
32	42,4	25	38,1	130
		20	30,0	
40	48,3	32	42,4	150
		25	38,1	145
		20	30,0	
50	60,3	40	48,3	165
		32	42,4	
		25	38,1	160
65	76,1	50	60,3	185
		40	48,3	180
		32	42,4	
80	88,9	65	76,1	190
		50	60,3	
		40	48,3	185
100	114,3	80	88,9	205
		65	76,1	200
		50	60,3	
125	139,7	100	114,3	235
		80	88,9	
		65	76,1	230
150	168,3	125	139,7	250
		100	114,3	
		80	88,9	

DP-358C TEFLON-LINED FLANGED REDUCTION ACCORDING TO ANSI, ASME

DIAMETER RANGE

from DN 1" to DN 6"

CHARACTERISTIC

Teflon-lined flanged reductions are used in all places where high corrosion protection against very aggressive chemical media, in conditions of high temperature and neutral lining with non-adhesive properties, is required. In case of rapid temperature changes where ceramic, enamelled or glass executions fail, fluoride artificial substances proved indispensable. Increased hardness of basic carrying material combined with excellent properties of fluoride elements PTFE, in relation with shape of carrying element and working conditions, gives best possible results. Such protection ensures long life, simple installation and considerable reduces maintenance costs. Flanged reductions are practically completely resistant to operation of chemical substances and are high temperature resistant, have good non-adhesives properties, as well as are completely resistant to atmospheric conditions and wear. Moreover, flanged reductions are neutral fittings, resistant to impacts, which have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure: CL150 -
class150

Temperature:

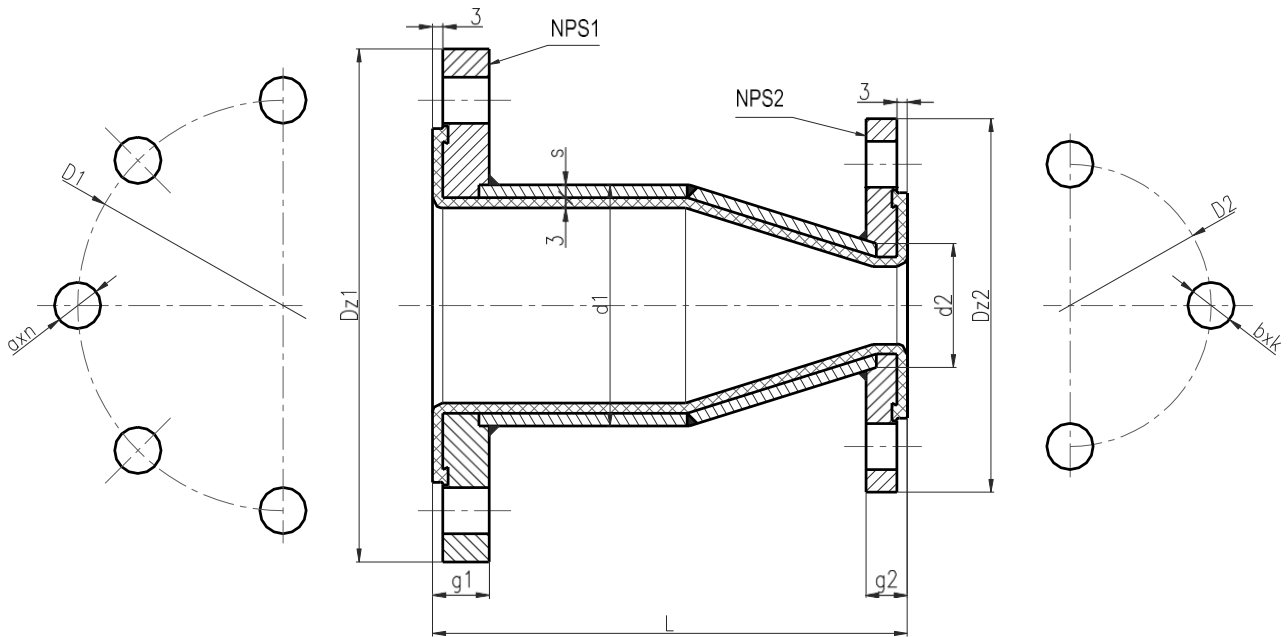
T19 - from -20°C to +150°C
T1 - from -30°C to +150°C

