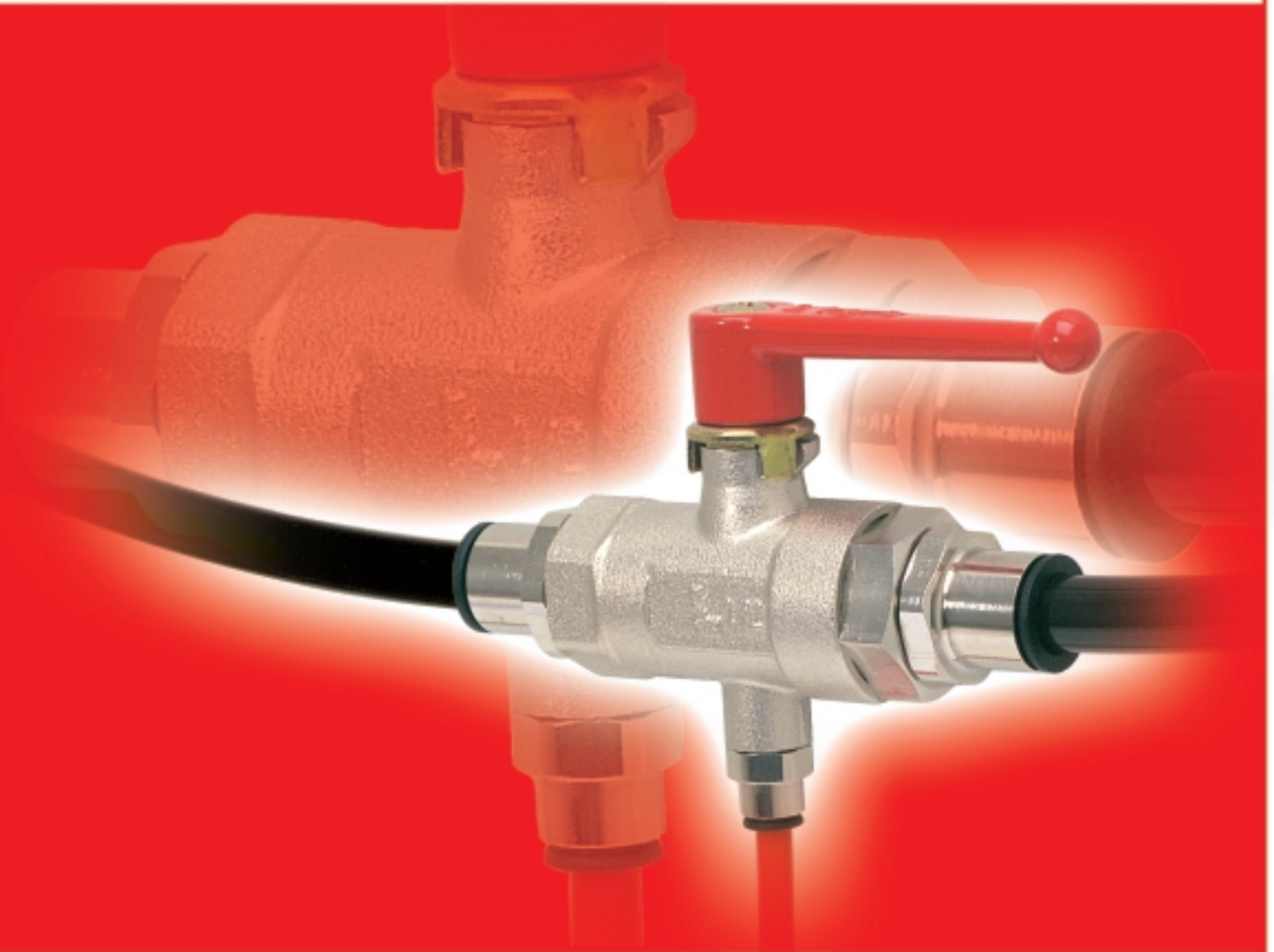


ball valves



principle of industrial ball valves

standard range



The **standard Legris ball valve** provides a reliable means of opening and closing fluid systems. It requires a simple quarter turn of the handle to operate the two-way version, or a 180° turn for the three way version. In the closed position the pressure of the fluid presses the ball against the seal, further ensuring the integrity of the seal. In principle, the higher the pressure, the better the seal.

Reliability:

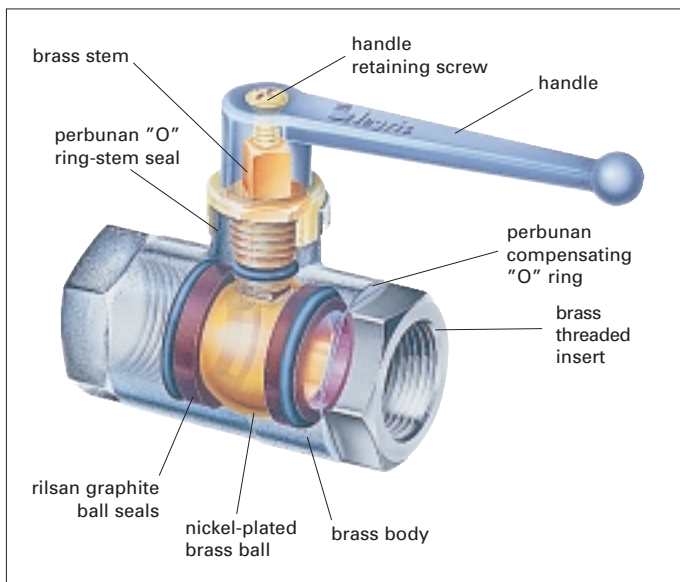
- the ball is sealed on both sides by graphite impregnated rilsan seals which are supported by perbunan compensating "O" rings. This ensures that the seal remains in contact with the ball at all times thus extending the life of the ball valve by preventing leakage should seal wear occur.
- the stem is firmly secured within a square insert on the ball and is sealed by an "O" ring.

In order to meet industry's requirements, Legris offers three other series of ball valves in addition to its standard range:

- **light series**, for low pressure applications
- **fluoropolmer series**, for maximum working temperature
- **stainless steel series**, for use with corrosive fluids and aggressive environments



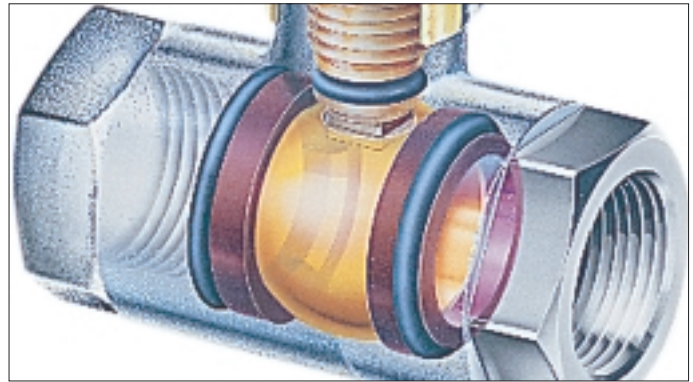
technical specifications



working fluids	see application table on pages R20 to R23					
working pressure	290 to 580 psi according to the model					
working temperature	-4° to 175°F					
materials of construction	body: sand blasted nickel-plated brass ball: polished brass stem: brass retaining nut: brass ball seal: graphite impregnated rilsan stem seal: nitrile compensating "O" rings: nitrile					
maximum tightening torque of ball valves, standard range	thread	G1/8	G1/4	G3/8	G1/2	G3/4
	in. lb	.90 to 1.75	.90 to 1.75	1.30 to 2.20	1.75 to 3.10	4.40 to 6.20
	thread	G1"	G1"1/4	G1"1/2	G2"	
	in lb.	4.40 to 6.20	3.50 to 5.30	7 to 10.6	7 to 10.6	

principal advantages

standard ball valves

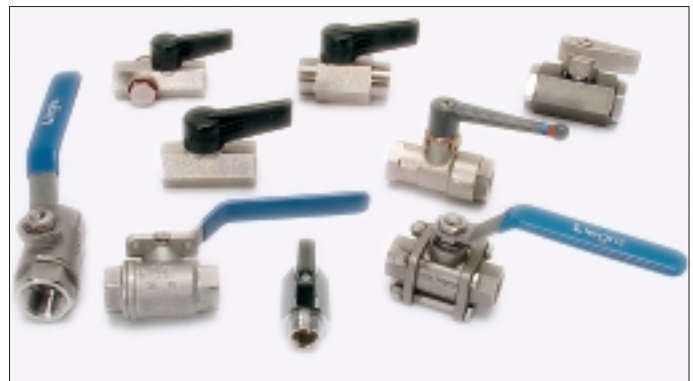
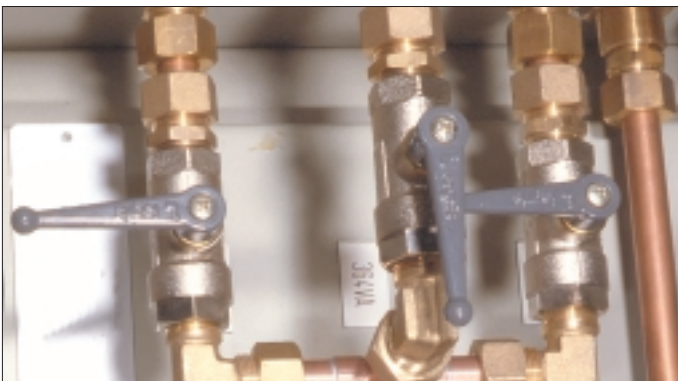


wide range

- various porting configurations: in-line, right angled, 2-way, 3-way
- additional features: vented, panel mounting, lockable, compression connection...
- large range of bore sizes from 4 to 50mm
- threaded connections from G1/8 to G2

high performance

- full sealing due to compensating "O" rings
- smooth operation due to low friction coefficient of chemically nickel-plated brass
- excellent resistance to scaling due to ball seal configuration



