



Parker Legris Rectus Distribution Catalogue

Low Pressure Fluid Handling Solutions



ENGINEERING YOUR SUCCESS.

#04

INDUSTRIAL VALVES

Ball Valves

LIQUIfit®

Needle and Butterfly Valves

Axial Valves



The Solution for Your Needs

How to choose your ball valves?

Which kind of valve do you need ?

• Ball Valves



• Needle Valves



• Butterfly Valves



Represents an interesting economical alternative compared with a ball valve

• Axial Valves



What are the conditions of use ?

- Pressure
- Temperature inside the system
- Sealing requirements
- Flow requirements
- 2 ways or 3 ways
- Normally closed / Normally open ?

What type of fluid is being conveyed ?

- Compatibility of materials with the fluid : body & seals

Which technology is required to connect your ball valves ?

- Compression
- Threaded
- Push-in connection

Have you considered the additional product requirements ?

- Compression fittings
- Tubing
- Solenoid valves

What is your application environment ?

- Internal or external environment
- Risk of shocks
- Air quality
- Regulations
- Corrosion risk
- Frequency of operation

What other functions are required ?

- Lockable
- Vented
- Frequency of operation
- Electric or pneumatic

Part Number Identification

0402 04 10

Valve type

0400
0401
0402
...

O.D. tube

04 = 4 mm
05 = 5 mm
...
40 = 40 mm

Thread

10 = 1/8"
13 = 1/4"
...
48 = 2"

Product Specifications Overview

	Materials	Fluids	Maximum Pressure (bar)	Temperature		Page
				Min.	Max.	
Industrial Valves						
Universal and Customised Series Ball Valves 	Nickel-plated forged brass	Compressed air Other fluids (see compatibility chart)	40	-40°C	+80°C +100°C: please contact us	444
Universal Series, Vented 	Nickel-plated forged brass	Compressed air Other fluids (see compatibility chart)	40	-20°C up to -40°C with no handle operation	+80°C	447
Universal Series, Lockable 	Nickel-plated forged brass, galvanised steel and epoxy locking system	Compressed air Other fluids (see compatibility chart)	40	-40°C	+80°C	448
Universal Light Series 	Forged brass or nickel-plated forged brass	Compressed air Other fluids (see compatibility chart)	20	-20°C	+80°C	449
DVGW Series Ball Valves 	Nickel-plated brass	Compressed air Other fluids (see compatibility chart)	40	-40°C	+170°C	451
Standard Series Ball Valves 	Nickel or chromium plated brass	Compressed air Other fluids (see compatibility chart)	30	-20°C	+130°C	452
Stainless Steel Series Ball Valves 	Stainless steel 316L	All fluids	35	-20°C	+150°C	454
High Pressure Ball Valves 	Zinc-plated brass	Compressed air, lubricants, gases	300	-15°C	+80°C	456
Mini Series Ball Valves 	Technical polymer/ Nickel-plated brass	Compressed air	10	-20°C	+80°C	457
LIQUIfit® Ball Valves 	Polypropylene	Beverages, water, industrial water, CO ² , inert gases	10	-15°C	+100°C	459
Brass Needle Ball Valves 	Shot-blasted forged brass nickel-plated	Compressed air, water, industrial fluids Other fluids: please contact us	120	-20°C	+100°C	461
Stainless Steel Needle Valves 	Stainless steel 316L	All fluids	400	-20°C	+180°C	460
Butterfly Valves 	Shot-blasted forged brass nickel-plated	Compressed air, abrasive fluids	16	-20°C	+80°C	462
Axial Valves 	Nickel-plated brass	Compressed air, water, industrial fluids Other fluids: please contact us	10	-20°C	+135°C	463

Compatibility Table

The chart below shows the compatibility between valves and fluids along with their pressure and temperature characteristics.

Certain models have a maximum working pressure which differs from that given in this table. In this case, the pressure is shown in the heading for the model number in question.

N.B.: Above 32 mm or 1¼" diameters, divide the maximum pressure by 2.

If the fluid you are using is not shown in this chart, please contact us.

Chemical Description	Maximum Pressure (bar)	Temperature °C		Universal and Light Series	Standard Series	DVGW series
		Min.	Max.			
"Aromatic" hydrocarbons	20	-20	+60			
Acetone and other ketones	20	-20	+60			
Acetophenone	20	-20	+60			
Acetylene - Acetone	20	-20	+60			
Acetylene (gas)	20	-20	+60	●	●	●
Alcohol (100%)	20	-20	Boiling			
Aluminium (liquid suspension, thick)	40	-20	+90	●	●	●
Amyl alcohol	20	-20	Boiling			
Animal fats, greases	20	+5	+200		●	●
Antifreeze or glycol (diluted)	40	-20	+40	●	●	●
Argon (gas) Ar	20	-20	+60	●	●	●
Barium - Hydroxide	20	-20	+40			
Benzaldehyde	20	-20	+60			
Benzene	20	-20	+60			
Benzyl alcohol	20	-20	Boiling			
Borax (pastes or solutions)	20	-20	+60			
Brake fluids (automobile)	20	-20	+90			
Bromochlorotrifluorethane	20	-20	+60		●	●
Butadiene (hydrocarbon)	20	-20	+60			
Butane	20	-20	+60	●	●	●
Butanol	20	-20	Boiling			
Butyl alcohol	20	-20	Boiling			
Butylene (hydrocarbon)	20	-20	+60			
Carbon dioxide gas CO ₂	40	-20	+60	●	●	
Castor oil	40	-20	+90	●	●	
Compressed air	20	-25	+180	●	●	●
Creosotes	20	-20	+60			
Cresols	20	-20	+60			
Crude oil	20	-20	+40			
Cutting oil	40	-20	+90	●	●	
Decalin (hydrocarbon, solvent)	20	-20	+60			
Detergents (solutions)	20	-20	+100			
Diacetone alcohol	20	-20	Boiling			
Diesel oils	40	-20	+90	●	●	
Di-Esters	20	-20	+90			
Di-Isobutylene	20	-20	+60			
Di-Pentane	20	-20	+60			

The above recommendations are given in good faith. However, since each application is different, it is advisable to undertake tests in actual working conditions.

Compatibility Table

Chemical Description	Max. Pressure (bar)	Temperature °C		Universal and Light Series	Standard Series	DVGW Series
		Min.	Max.			
Di-Pentene (solvents, varnish)	20	-20	+60			
Di-Phenyl-Oxide (thin detergents)	20	-20	+60			
Distilled water	40		+90	●	●	●
Edible fats	20	+5	+200		●	
Edible oils	20	+5	+200		●	
Erytrene (see Butadiene)	20	-20	+60			
Ethane (gas) CH ₂ CH ₃	20	-20	+60	●	●	
Ethane (hydrocarbon gas)	20	-20	+60			
Ethyl alcohol	20	-20	+60			
Ethylene glycol (antifreeze) - see Glycols	20	-20	+120			
Fatty alcohols	20	-20	Boiling			
Fuel oils	40	-20	+40	●	●	●
Fuels-Diesels	40	-20	+40	●	●	
Gaseous oxygen (ambient air)	20	-20	+40			
Glycerine	20	-20	+40	●	●	
Glycol (for antifreeze, lubricants)	40	-20	+40	●	●	
Graphite in suspension in water, oils and greases	40	-20	+90	●	●	
Greases (from petroleum)	40	-20	+90	●	●	
Helium (gas)	20	-20	+60			
Heptanal	20	-20	+50	●	●	
Hexane (solvent)	20	-20	+60			
Hydraulic oils (petroleum-based)	40	-20	+90	●	●	
Hydrogen (gas)	20	-20	+60			
Inks	20	-20	+60			
Insecticides	20	0	+40	●	●	●
Iso-Butane (aliphatic hydrocarbon)	20	-20	+60			
Iso-Octane	20	-20	+60			
Isopropyl alcohol	20	-20	Boiling			
Krypton (gas) Kr	20	-20	+60	●	●	●
Light water	40		+80	●	●	●
Lighting gas	20	-20	+40			●
Methane (gas) CH ₄	20	-20	+60	●	●	●
Methanol	20	-20	Boiling			
Methyl alcohol	20	-20	Boiling			
Methylated spirit	40	-20	+40	●	●	●
Mineral oils	40	-20	+90	●	●	●
Natural gas	20	-20	+40			●
Natural waxes (vegetable, beeswax, carnauba, Chinese, lignite)	40	-20	+90			
Neatsfoot oil	40	-20	+90	●	●	●
Neon (Gas) Ne	20	-20	+60	●	●	●
Nitrogen (gas) N ²	40	-20	+90	●	●	●
Oil (petroleum-based) and water emulsions	40	-20	+90	●	●	●

The above recommendations are given in good faith. However, since each application is different, it is advisable to undertake tests in actual working conditions.

Compatibility Table

Chemical Description	Max. Pressure (bar)	Temperature °C		Universal and Light Series	Standard Series	DVGW Series
		Min.	Max.			
Oils "synthetic"	20	-20	+100			
Ordinary petrol	20	-20	+40	●	●	
Oxygenated water	40	-20	+30			
Paints and relevant solvents	20	-20	+60		●	●
Paraffin oil	40	-20	+90	●	●	●
Paraffins	20	-20	+60	●	●	●
Pentane (liquid hydrocarbon)	20	-20	+60	●	●	●
Pentanois 1 and 2	20	-20	Boiling			
Petrol "super"	20	-20	+40			
Petroleum mineral oils	20	-20	+160			
Phenol (aqueous or alcoholic)	20	-20	+60		●	●
Propane	20	-20	+60	●	●	●
Propanols 1 and 2	20	-20	Boiling			
Propanone 2	20	-20	+60			
Propene or Propylene	20	-20	+60			
Propyl alcohol	20	-20	Boiling			
Propylene or Propene	20	-20	+60			
Rapeseed oil	40	-20	+90	●	●	
Saponifying liquids	20	-20	+30	●	●	●
Seawater	40		+80	●	●	●
Seawater (high temperature)	20		+150			●
Soaps	20	-20	+100			
Soaps (liquid or paste)	40	-20	+40	●	●	●
Sodium carbonate (with water)	20	0	+40	●	●	●
Starch (gels or pastes)	40	+10	+40	●	●	●
Steam	20	-20	+150			
Toluene (terpenic hydrocarbon)	20	-20	+60		●	●
Trichlorethylene	20	-20	+65			
Turpentine	20	-20	+50	●	●	●
Varnish and paints	20	-20	+60		●	●
Vaseline	40	-20	+60	●	●	●
Vaseline oil	40	-20	+90	●	●	●
Water (carbonated)	40		+90	●	●	●
Water (high temperature)	20		+150			●
Xenon (gas) Xe	20	-20	+60	●	●	●
Xylene	20	-20	+60			

The above recommendations are given in good faith. However, since each application is different, it is advisable to undertake tests in actual working conditions.



Universal Series



The seal wear compensating technology offers reliable and durable sealing, whether under pressure or vacuum.

