

- > **Port size:** Rp1/8 ... 3, G1/8 ... 1
- > **Ideally suited for most general purpose applications**
- > **Easy installation, simple operation and maintenance free**
- > **Full bore passage giving minimum flow resistance**
- > **3-way ball valves with actuator interface conforming to ISO 5211 for rotary actuators**
- > **Wide pressure and temperature range**

Technical features

Medium:

Compressed air, water, inert gases and any other fluid compatible with the valve materials

Port size:

Mini G1/8 ... 1/2
Standard Rp1/8 ... 3
3-way Rp1/4 ... 3/4
Exhausting Rp1/4 ... 1 1/2
Lockable G1/4 ... 1
Heavy duty Rp1/4 ... 1

Operating pressure:

See individual details

Ambient/Media temperature:

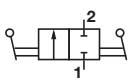
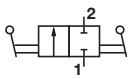
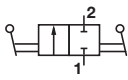
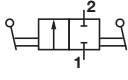
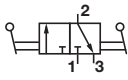
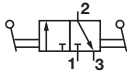
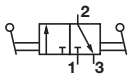
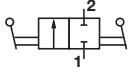
-20 ... +200°C (-4 ... +392°F)
see table on page 2
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Body, seats and seals: see table on page 2
Handle with PVC grip: zinc plated steel
(plastic handle on mini ball range)