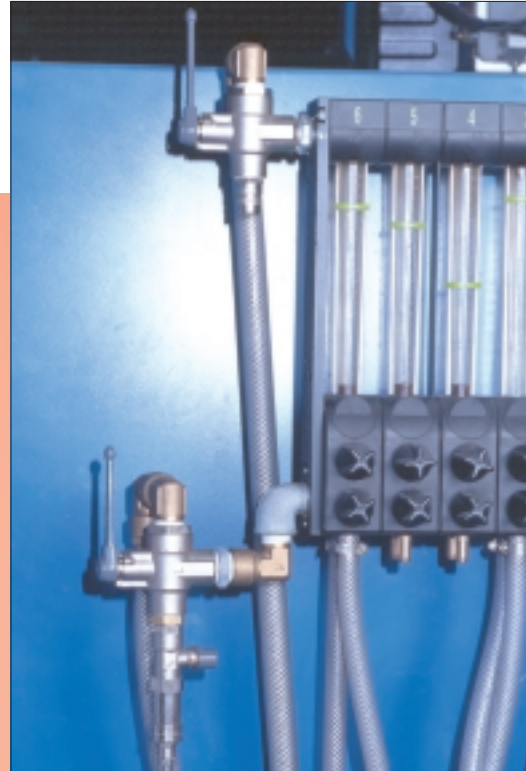
long life

- **Legris ball valves** provide many thousands of trouble free operations due to the "O" rings compensating for seal wear.

additional models to meet industry's requirements

- **semi-standard** ball valves, for special applications
- **light series** ball valves, for low pressure applications
- **fluoropolymer series** ball valves, for maximum working temperature
- **stainless steel series** ball valves, for corrosive fluids and aggressive environments

ball valves



the complete range of ball valves



general purpose ball valves

4982
Page R6



0492
Page R6



0491
Page R6



0490
Page R6



4962
Page R7



4902
Page R7



vented ball valves

0489
Page R9



0449
Page R9



0469
Page R9



7913
Page R15



7915/7914
Page R15



7910/7911
Page A41



lockable ball valves

0432
Page R10



0438
Page R10



0499
Page R11



0439
Page R11



0437
Page R11



stainless steel ball valves

4832
Page R12



0465
Page R12



4813
Page R13



4810
Page R13



4895/4890
Page R14



4891/4892
Page R14



universal series

0402
Page R17



0446
Page R17



0401
Page R17



0400
Page R17



0472
Page R18



0462
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0471
Page R18



0461
Page R18



0482
Page R19



0448
Page R19



0452
Page R19



0483
Page R19



6402
Page R20



6401
Page R20



0411
Page R20



0414
Page R20



4602
Page R21



0497
Page R21



0496
Page R21



economy ball valve

This economy ball valve is designed for use where there is a requirement for medium pressure. For industrial fluids – air, water and oil.

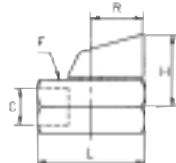
technical specifications

- working pressure: 150 psi
- working temperature: to 200°F
- materials of construction:
 - body: nickel-plated brass
 - ball: brass UNI 5705-65
 - stem: brass UNI 5705-65
 - handle: nylon +15% glass filled
 - seal/stem seals: PTFE

4982 double female — NPT thread



nickel-plated brass body
nylon handle



C NPT	orifice		L in	R in	H in	F in	
1/8	.31	4982 58 11	1.61	.81	1.14	.83	3.50
1/4	.31	4982 58 14	1.61	.81	1.14	.83	3.85
3/8	.31	4982 58 18	1.61	.81	1.14	.83	3.50
1/2	.39	4982 60 22	1.81	.81	1.22	.98	4.90

Silicon free

light series ball valves

Light series ball valves allow the passage of many fluids and are suited to high pressures and temperatures. Their materials of construction are the same as for the standard range.

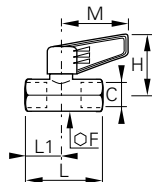
technical specifications

- maximum working pressure: 175 psi
- maximum temperature: 175°F

0492 double female — BSPP thread



nickel-plated brass body
polymer HR handle



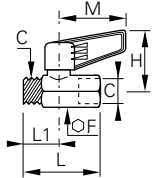
C BSPP	DN		E mm	F mm	H mm	L mm	L1 mm	M mm	
G1/4	4	0492 04 13	9	17	34	39.5	17	35	.07
G1/4	4	0492 04 13 64*	9	17	36	39.5	17	25	.07
G3/8	7	0492 07 17	11	22	38	45	20	43	.12
G1/2	10	0492 10 21	12	24	44	54	25	50	.16
G3/4	13	0492 13 27	14	30	46	62	28	50	.24

* Zamac short handle

0491 male and female — BSPP thread



nickel-plated brass body
polymer HR handle



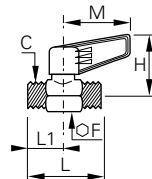
C BSPP	DN		E mm	E1 mm	F mm	H mm	L mm	L1 mm	M mm	
G1/4	4	0491 04 13	9	7	17	34	39.5	17	35	.07
G1/4	4	0491 04 13 64*	9	7	17	36	39.5	17	25	.07
G3/8	7	0491 07 17	11	8	22	38	45	20	43	.12
G1/2	10	0491 10 21	12	10	24	44	53	24	50	.15
G3/4	13	0491 13 27	14	12	30	46	59	25	50	.23

* Zamac short handle

0490 double male — BSPP thread



nickel-plated brass body
polymer HR handle



C BSPP	DN		E mm	F mm	H mm	L mm	L1 mm	M mm	
G1/4	4	0490 04 13	9	17	34	39	17	35	.07
G3/8	7	0490 07 17	11	22	38	44	20	43	.11
G1/2	10	0490 10 21	12	24	44	53	24	50	.15
G3/4	13	0490 13 27	14	30	46	59	25	50	.22

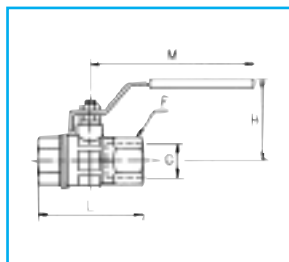
in-line economy ball valve

These valves are designed for use where there is a requirement for medium pressure and when the fluid carried requires **fluoropolymer seals**. It is full-bore and is suitable for many applications, being both high quality and economical.

technical specifications

- working pressure: 600 psi
- working temperature: to 320°F
- materials of construction:
 - body: brass UNI 5705-65
 - ball: brass UNI 5705-65
 - stem: brass UNI 5705-65
 - handle: plated steel
 - seal/stem seals: PTFE

4962 double female — NPT thread

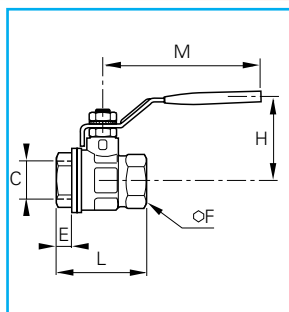


C NPT	orifice		L in	M in	H in	F in	oz
1/4	.39	4962 60 14	1.98	3.86	1.69	.79	4.94
3/8	.39	4962 60 18	1.98	3.86	1.69	.79	5.30
1/2	.59	4962 65 22	2.36	3.86	1.81	1.98	6.71
3/4	.79	4962 70 28	2.66	4.80	2.13	1.22	12.0
1	.98	4962 75 35	3.15	4.80	2.32	1.50	18.71
1-1/4	1.26	4962 82 43	3.64	6.02	3.03	1.89	34.59
1-1/2	1.57	4962 90 50	4.17	6.02	3.27	2.13	51.19
2	1.97	4962 01 44	4.90	6.69	3.54	2.64	67.78

technical specifications

- working temperature: -4° to 300°F
- materials of construction:
 - body: sand blasted and nickel plated
 - ball: nickel plated and chromed brass
 - stem: nickel-plated brass
 - handle: blue plastic coated steel
 - ball seals and stem seals: fluoropolymer PTFE

4902 double female — BSPP thread



C BSPP	DN	PN		E mm	F mm	H mm	L mm	M mm	kg
G1/4	10	30	4902 10 13	11	20	43	51.5	98	.140
G3/8	10	30	4902 10 17	11.4	20	43	51.5	98	.130
G1/2	15	30	4902 15 21	13.5	25	47	55	98	.200
G3/4	20	30	4902 20 27	12.5	31	58	57.5	122	.320
G1"	25	30	4902 25 34	15	38	60	69.5	122	.490
G1"1/4	32	25	4902 32 42	17	48	77	81.5	153	.900
G1"1/2	40	25	4902 40 49	18	54	83	95	153	1.350
G2"	50	25	4902 50 48	22	66	95	113	162	1.800

Identification

Part numbers have been chosen by a method of mnemonics. Each valve is identified by:

- its series
- the diameter of passage through the valve
- the thread code

Example

4962 60 18

type of
ball valve

diameter of
passage

thread code

vented ball valve with threaded exhaust

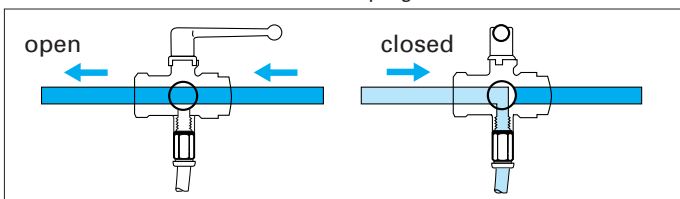


In certain situations, there is a requirement for stopping fluid circulation and venting the circuit. Therefore Legris offers 2 types of in-line vented ball valves:

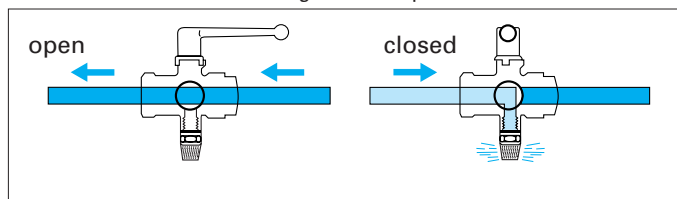
- **with threaded exhaust**, to allow discharge of downstream medium.
- **with pin-hole vent**, for applications with no special discharge requirement.

