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Actuator Ø 22,5 mm

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Actuator Ø 30 mm

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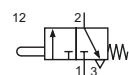
Technical details

Connection	M5
Nominal size	2 mm
Temperature range	-10°C ... +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR, inner parts: stainless steel and brass, stem: stainless steel (E), plastic (ER, EL), roller: stainless steel (ER), plastic (EL), lever: brass

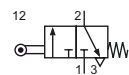
Mechanically operated seat valve.



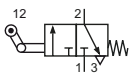
3/2-way-valves



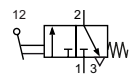
E-25-310
3/2-way, mechanical spring return,
stem operated



ER-25-310
3/2-way, mechanical spring return,
roller operated



EL-25-310
3/2-way, mechanical spring return,
roller operated with free return



EH-25-310
3/2-way, mechanical spring return,
hand lever operated

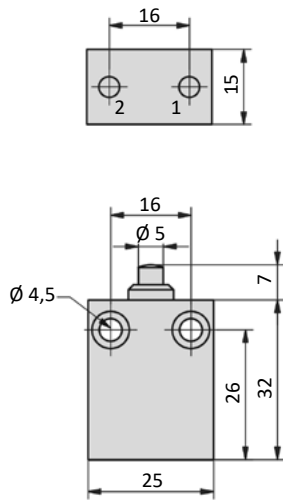
Technical data

Model-no.:	E-25-310	ER-25-310	EL-25-310	EH-25-310
Operating pressure (bar)	0 ... 12	0 ... 12	0 ... 12	0 ... 12
Flow rate (NI/min)	80	80	80	80
Actuating force at 6 bar (N)	15	8	8	4.5
Pre-stroke (mm)	1.25	1.5	1.5	1.5
Actuation stroke (mm)	1.25	1.5	1.5	1.5
Pre actuation stroke (mm)	1.5	1.2	1.2	1.2
Weight (kg)	0.035	0.046	0.044	0.036

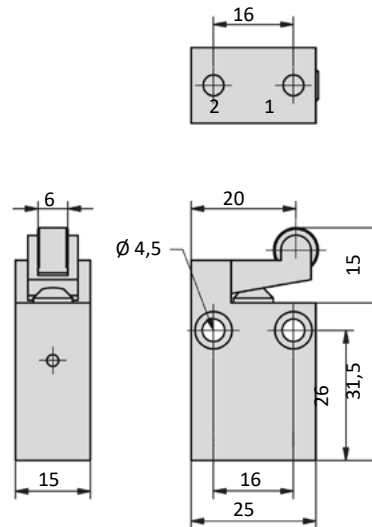
Series E-25

Dimensions

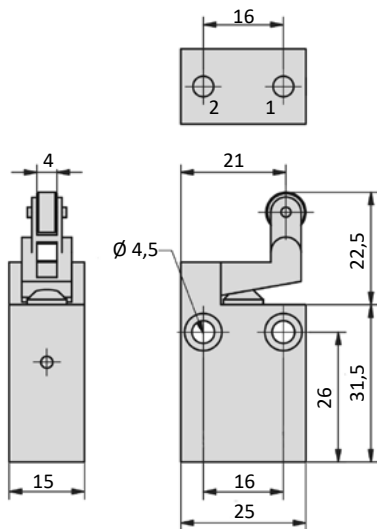
E-25-310



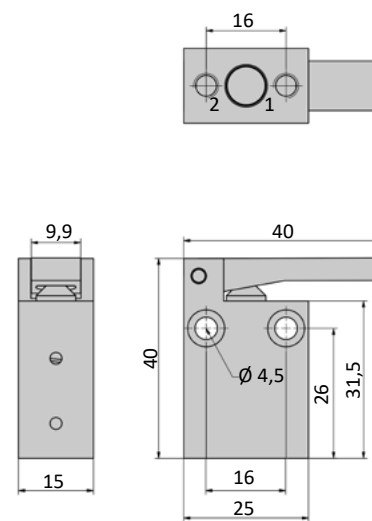
ER-25-310



EL-25-310



EH-25-310



1 = pressure inlet
2 = outlet

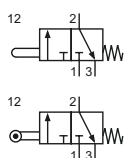
Technical details

Connection	G1/8
Nominal size	4 mm
Temperature range	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR, inner parts: Al, stainless steel and brass, stem, lever: stainless steel, roller: plastic
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas (chap. 12)



Mechanically operated seat valve.