Technical Characteristics

- **Compatible Fluids:** Compressed air
Other fluids: see compatibility chart at the end of this chapter
- **Working Pressure:** Vacuum up to 40 bar, depending on the model
- **Working Temperature:** -20°C to + 80°C
up to -40°C with no handle operation

Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.

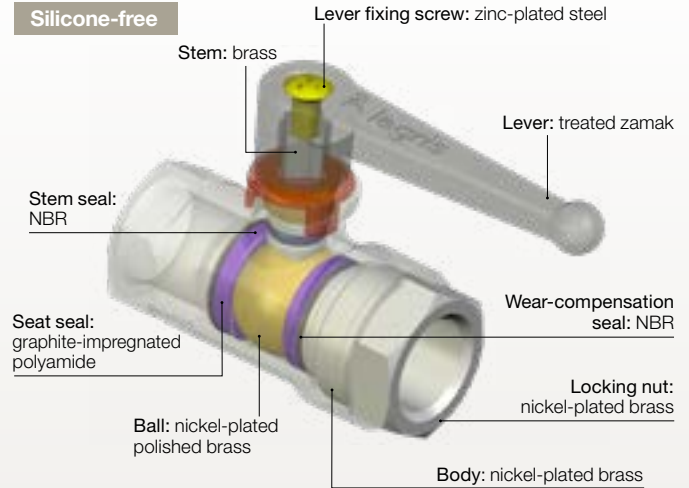
Guaranteed for use with a vacuum of 755 mm Hg (99 % vacuum).

Advantages

- Automatic seal wear compensation
- Vacuum resistance
- Ease of operation
- Short, repositionable and exchangeable handles

Component Materials

Silicone-free



Regulations

- PED
- REACH
- RoHS

Installation Options

Lockable Valves

Our lockable ball valves have been developed in order to prevent potentially dangerous consequences caused by unintended operation. Lockable in different positions, this range meets international safety requirements, such as ISO 4414.

The valves are lockable:

- at one point: models 0432 and 0439, open or closed position
- at three points: models 0436, 0437 and 0438, closed position only

Vented Valves

To stop fluid circulation and vent the circuit, 2 venting systems are provided:

- with threaded exhaust, to allow discharge of downstream media
- with pin-hole vent, for applications with no special discharge requirement

Fluid flow direction is indicated by an arrow on the valve body.

Mountable Valves

On steel plate:

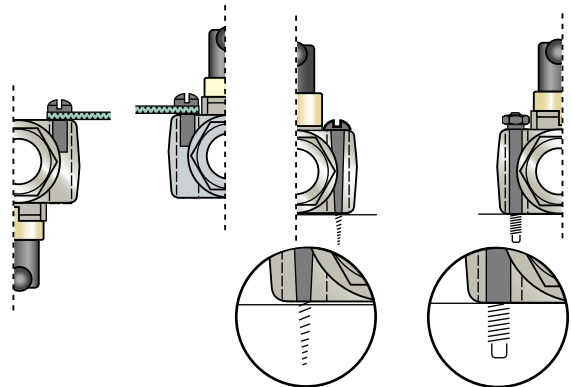
- bulkhead fixing
- complete valve below bulkhead

On frame:

- assemble with bolts

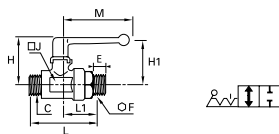
On wooden panel:

- assemble with woodscrews



0400 2/2 In-Line Ball Valve, Male BSPP Thread

Nickel-plated brass, NBR

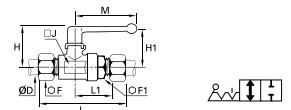


DN	C		E	F	H	H1	J	L	L1	M	Kg
4	G1/8	0400 04 10	7	14	35	29	14	45	25	48	0.094
7	G1/4	0400 07 13	9	19	38	31	19	60	36	48	0.166
10	G3/8	0400 10 17	11	24	45	43	24	70	43	69	0.252
13	G1/2	0400 13 21	12	27	47	44	27	78	45	69	0.324
18	G3/4	0400 18 27	12	38	63	54	39	90	50	108	0.714

Maximum working pressure: 40 bar

0411 2/2 In-Line Ball Valve with Connections for Use with Steel Tubing

Nickel-plated brass, NBR

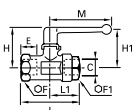


DN	ØD		F	F1	H	H1	J	L	L1	M	Kg
4	6	0411 04 06	14	19	38	31	19	76	30	48	0.173
6	8	0411 06 08	17	19	38	31	19	77	30	48	0.195
7	10	0411 07 10	19	19	38	31	19	78	31	48	0.210
10	12	0411 10 12	22	24	45	43	24	85	36	69	0.310

Maximum working pressure: 40 bar

0402 2/2 In-Line Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR



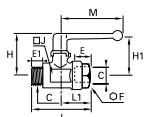
DN	C		E	F	F1	H	H1	L	L1	M	Kg
4	G1/8	0402 04 10	8	14	35	29	44	25	48	0.094	
7	G1/8	0402 07 10	8	19	19	38	31	51	27	48	0.165
	G1/4	0402 07 13	12	19	19	38	31	53	28	48	0.156
10	G3/8	0402 10 17	12	24	24	45	43	59	31	69	0.244
13	G1/2	0402 13 21	15	27	27	47	44	67	34	69	0.292
20	G3/4	0402 20 27	16.5	32	38	63	54	80	39	108	0.655
23	G1	0402 23 34	19	41	46	67	57	94	47	108	1.036
32	G1 1/4	0402 32 42*	21.5	55	60	97	115	112	59	180	2.467
	G1 1/2	0402 32 49*	22	55	60	97	115	120	62	180	2.340
40	G1 1/2	0402 40 49*	22	55	55	104		111	55	190	2.445
	G2	0402 40 48*	26	70	70	104		122	61	190	2.614

*Models with EC marking

Maximum working pressure: 40 bar

0401 2/2 In-Line Ball Valve, Male/Female BSPP Thread

Nickel-plated brass, NBR



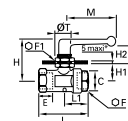
DN	C		E	E1	F	H	H1	J	L	L1	M	Kg
4	G1/8	0401 04 10	8	7	14	35	29	14	45	25	48	0.094
5	G1/8	0401 05 10	8	7	19	38	31	19	51	27	48	0.160
7	G1/4	0401 07 13	12	9	19	38	31	19	52	28	48	0.150
10	G3/8	0401 10 17	12	11	24	45	43	24	58	31	69	0.234
13	G1/2	0401 13 21	15	12	27	47	44	27	66	34	69	0.286
18	G3/4	0401 18 27	16.5	12	38	63	54	39	79	39	108	0.652
23	G1	0401 23 34	19	15	46	67	57	48	91	47	108	0.952
32	G1 1/4	0401 32 42*	21.5	18	60	97	115	55	113	59	108	2.385

*Models with EC marking

Maximum working pressure: 40 bar

0446 2/2 In-Line Panel-Mountable Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR



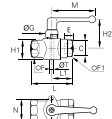
DN	C		E	F	F1	H	H1	H2	L	L1	M	T	Kg
4	G1/8	0446 04 10*	8	14	22	37	14	12	44	25	48	16.5	0.112
7	G1/4	0446 07 13	12	19	24	45	19	14	53	28	48	20.5	0.188
10	G3/8	0446 10 17	12	24	24	50	21	21	59	31	69	20.5	0.294
13	G1/2	0446 13 21	15	27	24	51	23	21	67	34	69	20.5	0.338

Maximum working pressure: 20 bar

*For G1/8 version, maximum panel thickness = 3 mm

6402 2/2 In-Line Ball Valve for Screw Fixing, Female BSPP Thread

Nickel-plated brass, NBR

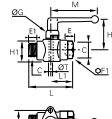


DN	C		E	F	F1	G	H1	H2	L	L1	M	N	T	Kg
4	G1/8	6402 04 10	8	14	14	18	18	30	44	25	48	25	470	0.132
7	G1/4	6402 07 13	12	19	19	19	24	31	53	28	48	31	580	0.216
10	G3/8	6402 10 17	12	24	24	20	30	45	59	31	69	31	580	0.324
13	G1/2	6402 13 21	15	27	27	20	34	47	67	34	69	34	6100	0.404
20	G3/4	6402 20 27	16.5	32	38	27	44	52	80	39	108	43	8125	0.830
23	G1	6402 23 34	19	41	46	27	53	56	94	47	108	51	8125	1.290

Maximum working pressure: 40 bar

6401 2/2 In-Line Ball Valve for Screw Fixing, Male/Female BSPP Thread

Nickel-plated brass, NBR

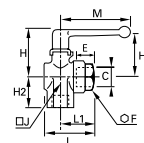


DN	C		E	E1	F	G	H1	H2	L	L1	M	N	T	Kg
4	G1/8	6401 04 10	8	7	14	18	18	30	45	25	48	25	470	0.127
7	G1/4	6401 07 13	12	9	19	19	24	31	52	28	48	31	580	0.212
10	G3/8	6401 10 17	12	11	24	20	30	45	58	31	69	31	580	0.306
13	G1/2	6401 13 21	15	12	27	20	34	47	67	34	69	34	6100	0.394

Maximum working pressure: 40 bar

0472 2/2 Right-Angled Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

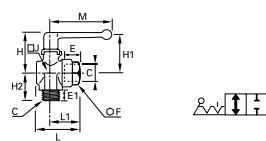


DN	C		E	F	H	H1	H2	J	L	L1	M	Kg
4	G1/8	0472 04 10	8	14	35	29	18	14	34	25	48	0.096
6	G1/4	0472 06 13	12	19	38	31	24	22	38	28	48	0.191
9	G3/8	0472 09 17	12	24	45	43	27	25	46	31	69	0.260
12	G1/2	0472 12 21	15	27	47	44	33	29	49	34	69	0.312
18	G3/4	0472 18 27	16.5	38	59	51	40	39	60	39	108	0.704
23	G1	0472 23 34	19	46	63	55	47	48	72	47	108	1.062

Maximum working pressure: 20 bar

0471 2/2 Right-Angled Ball Valve, Male/Female BSPP Thread

Nickel-plated brass, NBR

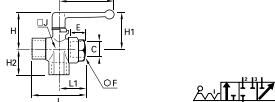


DN	C		E	E1	F	H	H1	H2	J	L	L1	M	Kg
4	G1/8	0471 04 10	8	7	14	35	29	19	14	34	25	48	0.096
6	G1/8	0471 06 10	8	7	19	38	31	22	22	37	27	48	0.182
	G1/4	0471 06 13	12	9	19	38	31	25	22	38	28	48	0.187
9	G3/8	0471 09 17	12	11	24	45	43	28	25	46	31	69	0.256
12	G1/2	0471 12 21	15	12	27	47	44	32	29	49	34	69	0.303
18	G3/4	0471 18 27	16.5	12	38	59	51	37	39	60	39	108	0.682
23	G1	0471 23 34	19	15	46	63	55	44	48	72	47	108	1.020

Maximum working pressure: 20 bar

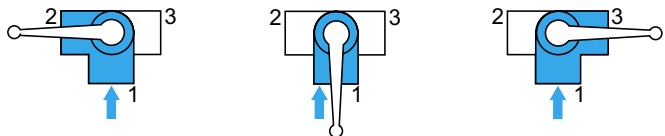
0482 3/3 Right-Angle Ported Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR