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

with threaded exhaust = collection of purged media

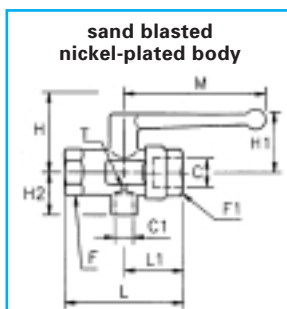


with silencer noiseless discharge to atmosphere



vented ball valve with threaded exhaust

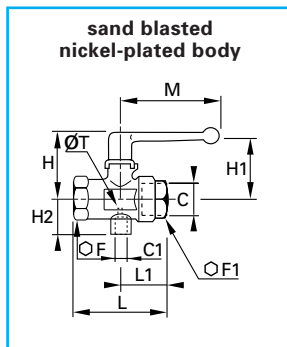
0489 double female vented ball valve — NPT thread



C NPT	orifice		C1 in	F in	F1 in	H in	H1 in	H2 in	L in	L1 in	M in	T in	
1/4	.27	0489 07 14	10-32	.94	.94	1.79	1.68	.66	2.30	1.21	2.69	.08	9.50
3/8	.89	0489 10 18	10-32	.94	.94	1.79	1.68	.66	2.30	1.21	2.69	.08	10.38
1/2	.51	0489 13 22	1/8	1.05	1.05	1.83	1.72	.94	2.61	1.33	2.69	.08	11.01
3/4	.70	0489 18 28	1/4	1.25	1.48	2.46	2.11	1.29	3.12	1.52	4.21	.10	26.62
1"	.90	0489 23 35	1/4	1.60	1.79	2.61	2.22	1.44	3.67	1.83	4.21	.12	38.41

maximum working pressure: 580 psi

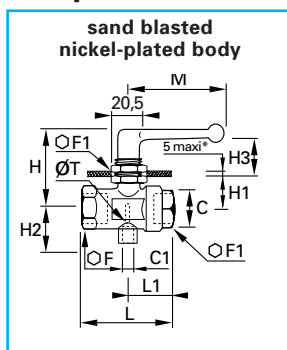
0489 double female vented ball valve — BSPP thread



C	BSPP			C1	F	F1	H	H1	H2	L	L1	M	T	
					mm	mm	mm	mm	mm	mm	mm	mm	mm	
G1/4	7	0489	07 13	M5x0.8	24	24	46	43	17	59	31	69	2	.27
G3/8	10	0489	10 17	M5x0.8	24	24	46	43	17	59	31	69	2	.29
G1/2	13	0489	13 21	G1/8	27	27	47	44	24	67	34	69	2	.31
G3/4	18	0489	18 27	G1/4	32	38	63	54	33	80	39	108	2.5	.75
G1"	23	0489	23 34	G1/4	41	46	67	57	37	94	47	108	3	1.09

maximum working pressure: 580 psi

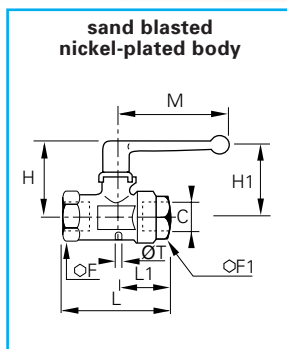
0449 double female ball valve, panel mountable — BSPP thread



C			C1	F	F1	H	H1	H2	F	L	L1	M	T	
BSPP				mm										

maximum working pressure: 290 psi

0469 double female vented ball valve — BSPP thread



C			F	F1	H	H1	L	L1	M	T	
BSPP			mm	mmmm	mm	mm	mm	mm	mm	mm	
G1/8	4	0469 04 10	-	14	35	29	44	25	48	1.5	.10
G1/4	7	0469 07 13	24	24	46	43	59	31	70	2	.26
G3/8	10	0469 10 17	24	24	46	43	59	31	70	2	.25
G1/2	13	0469 13 21	27	27	47	44	67	34	70	2	.29
G3/4	18	0469 18 27	32	38	63	54	80	39	108	2.5	.70
G1"	23	0469 23 34	41	46	67	57	94	47	108	3	1.02

maximum working pressure: 580 psi

lockable ball valves



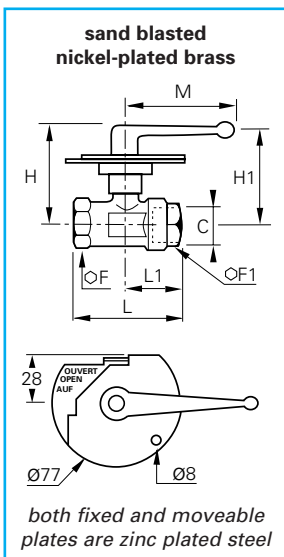
Legris lockable ball valves have been developed in order to prevent potentially dangerous consequences caused by unintended operation. Lockable in different positions, this range meets international safety requirements, such as ISO 4414.

Lockable ball valves feature a plate fixed to the valve body and a plate attached to the valve stem. When the plates are padlocked together, the valve handle cannot be moved.

The valves are lockable:

- in both **open and closed position**, by one padlock: models 0432 and 0439
- **only in the closed position** by up to three padlocks: models 0437 and 0438.

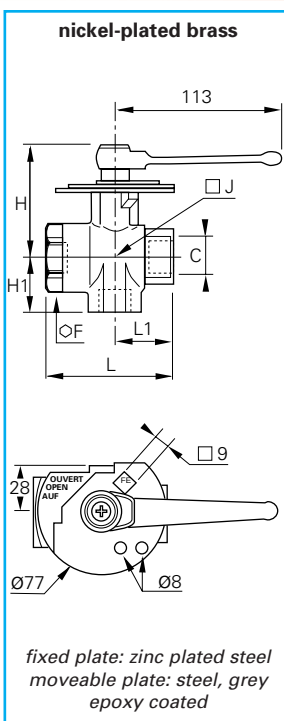
0432 in-line double female — BSPP thread



C	BSPP	DN		E	F	F1	H	H1	L	L1	M	kg
				mm	mm	mm	mm	mm	mm	mm	mm	
G1/8	4	0432 04 10		8	19	19	59	54	51	27	69	.41
G1/4	7	0432 07 13		12	19	19	59	54	59	28	69	.40
G3/8	10	0432 10 17		12	24	24	60	55	59	31	69	.46
G1/2	13	0432 13 21		15	27	27	62	57	67	34	69	.52
G3/4	20	0432 20 27		16.5	32	38	66	56	80	39	108	.85
G1"	23	0432 23 34		19	41	46	70	59	94	47	108	1.17

maximum service pressure: 580 psi
handle is non-removable

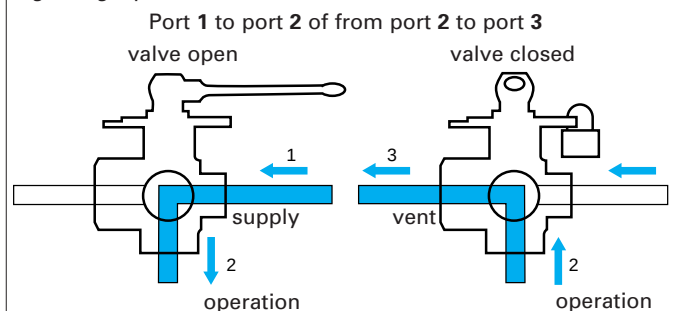
0438 female 3 way lockable ball valve sand blasted nickel-plated body — BSPP thread



C	BSPP	DN		E	F	H	H1	J	L	L1	kg
				mm	mm	mm	mm	mm	mm	mm	
G3/8	9	0438 09 17		12	38	76	34	39	73	35	.91
G1/2	12	0438 12 21		15	38	76	37	39	78	38	.90
G3/4	18	0438 18 27		16.5	38	76	40	39	80	40	.85
G1"	23	0438 23 34		19	46	80	47	48	94	47	1.27

maximum working pressure: 290 psi

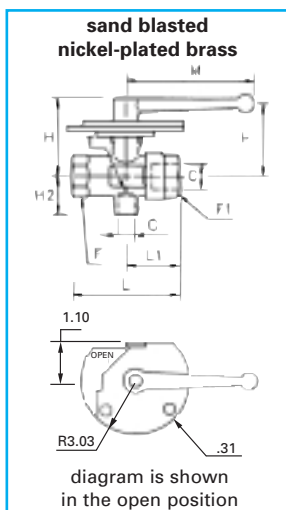
These valves are lockable in the closed position only.
Right angle ported ball allows flow:



removable handle: where the handle is obstructed in its movement it can be refitted opposite the original position.

lockable ball valves

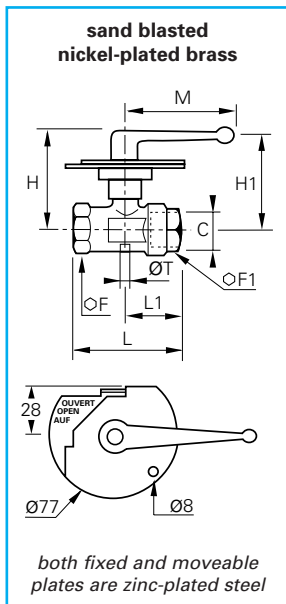
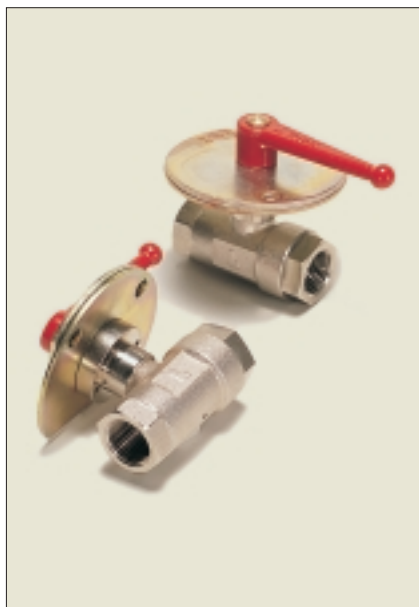
0499 double female lockable vented ball valve – NPT thread



C NPT	orifice		C1	F in	F1 in	H in	H1 in	H2 in	L in	L1 in	M in	T in	
1/4	.27	0499 07 14	10-32	.94	.94	1.79	1.68	.66	2.30	1.21	2.69	.08	9.83
3/8	.39	0499 10 18	10-32	.94	.94	1.79	1.68	.66	2.30	1.21	2.69	.08	11.71
1/2	.51	0499 13 22	1/8	1.05	1.05	1.83	1.72	.94	2.61	1.33	2.69	.08	11.39
3/4	.70	0499 18 28	1/4	1.25	1.25	2.46	2.11	1.29	3.12	1.52	4.21	.10	26.95
1"	.90	0499 23 35	1/4	1.60	1.60	2.61	2.22	1.44	3.67	1.83	4.21	.12	38.74

These ball valves are OSHA approved.

