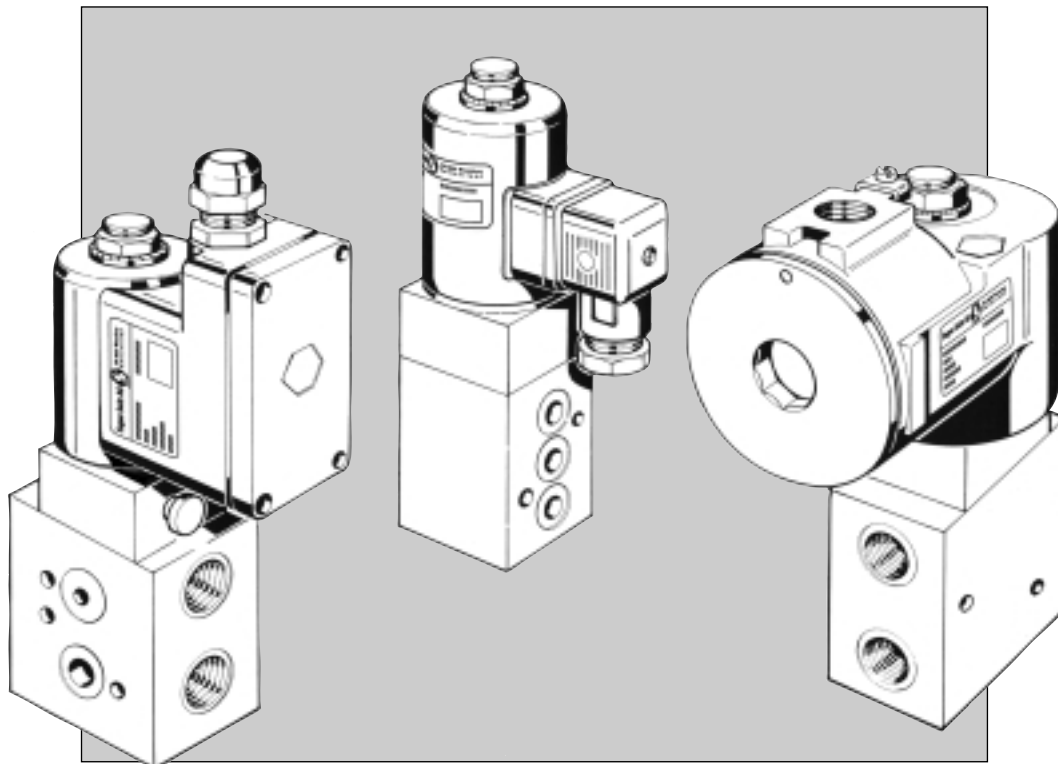


Direct acting solenoid valves

- **3/2 way universal solenoid valves**
- **For air, gases and liquids**
- **Orifice size 7 or 10 mm**
- **Pressure range 0 ... 12 bar**
- **Vacuum**



The UV valve group

The UV "Univalve" group belongs to the series of direct acting solenoid valves. Depending on the desired function, the three connections may be used either as pressure or vacuum connections, independent of the working pressure.

Application

Group UV solenoid valves can be used to operate control fittings, diaphragm actuators, rotary operating mechanisms, flaps and cylinders. In combination with a NAMUR flange fitting, they are particularly suited to the control of large rotary actuators with a spring return. The integral spring space ventilation provides protection against polluted ambient air. Typical application fields are above all in chemical and petrochemical systems, as well as in motor and compressor construction.

Type overview

orifice size	ports	solenoid size	weight [g]	pressure [bar]	Kv-value [l/min] [m³/h]	valve type	fig. no	
7	BSP 1/4	2	800	0 ... 12 and vacuum	18 1.08	UV 0732 UGD	1	
	NPT 1/4	2	800		18 1.08	UV 0732 UTD	1	
10	BSP 1/2	2	950		28 1.68	UV 1032 UGD	2	
	NPT 1/2	2	950		28 1.68	UV 1032 UTD	2	
	NAMUR	2	950		28 1.68	UV 1032 CND	3	
	flange	2	800		28 1.68	UV 1032 UFD	4	
in stainless steel								
10	flange	2	1850		0 ... 12 and vacuum	28 1.68	UV 1032 UFD/20	4

Manifolds

no. of valves	length [mm]	manifold type / order no.			
		UV 07 G	UV 10 G	UV 07 T	UV 10 T
2	137	119 609-02	119 607-02	119 621-02	119 620-02
4	243	119 609-04	119 607-04	119 621-04	119 620-04
6	349	119 609-06	119 607-06	119 621-06	119 620-06
8	455	119 609-08	119 607-08	119 621-08	119 620-08
10	561	119 609-10	119 607-10	119 621-10	119 620-10
ports 1 + 3 port 2		BSP 1/2 BSP 1/4	BSP 1/2 BSP 1/2	NPT 1/2 NPT 1/4	NPT 1/2 NPT 1/2

