



3/2-way Solenoid Valve, G 1/8 - G 1/4 and sub-base

- Direct-acting, normally closed and normally open
- Brass and stainless steel body
- Electrical connection cable plug Form A
- With or without manual override as standard

Type 6014 can be combined with...



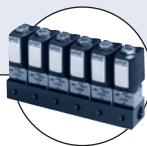
Type 2508

Cable plug



Type 1078

Timer unit



Type 6014

Multiple manifold
(e.g. 6-fold)

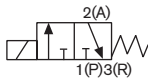


Type 2511

ASI cable plug

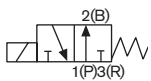
Direct-acting Type 6014 valve for individual or manifold mounting with push-over coil, for use with various media depending on the model. Delivered in various body materials and also suitable for use in technical vacuum.

Circuit function C



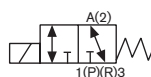
3/2-way valve NC,
outlet 2 relieved

Circuit function D



3/2-way valve NO,
outlet 2 normally
pressurized

Circuit function T



3/2-way
universal valve

Technical data

Port connection	G 1/8, G 1/4, sub-base
Orifice	DN 1.5 - 2.5
Body materials	Brass or stainless steel, Polyamide (sub-base)
Coil materials	Polyamide (Epoxid on request)
Coil insulation class	Polyamide class B (Epoxid class H on request)
Seal material	FKM (EPDM on request)
Media	Neutral gases and liquids e.g. compressed air, town gas, natural gas, water, hydraulic oil petrol. Suitable for technical vacuum
Media temperature Polyamide coil (FKM seal)	-10 to +100°C
Ambient temperature	-10 to +55°C
Viscosity	max. 21 mm ² /s
Operating voltage	24 V DC, 24 V/50 Hz, 230 V/50 Hz (other voltages on request)
Voltage tolerance	±10%
Duty cycle/single valve when mounted as a block on a manifold	100% continuous rating Intermittent operation 60% (30 min) or with 5 W coil (on request)
Electrical connection according to	DIN EN 175301-803 Form A for cable plug Type 2508 (see Ordering chart for Accessories)
Protection class	IP65 with cable plug
Installation	As required, preferably with actuator in upright position

Technical data, continued

Power consumption

Orifice [mm]	Power consumption			DC (hot / cold coil) [W]
	Inrush AC [VA]	Hold AC (hot coil) [VA]	[W]	
1.5-2.5	24	17	8	8 / 9

Response times

Orifice [mm]	Response times AC and DC	
	Opening [ms]	Closing [ms]
1.5	10-15	15-20
2.0	10-15	15-20
2.5	15-20	10-22

Response times [ms]:

Measured at valve outlet at 6 bar and +20 °C

Opening: pressure build-up 0 to 90%, closing: pressure relief 100 to 10%

Utilisation in another circuit function

Valves with circuit functions (WW) C, D and T are fitted with different springs.

If used in some other circuit function, the permissible operating pressure may change (see table below).

Valve version Basic version		Max. operating pressure [bar] for valve application in circuit function				
DN	Circuit function	A	B	C	D	T
1.5	C	16	22	16	2	2
	D	2	2.5	2	16	2
	T	10	16	10	6	6
2.0	C	10	14	10	1	1
	D	1	1.5	1	10	1
	T	6	10	6	4	4
2.5	C	6	9	6	0.7	0.7
	D	0.7	1	0.7	6	0.7
	T	3.5	6	3.5	2.5	2.5

Connections

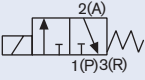
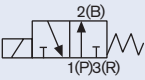
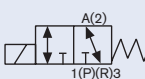
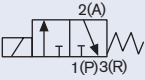
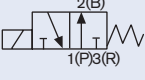
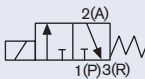
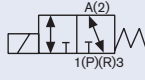
For the positions marked with *, ** or *** in the drawing, page 6, the connections are marked with the letters shown in the table above, depending on the circuit function. Unused connections in circuit functions A or B will be closed off with a blanking plug or cap nut.

Circuit function	Connection type		
	*	**	***
A	P	blank off	A
B	blank off	B	P
C	P	R	A
D	R	P	B
T	P	R	A

Ordering chart for valves (further versions on request)