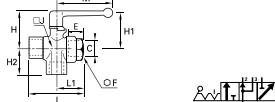
DN	C		E	F	H	H1	H2	J	L	L1	M	Kg
4	G1/8	0482 04 10	8	14	35	29	18	14	44	25	48	0.102
6	G1/4	0482 06 13	12	19	38	31	24	22	53	28	48	0.200
9	G3/8	0482 09 17	12	24	45	43	27	25	59	31	69	0.284
12	G1/2	0482 12 21	15	27	47	44	33	29	67	34	69	0.346
18	G3/4	0482 18 27	16.5	38	59	51	40	39	80	39	108	0.742
23	G1	0482 23 34	19	46	63	55	47	48	94	47	108	1.160

Maximum working pressure: 20 bar



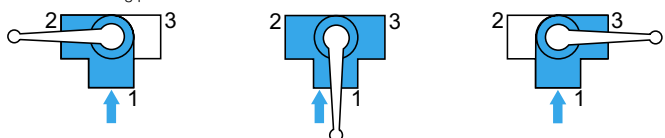
0483 3/3 Right-Angle Ported Ball Valve Without Closed Position, Female BSPP Thread

Nickel-plated brass, NBR



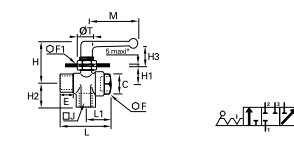
DN	C		E	F	H	H1	H2	J	L	L1	M	Kg
4	G1/8	0483 04 10	8	14	35	29	18	14	44	25	48	0.102
6	G1/4	0483 06 13	12	19	38	31	24	22	53	28	48	0.196
9	G3/8	0483 09 17	12	24	45	43	27	25	59	31	69	0.278
12	G1/2	0483 12 21	15	27	47	44	33	29	67	34	69	0.340
18	G3/4	0483 18 27	16.5	38	59	51	40	39	80	39	108	0.716
23	G1	0483 23 34	19	46	63	55	47	48	94	47	108	1.066

Maximum working pressure: 20 bar



0448 3/3 Panel-Mountable Right-Angled Ball Valve, Female BSPP Thread

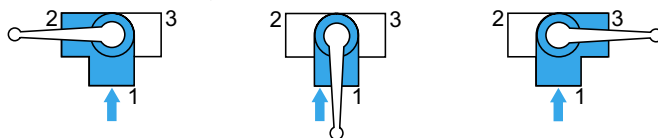
Nickel-plated brass, NBR



DN	C		E	F	F1	H	H1	H2	H3	J	L	L1	M	T	Kg
4	G1/8	0448 04 10*	8	14	22	37	14	18	12	14	44	25	48	16.5	0.126
6	G1/4	0448 06 13	12	19	24	45	19	24	14	22	53	28	48	20.5	0.230
9	G3/8	0448 09 17	12	24	27	50	21	27	21	25	59	31	69	20.5	0.328
12	G1/2	0448 12 21	15	24	27	51	23	33	21	29	67	34	69	20.5	0.392

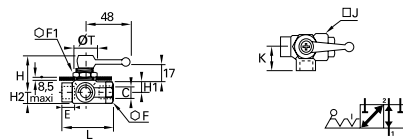
Maximum working pressure: 20 bar

*For G1/8 version: maximum panel thickness = 3 mm



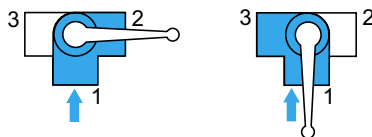
0452 3/2 Panel-Mountable Equal Plane Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR



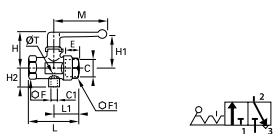
DN	C		E	F	F1	H	H1	H2	J	K	L	T	Kg
4	G1/8	0452 04 10	8	14	22	39	10	8	16	18	25	19	0.130
6	G1/4	0452 06 13	12	19	22	40	11	11	23	24	28	20	0.206

Maximum working pressure: 20 bar



0489 3/2 In-Line Threaded Exhaust Port Ball Valve, Female BSPP and Metric Thread

Nickel-plated brass, NBR

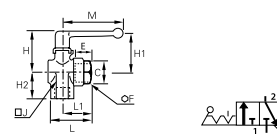


DN	C1	C		E	F	F1	H	H1	H2	L	L1	M	T	Kg
7	M5x0.8	G1/4	0489 07 13	12	24	24	46	43	17	59	31	69	2	0.270
10	M5x0.8	G3/8	0489 10 17	12	24	24	46	43	17	59	31	69	2	0.243
13	G1/8	G1/2	0489 13 21	15	27	27	47	44	24	67	34	69	2	0.310
18	G1/4	G3/4	0489 18 27	16.5	32	38	63	54	33	80	39	108	2.5	0.670
23	G1/4	G1	0489 23 34	19	41	46	67	57	37	94	47	108	3	1.050

Maximum working pressure: 40 bar

0462 3/2 Right-Angled Ball Valve with Vent, Female BSPP Thread

Nickel-plated brass, NBR

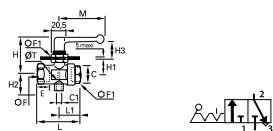


DN	C		E	F	H	H1	H2	J	L	L1	M	Kg
6	G1/8	0462 06 10	8	19	38	31	20	22	37	27	48	0.192
	G1/4	0462 06 13	12	19	38	31	24	22	38	28	48	0.185
9	G3/8	0462 09 17	12	24	45	43	27	25	46	31	69	0.261
12	G1/2	0462 12 21	15	27	47	44	33	29	49	34	69	0.311
18	G3/4	0462 18 27	16.5	38	59	51	40	39	60	39	108	0.698
23	G1	0462 23 34	19	46	63	55	47	48	72	47	108	1.066

Maximum working pressure: 20 bar

0449 3/2 Panel-Mountable In-Line Threaded Exhaust Port Ball Valve, Female BSPP and Metric Thread

Nickel-plated brass, NBR

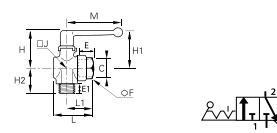


DN	C1	C		E	F	F1	H	H1	H2	H3	L	L1	M	T	Kg
7	M5x0.8	G1/4	0449 07 13	12	24	24	50	20	17	21	59	31	69	2.5	0.313
10	M5x0.8	G3/8	0449 10 17	12	24	24	50	20	17	21	59	31	69	2.5	0.291
13	G1/8	G1/2	0449 13 21	15	27	24	52	23	24	21	67	34	69	4	0.352

Maximum working pressure: 20 bar

0461 3/2 Right-Angled Ball Valve with Vent, Male/Female BSPP Thread

Nickel-plated brass, NBR

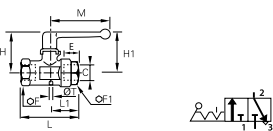


DN	C		E	E1	F	H	H1	H2	J	L	L1	M	Kg
6	G1/8	0461 06 10	8	7	19	38	31	20	22	37	27	48	0.182
	G1/4	0461 06 13	12	9	19	38	31	24	22	38	28	48	0.186
9	G3/8	0461 09 17	12	11	24	45	43	27	25	46	31	69	0.257
12	G1/2	0461 12 21	15	12	27	47	44	33	29	49	34	69	0.304
18	G3/4	0461 18 27	16.5	12	38	59	51	40	39	60	39	108	0.648

Maximum working pressure: 20 bar

0469 3/2 In-Line Vented Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

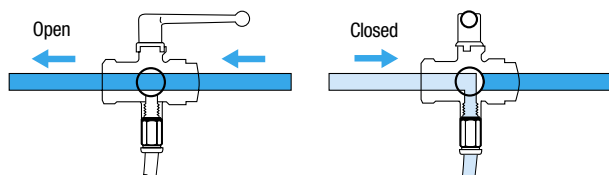


DN	C		E	F	F1	H	H1	L	L1	M	T	Kg
4	G1/8	0469 04 10	8	14	14	35	29	44	25	48	1.5	0.092
7	G1/4	0469 07 13	12	24	24	46	43	59	31	70	2	0.268
10	G3/8	0469 10 17	12	24	24	46	43	59	31	70	2	0.246
13	G1/2	0469 13 21	15	27	27	47	44	67	34	70	2	0.294
18	G3/4	0469 18 27	16.5	32	38	63	54	80	39	108	2.5	0.668
23	G1	0469 23 34	19	41	46	67	57	94	47	108	3	1.026

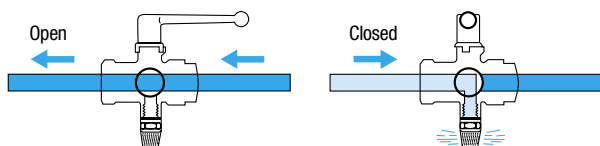
Maximum working pressure: 40 bar

Operation of Vented Ball Valves

With vent connected to a tube = collection of purged media

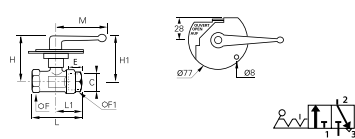


With vent connected to a silencer = noiseless discharge to atmosphere



0432 2/2 In-Line Lockable Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

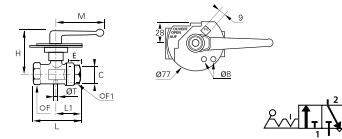


DN	C		E	F	F1	H	H1	L	L1	M	Kg
4	G1/8	0432 04 10	8	19	19	59	54	51	27	69	0.415
7	G1/4	0432 07 13	12	19	19	59	54	59	28	69	0.396
10	G3/8	0432 10 17	12	24	24	60	55	59	31	69	0.460
13	G1/2	0432 13 21	15	27	27	62	57	67	34	69	0.510
20	G3/4	0432 20 27	16.5	32	38	66	56	80	39	108	0.800
23	G1	0432 23 34	19	41	46	70	59	94	47	108	1.186

Maximum working pressure: 40 bar
Handle is not removable.
Fixed and mobile plates: zinc-plated steel.

0437 3/2 In-line Vented 3-Point Lockable Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

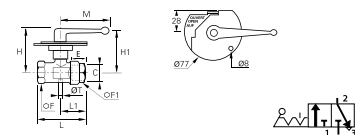


DN	C		E	F	F1	H	L	L1	M	T	Kg
7	G1/4	0437 07 13	12	24	24	60	59	32	69.5	2	0.476
10	G3/8	0437 10 17	12	24	24	60	60	32	69.5	2	0.447
13	G1/2	0437 13 21	15	27	27	60	67.5	34.5	69.5	2	0.510
18	G3/4	0437 18 27	16.5	32	38	69.5	80	39.5	108.5	2.5	0.820
23	G1	0437 23 34	19	41	46	73	94.5	47.5	108.5	3	1.192

Maximum working pressure: 40 bar
Handle is not removable
Locking plates are zinc-plated steel

0439 3/2 In-line Vented Lockable Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

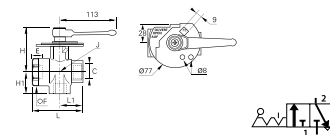


DN	C		E	F	F1	H	H1	L	L1	M	T	Kg
4	G1/8	0439 04 10	8	19	19	59	54	51	27	69	2	0.410
7	G1/4	0439 07 13	12	24	24	60	55	59	31	69	2	0.480
10	G3/8	0439 10 17	12	24	24	60	55	59	31	69	2	0.460
13	G1/2	0439 13 21	15	27	27	62	57	67	34	69	2	0.514
18	G3/4	0439 18 27	16.5	32	38	66	56	80	39	108	2.5	0.810
23	G1	0439 23 34	19	41	46	70	59	94	47	108	3	1.185

Maximum working pressure: 40 bar
Handle is not removable, locking plates are zinc-plated steel.