T20 - from -20°C to +200°C
T2 - from -30°C to +200°C

T21 - from -20°C to +250°C
T4 - from -30°C to +250°C

PART	EXECUTION		
	PTFE	FEP	PFA
	Material specification		
Lining:	PTFE	FEP	PFA C-antistatic
Flanged reduction:	1.0038 or 1.0254	1.0038 or 1.0254	1.0038 or 1.0254
Anticorrosive protection:	painting coat	painting coat	painting coat
Application:	<ul style="list-style-type: none"> • diluted and concentrated organic and inorganic acids, • alkalis and saline solution, • organic solvents, • halogens and ozone, • other liquid and gaseous media 		

DP-358C



NPS1	d1 (mm)	NPS2	d2 (mm)	L (mm)
1	38,1	¾"	30,0	125
1¼	42,4	1"	38,1	130
		¾"	30,0	
1½	48,3	1¼"	42,4	150
		1"	38,1	145
		¾"	30,0	
2	60,3	1½"	48,3	165
		1¼"	42,4	160
		1"	38,1	
2½	76,1	2"	60,3	185
		1½"	48,3	180
		1¼"	42,4	
3	88,9	2½"	76,1	190
		2"	60,3	185
		1½"	48,3	
4	114,3	3"	88,9	205
		2½"	76,1	200
		2"	60,3	
5	139,7	4"	114,3	235
		3"	88,9	230
		2½"	76,1	
6	168,3	5"	139,7	250
		4"	114,3	
		3"	88,9	

DP-360 TEFLON-LINED REDUCTION FLANGES

DIAMETER RANGE

from DN25 to DN150

CHARACTERISTIC

Teflon-lined reduction flanges are used in all places where high corrosion protection against very aggressive chemical media, in conditions of high temperature and neutral lining with non-adhesive properties, is required. In case of rapid temperature changes where ceramic, enamelled or glass executions fail, fluoride artificial substances proved indispensable. Increased hardness of basic carrying material combined with excellent properties of fluoride elements PTFE, in relation with shape of carrying element and working conditions, gives best possible results. Such protection ensures long life, simple installation and considerable reduces maintenance costs. Reduction flanges are practically completely resistant to operation of chemical substances and are high temperature resistant, have good non-adhesives properties, as well as are completely resistant to atmospheric conditions and wear. Moreover, reduction flanges are neutral fittings, resistant to impacts, which have very good insulation properties (electrical and thermal).

WORKING PARAMETERS

Nominal pressure:

C4-PN6, C5-PN10, C1-PN16

Temperature:

T19 - from -20°C to +150°C

T1 - from -30°C to +150°C

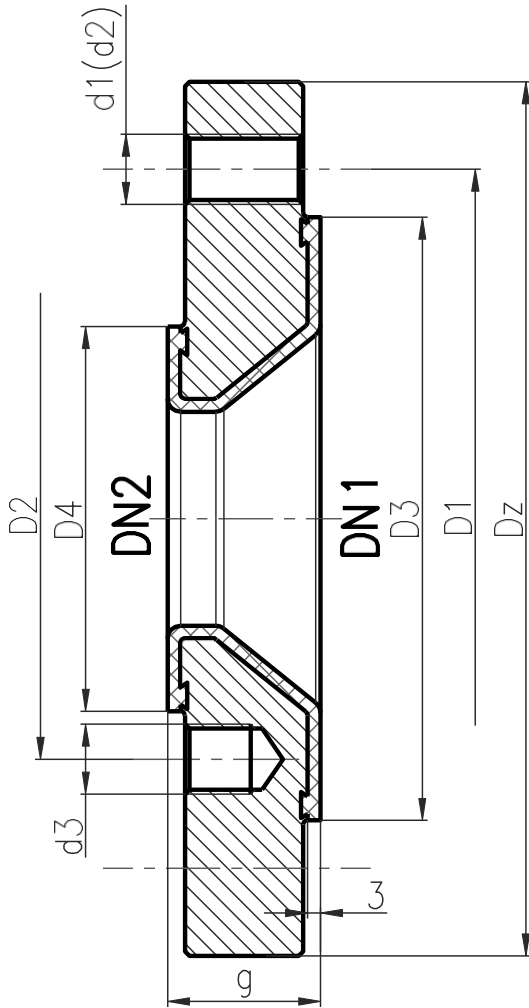
T20 - from -20°C to +200°C

T2 - from -30°C to +200°C

T21 - from -20°C to +250°C

T4 - from -30°C to +250°C

PART	EXECUTION	
	FEP	PFA
	Material specification	
Lining:	FEP	PFA C-antistatic
Reduction flange:	1.0038 or 1.0254	1.0038 or 1.0254
Anticorrosive protection:	painting coat	painting coat
Application:	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media 	<ul style="list-style-type: none"> diluted and concentrated organic and inorganic acids, alkalis and saline solution, organic solvents, halogens and ozone, other liquid and gaseous media

DP-360


DN1	DN2	Dz	D3	D1	Screws			D4	D2	Screws		L
					d1	d2	d3					
25	20	115	68	85	4	M12		58	75	M12	35	
32	20	140	78	100				58	75			
	25				68	85						
40	20	150	88	110	58	75						
	25				68	85						
50	32	165	102	125	M16	-	78	100	M16			
	40						58	75	M12			
	20						68	75	M16			
65	25	185	122	145	4	M16	-	88	110	M16		
	32							58	75	M12		
	40							68	85	M16		
	50							78	100			
	20							88	110			
80	25	200	138	160	8	M16	-	102	125	M16		
	32							58	75	M12		
	40							68	85			
	50							78	100			
	65							88	110			
100	25	220	158	180	8	M16	-	122	145	M16		
	32							68	68		M12	
	40							78	100		M16	
	50							88	110			
	65							102	125			
	80							138	160			
125	32	250	188	210	8	M16	-	158	180	M16		
	40							78	100		4	
	50							88	110			
	65							102	125		8	
	80							122	145			
	100							138	160			
125	158	180										
150	40	285	212	240	8	M20	-	188	210	M16		
	50							88	110		4	
	65							102	125			
	80							122	145		8	
	100							138	160			
	125							158	180			
125	188	210										

DP-370 TEFLON BELLOW COMPENSATOR

DIAMETER RANGE

from DN25 to DN250

CHARACTERISTIC

Teflon bellow compensators are used in order to compensate expansions and assembly tolerances, to absorb vibrations and impacts in pipelines. Bellow compensators can work in high temperature conditions, they are flexible and resistant to corrosion, pressure, as well as vacuum. By special customer request it is possible to manufacture compensators with non-standard nominal sizes given by client. Additionally, there are also available compensators in reinforced steel execution. Advantage of these types of compensators are reinforcing steel ring which is used for high pressure pipelines, bellows thermally treated - more uniform wall throughout section, rubber protection - against leakage in case of PTFE bellows damage and external mechanical damages.

WORKING PARAMETERS

Nominal pressure:

C4-PN6, **C5**-PN10, **C1**-PN16

Temperature:

T19 - from -20°C to +150°C

T1 - from -30°C to +150°C

T20 - from -20°C to +200°C

T2 - from -30°C to +200°C

T21 - from -20°C to +250°C

T4 - from -30°C to +250°C

PART	EXECUTION	
	pure PTFE	PTFE antistatic
	Material specification	
Bellow material:	pure PTFE	PTFE antistatic
Application:	• used in chemical industry and on pipelines	

