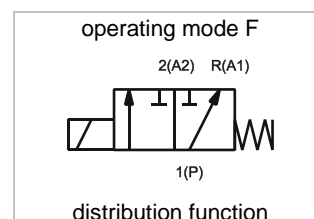
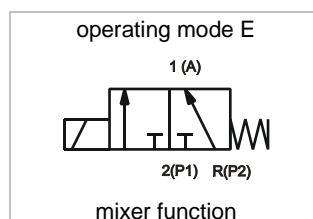
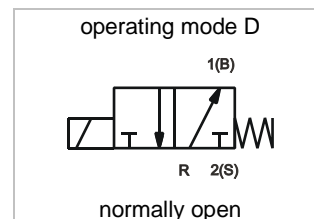
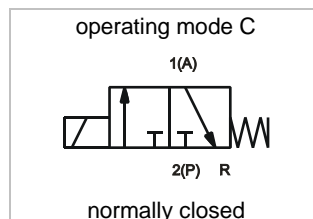


**3/2 way solenoid valve normally closed or normally open**

**type 94, body stainless steel  
direct operated, DN 1,5 – 4,0 mm, G1/4**



SPECIFICATION	
<b>general</b>	
type of construction	3/2-poppet valve, normally closed NC or normally open NO, coil 360° rotatable
operator	solenoid, or optional by manual override
ports	G1/4, tube with G1/8 female thread
ambient temperature	-20°C to +50°C, higher allowed ambient temperatures on request
fluid temperature	dependent on sealing material and coil
viscosity	max. 21mm <sup>2</sup> /s (cst) bzw 3°E
material	body and tube: stainless steel inner parts and nozzle : stainless steel AISI 303 and AISI 430FR sealing: see type selection
mounting	2 threads M4
installation	in any position, preferable vertical fixed solenoid coil
unit of supply	without connector
<b>electrical data</b>	
voltage	DC voltage or AC voltage
standard voltage	24V DC, 24V AC, 230V AC
special voltage on request	6V-207V DC, 12V-240V, 50Hz or 60Hz
acceptable voltage tolerance	+/- 10%
power consumption	see specifications at solenoid coils
coil type	temperature class F (155°C), winding class H (180°C)
duty cycle	100% ED (DB), continuous operation
protection class	IP65 according DIN EN 60529 (DIN 40050) with correctly mounted connector
<b>pneumatic – hydraulic</b>	
flow medium	all liquids and gases, which don't attack the used material
response time	12 – 20ms
special equipment on request	coil type with cable, coil EExmIIT5, coils for temperature class H (180°C), other sealing materials

E & OE: We reserve the right to change design, dimensions or materials without notice.

type 94C, 3/2 way solenoid valve normally closed, pressure port at 2 (P)					
type * (order-nr.)	ports	NW DN (mm)	maximum differential pressure in bar **	kv-value body nozzle (m <sup>3</sup> /h)	kv-value pole nozzle (m <sup>3</sup> /h)
94C-2.1515EA-A E1AA	G1/4	1,5	0-18	0,08	0,07
94C-2.2020EA-A E1AA		2,0	0-13	0,13	0,12
94C-2.2525EA-A E1AA		2,5	0-8	0,19	0,18
94C-2.3030EA-A E1AA		3,0	0-6	0,25	0,23
94C-2.3530EA-A E1AA		3,5	0-3,5	0,30	0,23
94C-2.4030EA-A E1AA		4,0	0-2,5	0,37	0,23
94C-2.1515EA-A EXFA		1,5	0-18	0,08	0,07
94C-2.2020EA-A EXFA		2,0	0-13	0,13	0,12
94C-2.2525EA-A EXFA		2,5	0-8	0,19	0,18
94C-2.3030EA-A EXFA		3,0	0-6	0,25	0,23
94C-2.3530EA-A EXFA		3,5	0-3,5	0,30	0,23
94C-2.4030EA-A EXFA		4,0	0-2,5	0,37	0,23
94C-2.1515FA-A E3AE		1,5	0-30	0,08	0,07
94C-2.2020FA-A E3AE		2,0	0-23	0,13	0,12
94C-2.2525FA-A E3AE		2,5	0-18	0,19	0,18
94C-2.3030FA-A E3AE		3,0	0-14	0,25	0,23
94C-2.3530FA-A E3AE		3,5	0-10	0,30	0,23
94C-2.4030FA-A E3AE		4,0	0-8	0,37	0,23

\* Type designation (order-nr.) must be completed with sealing material, coil and supply voltage. (see order code)

\*\* All specifications refer to fluids with a maximum viscosity of 37 cst. (5°E). Higher viscosities cause extended response time and need a special specification of the valve.

sealing material	Code	fluid temperature	applicable for	standard voltage	Code
NBR (Perbunan)	<b>B</b>	max. 80 °C	neutral gases and liquids	24V = DC	<b>02400</b>
EPDM	<b>E</b>	max. 120 °C	hot water, steam, not for oil and grease	24V ~ (50Hz)	<b>02450</b>
FPM	<b>V</b>	max. 130 °C	oil, petrol, oxygen	230V ~ (50Hz)	<b>23050</b>

coil power consumption at 20 °C, protection class, interface					
coil type	inrush power ~ (50Hz) VA	rated power ~ (50Hz) VA	power = (DC) (W)	protection class with/without connector	interface
E1AA	32	14	12	IP65 / IP00	Connector DIN EN 175301 – 803 (DIN 43650), type A
E3AE	70	32	27	IP65 / IP00	Connector DIN EN 175301 – 803 (DIN 43650), type A
EXFA	9	9	10,3	IP65	Coil explosion proof according to ATEX II 2G Ex mb II T4 II 2D ExtDA21 IP65 T130°C cable length 3 meter