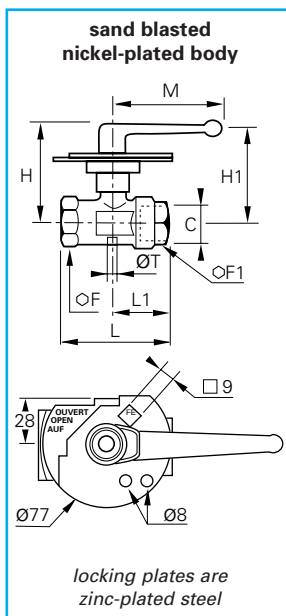
0439 double female with vent — BSPP thread



C	BSPP	DN	E	F	F1	H	H1	L	L1	M	T	kg
G1/8	4	0439 04 10	8	19	19	59	54	51	27	69	2	.42
G1/4	7	0439 07 13	12	24	24	60	55	59	31	69	2	.48
G3/8	10	0439 10 17	12	24	24	60	55	59	31	69	2	.46
G1/2	13	0439 13 21	15	27	27	62	57	67	34	69	2	.51
G3/4	18	0439 18 27	16.5	32	38	66	56	80	39	108	2.5	.83
G1"	23	0439 23 34	19	41	46	70	59	94	47	108	3	1.17

maximum service pressure: 580 psi
handle is non-removable

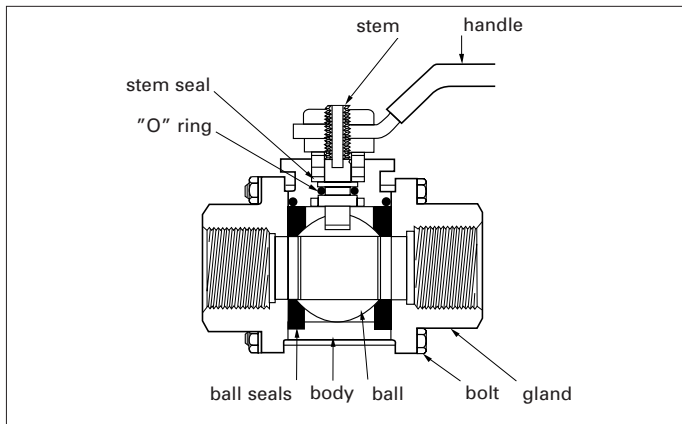
0437 in-line double female vented lockable ball valve — BSPP thread



C	BSPP	DN	E	F	F1	H	L	L1	M	T	kg
G1/4	7	0437 07 13	12	24	24	60	59	32	69.5	2	.40
G3/8	10	0437 10 17	12	24	24	60	60	32	69.5	2	.46
G1/2	13	0437 13 21	15	27	27	60	67.5	34.5	69.5	2	.52
G3/4	18	0437 18 27	16.5	32	38	69.5	80	39.5	108.5	2.5	.85
G1"	23	0437 23 34	19	41	46	73	94.5	47.5	108.5	3	1.17

maximum working pressure: 580 psi
handle is non-removable

stainless steel series ball valves

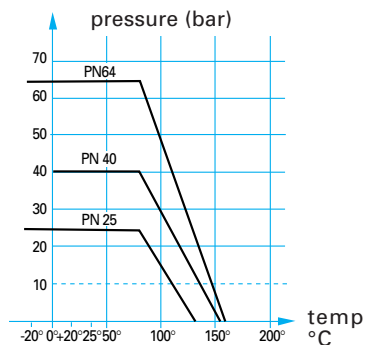


materials of construction:

- body, ball, ports, stem: stainless steel AISI 316
- handle, lock washer, stop pin: stainless steel AISI 304
- nuts, packing washer: stainless steel AISI 303
- screw: stainless steel AISI 305
- ball seal, stem seal, anti-friction washer: PTFE
- "O" ring: FKM

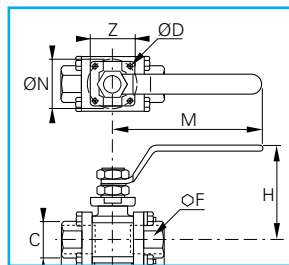
Stainless steel series ball valves are designed for use with corrosive fluids and in aggressive environments. Full bore, their 3-piece construction allows the valve to be disassembled laterally, to facilitate maintenance. They are suitable for higher pressure and temperature applications.

pressure and temperature resistance of stainless steel series ball valves 4832



example: at 100°C
 PN 64 becomes 48 bar
 PN 40 becomes 30 bar
 PN 42 becomes 17 bar
 For temperatures between 150°C and 200°C, please consult us.

4832 3 piece double female with lateral dismantling — BSPP thread



C BSPP	DN		PN bar	E mm	F mm	H mm	L mm	M mm	kg
G1/4	10	4832 10 13	64	13	22	50	57	110	.43
G3/8	10	4832 10 17	64	15	22	50	57	110	.40
G1/2	15	4832 15 21	64	15	27	65	65	130	.37
G3/4	20	4832 20 27	40	16.3	32	70	77	130	.56
G1"	25	4832 25 34	40	19.1	41	79	92	170	1.04
G1"1/4	32	4832 32 42	25	21.4	50	83	106	170	1.47
G1"1/2	40	4832 40 49	25	21.4	55	100	115	250	2.00
G2"	50	4832 50 48	25	25.7	70	107	136	250	3.14

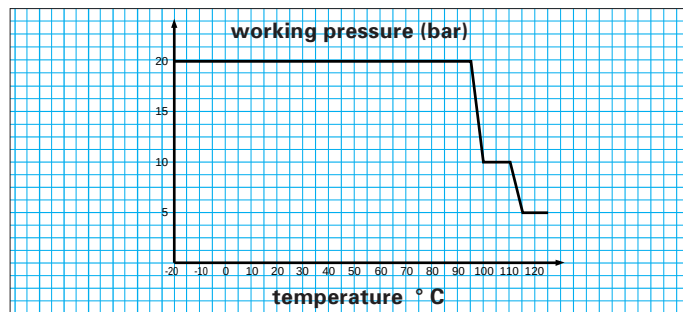
compact stainless steel ball valves

Designed for use with many aggressive and corrosive fluids at pressures not exceeding 290 psi.

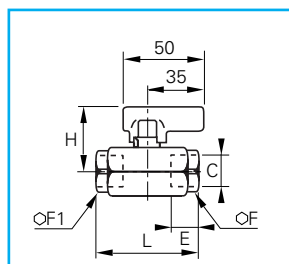
materials of construction:

- body, ball, ports, stem: stainless steel 18/10
- handle: nickel-plated brass
- "O" ring, stem seal, ball seal: PTFE

pressure and temperature resistance of compact stainless steel series ball valves 0465



0465 double female — BSPP thread



C BSPP	DN		E mm	F mm	F1 mm	H mm	L mm	kg
G1/4	4	0465 04 13	13	19	24	36	50	.22
G3/8	7	0465 07 17	13	24	27	39	55	.28
G1/2	10	0465 10 21	16	27	30	40	62	.32

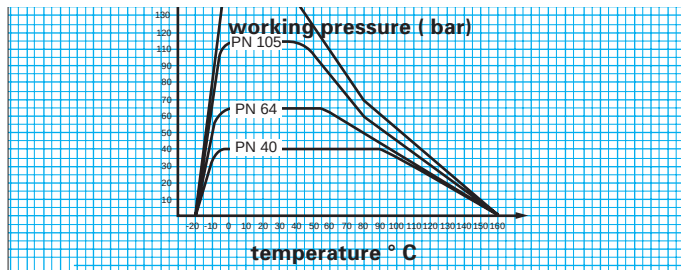
stainless steel series ball valves

Stainless steel series ball valves are designed for use with corrosive fluids and in aggressive environments. Full bore and of one piece construction in stainless steel AISI 316, they are suited to higher pressure and high temperature applications. Therefore they can be used for a wide range of industrial applications.

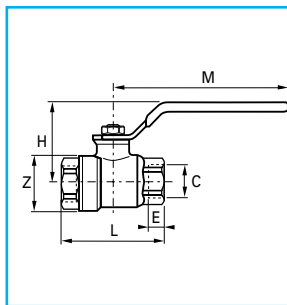
• **materials of construction:**

- body, ball, ports, stem: stainless steel AISI 316
- handle, lock washer, stop pin: stainless steel AISI 304
- nuts, gland seal: stainless steel AISI 303
- ball seal, stem seal, anti-friction washer: PTFE
- "O" ring: viton

pressure and temperature resistance of stainless steel series valves 4813 and 4810

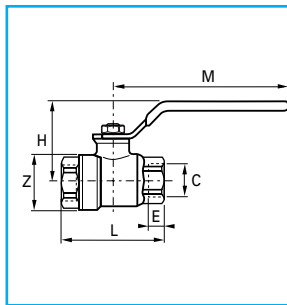
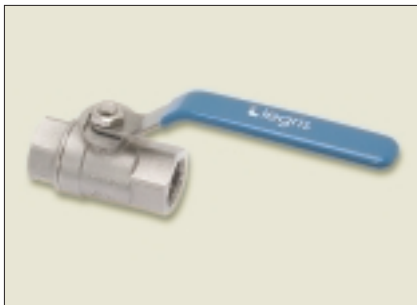


4813 double female — NPT thread



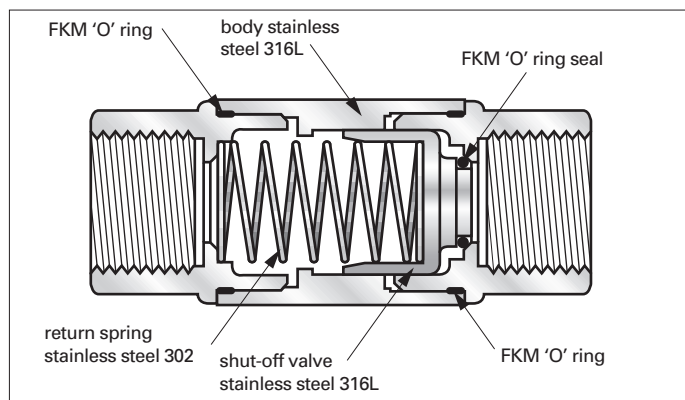
C NPT	DN		PN bar	E in	H in	L in	M in	
1/4	.31	4813 08 14	64	.39	1.75	2.11	4.35	7.76
3/8	.39	4813 10 18	64	.39	1.75	2.11	4.35	7.05
1/2	.59	4813 15 22	64	.51	1.85	2.36	4.35	8.82
3/4	.79	4813 20 28	40	.55	2.15	2.76	5.18	15.87
1"	.98	4813 25 35	40	.67	2.30	3.11	5.18	29.98

4810 double female — BSPP thread



C BSPP	DN		PN bar	E mm	H mm	L mm	M mm	
G1/4	8	4810 08 13	64	10	44.5	53.5	110.5	.22
G3/8	10	4810 10 17	64	10	44.5	53.5	110.5	.20
G1/2	15	4810 15 21	64	13	47	60	110.5	.25
G3/4	20	4810 20 27	40	14	54.5	70	131.5	.45
G1"	25	4810 25 34	40	17	58.5	79	131.5	.85

check valves – stainless steel



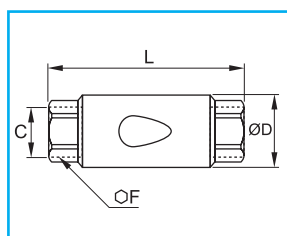
Operation : a stainless steel valve blocks the fluid passage, when the pressure differential is lower than 3.6 psi.
Connection is by use of an allen key, upstream of the circuit.

working pressure	7 to 580 psi
working temperature	-4° to +360°F

model	water flow at 90 psi	Kv
1/8	.67 scfm	1.60
1/4	.70 scfm	1.69
3/8	1.26 scfm	3.01
1/2	1.29 scfm	3.10
3/4	2.33 scfm	5.59
1"	3.27 scfm	7.86

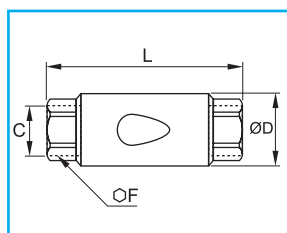
On request, we can provide you with male/female models with NPT threads and other types of seals (nitrile, EPDM, FDA).