0438 3/2 Right-Angled 3-Point Lockable Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR

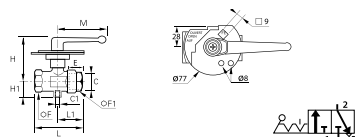


DN	C		E	F	H	H1	J	L	L1	Kg
9	G3/8	0438 09 17	12	38	76	34	39	73	35	0.970
12	G1/2	0438 12 21	15	38	76	37	39	78	38	0.947
18	G3/4	0438 18 27	16.5	38	76	40	39	80	40	0.905
23	G1	0438 23 34	19	46	80	47	48	94	47	1.295

Maximum working pressure: 20 bar
Fixed plate: zinc-plated steel, mobile plate: zinc-plated steel
Removable handle: where the handle is obstructed in its movement, it can be refitted opposite the original position.

0436 3/2 In-Line 3-Point Lockable Ball Valve with Threaded Exhaust Port, Female BSPP and Metric Thread

Nickel-plated brass, NBR



DN	C1	C		E	F	F1	H	H1	L	L1	M	Kg
10	M5x0.8	G3/8	0436 10 17	12	24	24	60	17	60	32	69	0.475
13	G1/8	G1/2	0436 13 21	15	27	27	60	24.5	67.5	34.5	69	0.500
18	G1/4	G3/4	0436 18 27	16.5	32	38	69.5	33	80	39.5	108	0.850
23	G1/4	G1	0436 23 34	19	41	46	73.5	47.5	94.5	47.5	108.5	1.215

Maximum working pressure: 40 bar
Handle is not removable.
Fixed and mobile plates: zinc-plated steel

Universal Light Series



Suitable for small, compact and resistant spaces, these ball valves are easy to operate.

Technical Characteristics

- **Compatible Fluids:** Industrial fluids
- **Working Pressure:** Vacuum to 12 bar
- **Working Temperature:** -20°C to +80°C

Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.

Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).

Advantages

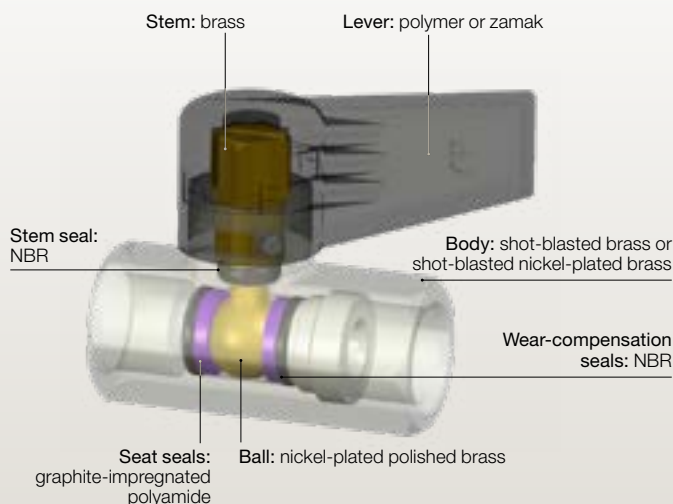
- Compactness
- Corrosion resistance due to chemical nickel plating
- Automatic compensation of seal wear
- Repositionable and exchangeable handles

Regulations

- PED
- REACH
- RoHS

Component Materials

Silicone-free



0492 2/2 In-Line Ball Valve, Female BSPP Thread

Nickel-plated brass, NBR



DN	C		E	F	H	L	L1	M	Kg
4	G1/4	0492 04 13	9	17	34	39.5	17	35	0.073
7	G3/8	0492 07 17	11	22	38	45	20	43	0.128
10	G1/2	0492 10 21	12	24	44	54	25	50	0.150
13	G3/4	0492 13 27	14	30	46	62	28	50	0.240

Technical polymer handle

0491 2/2 In-Line Ball Valve, Male/Female BSPP Thread

Nickel-plated brass, NBR

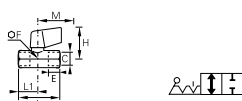


DN	C		E	E1	F	H	L	L1	M	Kg
4	G1/4	0491 04 13	9	7	17	34	39.5	17	35	0.070
7	G3/8	0491 07 17	11	8	22	38	45	20	43	0.124
10	G1/2	0491 10 21	12	10	24	44	53	24	50	0.160
13	G3/4	0491 13 27	14	12	30	46	59	25	50	0.238

Technical polymer handle

0492..64 2/2 In-Line Ball Valve, Short Handle, Female BSPP Thread

Nickel-plated brass, NBR

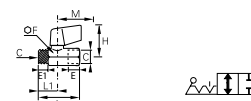


DN	C		E	F	H	L	L1	M	Kg
4	G1/4	0492 04 13 64	9	17	36	39.5	17	25	0.090

Short handle in zamak

0491..64 2/2 In-Line Ball Valve, Short Handle, Male/Female BSPP Thread

Nickel-plated brass, NBR

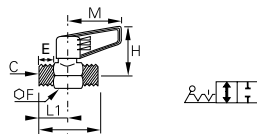


DN	C		E	E1	F	H	L	L1	M	Kg
4	G1/4	0491 04 13 64	9	7	17	36	39.5	17	25	0.092

Short handle in zamak

0490 2/2 In-Line Ball Valve, Male BSPP Thread

Nickel-plated brass, NBR

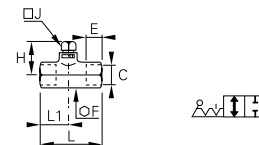


DN	C		E	F	H	L	L1	M	Kg
4	G1/4	0490 04 13	7	17	34	39	17	35	0.070
7	G3/8	0490 07 17	8	22	38	44	20	43	0.109
10	G1/2	0490 10 21	10	24	44	53	24	50	0.160
13	G3/4	0490 13 27	12	30	46	59	25	50	0.233

Technical polymer handle

0497 2/2 Ball Valve, Square Stem, Female BSPP Thread

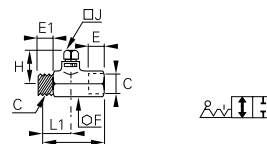
Brass, NBR



DN	C		E	F	H	J	L	L1	Kg
4	G1/4	0497 04 13	9	17	25	7	39	17	0.063
7	G3/8	0497 07 17	11	22	26	7	45	20	0.122
10	G1/2	0497 10 21	12	24	29	10	54	25	0.141
13	G3/4	0497 13 27	14	30	30	10	62	28	0.230

0496 2/2 Ball Valve, Square Stem, Male/Female BSPP Thread

Brass, NBR



DN	C		E	E1	F	H	J	L	L1	Kg
4	G1/4	0496 04 13	7	9	17	25	7	39	17	0.065
7	G3/8	0496 07 17	8	11	22	26	7	45	20	0.118
10	G1/2	0496 10 21	10	12	24	29	10	53	24	0.150
13	G3/4	0496 13 27	12	14	30	30	10	59	28	0.222



Compliant with DVGW certification, standardized threads, these valves ensure the transport of gas and water.

Technical Characteristics

- **Compatible Fluids:** Compressed air, water, gas
- **Working Pressure:** 1/4" to 2": 0 to 40 bar
- **Working Temperature:** -50°C to +170°C

Reliable performance is dependent upon the type of fluid conveyed.

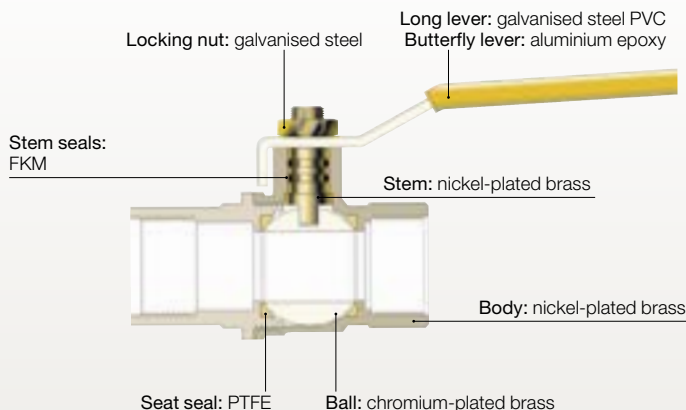
Products have been tested at -50°C in static sealing and after 5 operations for a leak rate < 0,05Nl/h.

Advantages

- Stem prevented from being ejected in the event of overpressure
- Two stem seal to prevent leakage
- Corrosion resistance, increased chemical compatibility thanks to chemical nickel plating
- Can be operated at very low temperatures: -50°C

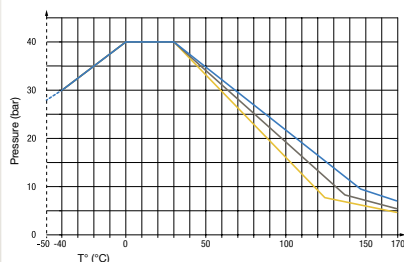
Component Materials

Silicone-free

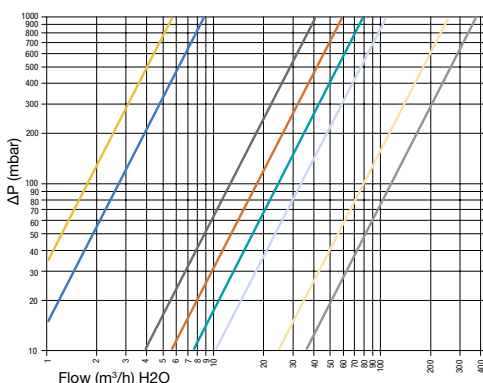


Working Pressure and Temperature

Pressure - Temperature



Pressure Drop

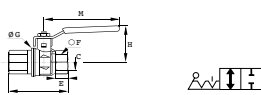


Regulations

Industrial
DI: 97/23/EC
(PED B+D module EC 1115)
Water
DVGW: W 570-1
DIN EN 13228
BGA KTW
DVGW: W270
Gas
DIN EN 33

BVG4-L 2/2 In-Line Ball Valve, Female BSPP Thread

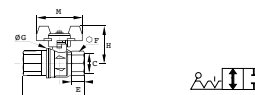
Nickel-plated brass



DN	C		E	F	G	H	L	M	Kg
8	G1/4	BVG4-1/4L	12	17	25	38	50	82	0.150
10	G3/8	BVG4-3/8L	12	20	25	38	60	82	0.161
15	G1/2	BVG4-1/2L	15.5	25	32.5	43	75	100	0.256
20	G3/4	BVG4-3/4L	17	32	39	50	80	120	0.397
25	G1	BVG4-1L	21	41	47.5	54	90	120	0.641
32	G1 1/4	BVG4-1.1/4L	23	50	59	73	110	158	0.980
40	G1 1/2	BVG4-1.1/2L	23	55	71.5	79	120	158	1.205
50	G2	BVG4-2L	26.5	70	86	86	140	158	1.960

BVGT4-L 2/2 In-Line Ball Valve, Female BSPP Thread, Butterfly Handle

Nickel-plated brass



DN	C		E	F	G	H	L	M	Kg
8	G1/4	BVGT4-1/4L	12	17	25	39	50	50	0.137
10	G3/8	BVGT4-3/8L	12	20	25	39	60	50	0.129
15	G1/2	BVGT4-1/2L	15.5	25	32.5	43	75	50	0.231
20	G3/4	BVGT4-3/4L	17	32	39	47	80	60	0.348
25	G1	BVGT4-1L	21	41	47.5	51	90	60	0.546

Compact lever

Standard Series



For common industrial applications, these ball valves are equipped with fluoropolymer seals and a lockable system.