Technical data

Symbol	Port size	Series #	Type	Material Body/Body finish	Seats/seals	Operating pressure (bar)	Temperature (°C)	Thread standard	Drawing No.	Model
	G1/8	6011	Mini	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 10	-10 ... +90	ISO 228/1	1	601112118
	G1/4	6011	Mini	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 10	-10 ... +90	ISO 228/1	1	601112128
	G3/8	6011	Mini	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 10	-10 ... +90	ISO 228/1	1	601112138
	G1/2	6011	Mini	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 10	-10 ... +90	ISO 228/1	1	601112148
	G1/8	6011	Mini *1)	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 10	-10 ... +90	ISO 228/1	2	601112218
	G1/4	6011	Mini *1)	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 10	-10 ... +90	ISO 228/1	2	601112228
	G3/8	6011	Mini *1)	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 10	-10 ... +90	ISO 228/1	2	601112238
	G1/2	6011	Mini *1)	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 10	-10 ... +90	ISO 228/1	2	601112248
	Rp1/4	6021	Standard	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	3	602112128
	Rp3/8	6021	Standard	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 40	-20 ... +60	ISO 7/1	3	602112138
	Rp1/2	6021	Standard	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	3	602112148
	Rp3/4	6021	Standard	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	3	602112168
	Rp1	6021	Standard	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	3	602112188
	Rp1 1/4	6021	Standard	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	3	6021121A8
	Rp1 1/2	6021	Standard	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	3	6021121B8
	Rp2	6021	Standard	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	3	6021121C8
	Rp2 1/2	6021	Standard	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	3	6021121D8
	Rp1/4 (R)	6021	Standard *1)	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	4	602112228
	Rp3/8 (R)	6021	Standard *1)	Brass/Nickel plated	PTFE (virgin)/NBR	-0,4 ... 40	-20 ... +60	ISO 7/1	4	602112238
	Rp1/2 (R)	6021	Standard *1)	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	4	602112248
	Rp3/4 (R)	6021	Standard *1)	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	4	602112268
	Rp1 (R)	6021	Standard *1)	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	4	602112288
	Rp1 1/4 (R)	6021	Standard *1)	Brass/Nickel plated	PTFE (virgin)/ EPDM + HNBR	-0,4 ... 40	-15 ... +90	ISO 7/1	4	6021122A8
	Rp1/4	6021	Three way	Brass/Nickel plated	PTFE/PTFE FKM	0 ... 25	-15 ... +120	ISO 7/1	5	602114428
	Rp3/8	6021	Three way	Brass/Nickel plated	PTFE/PTFE FKM	0 ... 25	-15 ... +120	ISO 7/1	5	602114438
	Rp1/2	6021	Three way	Brass/Nickel plated	PTFE/PTFE FKM	0 ... 25	-15 ... +120	ISO 7/1	5	602114448
	Rp3/4	6021	Three way	Brass/Nickel plated	PTFE/PTFE FKM	0 ... 16	-15 ... +120	ISO 7/1	5	602114468
	Rp1/4	6021	Exhausting	Brass/Nickel plated	PTFE (virgin)/PTFE	0,5 ... 12	0 ... +60	ISO 7/1	6	602113128EX
	Rp3/8	6021	Exhausting	Brass/Nickel plated	PTFE (virgin)/PTFE	0,5 ... 12	0 ... +60	ISO 7/1	6	602113138EX
	Rp1/2	6021	Exhausting	Brass/Nickel plated	PTFE (virgin)/PTFE	0,5 ... 12	0 ... +60	ISO 7/1	6	602113148EX
	Rp3/4	6021	Exhausting	Brass/Nickel plated	PTFE (virgin)/PTFE	0,5 ... 12	0 ... +60	ISO 7/1	6	602113168EX
	Rp1	6021	Exhausting	Brass/Nickel plated	PTFE (virgin)/PTFE	0,5 ... 12	0 ... +60	ISO 7/1	6	602113188EX
	Rp1 1/4	6021	Exhausting	Brass/Nickel plated	PTFE (virgin)/PTFE	0,5 ... 12	0 ... +60	ISO 7/1	6	6021131A8EX
	G1/4	6018	Lockable exhausting	Brass/Nickel plated	PTFE glass filled/PTFE carbon filled	0 ... 14	-10 ... +100	ISO 228/1	7	601812128
	G3/8	6018	Lockable exhausting	Brass/Nickel plated	PTFE glass filled/PTFE carbon filled	0 ... 14	-10 ... +100	ISO 228/1	7	601812138
	G1/2	6018	Lockable exhausting	Brass/Nickel plated	PTFE glass filled/PTFE carbon filled	0 ... 14	-10 ... +100	ISO 228/1	7	601812148
	G3/4	6018	Lockable exhausting	Brass/Nickel plated	PTFE glass filled/PTFE carbon filled	0 ... 14	-10 ... +100	ISO 228/1	7	601812168
	G1	6018	Lockable exhausting	Brass/Nickel plated	PTFE glass filled/PTFE carbon filled	0 ... 14	-10 ... +100	ISO 228/1	7	601812188
	Rp1/4	6051	Heavy Duty	Carbon steel/Zinc plated	PTFE + Carbographite	0 ... 160	-20 ... +200	ISO 7/1	8	605112128
	Rp3/8	6051	Heavy Duty	Carbon steel/Zinc plated	PTFE + Carbographite	0 ... 160	-20 ... +200	ISO 7/1	8	605112138
	Rp1/2	6051	Heavy Duty	Carbon steel/Zinc plated	PTFE + Carbographite	0 ... 160	-20 ... +200	ISO 7/1	8	605112148
	Rp3/4	6051	Heavy Duty	Carbon steel/Zinc plated	PTFE + Carbographite	0 ... 160	-20 ... +200	ISO 7/1	8	605112168
	Rp1	6051	Heavy Duty	Carbon steel/Zinc plated	PTFE + Carbographite	0 ... 160	-20 ... +200	ISO 7/1	8	605112188