ORDER CODE	94 C - 2 B 20 20 E A - A E1AA 23050					
	type	function	ports	seals material	nominal size seat body	nominal size seat pole
type	type 94, body and tube: stainless steel					
function	C = normally closed, D = normally open, E = mixer function, F= distribution function					
ports	2 = G1/4					
seal material	B = NBR (Perbunan), E = EPDM, V = FPM					
nominal size seat body	15 = 1,5 mm, 20 = 2,0 mm, 25 = 2,5mm, 30 = 3,0 mm, 35 = 3,5mm, 40 = 4,0 mm					
nominal size seat pole	15 = 1,5 mm, 20 = 2,0 mm, 25 = 2,5mm, 30 = 3,0 mm,					
external core spring	A = normally open, E = normally closed (spring set 13N), F = normally closed (spring set 22N)					
internal core spring	A = normally closed, B = normally open					
short circuit ring	A = copper short circuit ring, X = without short circuit ring					
coil type	see specifications of the particular coil					
supply voltage	always 5-digit, see code of standard voltage					

**type 94D, 3/2 way solenoid valve normally open, pressure port at 3 (R)**

type * (order-nr.)	threaded connection	NW DN body nozzle (mm)	NW DN pole nozzle (mm)	maximum differential pressure in bar **		kv-value body nozzle (m <sup>3</sup> /h)	kv-value pole nozzle (m <sup>3</sup> /h)
				fluid compressed air	fluid water		
94D-2.5151AB-A E1AA	G1/4	1,5	1,5	0 – 26	0 – 23	0,08	0,07
94D-2.2020AB-A E1AA	G1/4	2,0	2,0	0 – 16	0 – 14	0,13	0,12
94D-2.2525AB-A E1AA	G1/4	2,5	2,5	0 – 11	0 – 10	0,19	0,18
94D-2.3030AB-A E1AA	G1/4	3,0	3,0	0 – 7	0 – 6	0,25	0,23
94D-2.1515AB-A EXFA	G1/4	1,5	1,5	0 – 26	0 – 23	0,08	0,07
94D-2.2020AB-A EXFA	G1/4	2,0	2,0	0 – 16	0 – 14	0,13	0,12
94D-2.2525AB-A EXFA	G1/4	2,5	2,5	0 – 11	0 – 10	0,13	0,18
94D-2.3030AB-A EXFA	G1/4	3,0	3,0	0 – 7	0 – 6	0,25	0,23

\* Type designation (order-nr.) must be completed with sealing material, coil and supply voltage. (see order code)

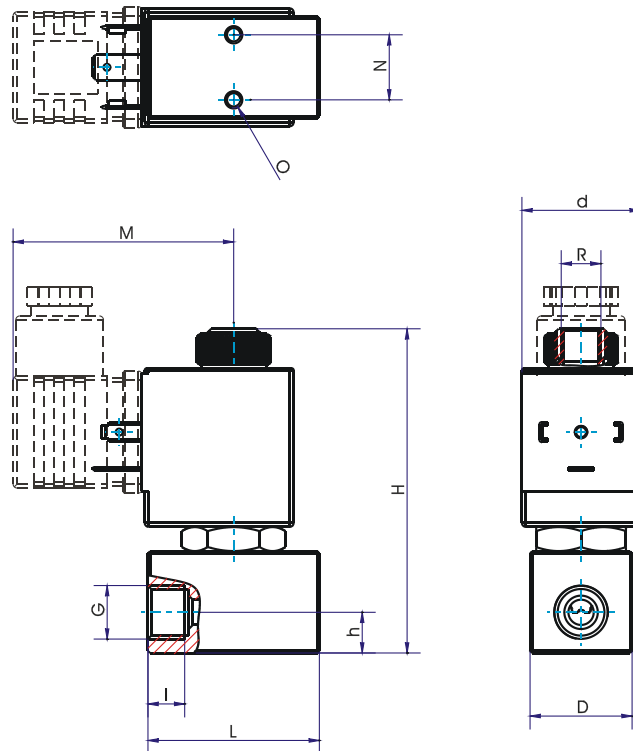
\*\* All specifications refer to fluids with a maximum viscosity of 31 cst. (3°E). Higher viscosities cause extended response time and need a special specification of the valve.

**type 94E, 3/2 way solenoid valve with mixer function**

technical data on request according to the input pressures at 2 und p2.

**type 94F, 3/2 way solenoid valve with distribution function**

technical data on request according to the pressure level at 1,2 und R.



**dimension table for type 94 in mm, weight approx. in g**

G	N	O	H	h	I	L	D	R	coil						weight approx. g		
									E1AA		EXFA		E3AE		E1AA		EXFA
									M	d	M	d	M	d			
G 1/4	16	M4	80	10	9	42	25	G 1/8	52	30	45	30	54	36	330	670	416