Technical Characteristics

Model	Standard and Lockable Series	Compact Series
Compatible Fluids	Compressed air Other fluids : see compatibility chart at the end of this chapter	
Working Pressure	0 to 40 bar up to 2" 0 to 30 bar over 2" excepted BVG4P-LOCK and BVG4-LOCK: 0 to 14 bar	0 to 30 bar
Working Temperature	-20°C to +170°C Excepted BVG4P-LOCK: -10°C to +100°C	-10°C to +90°C

Reliable performance is dependent upon the type of fluid conveyed.

Advantages

- Long or butterfly handle
- Full fluid flow
- A lockable version for safety in use
- Corrosion resistance thanks to chemical nickel plating

Component Materials

Silicone-free

Long lever: Geomet® plated steel
Compact Series lever: technical polymer
Butterfly lever: Aluminium

Locking system: treated steel

Stem seal: FPM o-rings

Locking nut and Locking screw: Zinc plated steel

Stem: nickel-plated brass

Body: nickel-plated or chromium-plated shot-blasted brass

Seat seals: PTFE

Ball: chromium-plated brass

4902 (G2-G4),
BVG4-C, BVG4-LOCK: Double stem seal: FPM

Regulations

Industrial:

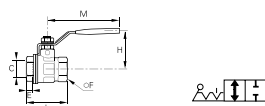
• PED

• RoHS

• REACH

4902 2/2 Standard In-Line Ball Valve, Female BSPP Thread

Nickel-plated brass, PTFE



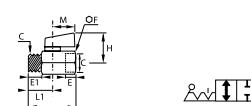
DN	C		E	F	H	L	M	PN	Kg
8	G1/4	4902 10 13	9	17	38	39	82	40	0.131
10	G3/8	4902 10 17	9	20	38	39	82	40	0.117
15	G1/2	4902 15 21	11	25	43	50	100	40	0.204
20	G3/4	4902 20 27	12	31	50	54	120	40	0.329
25	G1	4902 25 34	14	38	54	67	120	40	0.468
32	G1 1/4	4902 32 42*	15	48	73	77	158	30	0.770
40	G1 1/2	4902 40 49*	17	54	79	90	158	30	1.040
50	G2	4902 50 48*	19	66	86	106	158	30	1.760
65	G2 1/2	4902 65 47*	22	85	132	136	255	30	4.500
80	G3	4902 80 46*	25	99	140	157	255	30	5.840
100	G4	4902 01 45*	29	125	154	191	255	30	9.040

*Models with EC marking

Model from 2 1/2": double stem seal in FPM
Working temperature: -20°C to +170°C

4991 2/2 Standard Compact In-Line Ball Valve, Male/Female BSPP Thread

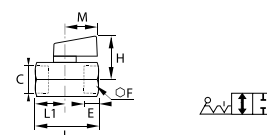
Chromium brass, PTFE



DN	C		E	E1	F	H	L	L1	M	Kg
6	G1/8	4991 00 10	10	10	21	30	41.5	10	24	0.089
8	G1/4	4991 00 13	11	11	21	30	41.5	11	24	0.082
	G3/8	4991 00 17	11	11	21	30	41.5	10.5	24	0.087
10	G1/2	4991 00 21	13	13	25	32	49	12.5	24	0.134

4992 2/2 Standard Compact In-Line Ball Valve, Female BSPP Thread

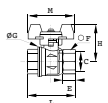
Chromium brass, PTFE



DN	C		E	F	H	L	L1	M	Kg
6	G1/8	4992 00 10	10	21	30	41.5	10	24	0.111
8	G1/4	4992 00 13	11	21	30	41.5	11	24	0.100
	G3/8	4992 00 17	11	21	30	41.5	10.5	24	0.094
10	G1/2	4992 00 21	13	25	32	49	12.5	24	0.142

BVGT4-C 2/2 Standard In-Line Ball Valve, Female BSPP Thread, Butterfly Handle

Nickel-plated brass

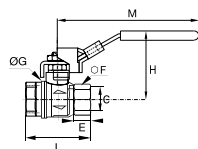


DN	C		E	F	G	H	L	M	Kg
8	G1/4	BVGT4-1/4C	9	17	25	40	39	50	0.130
10	G3/8	BVGT4-3/8C	9	20	25	40	39	50	0.120
15	G1/2	BVGT4-1/2C	11	25	32.5	44	50	50	0.180
20	G3/4	BVGT4-3/4C	12	31	39	49	54	50	0.265
25	G1	BVGT4-1C	14	38	47.5	53	67	50	0.390

Compact lever

BVG4-LOCK 2/2 In-Line Lockable Ball Valve, Female BSPP Thread

Nickel-plated brass



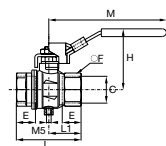
DN	C		E	F	H	L	M	Kg
8	G1/4	BVG4-1/4LOCK	9	17	46	39	96	0.150
10	G3/8	BVG4-3/8LOCK	9	20	46	39	96	0.150
15	G1/2	BVG4-1/2LOCK	11	25	51	50	96	0.255
19	G3/4	BVG4-3/4LOCK	12	31	59	54	117	0.390
25	G1	BVG4-1LOCK	14	38	63	67	117	0.590

Double stem seal in FPM

Working temperature -40°C to +170°C

BVG4P-LOCK 3/2 In-Line Lockable Vented Ball Valve, Female BSPP Thread

Nickel-plated brass



DN	C		E	F	H	L	L1	M	Kg
8	G1/4	BVG4P-1/4LOCK	12	17	47.5	45	22.5	96	0.155
10	G3/8	BVG4P-3/8LOCK	12	20	47.5	45	22.5	96	0.172
15	G1/2	BVG4P-1/2LOCK	15.5	25	52	59	29.5	96	0.239
20	G3/4	BVG4P-3/4LOCK	17	31	59.5	64	32	117	0.371
25	G1	BVG4P-1LOCK	21	40	63.5	81	40.5	117	0.581

Working pressure: 14 bar

Working temperature: -10°C to +100°C

Stainless Steel Series



For severe food or industrial process applications, a series with a 316L stainless steel body that withstands aggressive environments, as well as high pressures and temperatures.

Technical Characteristics

Compatible Fluids	Types 4810, 4812 and 4832	Type 0465
	All fluids	All fluids
Working Pressure	0 to 65 bar (see details in product tables below)	Vacuum to 20 bar
Working Temperature	-20°C to +150°C	-20°C to +120°C

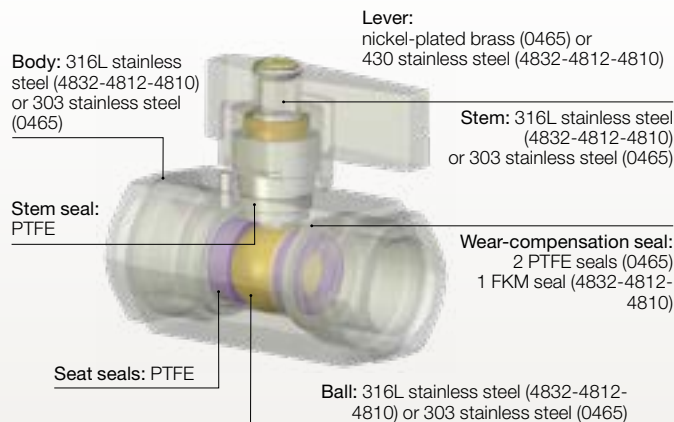
Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.

Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).

Advantages

- Chemical compatibility
- High temperature operation: up to +150°C
- 3 straight versions :
 - Compact type cannot be disassembled
 - 3-piece can be disassembled
 - Light series for more compactness

Component Materials



Regulations

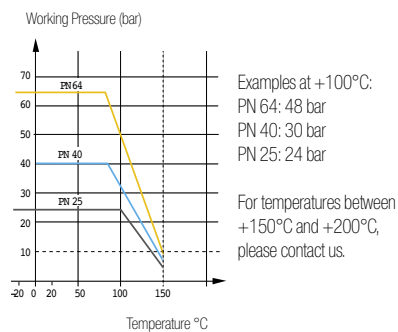
Industrial:

- PED
- RoHS

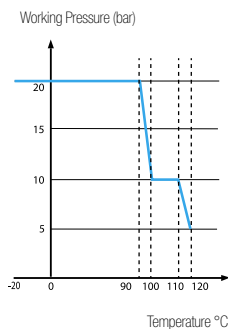
- REACH

Pressure and Temperature Resistance

Version 4810, 4812 and 4832

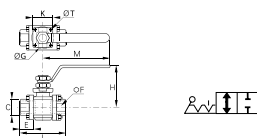


Version 0465



4832 2/2 In-Line 3-Piece Ball Valve with Fixing Plate, Female BSPP Thread

Stainless steel 316L, PTFE

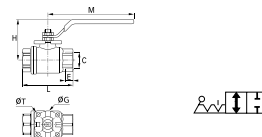


DN	C		NP	E	F	G	H	K	L	M	T	Kg
10	Rp1/4	4832 10 13**	64	18	22	36	50	36	57	110.5	5.5	0.272
15	Rp1/2	4832 15 21	64	20.5	27	36	64	36	65	131.5	6	0.478
20	Rp3/4	4832 20 27	40	22.5	32	42	68	42	76	131.5	5.5	0.568
25	Rp1	4832 25 34	40	27	41	42	78.5	42	92	174.5	6	1.229
32	Rp1 1/4	4832 32 42*	25	30	50	42	83.5	42	106.5	174.5	5.5	1.530
40	Rp1 1/2	4832 40 49*	25	31	55	50	100	50	116	250.5	6.5	2.146
50	Rp2	4832 50 48*	25	36	70	50	107	50	136	250.5	6.5	3.140