10

bar

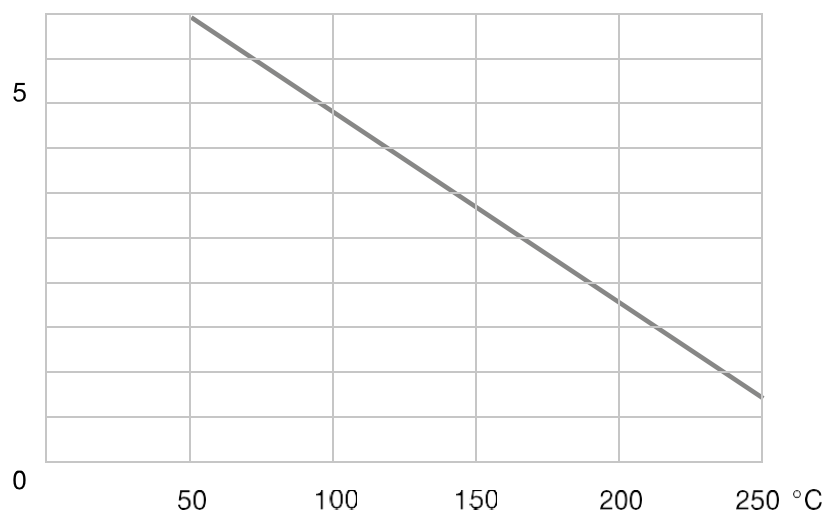
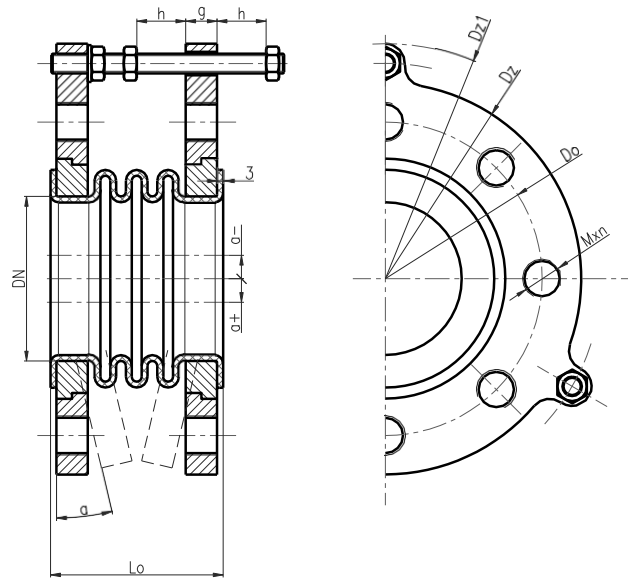


diagram of temperature and pressure relation

DP-370



		DN	25	32	40	50	65	80	100	125	150	200	250
		Installation sizes and clearings		DN	25	32	40	50	65	80	100	125	150
Flange PN 10	Dz	115	140	150	165	185	200	210	250	285	340	395	
	Do	85	100	110	125	145	160	180	210	240	295	350	
	Mxn	4xM12	4xM16	4xM16	4xM16	4xM16	8xM16	8xM16	8xM16	8xM16	8xM20	8xM20	12xM20
	Dz1	155	180	190	205	225	240	260	290	345	400	455	
	g	14	16	16	16	16	16	16	16	18	18	18	
	s	2,2	2,3	2,3	2,3	2,5	2,8	3,0	3,2	3,2	3,6	4,0	
	Lo	45	55	55	60	60	65	70	75	75	80	90	
3 ribs	h±	7	8	8	11	11	13	15	15	16	17	19	
	a±	4	4	4	6	6	7	7	8	8	8	9	
	°	8	8	8	6	6	6	5	5	4	4	3	
	Lo	55	70	70	70	80	90	95	100	105	110	120	
2 ribs	h±	12	12	12	19	19	25	25	25	28	28	30	
	a±	6	6	6	9	9	12	12	12	14	14	15	
	°	10	9	9	8	8	8	7	6	6	5	5	

DP-320k DIAPHRAGMVALVE

DIAMETER RANGE

from DN15 to DN200

CHARACTERISTIC

Hard rubber diaphragm valves are designed to use in chemical industry, for decantation of process water, acids, alkalis etc.. Valves are made from grey cast iron of SL25 quality. Valve body is protected with hard rubber coating of high quality, guarding metal components against corrosion. Diaphragm is made from EPDM or EPDM and PTFE.

