Mini ball valves

Mini ball valve type 6310 / 6400 / 6410

Robust, compact, one-piece, brass ball valve

Body material: nickel-plated brass
Ball material: chromed brass
Lever material: polyamide (PA66)
Seal (ball / stem): PTFE / NBR
Connection: BSP thread (ISO 228-1)
BSP and BSPT thread (ISO 7-1)
Working temperature: from -20°C to +80°C

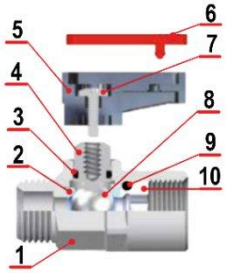
Professional, one-piece brass mini ball shut-off valve of European manufacture, with a body made of cast brass, with a plastic straight lever (with an interchangeable tag in colours: standard red; available yellow, blue, green, white), intended for industrial installations. Can be used for air, neutral gases, water, chemicals, petrochemical products, etc., free of solid contaminants, compatible with the chemical resistance of the valve materials. Features a blow-out proof stem. Meets the requirements of the Pressure Equipment Directive PED 2014/68/EU, within sound engineering practice (SEP), in accordance with Art. 4(3). Compliant with the materials directive RoHS 2011/65/EU and REACH regulation 1907/2006, silicone-free. Available versions of these valves with stem sealing of Viton: PTFE / FKM (valve working temperature: -15°C ÷ +130°C) and, on special order, PTFE / EPDM versions (-40°C ÷ +130°C) and PTFE / HNBR (-30°C ÷ +130°C). The working pressure of these versions depends on the working temperature. The stated minimum working temperature applies to a valve drained of freezing liquid.

index	type	DN [mm]	bore diameter [mm]	length [mm]	size thread [inch]	roll thread [mm]	working pressure [bar] -20°C ÷ +80°C	flow Q* (air) [l/min]	Kv** (water) [m³/h]	weight [kg]
AI-6310-02	6310 (male BSPT / female thread BSP, ISO 7-1)	6	6	36	1/8”	7,4	-0,99 ÷ 20	1825	1,6	0,034
AI-6310-04		8	6	43	1/4”	11	-0,99 ÷ 20	1652	1,4	0,040
AI-6310-06		10	8	46	3/8”	11,4	-0,99 ÷ 20	3587	3,1	0,065
AI-6310-08		15	10	57	1/2”	15	-0,99 ÷ 20	5712	5,0	0,125
AI-6310-12		20	14	63	3/4”	16,3	-0,99 ÷ 20	11618	10,2	0,188
AI-6400-02	6400 (2 x GW BSP, ISO 228-1)	6	6	35	1/8”	7	-0,99 ÷ 20	1825	1,6	0,036
AI-6400-04		8	6	37	1/4”	8	-0,99 ÷ 20	1652	1,4	0,041
AI-6400-06		10	8	42	3/8”	9	-0,99 ÷ 20	3587	3,1	0,069
AI-6400-08		15	10	49	1/2”	10	-0,99 ÷ 20	5712	5,0	0,123
AI-6400-12		20	14	58	3/4”	12	-0,99 ÷ 20	11618	10,2	0,200
AI-6410-02	6410 (male BSP / female thread BSP, ISO 228-1)	6	6	34	1/8”	7	-0,99 ÷ 20	1825	1,6	0,032
AI-6410-04		8	6	35	1/4”	8	-0,99 ÷ 20	1652	1,4	0,038
AI-6410-06		10	8	39	3/8”	9	-0,99 ÷ 20	3587	3,1	0,062
AI-6410-08		15	10	45	1/2”	10	-0,99 ÷ 20	5712	5,0	0,107
AI-6410-12		20	14	52	3/4”	12	-0,99 ÷ 20	11618	10,2	0,175

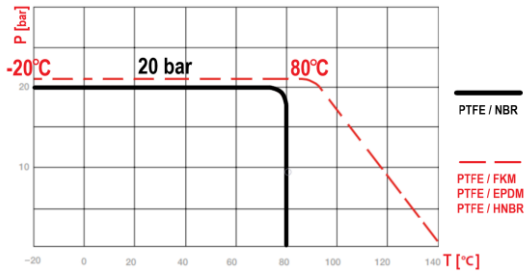
* Q – air flow at an inlet pressure of 6 bar and a pressure drop Δp = 1 bar, expressed in litres at atmospheric pressure [Nl];
** Kv - valve flow coefficient in metric units (water flow in m^3 per hour at a pressure drop Δp = 1 bar).

Valve design

1 - body: nickel-plated brass
2 - seats: PTFE
3 - O-ring: NBR (FKM, EPDM, HNBR on request)
4 - stem: brass CW614N
5 - lever: glass-fibre reinforced polyamide PA66
6 - tag: acetal
7 - screw: zinc-plated carbon steel
8 - ball: chrome-plated brass
9 - O-ring: NBR (FKM, EPDM, HNBR on request)
10 - threaded ring: brass



Working pressure / Working temperature:



A range of other configurations and versions of this valve in selected sizes is available on request:

AI-6420

AI-6600

AI-6490

AI-6540

AI-6700

AI-6730

See also the “Pneumatic valves” chapter in the PNEUMATICS section (AI valves with push-in connections).