*Models with EC marking **
 Without Fixing Plate
 Threads conformed to ISO 7/1

4812 2/2 In-Line Ball Valve with Fixing Plate, Female BSPP Thread

Stainless steel 316L, PTFE

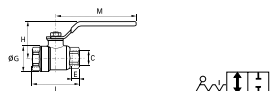


DN	C		NP	E	G	H	L	M	T	Kg
10	Rp1/4	4812 10 13	140	10	36	50	55	110	5.5	0.263
	Rp3/8	4812 10 17	140	11	36	50	55	110	5.5	0.254
15	Rp1/2	4812 15 21	140	15	36	53	66	110	5.5	0.336
20	Rp3/4	4812 20 27	105	16	42	67	79	130	5.5	0.574
25	Rp1	4812 25 34	105	19	42	79	93	175	5.5	1.010
32	Rp1 1/4	4812 32 42*	64	21	42	83	100	175	5.5	1.337
40	Rp1 1/2	4812 40 49*	64	21	50	100	110	250	6.5	2.161
50	Rp2	4812 50 48*	64	26	70	107	131	250	6.5	3.262

*Models with EC marking
 Threads conformed to ISO 7/1

4810 2/2 In-Line Ball Valve, Female BSPP Thread

Stainless steel 316L, PTFE

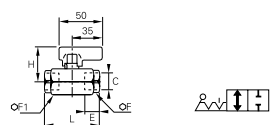


DN	C		E	G	H	L	M	Kg
8	G1/4	4810 08 13	10	30	44.5	53.5	110.5	0.206
10	G3/8	4810 10 17	10	30	44.5	53.5	110.5	0.190
15	G1/2	4810 15 21	13	32.5	47	60	110.5	0.245
20	G3/4	4810 20 27	14	40	54.5	70	131.5	0.418
25	G1	4810 25 34	17	49	58.5	79	131.5	0.648

Threads conformed to ISO 228/1-G

0465 2/2 In-Line Light Series Ball Valve, Female BSPP Thread

Stainless steel 303, PTFE



DN	C		E	F	F1	H	L	Kg
4	G1/4	0465 04 13	13	19	24	36	50	0.226
7	G3/8	0465 07 17	13	24	27	39	55	0.278
10	G1/2	0465 10 21	16	27	30	40	62	0.322

Silicone-free

Threads conformed to ISO 228/1-G

High Pressure Series



Designed for applications up to 300 bar, these carefully manufactured ball valves guarantee safe operation.

Technical Characteristics

- **Compatible Fluids:** Compressed air, lubricants, gases
- **Working Pressure:** Vacuum to 300 bar
- **Working Temperature:** -15°C to +80°C

Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.

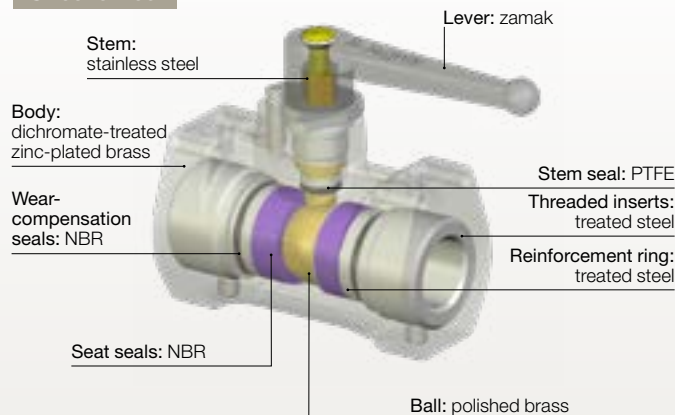
Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).

Advantages

- Low operating torque, even at high pressure
- Repositionable and exchangeable handles
- Robust design resistant to high tightening torques
- Fixing screws for through-bulkhead mounting

Component Materials

Silicone-free



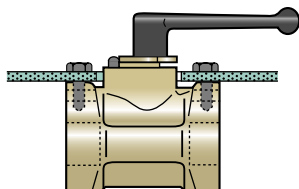
Regulations

- PED
- REACH
- RoHS

Installation Options

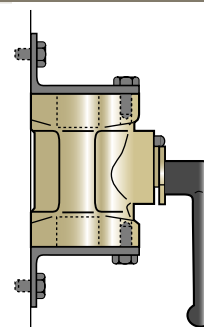
Bulkhead Mounting

Through bulkhead with screws



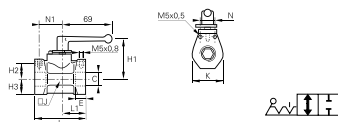
Surface Mounting

With brackets and screws



4402 2/2 In-Line High Pressure Ball Valve, Female BSP Thread

Treated brass, NBR



DN	C		E	H1	H2	H3	J	K	L	L1	N	N1	Kg
7	G1/4	4402 07 13	12	50	13	15	30	30	58	25	15	20	0.402
10	G3/8	4402 10 17	12	54	23	19	36	39	72	36	20	30	0.722
13	G1/2	4402 13 21	15	56	23	21	40	42	79	36	20	30	0.870

Mini Series



Equipped with push-in connections and a technical polymer body, this series combines lightness on the equipment, speed of installation.

Technical Characteristics

- **Compatible Fluids:** Compressed air, neutral gases
- **Working Pressure:** Vacuum to 10 bar
- **Working Temperature:** -20°C to +80°C

Tightening Torques	Threads	G1/8	G1/4	G3/8	G1/2
	daN.m	0.8	1.2	3	3.5

Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.

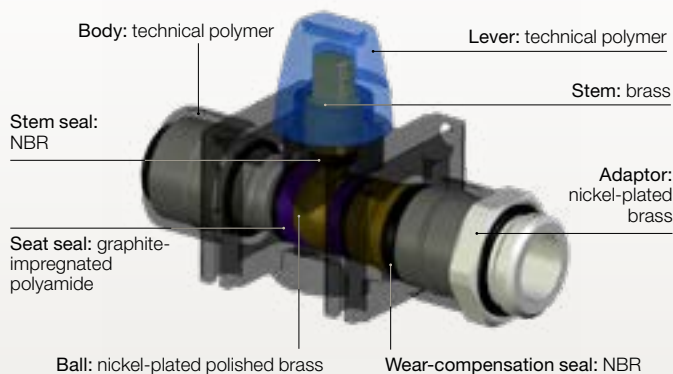
Guaranteed for use with a vacuum of 755 mm Hg (99 % vacuum).

Advantages

- Lightweight and compact
- LF 3000® push-in connections, static and dynamic sealing
- Automatic seal wear compensation for long-term reliability
- Ultra-compact handle, easy operation, screwdriver slot for difficult access

Component Materials

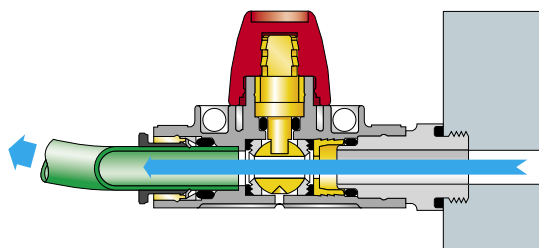
Silicone-free



Installation Options

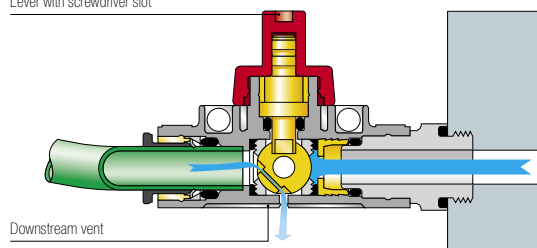
Vented Valve, Open Position

3/2 model with vent



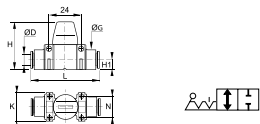
Vented Valve, Closed Position

Lever with screwdriver slot



7910 2/2 In-Line Mini-Ball Valve

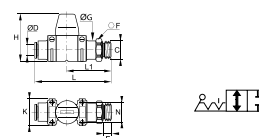
Technical polymer, NBR



ØD		G	H	H1	K	L	N	Kg
4	7910 04 00	15	37	7.5	22	51	16	0.039
6	7910 06 00	15	37	7.5	22	52	16	0.034
8	7910 08 00	15	37	7.5	22	52	16	0.025
10	7910 10 00	20	43	11	30	66	22	0.060
12	7910 12 00	20	43	11	30	66	22	0.040

7911 2/2 In-Line Mini-Ball Valve, Male BSPP Thread

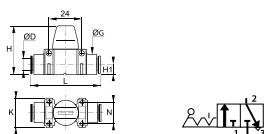
Technical polymer, Nickel-plated brass, NBR



ØD	C		E	F	G	H	K	L	L1	N	Kg
6	G1/8	7911 06 10	5	13	14	37	22	62	37	16	0.045
8	G1/4	7911 08 13	5.5	16	17.5	37	22	61	35	16	0.040
10	G3/8	7911 10 17	5.5	20	22	43	30	74	41	22	0.075
12	G1/2	7911 12 21	7.5	24	26	43	30	75	42	22	0.075

7913 3/2 In-Line Mini-Ball Valve with Vent

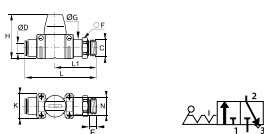
Technical polymer, NBR



ØD		G	H	H1	K	L	N	Kg
4	7913 04 00	15	37	7.5	22	51	16	0.040
6	7913 06 00	15	37	7.5	22	52	16	0.035
8	7913 08 00	15	37	7.5	22	52	16	0.025
10	7913 10 00	20	43	11	30	66	22	0.060
12	7913 12 00	20	43	11	30	66	22	0.045

7914 3/2 In-Line Mini-Ball Valve with Vent, Male BSPP Thread

Technical polymer, Nickel-plated brass, NBR



ØD	C		E	F	G	H	K	L	L1	N	Kg
6	G1/8	7914 06 10	5	13	14	37	22	62	37	16	0.045
8	G1/4	7914 08 13	5.5	16	17.5	37	22	61	35	16	0.040
10	G3/8	7914 10 17	5.5	20	22	43	30	74	41	22	0.058
12	G1/2	7914 12 21	7.5	24	26	43	30	75	42	22	0.075

7000 Joining Clips

Technical polymer



ØD		Kg
4	7000 00 04	0.001
6-8	7000 00 05	0.005
10-12	7000 00 06	0.001

Complementary Products for Mini Series

LF 3000®

PA Tubing

PU Tubing

Flow Regulators





As an integral part of the LIQUIfit® range, these ball valves are designed for water and beverage handling circuits. FDA, NSF and WQA standards are a guarantee of safety for the health of consumers. These ball valves offer sealing and cleanliness to the equipment.