Typical applications

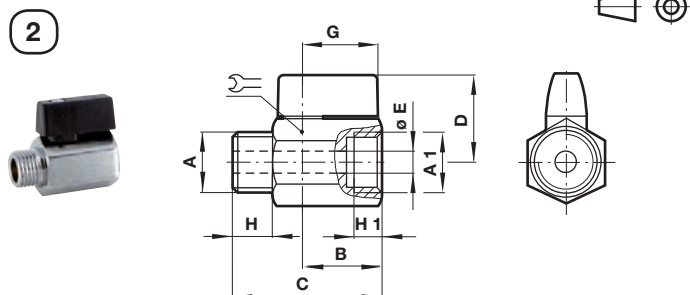
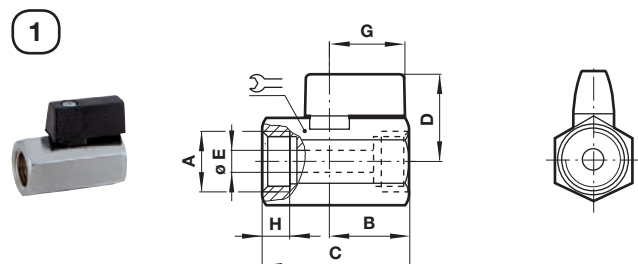
6011: Light duty in-line brass ball valves suitable for a wide variety of low pressure industrial uses.

6018: Medium duty in-line brass exhausting ball valves. Venting action & lockout design adds safety feature to valve.

6021: Medium duty in-line brass ball valves for most applications. Available as a standard valve, a three way diverting valve or with a downstream exhaust option.

6051: Heavy duty ball valve, two piece construction

*1) Male/female thread

Drawings
6011 series, mini ball


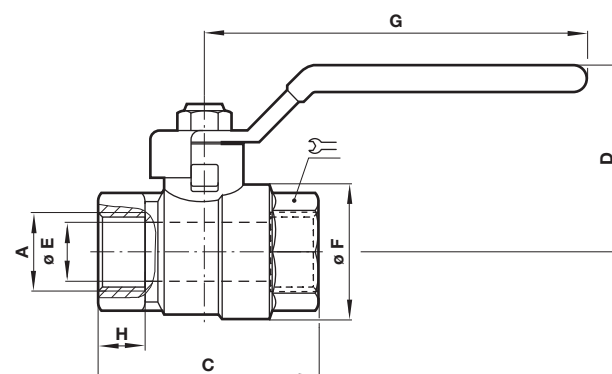
Dimensions in mm
Projection/First angle


Reduced bore, female/female

A	B	C	D	ø E	G	H		Weight (kg)	Model
G1/8	18	36	22	5,5	19	9	19	0,08	601112118
G1/4	18	36	22	5,5	19	9	19	0,07	601112128
G3/8	21	41	24	8	19	9	21	0,09	601112138
G1/2	25	48	30	10	22	10	25	0,14	601112148

Reduced bore, male/female

A	A1	B	C	D	ø E	G	H	H1		Weight (kg)	Model
G1/8	G1/8	20	37	22	5,5	19	9	9	19	0,6	601112218
G1/4	G1/4	20	37	22	5,5	19	9	9	19	0,6	601112228
G3/8	G3/8	21	41	24	8	19	9	9	21	0,8	601112238
G1/2	G1/2	25	48	30	10	22	11	11	25	0,13	601112248

6021 series, Standard ball valves

Full bore, female/female

A	C	D	ø E	ø F	Rp	H		Weight (kg)	Model
Rp1/4	48	36	8	23	85	12	18	0,13	602112128
Rp3/8	49	36	10	24	85	12	21	0,15	602112138
Rp1/2	60	40	15	30	85	15	25	0,20	602112148
Rp3/4	69	47	20	38	105	16,3	31	0,34	602112168
Rp1	83	51	25	46	105	19,1	38	0,47	602112188
Rp1 1/4	96	63	32	58	130	21,4	47	0,80	6021121A8
Rp1 1/2	106	69	40	70	130	22	54	1,14	6021121B8
Rp2	129	83	50	86	165	25,7	66	2,03	6021121C8
Rp2 1/2	159	99	65	111	248	30,2	85	3,85	6021121D8
Rp3	182	110	80	135	248	33,3	100	6,00	6021121E8

Pressure/temperature diagram