Threaded port connection

Without cable plug

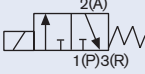
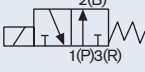
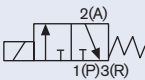
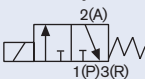
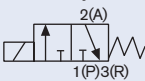
Circuit function	Orifice [mm]	Port connection	Kv value water [m ³ /h] ¹⁾	Pressure range [bar] ²⁾	Effective coil power [W]	Item no. per voltage / frequency		
						024/DC	024/50	230/50
Brass body material								
Without manual override								
C 3/2-way valve NC 	1.5	G 1/8	0.07	0 - 16	8	125 329	125 331	125 332
	2.0	G 1/8	0.11	0 - 10	8	125 333	125 334	125 336
		G 1/4	0.11	0 - 10	8	125 348	126 138	126 140
	2.5	G 1/8	0.16	0 - 6	8	125 341	125 340	125 342
		G 1/4	0.16	0 - 6	8	126 142	126 143	126 145
	D 3/2-way valve NO 	1.5	G 1/8	0.07	0 - 16	8	126 195	126 196
2.0		G 1/8	0.11	0 - 10	8	125 357	125 358	125 360
		G 1/4	0.11	0 - 10	8	126 198	126 199	126 201
2.5		G 1/8	0.16	0 - 6	8	125 363	126 202	126 204
		G 1/4	0.16	0 - 6	8	126 205	126 206	126 208
T 3/2-way universal valve 		1.5	G 1/8	0.07	0 - 7	8	126 150	126 151
With manual override								
C 3/2-way valve NC 	2.0	G 1/8	0.11	0 - 10	8	125 337	125 338	125 339
		G 1/4	0.11	0 - 10	8	125 349	126 147	126 149
D 3/2-way valve NO 	2.0	G 1/8	0.11	0 - 10	8	126 209	125 361	126 211
		G 1/4	0.11	0 - 10	8	126 212	126 213	126 215
Stainless steel body material								
C 3/2-way valve NC 	1.5	G 1/8	0.07	0 - 16	8	126 216	126 217	126 219
	2.0	G 1/8	0.11	0 - 10	8	126 220	126 221	126 223
		G 1/4	0.11	0 - 10	8	126 224	126 225	126 227
T 3/2-way universal valve 	1.5	G 1/8	0.07	0 - 7	8	126 228	126 229	126 231

¹⁾ Measured at +20 °C, 1 bar²⁾ pressure at valve inlet and free outlet.²⁾ Overpressure with respect to atmospheric pressure**Please note** that the cable plug has to be ordered separately, see Accessories on page 5 and separate datasheet for Type 2508.

Ordering chart for valves (further versions on request)

Sub-base connection

Without cable plug

Circuit function	Orifice [mm]	Kv value water [m ³ /h] ¹⁾	Pressure range [bar] ²⁾	Effective coil power [W]	Item no. per voltage / frequency		
					024/DC	024/50	230/50
Brass body material							
Without manual override							
C 3/2-way valve NC 	1.5	0.07	0 - 16	8	126 154	126 155	125 366
	2.0	0.11	0 - 10	8	125 367	125 368	125 370
D 3/2-way valve, NO 	2.0	0.11	0 - 10	8	126 161	126 162	125 383
with manual override							
C 3/2-way valve NC 	1.5	0.07	0 - 10	5	126 403	126 404	126 406
	1.5	0.07	0 - 16	8	126 157	126 158	126 160
	2.0	0.11	0 - 6	5	126 407	126 408	126 410
	2.0	0.11	0 - 10	8	125 371	125 372	125 374
Polyamide body material							
Without manual override							
C 3/2-way valve NC 	1.5	0.07	0 - 10	5	126 390	126 391	126 393
With manual override							
C 3/2-way valve NC 	1.5	0.07	0 - 10	5	126 396	126 397	126 399

¹⁾ Measured at +20 °C, 1 bar²⁾ pressure at valve inlet and free outlet.

²⁾ Overpressure with respect to atmospheric pressure

Please note that the cable plug has to be ordered separately, see Accessories on page 5 and separate datasheet for Type 2508.

i Further versions on request



Materials
Epoxy coil according to Form A
Seal material EPDM



Voltage
Non-standard voltages



Port connection
with banjo nut




Approvals
ATEX, UL, CSA

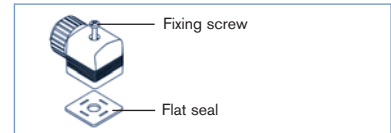


Additional
Orifice: 1.2mm, 3.0mm

Ordering chart for accessory

Cable plug Type 2508 according to DIN EN 175301-803 Form A

	Circuitry	Voltage / frequency	Item no.
	None (standard)	0 - 250 V AC/DC	008 376
	with LED	12 - 24 V AC/DC	008 360
	with LED and varistor	12 - 24 V AC/DC	008 367
	with LED and varistor	200 - 240 V	008 369
	further versions see datasheet Type 2508		

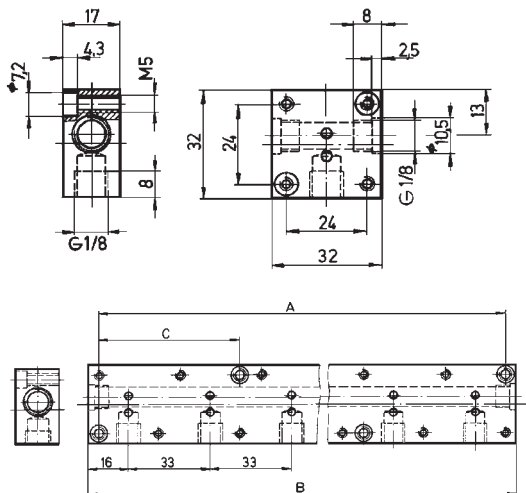


The delivery of a cable plug includes the flat seal and the fixing screw. For other cable plug versions acc. to DIN EN 175301-803 Form A (previously DIN 43650), see separate datasheet Type 2508. Click on the box "More info."... you will come to our website for this product where you can download the datasheet.

