Ball Valve

MP-CI/MP-II

Type Series Booklet

Contents

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Type Series Booklet MP-CI/MP-II

Ball Valves

Single-piece Ball Valves

MP-CI/MP-II

Main applications

- General irrigation systems
- Fire-fighting systems
- Domestic water supply
- Air-conditioning systems
- Cooling circuits
- Water supply systems

Fluids handled

- Cooling water
- Fire-fighting water
- Oil
- Service water

Operating data

Operating properties

Characteristic	Value
Nominal pressure	Class 16
Nominal size [inch]	NPS 15 - 150
Max. permissible pressure [bar]	16
Min. permissible temperature [°C]	≥ -10
Max. permissible temperature [°C]	≤ +200

Selection as per pressure/temperature ratings (⇨ Page 5)

Valve body materials

Overview of available materials for MP-CI and MP-II

Overview of available materials

Material	Temperature limit	
	[°C]	[°F]
ASTM A350 LF2	≤ 200	≤ 392
ASTM A351 CF8M	≤ 200	≤ 392

Design details

Design

- Body made of Kanigen-treated carbon steel (MP-CI)
- Body made of stainless steel (MP-II)
- Ball valve with single-piece wafer-type body
- Tested to EN 12266-1
- Screwed body insert
- PTFE/graphite seat
- Stainless steel ball

Variants

- Gearbox
- Electric actuators
- Larger nominal sizes

Product benefits

- Kanigen-treated carbon steel body (MP-CI) for corrosion protection
- ISO threaded holes simplify actuator mounting

Related documents

Information/documents

Document	Reference number
Operating manual	V020625/6

On all enquiries / orders please specify

Please specify the following information in all enquiries or purchase orders:

1. Type
2. Nominal pressure
3. Nominal size
4. Variants
5. Reference number

Pressure/temperature ratings

Permissible operating pressure [bar] (to EN 1092-1)

PN	[° C]
	200
16	16,0

Materials

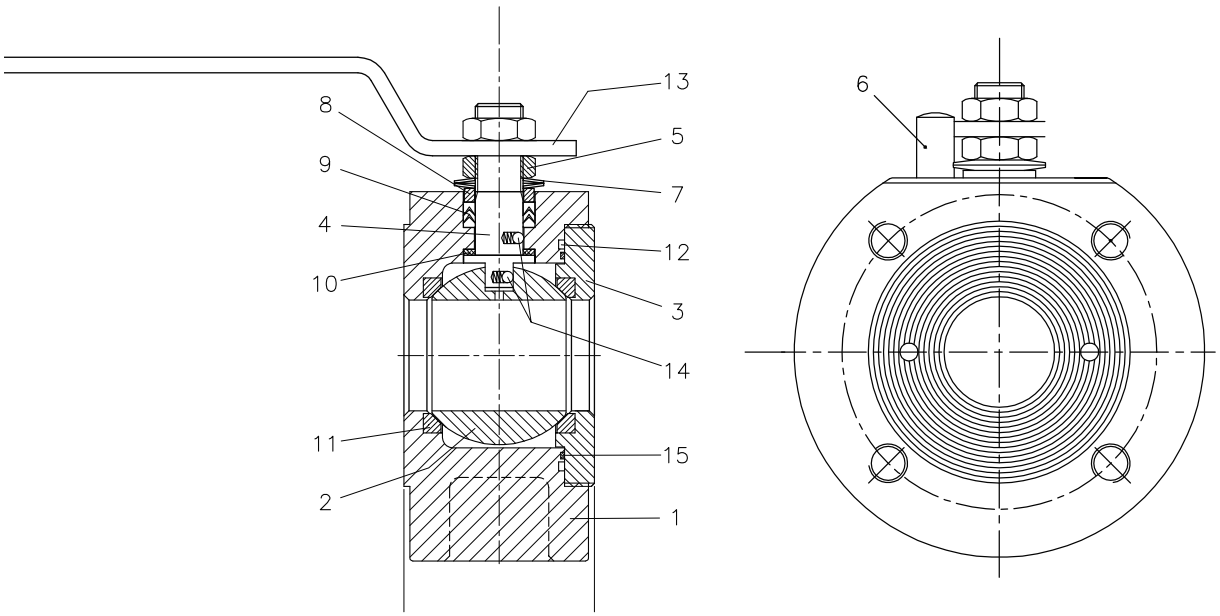

Fig. 1: Sectional drawing of MP-CI/MP-II

Overview of available materials

Part No.	Description	Materials MP-CI	Materials MP-II
1	Body	ASTM A350 LF2	ASTM A351 CF8M
2	Ball	AISI 304	ASTM A351 CF8M
3	Threaded ring	ASTM A350 LF2	ASTM A182 F316
4	Stem	AISI 304	ASTM A182 F316
5	Nut	A2	A2
6	Stop pin	Electroless nickel-plated steel	AISI 303
7	Disc spring	PTFE + 25 % graphite	Electroless nickel-plated steel
8	Stuffing box housing	PTFE + 25 % graphite	AISI 303
9	Gland packing	PTFE + 25 % graphite	PTFE + 25 % graphite
10	Gasket	Graphite	Graphite
11	Seat	PTFE + 15 % glass fibre	PTFE + 15 % glass fibre
12	O-ring	NBR	Viton (FKM)
13	Lever	Galvanised steel	AISI 304
14	Anti-static element	AISI 316	AISI 316
15	Sealing element	PTFE	PTFE