Technical Characteristics

- **Compatible Fluids:** Water, drinks, beverages, industrial water, CO₂, inert gases
- **Working Pressure:** 0 to 10 bar at 20°C
- **Working Temperature:** -15°C to +100°C

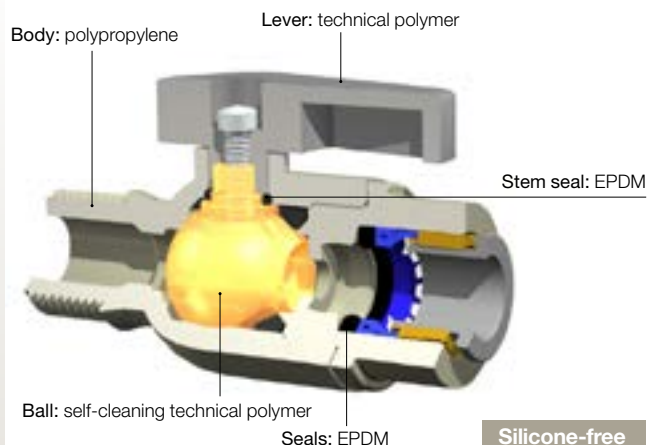
Advantages

- Technical polymer body
- Full flow self-sealing ball maintains the cleanliness of the circuit
- LIQUIfit® push-in connection, static and dynamic sealing. No pumping effect. Resistant to water hammer.

Regulations

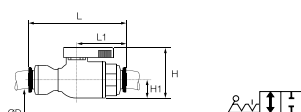
- **FDA:** 21 CFR
- **NSF** 51

Component Materials



4020 2/2 In-Line Ball Valve

Polypropylene with fibreglass, EPDM

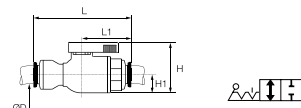


ØD			H	H1	L	L1	Kg
6	4020 06 00WP2		36	13	57	27	0.019
8	4020 08 00WP2		36	13	60	27	0.020
10	4020 10 00WP2		36	13	70	33	0.023
12	4020 12 00WP2		36.5	13	88	43	0.034

4020 2/2 In-Line Ball Valve

Inch

Polypropylene with fibreglass, EPDM

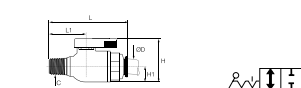


ØD			H	H1	L	L1	Kg
1/4	4020 56 00WP2		36	13	57	27	0.015
3/8	4020 60 00WP2		36	13	70	33	0.028

4021 2/2 In-Line Ball Valve, Male NPTF Thread

Inch

Polypropylene with fibreglass, EPDM

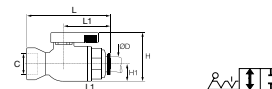


ØD	C		H	H1	L	L1	Kg
1/4	NPTF1/4	4021 56 14WP2	36	13	61	31	0.029
3/8	NPTF3/8	4021 60 18WP2	36	13	64	33.5	0.028

4023 2/2 In-Line Ball Valve, Female NPTF Thread

Inch

Polypropylene with fibreglass, EPDM

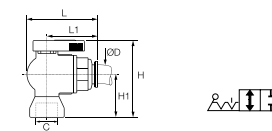


ØD	C		H	H1	L	L1	Kg
3/8	NPTF3/8	4023 60 18WP2	36	13	64	33.5	0.028

4022 2/2 Right-Angled Ball Valve, Female NPTF Thread

Inch

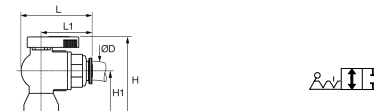
Polypropylene with fibreglass, EPDM



ØD	C		H	H1	L	L1	Kg
1/4	NPTF1/4	4022 56 14WP2	52	29	44	31	0.016

4024 2/2 Right-Angled Ball Valve

Polypropylene with fibreglass, EPDM



ØD			H	H1	L	L1	Kg
6	4024 06 00WP2		54	31	41	27	0.020
10	4024 10 00WP2		61	38	47	33	0.024

Needle Valves



Made of nickel-plated brass or stainless steel, the needle valves are designed for applications that require manual flow adjustment.

Technical Characteristics

	Brass	Stainless Steel
Compatible Fluids	Compressed air, water, industrial fluids, etc. Other fluids: contact us	Many fluids
Working Pressure	0 to 120 bar	0 to 400 bar
Working Temperature	-20°C to +100°C (except model 0510)	-20°C to +180°C

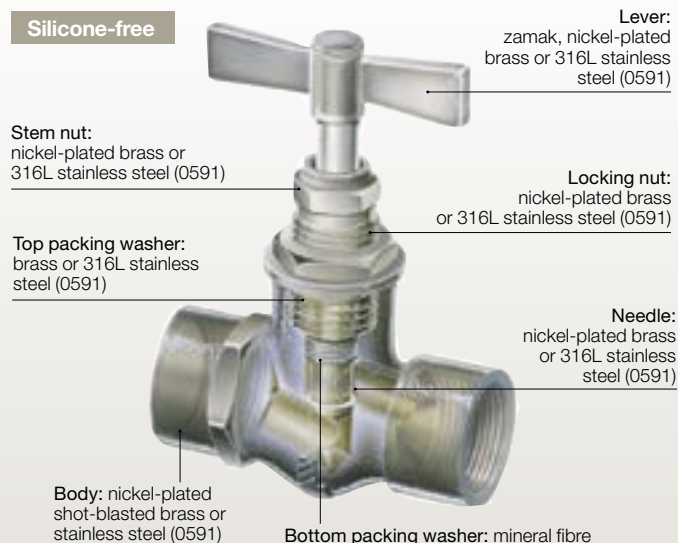
Reliable performance is dependent upon the type of fluid conveyed.

Advantages

- Manual flow adjustment
- Numerous valve and safety accessory configurations

Component Materials

Silicone-free

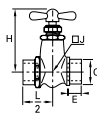


Regulations

- PED
- REACH
- RoHS

0502 In-Line Needle Valve, Female BSPP Thread

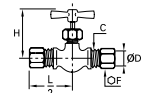
Nickel-plated brass



DN	C		E	H	H max	J	L/2	Kg
4	G1/8	0502 04 10	9	56	50	17	23	0.133
	G1/4	0502 04 13	11	56	50	17	23	0.120
6	G3/8	0502 06 17	12	67	60	26	0.171	
9	G3/8	0502 09 17	12	82	70	33	0.426	

0510 In-Line Needle Valve with Compression Connections

Nickel-plated brass



DN	ØD	C		F	H min	H max	L/2	Kg
4	6	M10x1	0510 04 06	13	42	46	29	0.083
8	8	M12x1	0510 05 08	14	42	46	30	0.083
5	10	M16x1.5	0510 05 10	19	42	46	31	0.134

The needle is sealed by an O-ring.

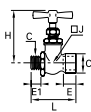
Maximum operating pressure: Ø4: 100 bar, Ø5: 60 bar

Working temperature: -15°C to +70°C

Tightening torques: please refer to the Compression Fittings chapter of this catalogue.

0501 In-Line Needle Valve, Male/Female BSPP Thread

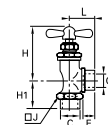
Nickel-plated brass



DN	C		E	E1	H	H max	J	L	Kg
4	G1/8	0501 04 10	9	7	56	50	17	44	0.118
	G1/4	0501 04 13	11	9.5	56	50	17	46	0.115
6	G3/8	0501 06 17	12	9.5	67	60	48	0.158	

0532 Right-Angle Needle Valve, Female BSPP Thread

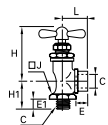
Nickel-plated brass



DN	C		E	H min	H max	H1	J	L	Kg
4	G1/8	0532 04 10	9	46	52	46	19	17	0.093
	G1/4	0532 04 13	11	46	52	46	21	17	0.087
6	G1/4	0532 06 13	11	55	63	55	26	22	0.171

0531 Right-Angle Needle Valve, Male/Female BSPP Thread

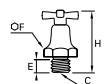
Nickel-plated brass



DN	C	E	E1	H min	H max	H1	J	L	Kg
4	G1/8 0531 04 10	7	9	46	52	46	19	17	0.082
	G1/4 0531 04 13	9.5	11	46	52	46	21	17	0.090
6	G1/4 0531 06 13	9.5	11	55	63	55	25	22	0.155
	G3/8 0531 06 17	9.5	12	55	63	55	25	22	0.153
10	G1/2 0531 10 21	13	16	62	72	62	34	26	0.329

0562 Needle Drain Valve, Male BSPP and Metric Thread

Brass



DN	C	E	F	H min	H max	Kg
4	G1/8 0562 05 10	8	16	36	40	0.032
	G1/4 0562 05 13	10	19	38.5	42.5	0.040
5	M10x1 0562 05 60	8	16	37.5	40	0.031

0563 Needle Drain Valve, BSPT Thread

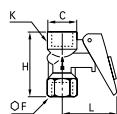
Brass



DN	C	F	H min	H max	Kg
5	R1/4 0563 05 14	14	28.5	32.5	0.021

0627 Automatic Vent Pressure Gauge Valve, Female BSPP Thread

Nickel-plated brass, NBR



C	F	H	K	L	Kg
G1/4 0627 00 13	19	43.5	20	40	0.097

Pressure: 10 bar

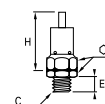
This isolating valve is used to connect a pressure gauge to a circuit.

Resetting the lever isolates and vents the gauge.

A locking pin can be used to enable the gauge to be fitted permanently.

0630 Pressure Relief Valve, Male BSPP Thread

Brass



C	E	F	H	Kg
G1/4 0630 06 13	9	17	42.5	0.050

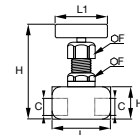
This valve is delivered without calibration, but can be adjusted by inserting metal washers into the hexagon (F).

Maximum working pressure: 10 bar

Calibration from 1 to 10 bar (not below)

0591 Needle Valve, Female BSPP Thread

Stainless steel 316L, PTFE



DN	C	F	H min	H max	H1	L	L1	Kg
3	G1/8 0591 03 10	22	90	99	90	25	45	0.342
4	G1/4 0591 04 13	22	90	99	90	25	50	0.354
5	G3/8 0591 05 17	22	90	104	90	30	56	0.430
6	G1/2 0591 06 21	22	90	104	90	30	62	0.478

Butterfly Valves



The butterfly valve allows frequent operation with very low torque on circuits without retention zones.

Technical Characteristics

- **Compatible Fluids:** Compressed air, abrasive fluids
- **Working Pressure:** 0 to 16 bar
- **Working Temperature:** -20°C to +80°C

Reliable performance is dependent upon the type of fluid conveyed.

Advantages

- Compatible with abrasive fluids (including solid particles)
- Fluid flow direction marked (uni-directional)
- Small size
- Simple and efficient design

Component Materials

Silicone-free

Stem: brass

Lever: zamak, black epoxy paint

Body: nickel-plated shot-blasted brass

Flap: stainless steel

O-ring: NBR

Regulations

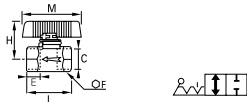
• PED

• REACH

• RoHS

4602 2/2 Butterfly Shut-Off Valve, Female BSPP Thread

Nickel-plated brass, NBR



DN	C		E	F	H	L	M	Kg
6	G1/4	4602 06 13	9	17	35	34	54	0.102
7	G3/8	4602 07 17	11	22	35	39	54	0.136
10	G1/2	4602 10 21	12	24	37	42	54	0.140
13	G3/4	4602 13 27	14	30	40	49	54	0.208
18	G1	4602 18 34	15	41	46	55	54	0.412

Axial Valves



This valve is equipped with a pneumatic or electro-pneumatic actuator, so it can be integrated into simple automated systems.