Connection chart

Depending on the desired application and function, connections must be assigned as follows

function	3/2 NC			3/2 NO			2/2 NC			2/2 NO			diverter			mixer		
ports	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	I	PS	O	O	PC	I	PC	I or PC	C	C	I or PC	PC	PC	I	PC	I	PC	I

I = Inflow, O = Outflow, PC = Process control, C = Close

Standard models

Type

direct acting solenoid valve featuring poppet valve technology

Function

universel, pressure connections optional, to desired function and application

Pressure range

0 ... 12 bar (higher pressure ranges on request)

Vacuum range

1... 1013 mbar

Media

– dry or lubricated air
– inert gases or liquides

Temperatures

– medium: –20 ... +60 °C
– ambient: –20 ... +60 °C
Please observe the allowed ambient temperature range for the solenoid!

Materials

– housing: Aluminium ematal coated, resp. stainless steel 1.4571 (AISI 316 Ti)
– internal parts: stainless steel
– seals: Nitrile rubber (NBR)

Mounting position

optional

Switching times

on: 40 ms, off: 60 ms

Mounting options

– pipe installation
– flange installation
– NAMUR flange fitting

Further models

Other materials may be used on request, or to meet particular requirements:

Seals

FPM, EPDM, etc

EMATAL – Corrosion protection

The aluminium valves of Eugen Seitz AG are 'ematalised' as standard. Ematal is a surface treatment where valves receive a highly compact and hard, combined aluminium oxide and titanium oxide coating. This results in long-lasting protection against corrosion and mechanical stress.

Subbases

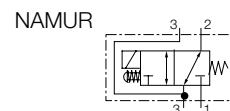
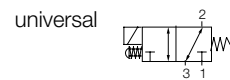
Only for solenoid valves made in stainless steel.

ports	Kv-value [m³/h] [l/min]	subbase type	order no.
BSP 1/4	1.08	UV 07 G/20	120 088 01
NPT 1/4	18	UV 07 T/20	120 089 01
BSP 1/2	1.68	UV 10 G/20	120 090 01
NPT 1/2	28	UV 10 T/20	120 115 01

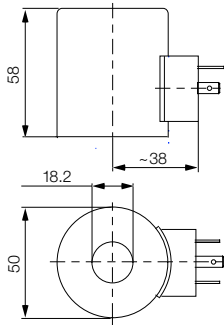
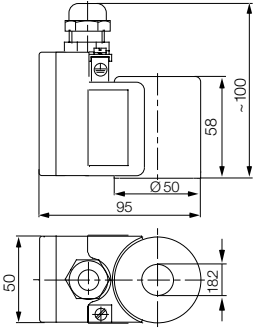
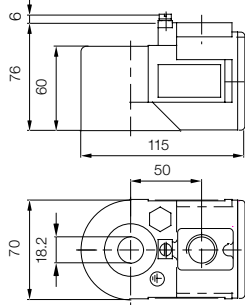








Please note

Combination with subbaes UV 07... will result in a reduced Kv-value.

Function symbols



Technical data of solenoids

Solenoids	With standard protection	For potentially explosive atmospheres				
Drawing						
Solenoid type	DC	2 A 37	2 A 52	2 A 53	2 A 65 / 2 E 65	2 A 67 / 2 E 67
	AC	2 C 37	2 C 52	-	2 C 65	2 C 67
	UC	-	2 F 52	2 F 53	2 F 65	2 F 67
Integrated fuse	no	no	with	no		
Rated voltage (others on demand)	24 V, 110 V, 230 V	24 V, 60 V, 110 V, 230 V	24 V	24 V, 110 V, 125 V, 220 V, 230 V		
Operating time	100 %	100 %		100 %		
Ambient temperature	-20 ... +60 °C	-20 ... +40 °C		(-50) -20 ... +90 °C		
Ex-protection	-	Ⓢ II 2 G EEx em II T4 Ⓢ II 2 D IP 65 T 130 °C		Ⓢ II 2 G EEx d IIC T6 ... T4		
Degree of protection	IP 65	IP 65		IP 65		
Rated power	DC 11 W AC 15 VA	DC 12 W AC 15 VA		DC 7 W AC 12 VA		
Connection	Plug-type connection according to DIN 43650 form A. Connector with Pg 11 gland. Available with/without socket.	Cable terminal box. Coil completely sealed. Cable inlet with M20x 1.5 gland.		Cable terminal box. Cable inlet thread NPT 1/2	Cable terminal box. Cable inlet thread M20x 1.5	
Certificate		  		    GOST		
Weights	~530 g	~580 g		~1700 g		

Detailed information about the entire range of solenoids can be found in separate leaflets.

How to order