4895 unidirectional, double-female – NPT



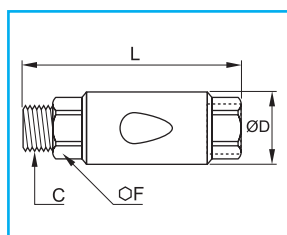
C NPT	DN		ØD mm	F mm	L mm	kg
1/8	10	4895 11 11	22	18	50	0.084
1/4	10	4895 14 14	22	18	54	0.080
3/8	15	4895 18 18	30	22	73	0.198
1/2	15	4895 22 22	30	25	77	0.213

4890 unidirectional, double-female – BSPP



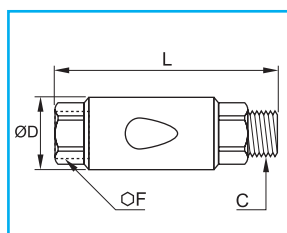
C BSPP	DN		ØD mm	F mm	L mm	kg
G1/8	10	4890 10 10	22	17	50	0.084
G1/4	10	4890 13 13	22	17	50	0.074
G3/8	15	4890 17 17	30	22	67	0.182
G1/2	15	4890 21 21	30	25	71	0.196
G3/4	20	4890 27 27	42	32	84	0.288
G1"	25	4890 34 34	42	38	90	0.416

4891 unidirectional, male/female – BSPP



C BSPP	DN		ØD mm	F mm	L mm	kg
G1/8	10	4891 10 10	22	17	56	0.086
G1/4	10	4891 13 13	22	17	58	0.082
G3/8	15	4891 17 17	30	22	75	0.190
G1/2	15	4891 21 21	30	25	79	0.280
G3/4	20	4891 27 27	42	32	98	0.302
G1"	25	4891 34 34	42	38	104	0.424

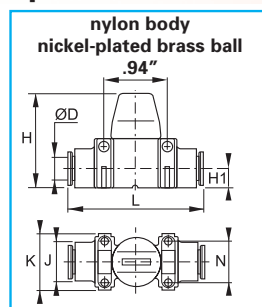
4892 unidirectional, female/male – BSPP



C BSPP	DN		ØD mm	F mm	L mm	kg
G1/8	10	4892 10 10	22	17	56	0.086
G1/4	10	4892 13 13	22	17	58	0.082
G3/8	15	4892 17 17	30	22	75	0.190
G1/2	15	4892 21 21	30	25	79	0.280
G3/4	20	4892 27 27	42	32	98	0.302
G1"	25	4892 34 34	42	38	104	0.424

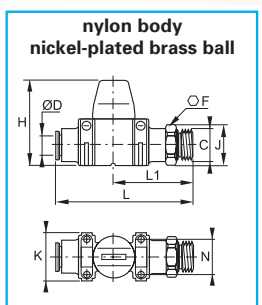
mini ball valves

7913 3/2, with vent, with push-to-connect ports



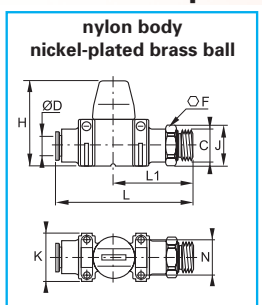
ØD in	fractional inch	H in	H1 in	J in	K in	L in	N in	oz
5/32	7913 04 00	1.46	.30	.59	.87	2.0	.64	.78
1/4	7913 56 00	1.46	.30	.59	.87	2.0	.64	1.45
5/16	7913 08 00	1.46	.30	.59	.87	2.0	.64	1.98
3/8	7913 60 00	1.69	.43	.79	1.18	2.6	.87	4.06
mm	metric	mm	mm	mm	mm	mm	mm	kg
4	7913 04 00	37	7.5	15	22	51	16.2	0.022
6	7913 06 00	37	7.5	15	22	52	16.2	0.041
8	7913 08 00	37	7.5	15	22	52	16.2	0.056
10	7913 10 00	43	11	20	30	66	22	0.115
12	7913 12 00	43	11	20	30	66	22	0.147

7915 3/2, with vent, with male NPT thread and push-to-connect ports



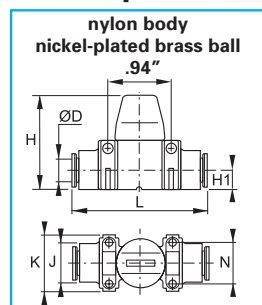
ØD in	C NPT	fractional inch	F mm	H in	J in	K in	L in	L1 in	N in	oz
5/32	1/8	7915 04 11	13	1.46	.55	.87	2.44	1.46	.64	1.76
1/4	1/8	7915 56 11	13	1.46	.55	.87	2.44	1.46	.64	1.90
1/4	1/4	7915 56 14	14	1.46	.59	.87	2.44	1.38	.64	2.40
5/16	1/4	7915 08 14	14	1.46	.59	1.18	2.40	1.61	.64	2.40
5/16	3/8	7915 08 18	18	1.46	.77	1.18	2.91	1.61	.64	2.82
3/8	1/4	7915 60 14	16	1.69	.69	1.18	2.40	1.65	.87	3.60
3/8	3/8	7915 60 18	18	1.69	.77	1.18	2.91	1.65	.87	4.94

7914 3/2, with vent, with male BSP parallel thread and push-to-connect ports



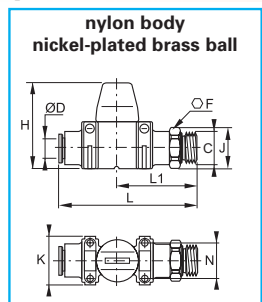
ØD mm	C BSPP	metric	F mm	H mm	J mm	K mm	L mm	L1 mm	N mm	kg
6	G1/8	7914 06 10	13	37	14	22	62	37	16.2	0.054
8	G1/4	7914 08 13	16	37	17.5	22	61	35	16.2	0.068
10	G3/8	7914 10 17	20	43	22	30	74	41	22	0.102
12	G1/2	7914 12 21	24	43	26	30	75	42	22	0.140

7910 2/2, with push-to-connect ports



ØD in	fractional inch	H in	H1 in	J in	K in	L in	N in	oz
5/32	7910 04 00	1.46	.30	.59	.87	2.01	.64	.74
1/4	7910 56 00	1.46	.30	.59	.87	2.05	.64	1.41
5/16	7910 08 00	1.46	.30	.59	.87	2.05	.64	1.94
3/8	7910 60 00	1.69	.43	.79	1.18	2.60	.64	3.95
mm	metric	mm	mm	mm	mm	mm	mm	kg
4	7910 04 00	37	7.5	15	22	51	16.2	0.021
6	7910 06 00	37	7.5	15	22	52	16.2	0.040
8	7910 08 00	37	7.5	15	22	52	16.2	0.055
10	7910 10 00	43	11	20	30	66	16.2	0.112
12	7910 12 00	43	11	20	30	66	16.2	0.144

7911 2/2, with male BSP parallel thread and push-to-connect ports



ØD mm	C BSPP	metric	F mm	H mm	J mm	K mm	L mm	L1 mm	N mm	kg
6	G1/8	7911 06 10	13	37	14	22	62	37	16.2	0.052
8	G1/4	7911 08 13	16	37	17.5	22	61	35	16.2	0.066
10	G3/8	7911 10 17	20	43	22	30	74	41	16.2	0.098
12	G1/2	7911 12 21	24	43	26	30	75	42	16.2	0.129

To join the mini ball valves together, use the clips on pg B17. For more information on the mini ball valves, refer to pages B24 - B25.

Legris ball valves – quick reference table

Based on its successful standard range, Legris has developed a range of semi-**standard ball valves** in order to satisfy specific customer applications.