Technical Characteristics

- **Compatible Fluids:** Compressed air, water, industrial fluids...
Other fluids: please consult us
- **Working Pressure:** 10 bar max.
- **Pilot Pressure:** NC and NO: 4.2 to 8 bar
Double-acting: 3 to 8 bar
- **Working Temperature:** -20°C to +150°C (suffix 20 FKM)
-20°C to +150°C (suffix 30 EPDM)

Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.

Guaranteed for use with a vacuum of 740 mm Hg (97% vacuum).

Advantages

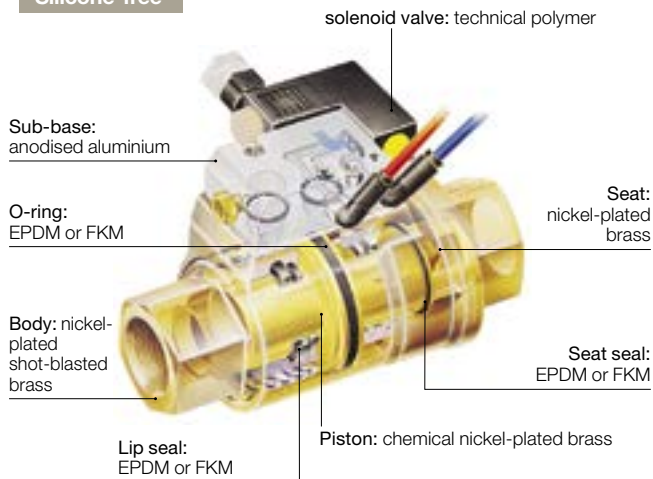
- Very compact
- Simple to install: ready-to-use
- Two seal materials (FKM, EPDM) for a wider chemical and temperature range
- Pneumatic or electro-pneumatic
- Three versions: normally closed, normally open and double-acting

Regulations

- PED
- RoHS
- REACH

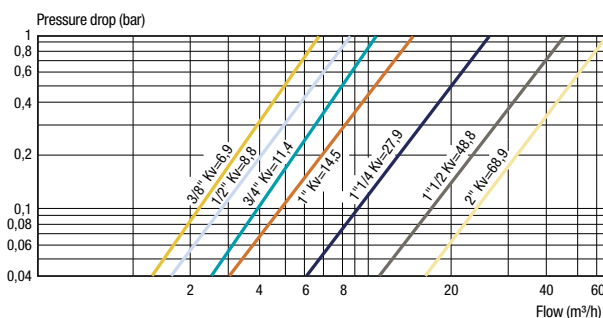
Component Materials

Silicone-free



Flow Curve and Pressure Drop (Kv)

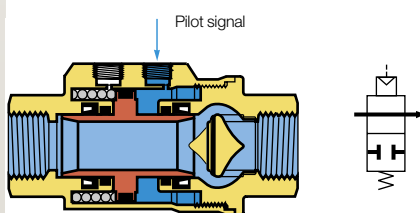
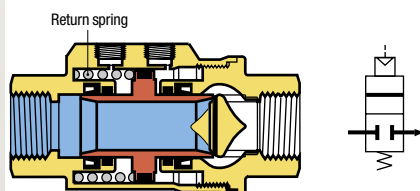
Kv in m³/h (ambient water temperature, under a differential pressure of 1 bar)



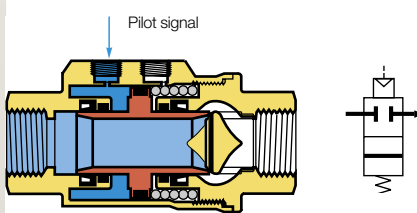
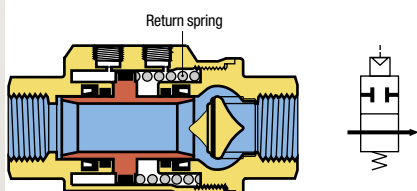
Operation

Depending on operational requirement, air is passed into the actuation chamber to open or close the valve.

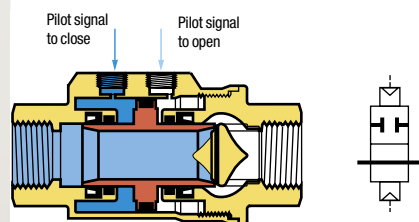
Normally Closed Axial Valve (NC)



Normally Open Axial Valve (NO)



Double-Acting Axial Valve (DA)



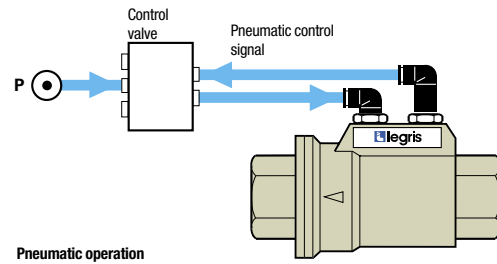
Installation Options

The Parker Legris axial valve offers 3 different control methods dependant on the requirements of the installation:

Pneumatic Control

Example: Double-acting axial valve 4222

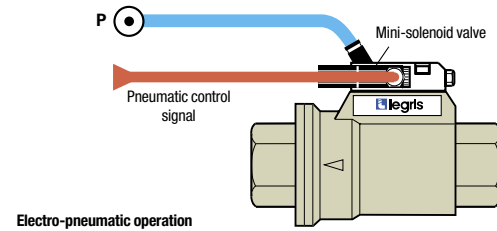
- local compressed air control
- for repetitive on/off cycles
- remote control where access to the machine is difficult
- for explosive or explosion prevention areas



Electro-Pneumatic Control

Example: Normally closed axial valve 4202 + sub-base and Mini-solenoid valve 4298

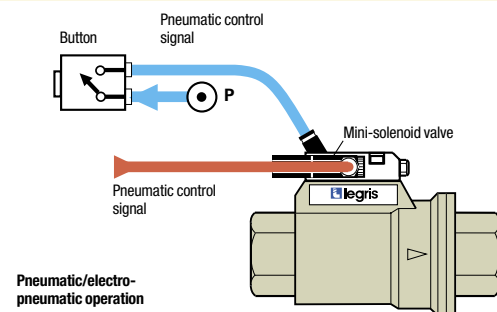
- for automated industrial systems requiring remote control
- Namur seating plane solenoid valve



Dual Pneumatic and Electro-Pneumatic Control

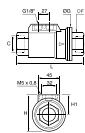
Example: Normally open axial valve 4212 + sub-base and Mini-solenoid valve 4298 + Pneumatic push-button 4299

- dual control structure
- for increased safety: prevents localised operating errors
- Namur seating plane solenoid valve



4202..20 Normally Closed Axial Valve with FKM Seal, Female BSPP Thread

Nickel-plated brass, FKM



C		F	G	H	H1	L	Kg
G3/8	4202 10 17 20	22	46	54	31	98	0.834
G1/2	4202 15 21 20	27	52	60	35	112	1.075
G3/4	4202 20 27 20	33	64	70	38	135	1.624
G3/4	4202 20 27 30	33	64	70	38	135	1.606
G1	4202 25 34 20	41	69	76	41.5	143	2.033
G1 1/4	4202 32 42 20*	50	86	91	48	165	3.266
G1 1/2	4202 40 49 20*	60	96	102	54	180	4.195
G2	4202 50 48 20*	75	109	115	60.5	207	6.465

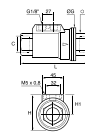
Pilot port: G1/8

Delivered with a silencer

*Models with EC marking

4202..30 Normally Closed Axial Valve with EPDM seal, Female BSPP Thread

Nickel-plated brass, EPDM



C		F	G	H	H1	L	Kg
G3/8	4202 10 17 30	22	46	54	31	98	0.818
G1/2	4202 15 21 30	27	52	60	35	112	1.071
G1	4202 25 34 30	41	69	76	41.5	143	2.013
G1 1/4	4202 32 42 30*	50	86	91	48	165	3.315
G1 1/2	4202 40 49 30*	60	96	102	54	180	4.195
G2	4202 50 48 30*	75	109	115	60.5	207	6.360

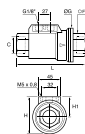
Pilot port: G1/8

Delivered with a silencer

*Models with EC marking

4212..20 Normally Open Axial Valve with FKM Seal, Female BSPP Thread

Nickel-plated brass, FKM



C		F	G	H	H1	L	Kg
G3/8	4212 10 17 20	22	46	54	31	98	0.824
G1/2	4212 15 21 20	27	52	60	35	112	1.096
G3/4	4212 20 27 20	33	64	70	38	135	1.637
G1	4212 25 34 20	41	69	76	41.5	143	2.025
G1 1/2	4212 40 49 20*	60	96	102	54	180	4.188
G2	4212 50 48 20*	75	109	115	60.5	207	6.555

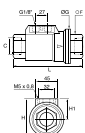
Pilot port: G1/8

Delivered with a silencer

*Models with EC marking

4222..20 Double-Acting Axial Valve with FKM Seal, Female BSPP Thread

Nickel-plated brass, FKM



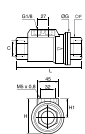
C		F	G	H	H1	L	Kg
G3/8	4222 10 17 20	22	46	54	31	98	0.802
G1/2	4222 15 21 20	27	52	60	35	112	1.042
G3/4	4222 20 27 20	33	64	70	38	135	1.571
G1	4222 25 34 20	41	69	76	41.5	143	1.942
G1 1/2	4222 40 49 20*	60	96	102	54	180	3.995
G2	4222 50 48 20*	75	109	115	60.5	207	6.275

Pilot port: G1/8

*Models with EC marking

4222..30 Double Acting Axial Valve with EPDM seal, Female BSPP Thread

Nickel-plated brass, EPDM



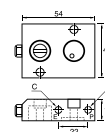
C		F	G	H	H1	L	Kg
G1/2	4222 15 21 30	27	52	60	35	112	1.046
G1 1/4	4222 32 42 30*	50	86	91	48	165	3.301

Pilot port: G1/8

*Models with EC marking

4298 Sub-Base for Solenoid Pilot Valve

Treated aluminium, NBR



C		Kg
M5x0.8	4298 00 01	0.095

The sub-base is fitted directly to the axial valve and allows the mounting of a 15x15 solenoid valve.

Supplied with 2 fixing bolts, silencer and seats.

4298 Mini-Solenoid Valve 1W/12VA

Anodized aluminium



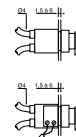
	Voltage	Kg
4298 01 01	24V = CC*	0.051
4298 01 02	24V ~ CA**	0.058
4298 02 01	110V ~ CA**	0.051
4298 02 02	220V ~ CA**	0.054

*Direct current

**Alternating current

4299 Pneumatic Button

Nickel-plated brass, technical polymer



	Contact	Kg
4299 01 01		0.090

Bulkhead fixing hole diameter: Ø22 mm