6014





3/2-way Solenoid Valve, direct-acting, NC or NO

- Electrical connection cable plug, Form A
- With or without manual override as standard
- Threaded port and sub-base versions
- Impulse version optional



Type 2508 Cable Plug Type 1078 Timer unit

This direct-acting 3/2-way solenoid valve may be mounted singly or in flange version on a manifold. FKM high quality seal material can be used for a lot of different mediums. The valve is also suitable for technical vacuum.



Type 6014 Multiple manifold (e.g. 6-fold)



Type 2511 ASI cable plug

Technical data	
Body material	Brass or stainless steel, polyamide (sub-base)
Seal material	FKM (EPDM on request)
Medium	Neutral gases and fluids (e.g. compressed air, town gas, natural gas, water, hydraulic oil, petrol). Suitable for technical vacuum
Medium temperature Polyamide coil (FKM seal)	-10° to +100°C (PA coil) to 120°C Epoxy coil
Ambient temperature	-10 to +55°C
Viscosity	Max. 21 mm2/s
Port connection	G 1/8, G 1/4, sub-base
Operating voltage	24 V DC, 24 V/50 Hz, 230 V/50 Hz (other voltages on request)
Voltage tolerance	±10%
Duty cycle / single valve Assembly	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)
Installation	As required, preferably with actuator upright
Protection class	IP65 with Cable Plug
Coil insulation class	Polyamide class B (Epoxy class H on request)
Coil material	Polyamide (Epoxy on request)
Orifice	DN 1.5- 2.5

Circuit function C



Circuit function D



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

3/2-way valve NC, outlet 2 relieved

Circuit function T



3/2-way, universal valve

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Technical data

Power consumption

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

Response times

Orifice	Response times AC and DC			
[mm]	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 - 90%, to

Closing: Pressure relief 100 to 10%

Utilisation in another circuit function

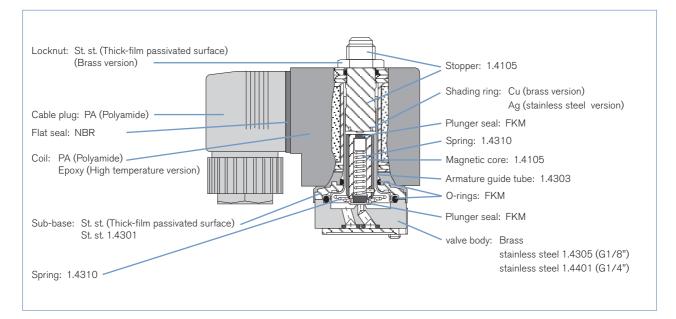
Valves with circuit functions (WW) C, D and T are fitted with different springs. If used in some other circuit function, the permissible operating pressure may change (see table below).

	Version version	Max. operating pressure [bar] for valve application in circuit function				
DN	Circuit function	А	В	С	D	Т
1.5	С	16	22	16	2	2
	D	2	2.5	2	16	2
	Т	10	16	10	6	6
2.0	С	10	14	10	1	1
	D	1	1.5	1	10	1
	Т	6	10	6	4	4
2.5	С	6	9	6	0.7	0.7
	D	0.7	1	0.7	6	0.7
	Т	3.5	6	3.5	2.5	2.5

Connections For the positions marked with *, ** or *** in the drawing, 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			
	*	**	***	
А	Р	blank off	А	
В	blank off	В	Р	
С	Р	R	А	
D	R	Р	В	
Т	Р	R	А	

Materials





Ordering chart for valves (other versions on request)

Valves with threaded port								
Circuit function	Orifice [mm]	Port connection	Kv value water [m3/h] ^{ı)}	Pressure range [bar] ²⁾	Effective coil power [W]	on mətl	. per voltage / fr 03/720 20	equency 03/020
Brass body								
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(A)	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
1(P)3(R)	2.5	G [mm] 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
3 /2 way valve, NO	1.5	G 1/8	0.07	0 - 16	8	126 195	126 196	125 355
2(B)	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
1(P)3(R)	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 Jniversal valve A(2) T T T T T T T T T T		G 1/8	0.07				126 151	126 153
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
2(A) 1(P)3(R)		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
2(B) 1(P)3(R)		G 1/4	0.11	0 - 10	8	126 212	126 213	126 215
Stainless steel body								
C 3/2-way valve NC	1.5	G 1/8	0.07	0 - 16	8	126 216	126 217	126 219
2(A)	2.0	G 1/8	0.11	0 - 10	8	126 220	126 221	126 223
	2.0	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 difference

 $^{\mbox{\tiny 2)}}$ Measured as overpressure to the atmospheric pressure

Please note that the cable plug has to be ordered separately, see accessories on page 6 and separate datasheet for Type 2508.