Six versions cover virtually all requirements for different types of fluids. Technical specifications are shown in the chart below.

suffixes:

20

22

26

27

30

32



A color coded band on the handle identifies each semi-standard version.

semi-standards																
identification			body		handle			ball		stem seal and compensating "O" ring			ball seal			examples of applications (refer to the usage table for working conditions)
Part number = suffix	color band on handle		nickel-plated brass	chemically nickel-plated brass	standard	nickel-plated brass	chemically nickel-plated brass	nickel-plated polished brass	chemically nickel-plated brass	ethylene propylene	viton	teflon	Rilsan graphite	glass fibre impregnated teflon	teflon	
20																for hydrocarbons
22																for slightly aggressive fluids and high temperatures
26*																for aggressive liquids or high temperatures
27																for slightly aggressive fluids and/or not very aggressive environments
30**																for oxygen gas circuits
32																for water and steam

* degreased

** grease compatible with oxygen

example of numbering systems for semi-standard ball valves

0402 13 21 22

type of ball
valve

diameter of
passage

thread
code

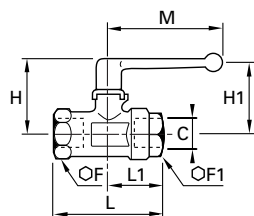
reference number
of semi-standard
valve

standard in-line ball valves

0402 double female — BSPP thread



sand blasted nickel-plated brass body



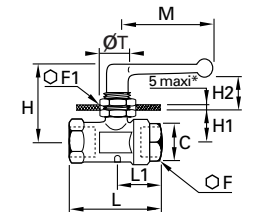
C	BSPP	DN		F	F1	H	H1	L	L1	M	kg
				mm	mm	mm	mm	mm	mm	mm	
G1/8	4	0402 04 10		-	14	35	29	44	25	48	.09
G1/8	7	0402 07 10		19	19	38	31	51	27	48	.17
G1/4	7	0402 07 13		19	19	38	31	53	28	48	.16
G3/8	10	0402 10 17		24	24	45	43	59	31	69	.23
G1/2	13	0402 13 21		27	27	47	44	67	34	69	.29
G3/4	20	0402 20 27		32	38	63	54	80	39	108	.69
G1"	23	0402 23 34		41	46	67	57	94	47	108	1.03
G1"1/4	32	0402 32 42		55	60	97	115	112	59	180	2.43
G1"1/2	32	0402 32 49		55	60	97	115	120	62	180	2.28
G1"1/2	40	0402 40 49		55	55	104	-	111	55	190	2.56
G2"	40	0402 40 48		70	70	104	-	122	61	190	2.75

maximum working pressure: 580 psi

0446 double female panel mounted — BSPP thread



sand blasted nickel-plated brass body



C	BSPP	DN		F	F1	H	H1	H2	L	L1	M	T	kg
				mm	mm	mm	mm	mm	mm	mm	mm	mm	
G1/8	4	0446 04 10		14	22	37	14	12	44	25	48	16.5	.10
G1/4	7	0446 07 13		19	24	45	19	14	53	28	48	20.5	.19
G3/8	10	0446 10 17		24	27	50	21	21	59	31	69	20.5	.29
G1/2	13	0446 13 21		27	27	51	23	21	67	34	69	20.5	.34

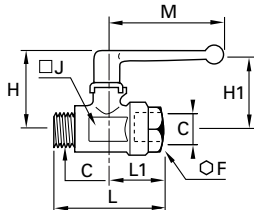
maximum working pressure: 290 psi

for model G 1/8, maximum panel thickness = 3 mm (.118 in)

0401 male female — BSPP thread



sand blasted nickel-plated brass body



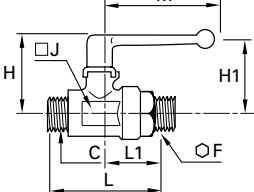
C	BSPP	DN		F	H	H1	J	L	L1	M	kg
				mm	mm	mm	mm	mm	mm	mm	
G1/8	4	0401 04 10		14	35	29	14	45	25	48	.09
G1/8	5	0401 05 10		19	38	31	19	51	27	48	.16
G1/4	7	0401 07 13		19	38	31	19	52	28	48	.15
G3/8	10	0401 10 17		24	45	43	24	58	31	69	.23
G1/2	13	0401 13 21		27	47	44	27	66	34	69	.29
G3/4	18	0401 18 27		38	63	54	39	79	39	108	.71
G1"	23	0401 23 34		46	67	57	48	91	47	108	1.03
G1"1/4	32	0401 32 42		60	97	115	55	113	59	180	2.37

maximum working pressure: 580 psi

0400 double male — BSPP thread



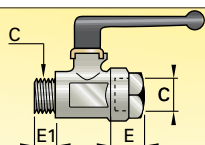
sand blasted nickel-plated brass body



C	BSPP	DN		F	H	H1	J	L	L1	M	kg
				mm	mm	mm	mm	mm	mm	mm	
G1/8	4	0400 04 10		14	35	29	14	45	25	48	.09
G1/4	7	0400 07 13		19	38	31	19	60	36	48	.16
G3/8	10	0400 10 17		24	45	43	24	70	43	69	.25
G1/2	13	0400 13 21		27	47	44	27	78	45	69	.33
G3/4	18	0400 18 27		38	63	54	39	90	50	108	.77

maximum working pressure: 580 psi

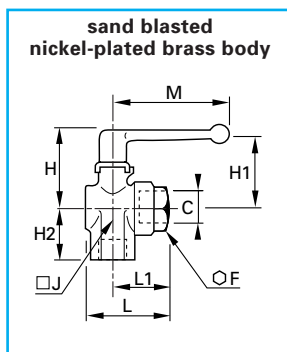
length of female threads (E)
and male BSPP threads (E1)
0402 – 0446 – 0401 and 0400



C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"	G1"1/4	G1"1/2	G2"
E (mm)	8	12	12	15	16.5	19	21.5	22	26
E1 (mm)	7	9	11	12	12	15	18		

ball valves with right angled flow

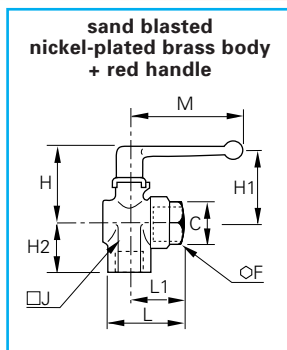
0472 double female — BSPP thread



C	BSPP	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	4		0472 04 10	14	35	29	18	14	34	25	48	.10
G1/8	6		0472 06 10	19	38	31	20	22	37	27	48	.18
G1/4	6		0472 06 13	19	38	31	24	22	38	28	48	.18
G3/8	9		0472 09 17	24	45	43	27	25	46	31	69	.26
G1/2	12		0472 12 21	27	47	44	33	29	49	34	69	.32
G3/4	18		0472 18 27	38	59	51	40	39	60	39	108	.72
G1"	23		0472 23 34	46	63	55	47	48	72	47	108	1.08

maximum working pressure: 290 psi

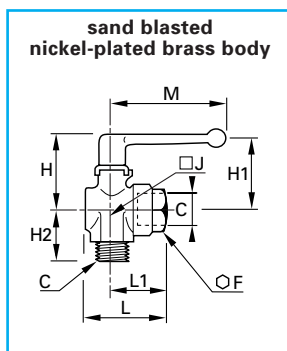
0462 double female with vent — BSPP thread



C	BSPP	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	6		0462 06 10	19	38	31	20	22	37	27	48	.18
G1/4	6		0462 06 13	19	38	31	24	22	38	28	48	.18
G3/8	9		0462 09 17	24	45	43	27	25	46	31	69	.27
G1/2	12		0462 12 21	27	47	44	33	29	49	34	69	.31
G3/4	18		0462 18 27	38	59	51	40	39	60	39	108	.73
G1"	23		0462 23 34	46	63	55	47	48	72	47	108	1.05

maximum working pressure: 290 psi

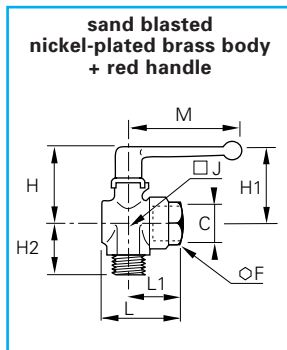
0471 male and female — BSPP thread



C	BSPP	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	4		0471 04 10	14	35	29	19	14	34	25	48	.10
G1/8	6		0471 06 10	19	38	31	22	22	37	27	48	.17
G1/4	6		0471 06 13	19	38	31	25	22	38	28	48	.17
G3/8	9		0471 09 17	24	45	43	28	25	46	31	69	.26
G1/2	12		0471 12 21	27	47	44	32	29	49	34	69	.31
G3/4	18		0471 18 27	38	59	51	37	39	60	39	108	.72
G1"	23		0471 23 34	46	63	55	44	48	72	47	108	1.02

maximum working pressure: 290 psi

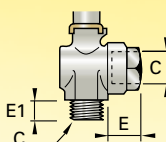
0461 male and female with vent — BSPP thread



C	BSPP	DN		F	H	H1	H2	J	L	L1	M	kg
G1/8	6		0461 06 10	19	38	31	22	22	37	27	48	.17
G1/4	6		0461 06 13	19	38	31	25	22	38	28	48	.17
G3/8	9		0461 09 17	24	45	43	28	25	46	31	69	.26
G1/2	12		0461 12 21	27	47	44	32	29	49	34	69	.31
G3/4	18		0461 18 27	38	59	51	37	39	60	39	108	.70

maximum working pressure: 290 psi

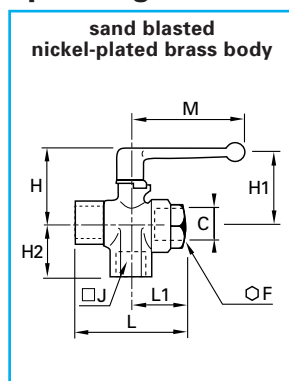
Thread length (E) and **BSP parallel** male thread (E1) for 0472 - 0462 - 0471 and 0461



C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"
E (mm)	8	12	12	15	16.5	19
E1 (mm)	7	9	11	12	12	15

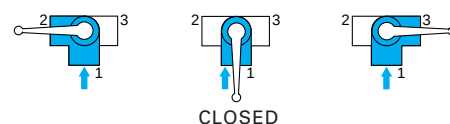
standard 3 way ball valves

0482 female right angled porting — BSPP thread

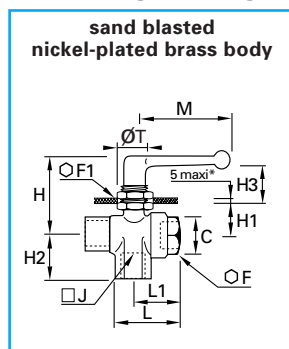


C	BSPP	DN	F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0482 04 10	14	35	29	18	14	44	25	48	.11
G1/4	6	0482 06 13	19	38	31	24	22	53	28	48	.19
G3/8	9	0482 09 17	24	45	43	27	25	59	31	69	.26
G1/2	12	0482 12 21	27	47	44	33	29	67	34	69	.35
G3/4	18	0482 18 27	38	59	51	40	39	80	39	108	.39
G1"	23	0482 23 34	46	63	55	47	48	94	47	108	1.17

maximum working pressure: 290 psi



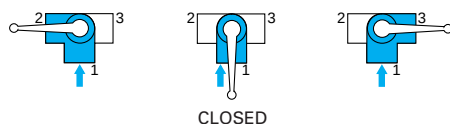
0448 panel mountable female right angled porting — BSPP thread