More info.

Ordering chart for manifold mounting

Accessory part	Features				Item no.
Single manifold	from aluminium				005 020
Multiple manifold	from aluminium	Hole spacing A [mm]	Total length B [mm]	Hole spacing C [mm]	
	2 valves	57	65	–	005 023
	3 valves	90	98	–	005 286
	4 valves	123	131	–	005 287
	5 valves	156	164	57	005 035
	6 valves	189	197	57	005 038
	8 valves	255	263	57	005 386
	10 valves	321	329	90	005 764
Covering plate	with plugs and O-ring, for closing off unused valve positions				005 630



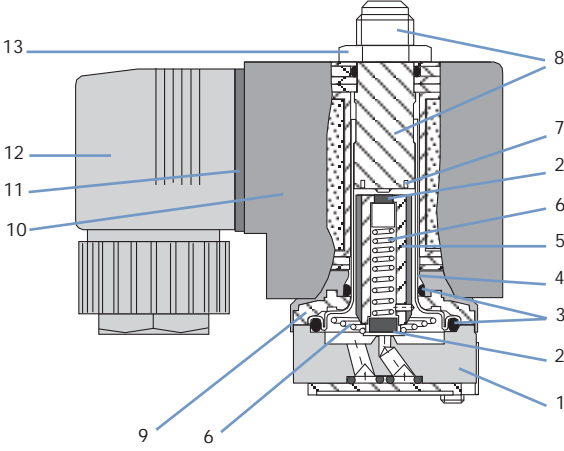
Manifold mounting

With manifold mounting, please comply with the permissible duty cycle (5 W models with 100% continuous rating or 8 W model with 60% duty cycle). The pressure port for the manifold is designated with P (R), and the outlet port with A (B). Only connect together ports with the same designation.

2/2-way valves of Type 6013 can be operated together on a manifold with Type 6014 3/2-way valves circuit function C (not D and T!) if the operating pressures agree according to the rating plates. The manifolds can also be expanded if the valve functions are taken into consideration.

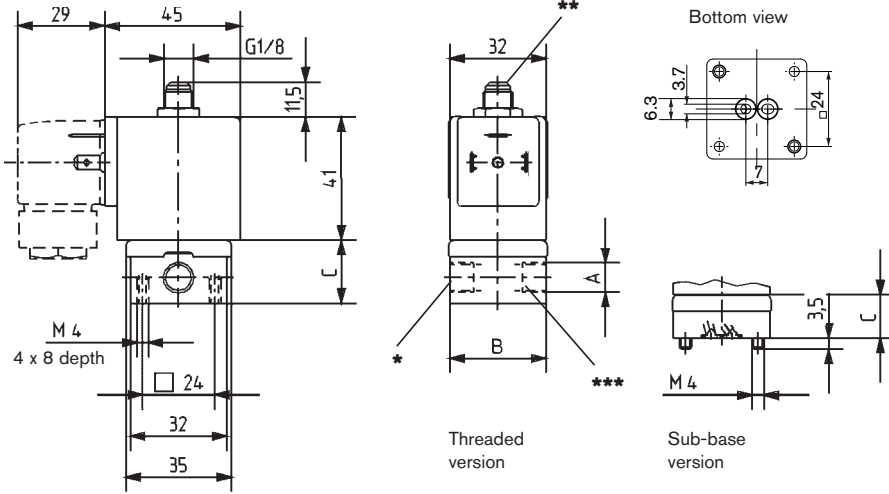
Caution! Unused, open valve ports must be closed off with covering plates (see Ordering chart above).

Materials



1	Valve body:	Brass St. Steel 1.4305 (G 1/8") St. Steel 1.4401 (G 1/4")
2	Plunger seal:	FKM
3	O-rings:	FKM
4	Armature guide tube:	1.4303
5	Plunger:	1.4105
6	Spring:	1.4310
7	Shading ring:	Cu (brass version) Ag (st. steel version)
8	Stopper:	1.4105
9	Flange:	Thick-film passivated
10	Coil:	PA (Polyamide)
11	Flat seal:	NBR
12	Cable plug:	PA (Polyamide)
13	Locknut:	Thick-film passivated

Dimensions [mm]



Dimensions [mm]			
Version	A	B	C
Threaded port without manual override	G 1/8	32	20.8
	G 1/4	46	26.8
Threaded port with manual override	G 1/8	32	20.8
	G 1/4	46	26.8
Sub-base	-	32	14.3

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In case of special application conditions, please consult for advice

Subject to alternations
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