WORKING PARAMETERS

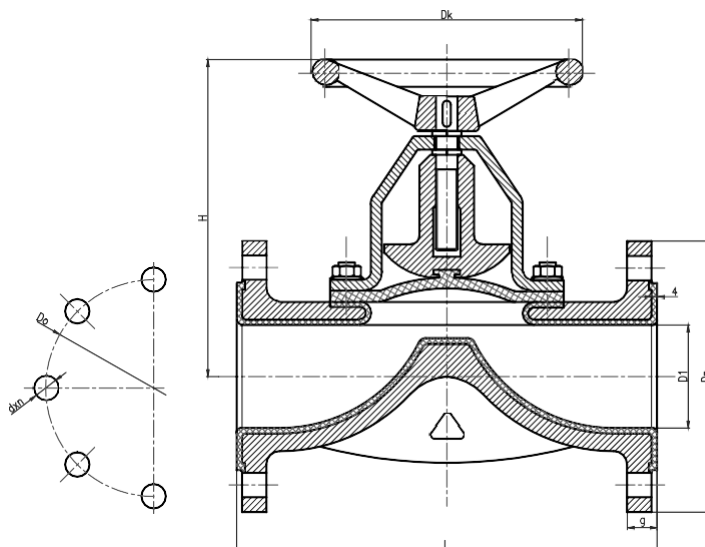
Nominal pressure

C4-PN6, C5-PN10

Temperature:

T32 - from -20°C to +100°C

T3 - from -30°C to +100°C



DN	Assembly dimensions			Connecting measurements				Screws		Weight (kg)
	L	H	Dk	Dz	s	Do	d	M	n	
15	130	158	100	95	3	65	14	M12	4	3,5
20	150	105		4,5						
25	160	115		5,0						
32	180	140		7.0						
40	200	205	140	150	4	110	18	M16	8	10
50	230	165		11,5						
65	290	240	200	185	4	145	23	M20	8	23,5
80	310	280		200		160				25,5
100	356	380		220		180				40,0
125	408	400	250	250	4	210	23	M20	8	58,0
150	480	470		285		240				87,0
200	506	540	400	340	4	295	23	M20	8	124,0

SERVICES

Zinc plating

Offered by us zinc plating service is applying of zinc coat with usage of electrolytic method what assures high quality and variety of applied coats. We offer zinc plating in:

- yellow
- blue-white
- black
- olive green

Main purpose of zinc plating is long-lasting protection against corrosion giving zinc plated details excellent appearance.

Maximum size of part destined for zinc plating 2400x800x800 [mm] (weight up to 80 kg). For small pieces desirable batch size equals 20 kg (or multiple).

We would like to mention that our services guarantee corrosive resistance of coats according to re-quirements given by Polish Standards and DIN.

Measurements of coat thickness is carried out with non-destructive methods, it is also determined foundation adherence. Measurements of corrosive resistance are made according to PN requirements.

Technical chromium plating

Technical chromium plating apart from aesthetic qualities assures good protection against corrosion and hardening of element coat. Chromium enables recovery of metal parts such as: shafts, piston rods etc.. Maximum size of part 1600x500x400 [mm] (weight up to 80kg).

Electropolishing of acid resisting steels

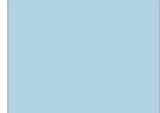
Thanks to electropolishing we reach the same effect or even better than mechanical cleaning, because by electropolishing we get uniform surface, at the same time perfectly polished. Maximum size of part 1700x800x600 [mm].

Blacking

Offered by us blacking service is excellent method for maintenance of elements for machines, keys or other parts which require maintenance. Maximum size of part 1800x600x600 [mm] (weight up to 80 kg).

Sand-blast cleaning

Sand-blast cleaning offers possibility to clean off particular detail in professional way from tarnish which remains after heating treatment, it enables to prepare surface for zinc plating process, painting or welding. Sand-blast cleaning process is adapted to requirements of European Union, because it is highly ecological. Maximum size of part 2000x750x500 [mm].



Notes



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