Ordering chart for valves (other versions on request)

Valves with sub-base body without cable plug

95 067 125 366 125 370
125 370
125 383
126 406
126 160
126 410
125 374
126 393
126 399

¹⁾ Measured at +20 °C, 1 bar ²⁾ pressure difference

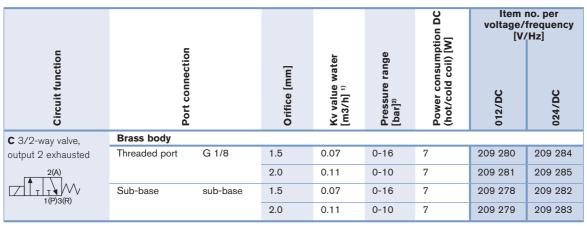
 $^{\scriptscriptstyle 2)}$ Measured as overpressure to the atmospheric pressure

Please note that the cable plug has to be ordered separately, see accessories on page 6 and separate datasheet for Type 2508.



Ordering chart for valves, impulse version (other versions on request)

All valves with AC10-coil (32 mm), impulse Version, seal material FKM, thermic insulation class H (epoxy coil), medium temperature -10° up to +120°C, without manual override and Cable Plug



¹⁾ Measured at +20 °C, 1 bar²⁾ pressure difference

²⁾ Measured as overpressure to the atmospheric pressure

Please note that the cable plug has to be ordered separately, see accessories on page 6 and separate datasheet for Type 2508.

Activation of the impulse version with inverse polarity operation

The polarity is labelled on the valve	Specifications	Terminal connections
- switch ON +	valve (P-seat) will be opened	(+) on terminal 2 and (-) on terminal 1 (see below)
+ switch OFF -	valve (P-seat) will be closes	(+) on terminal 1 and (-) on terminal 2 (see below)



Note: Only cable plug without circuitry should be used together with impulse version!

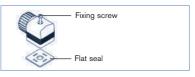




Ordering chart for accessory

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

Circuitry	Voltage/ Frequency	ltem 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- 240V	008 369
with inverter 1)	24V DC	on request
further versions see datasheet Type	2508	



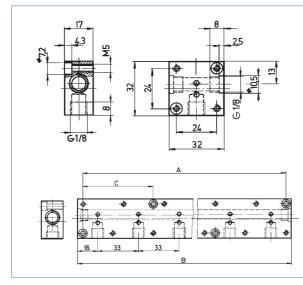
The delivery of a cable plug includes the flat seal and the fixing screw. For other cable plug versions acc. to DIN EN 175301-803 Form A (previously DIN 43650), see separate datasheet Type 2508. Click on the box "More info." and you will come to our website for this product where you can download the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

¹ The inverter plug includes an electronic which is specially adapted for an electrical control with 3 wires Input 3 wire technology, common "-" polarity, two split "+" polarity. Output suitable for impulse model for Type 6013/6014

Ordering chart for Manifolds

Accessory parts	Features				Item no.
Single manifold	in aluminium black anodized				005 020
Multiple manifold	in 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	90	005 386
	10 valves	321	329	90	005 764
Covering plate	١	with plugs and O-ring, for c	losing off unused valve pos	sitions	005 630

Manifolds in Brass or stainless steel on request



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.

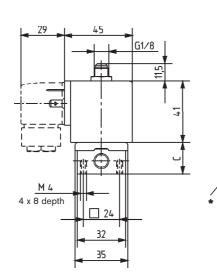
2/2-way values of Type 6013 can be operated together on a manifold with 3/2-way values of Type 6014, circuit function C (not D or TI) if the operating pressures agree according to the rating plates. The manifolds can also be expanded if the value functions are taken into consideration.

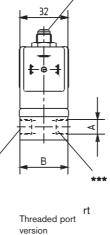
Caution! Unused, open valve ports must be closed off with covering plates (see ordering chart above).

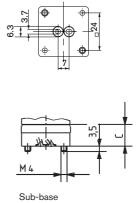


Bottom view

Dimensions [mm]







version

Dimensions [mm]						
version	Α	В	С			
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.

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