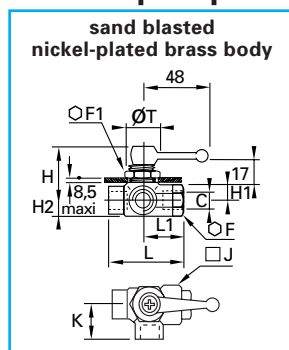
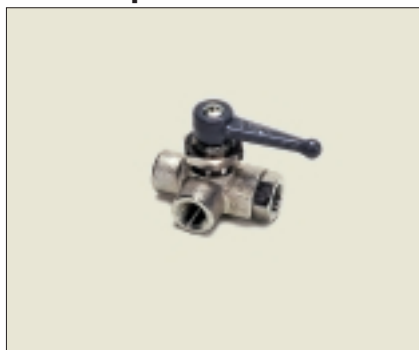
C	BSPP	DN	F	F1	H	H1	H2	H3	J	L	L1	M	T	kg
G1/8	4	0448 04 10	14	22	37	14	18	12	14	44	25	48	16.5	.12
G1/4	6	0448 06 13	19	24	45	19	24	14	22	53	28	48	20.5	.22
G3/8	9	0448 09 17	24	27	50	21	27	21	25	59	31	69	20.5	.32
G1/2	12	0448 12 21	27	27	51	23	33	21	29	67	34	69	20.5	.40

maximum working pressure: 290 psi

*G1/8 version: maximum panel thickness = 3 mm (.118 in)

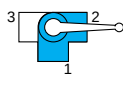


0452 panel mountable female equal plane porting — BSPP thread

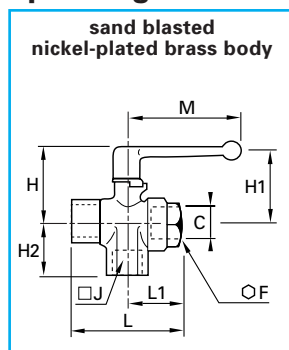


C	BSPP	DN	F	F1	H	H1	H2	J	K	L	L1	T	kg
G1/8	4	0452 04 10	14	22	39	10	8	16	18	44	25	19	.32
G1/4	6	0452 06 13	19	24	40	11	11	23	24	53	28	20	.30

maximum working pressure: 290 psi

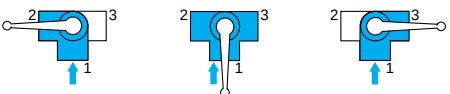


0483 female right angled porting without closed position — BSPP thread

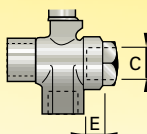


C	BSPP	DN	F	H	H1	H2	J	L	L1	M	kg
G1/8	4	0483 04 10	14	35	29	18	14	44	25	48	.10
G1/4	6	0483 06 13	19	38	31	24	22	53	28	48	.19
G3/8	9	0483 09 17	24	45	43	27	25	59	31	69	.28
G1/2	12	0483 12 21	27	47	44	33	29	67	34	69	.35
G3/4	18	0483 18 27	38	59	51	40	39	80	39	108	.71
G1"	23	0483 23 34	46	63	55	47	48	94	47	108	1.09

maximum working pressure: 290 psi



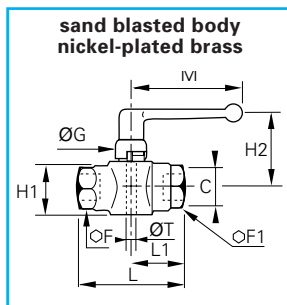
length of internal BSPP thread (E)
for 0482 – 0448 – 0452 and 0483



C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"
E (mm)	8	12	12	15	16.5	19

standard ball valves for screw fixing

6402 double female — BSPP thread



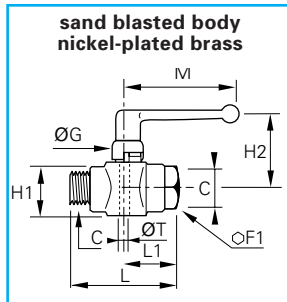
C			E	F	F1	G	H1	H2	L	L1	M	T	
BSPP			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
G1/8	4	6402 04 10	8	14	14	18	18	30	44	25	48	4x70	.13
G1/4	7	6402 07 13	12	19	19	19	24	31	53	28	48	5x80	.22
G3/8	10	6402 10 17	12	24	24	20	30	45	59	31	69	5x80	.32
G1/2	13	6402 13 21	15	27	27	20	34	47	67	34	69	6x100	.39
G3/4	20	6402 20 27	16.5	32	38	27	44	52	80	39	108	8x125	.82
G1"	23	6402 23 34	19	41	46	27	53	56	94	47	108	8x125	1.25

maximum working pressure: 580 psi



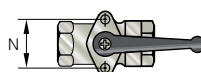
C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"
N (mm)	25	31	31	34	43	51

6401 male and female — BSPP thread



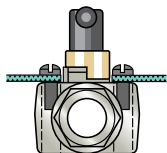
C	DN		E	E1	F	G	H1	H2	L	L1	M	T	
BSPP			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
G1/8	4	6401 04 10	8	7	14	18	18	30	45	25	48	4x70	.13
G1/4	7	6401 07 13	12	9	19	19	24	31	52	28	48	5x80	.22
G3/8	10	6401 10 17	12	11	24	20	30	45	58	31	69	5x80	.32
G1/2	13	6401 13 21	15	12	27	20	34	47	67	34	69	6x100	.39

maximum working pressure: 580 psi

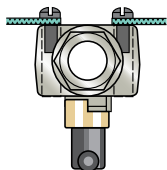


C	G1/8	G1/4	G3/8	G1/2	G3/4	G1"
N (mm)	25	31	31	34	43	51

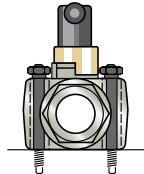
different methods of mounting



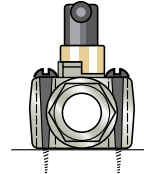
screw fixed mounting on a metal bulkhead with handle above the bulkhead



screw fixed mounting on a metal bulkhead with the complete valve below the bulkhead



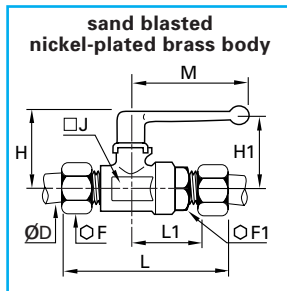
tapped fixing mounting onto a metal plate



wood screw fixed mounting onto a wooden panel

standard in-line valves with tube couplings

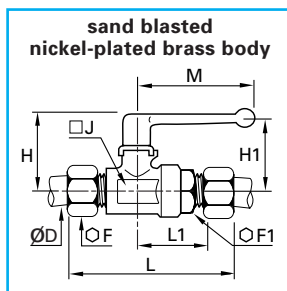
0411 with two couplings fitted for use with steel tube — metric



ØD			F	F1	H	H1	J	L	L1	M	
mm			mm	mm	mm	mm	mm	mm	mm	mm	
6	4	0411 04 06	14	19	38	31	19	76	30	48	.18
8	6	0411 06 08	17	19	38	31	19	77	30	48	.18
10	7	0411 07 10	19	19	38	31	19	78	31	48	.21
12	10	0411 10 12	22	24	45	43	24	85	36	69	.31

maximum working pressure: 580 psi

0414 with two couplings fitted with double taper rings — metric



ØD mm			F	F1	H	H1	J	L	L1	M	
			mm	mm	mm	mm	mm	mm	mm	mm	
6	4	0414 04 06	13	19	38	31	19	72	31	48	.18
8	6	0414 06 08	14	19	38	31	19	74	30	48	.18
10	7	0414 07 10	19	19	38	31	19	78	31	48	.21
12	10	0414 10 12	22	24	45	43	24	86	36	69	.31

maximum working pressure: 580 psi

lenticular shut-off valves

The internal component used to shut-off the flow of Legris **lenticular shut-off valves** is a segment of a sphere. Therefore, these valves are usable with abrasive fluids (including solid particles). Lenticular valves can only accommodate fluid flow in one direction. The fluid direction is shown by an arrow on the valve body. The main advantages of this range are **low operating torque** even with high fluid pressure due to small friction coefficient of lenticule on the ball seal, **perfect sealing**, **small overall dimensions** and long life.

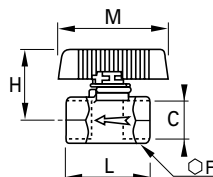
technical specifications:

- maximum working pressure: 20 psi
- working temperature: -4° to 175°F
- compatible fluids: compressed air, industrial gas, water, cutting oil, mineral oil, fuel, inert gases, solid particles...
- lenticule: stainless steel
- seals: nitrile

4602 double female — BSPP thread



sand blasted nickel-plated brass body, black epoxy coated zamac handle



C BSPP		E mm	F mm	H mm	L mm	M mm	kg
G1/4	4602 06 13	9	17	35	34	54	.10
G3/8	4602 07 17	11	22	35	39	54	.14
G1/2	4602 10 21	12	24	37	42	54	.14
G3/4	4602 13 27	14	30	40	49	54	.21
G1"	4602 18 34	15	41	46	55	54	.41

light series ball valves with square stem

Light series ball valves are usable for the passage of many fluids at low pressure and temperatures. Their materials of construction are the same as for the standard series.

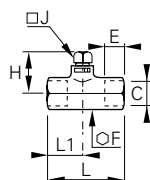
technical specifications:

- maximum working pressure: 175 psi
- maximum working temperature: 175°F

0497 double female with square stem — BSPP thread



sand blasted brass body

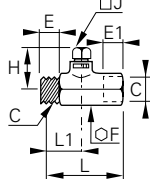


C BSPP	DN		E mm	F mm	H mm	J mm	L mm	L1 mm	kg
G1/4	4	0497 04 13	9	17	25	7	39	17	.07
G3/8	7	0497 07 17	11	22	26	7	45	20	.11
G1/2	10	0497 10 21	12	24	29	10	54	25	.14
G3/4	13	0497 13 27	14	30	30	10	62	28	.23

0496 male and female with square stem — BSPP thread



sand blasted brass body



C BSPP	DN		E mm	E1 mm	F mm	H mm	J mm	L mm	L1 mm	kg
G1/4	4	0496 04 13	9	7	17	25	7	39	17	.07
G3/8	7	0496 07 17	11	8	22	26	7	45	20	.10
G1/2	10	0496 10 21	12	10	24	29	10	53	24	.14
G3/4	13	0496 13 27	14	12	30	30	10	59	25	.22

Legris ball valves – application table

standard and semi-standard ranges

The following table covers ranges 0400 – 0401 – 0402 – 0411 – 0414 – 0432 – 0439 – 0469 – 0489 – 6401 – 6402.