Dimensions

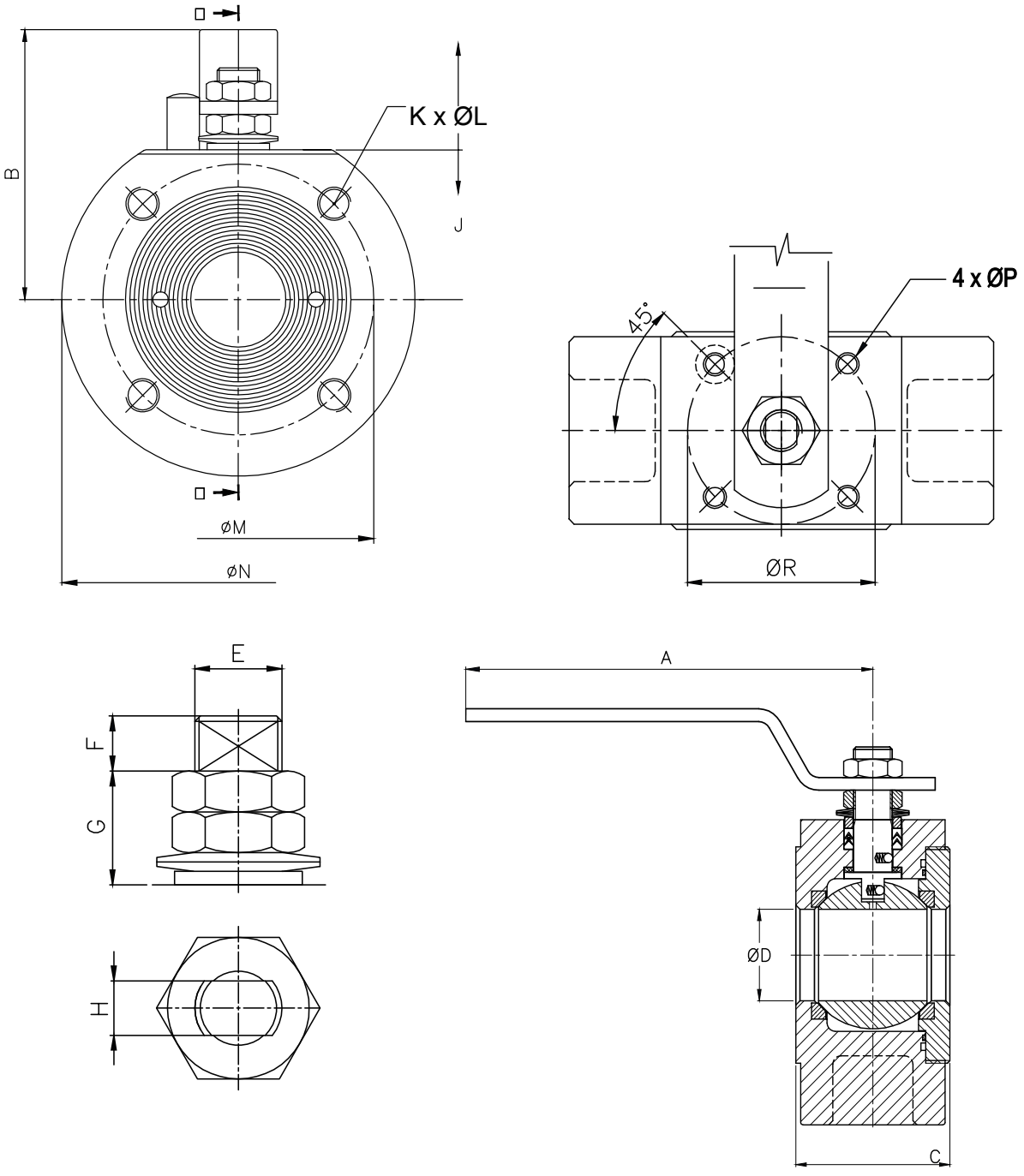

Fig. 2: Dimensions of MP-CI / MP-II

Dimensions

PN	DN	A	B	C	Ø D	E	F	G	H	J	ISO	Ø N	K	Ø L	Ø M	Ø P	Ø R	bar	Body
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[kg]
16	15	125	58	35	15	10	7	8	6	33	F03	91,5	4	M12	65	M5	36	1,44	1,13
	20	125	63	39	19	10	7	8	6	38	F03	91,5	4	M12	75	M5	36	1,68	1,5
	25	165	87	43	24	12	8	13	8	45	F04	112	4	M12	85	M5	42	2,8	2,2
	32	165	87	51,5	31	12	10	16	8	50	F04	128	4	M16	100	M5	42	4,14	2,71
	40	240	102	64	38	16	10	20	10	55	F05	139	4	M16	110	M6	50	6,2	4
	50	240	112	83	49	16	10	20	10	64	F05	161	4	M16	125	M6	50	10,6	6,3
	65	310	138	105	64	22	14	28	14	79	F07	177	8[1)]	M16	145	M8	70	14,77	11,1

1) Version with four holes available on request.

PN	DN	A	B	C	Ø D	E	F	G	H	J	ISO	Ø N	K	Ø L	Ø M	Ø P	Ø R	bar	Body
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[kg]
16	80	310	147	120	75	22	14	28	14	89	F07	195	8	M16	160	M8	70	21	14,7
	100	476	147	152	101	30	18	30	18	98	F07	224	8	M16	180	M8	70	35,5	29,5
	125	476	184	196	118	30	18	30	18	112	F10	255	8	M16	210	M10	102	50,5	50,5
	150	476	253	236	151	30	20	42	18	142	F12	290	8	M20	240	M12	125	80,5	80,5

Mating dimensions – Standards

Face-to-face lengths: EN 1092-1

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