For others part numbers please refer to the corresponding page of the catalog for working pressures. Fluids and temperatures are as shown below

To find the maximum pressure of the valves below, with a 32mm passage, divide by 2.

How to find the fluid, look under:

1. First letter of the first word
2. First letter of the second word
3. In the synonym column

For the fluids, please consult us.

PRODUCT	SYNONYMS / USES	max. pressure psi	temperature in °F		standard	semi-standard					
			min.	max.		20	22	26	27	30	32
ABSOLUTE ALCOHOL		280	-4	Boi. pt							●
ACETONE AND OTHER CETONES	Methylacetyl - Propnone, Dimethylacetone - Ketopropane	280	-4	140							●
ACETOPHENONE	Phenylmethylketone, Hypone Benzaylmethide	280	-4	140							●
ACETYL - ACETONE											●
ACETYLENE (GAS)		280	-4	140	●						
ALUMINA (LIQUID, PASTE OR SUSPENSION)	Aluminium Oxide, Al ₂ O ₃	565	-4	190	●						
AMYL ALCOHOL	Methyl Butanols And Pentanols	280	-4	Boi. pt							●
ANIMAL OIL		280	40	390				●			
ANTIFREEZE OR GLYCOL	Diluted Glycol Or Ethanediol	565	-4	105	●						
ARGON GAS		280	-4	140	●						
AUTOMOTIVE - BRAKE FLUID		280	-4	190							●
BARIUM HYDROXIDE	Barium Hydrate	280	-4	105							●
BENZALDEHYDE	Benzoicdehyde, Benzol Hydride	280	-4	140							●
BENZENE (OR BENZOL)	Benzene, Benzole, Benzine	280	-4	140							●
BENZYL ALCOHOL	Hydroxytoluene Alphaphenyl, Carbinol Pehnmethoyol	280	-4	Boi. pt			●				●
BORAX (PASTE OR LIQUID)		280	-4	140							●
BROMOCHLOR TRIFLUOETHANE	Freon	280	-4	140				●			
BUTADIENE (HYDROCARBON)	Erytrene Or Vinyl Ethylene	280	-4	140					●		
BUTANE		280	-4	140	●						
BUTANOL	Butyl-Alcohol	280	-4	Boi. pt			●				
BUTYL-ALCOHOL	Butanol 1	280	-4	Boi. pt			●				
BUTYLENE (HYDROCARBON)	Butene	280	-4	140			●				
CARBON DIOXIDE		565	-4	140	●						
CASTOR OIL		565	-4	190	●						
COLZA OIL	Oil Seed Rape	565	-4	190	●						
COMPRESSED AIR (GAS)		565	-4	210	●						
COPPER SULPHATE, LIME, SODIUM CARBONATE	Insecticide	280	0	105	●						
CREOSOTE OIL		280	-4	140						●	
CRESOLS	Or Cresvsoids	280	-4	140					●		
CUTTING OIL		565	-4	190	●						
DECALIN (HYDROCARBON, SOLVENT)	Decahydronaphtalene (Terpene)	280	-4	140					●		

Note: because of the many specific environmental factors which might affect corrosion rate such as temperature and concentration, we would suggest that the chart be used as a rough guide to material selection and final acceptability be established by actual test under specific conditions.

standard and semi-standard ranges

PRODUCT	SYNONYMS / USES	max. pressure psi	temperature in °F		standard	semi-standard					
			min.	max.		20	22	26	27	30	32
DETERGENT SOLUTION	Cleaning Fluid	280	-4	210							●
DIACETONE ALCOHOL		280	-4	Boi. pt							●
DIESEL OIL		565	-4	190	●						
DI-ESTERS	Synthetic Lubricant	280	-4	190			●				
DI-ISO-BUTYLENE	Solvent For Resin Preparation	280	-4	140						●	
DI-PENTANE	Aliphatic Hydrocarbon	280	-4	140			●				
DI-PENTENE	Solvent Varnish	280	-4	140			●				
DI-PHENYL-OXIDE (MOULDING DETERGENT)	Coumarone Or Biphénylene Oxyde	280	-4	140					●		
DISTILLED WATER		565		190	●						
EDIBLE FAT	Liquid Or Paste Up To 390°F	280	40	390				●			
EDIBLE OIL	Up To 390°F	280	40	390				●			
ERYTRENE (SEE BUTADIENE)	Or Hydrocarbon Vinyl-Ethylene	280	-4	140					●		
ETHANE (HYDROCARBON GAS)		280	-4	140					●		
ETHANE GAS CH3 CH3		20	-4	140	●						
ETHANEDIOL (SEE GLYCOL) ANTIFREEZE	Ordinary Glycol Or Ethylene-Glycol	280	-4	245							●
ETHYL ALCOHOL		280	-4	Boi. pt							●
ETHYL ALCOHOL	Ethanol	280	-4	140							●
ETHYLENE GLYCOL	Antifreeze Lubricant	280	-4	245							●
FATTY ALCOHOL		280	-4			●					
FLAX OIL		565	-4	190	●						
FUEL		565	-4	105	●						
FUEL OIL		565	-4	105	●						
GLYCERIN	Glycerol Or Propanetriol	280	-4	105	●						
GLYCOL (FOR ANTIFREEZE, LUBRICANT)	Ethylene Glycol	565	-4	105	●						
GRAPHITE (IN SUSPENSION WITH WATER,OIL,FAT)		565	-4	190	●						
HELIUM (GAS)		280	-4	140							●
HEPTANAL		280	-4	120	●						
HEXANE (SOLVENT)		280	-4	140						●	
HIGH OCTANE PETROL	Automotive or Aerospace	280	-4	105		●					
HYDRAULIC OIL	Petroleum Based	565	-4	190	●						
HYDROCARBONS - AROMATIC		280	-4	140			●				
HYDROGEN GAS - AMBIENT TEMPERATURE	Completely Degreased Valve	280	-4	140						●	
HYDROGEN PEROXID		565	-4	85		●					
INK	Printing	280	-4	140					●		
ISO-BUTANE	Methyl, Propane	280	-4	140					●		
ISO-OCTANE		280	-4	140					●		
ISOPROPYL ALCOHOL	Propanol 2	280	-4	Boi. pt							●
KRYPTON GAS KR		280	-4	140	●						
LIGHTING GAS		280	-4	105	●						
LUBRICATING OIL	Petrol based	565	-4	190	●						

Note: because of the many specific environmental factors which might affect corrosion rate such as temperature and concentration, we would suggest that the chart be used as a rough guide to material selection and final acceptability be established by actual test under specific conditions.

standard and semi-standard ranges

PRODUCT	SYNONYMS / USES	max. pressure psi	temperature in °F		standard	semi-standard					
			min.	max.		20	22	26	27	30	32
METHANE GAS CH ₄		280	-4	140	●						
METHANOL	Methyl Alcohol	280	-4	Boi. pt							●
METHYL ALCOHOL	Methanol 1	280	-4	Boi. pt							●
METHYL ALCOHOL (SOLVENT)	Methanol	280	-4	Boi. pt							●
MINERAL OIL		565	-4	190	●						
MINERAL PETROLEUM OIL	Up To 320°F	280	-4	320			●				
NATURAL (VEGETABLE, BEES, CARNAUCA, CHINA, LIGNITE) WAXES		565	-4	190				●			
NATURAL GAS		280	-4	105	●						
NEON GAS NE		280	-4	140	●						
NITROGEN GAS N ₂		565	-4	190	●						
ORDINARY PETROL		280	-4	105	●						
ORDINARY WATER		565		175	●						
OXYGEN (AMBIENT TEMPERATURE)	Degreased	280	-4	105						●	
PAINT AND RELEVANT SOLVENTS		280	-4	140				●			
PARAFFIN	Ozokerite	280	-4	140	●						
PARAFFIN OIL		565	-4	190	●						
PENTANE (LIQUID HYDROCARBON)		280	-4	140	●						
PENTANOLS 1 AND 2	Amylic Alcohol Or Methyl Butanol	280	-4	Boi. pt							●
PETROLEUM		280	-4	105		●					
PETROLEUM FAT		565	-4	190	●						
PETROLEUM OIL AND EMULSION WATER		565	-4	190	●						
PHENOL (ALCOHOLIC OR AQUEOUS SOLUTION)	Phenic Or Carbonic Acid	280	-4	140				●			
PROPANE		280	-4	140	●						
PROPANOLS 1 AND 2	Propyl Alcohol And Isopropyl	280	-4	Boi. pt	●						
PROPENE OR PROPYLENE	Various Preparations - Synthetic	280	-4	140			●				
PROPYL ALCOHOL	Propanol	280	-4	Boi. pt							●
SAPONIFYING LIQUIDS		280		85	●						
SEA WATER		565		175	●						
SEA WATER - HIGH TEMPERATURE		280		300					●		
SOAP	Liquid, Paste, Solutions	280	-4	105							●
SOAP (LIQUID OR PASTE)		565	-4	210	●						
SODIUM CARBONATE (WITH WATER)	Carbonated Water	280	0	105	●						
STARCH - GELS OR PASTE		565	50	105	●						
(GLUE, COSMETICS) C ₆ H ₁₀ O ₅											
STEAM AT 150°C MAXI		280		300							●
SYNTHETIC OIL		280	-4	210							●
TOLUENE	Methyl-Benzene (Solvent,Synthetic)	280	-4	140				●			
TRICHLOROETHYLENE	Fatting Solvent	280	-4	150			●				

Note: because of the many specific environmental factors which might affect corrosion rate such as temperature and concentration, we would suggest that the chart be used as a rough guide to material selection and final acceptability be established by actual test under specific conditions.

standard and semi-standard ranges

PRODUCT	SYNONYMS / USES	max. pressure psi	temperature in °F		standard	semi-standard					
			min.	max.		20	22	26	27	30	32
TURPENTINE	Turps	280	-4	120	●						
VARNISH AND PAINT	And Relevant Solvent	280	-4	140				●			
VASELINE		565	-4	140	●						
VASELINE OIL		565	-4	190	●						
WATER - HIGH TEMPERATURE		280		300							●
WATER WITH CARBONATED GAS		565		190	●						
WHITE SPIRIT	Mix Of Methyl				●						
	And Ethyl Alcohol And Acetone	565	-4	105	●						
XENON (GAS) XE		280	-4	140	●						
XYLENE		280	-4	140			●				

Note: because of the many specific environmental factors which might affect corrosion rate such as temperature and concentration, we would suggest that the chart be used as a rough guide to material selection and final acceptability be established by actual test under specific conditions.