3/2-way-valves



E-28-310
3/2-way, mechanical spring return,
stem operated

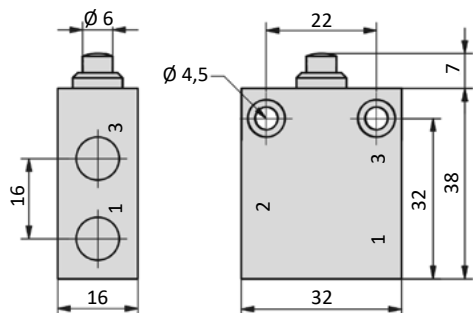
ER-28-310
3/2-way, mechanical spring return,
roller operated

Technical data

Model-no.:	E-28-310	ER-28-310
Operating pressure (bar)	0 ... 12	0 ... 12
Flow rate (NI/min)	210	210
Actuating force at 6 bar (N)	16	9
Pre-stroke (mm)	1	2
Actuation stroke (mm)	1	1
Pre actuation stroke (mm)	2	2
Weight (kg)	0.053	0.063

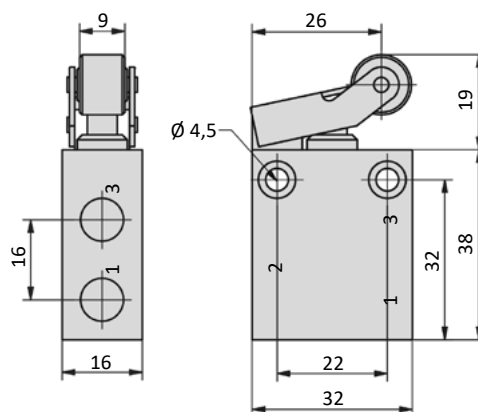
Dimensions

E-28-310



1 = pressure inlet
2 = outlet
3 = exhaust

ER-28-310



Series E-18

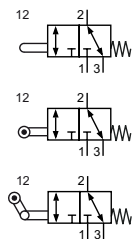
Technical details

Connection	G1/8
Nominal size	4 mm
Temperature range	-10°C ... +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR, inner parts: stainless steel and brass, stem: stainless steel (E), plastic (ER, EL), roller: plastic, lever: Al (anodized), brass



Mechanically operated spool valve.

3/2-way-valves

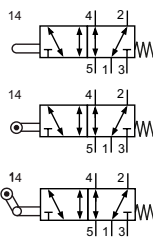


E-18-310
3/2-way, mechanical spring return, stem operated

ER-18-310, ERZ-18-310
3/2-way, mechanical spring return, roller operated

EL-18-310
3/2-way, mechanical spring return, roller operated with free return

5/2-way-valves



E-18-510
5/2-way, mechanical spring return, stem operated

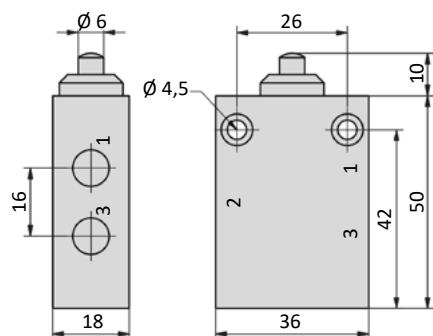
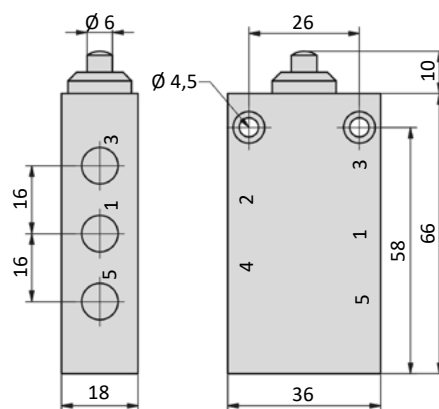
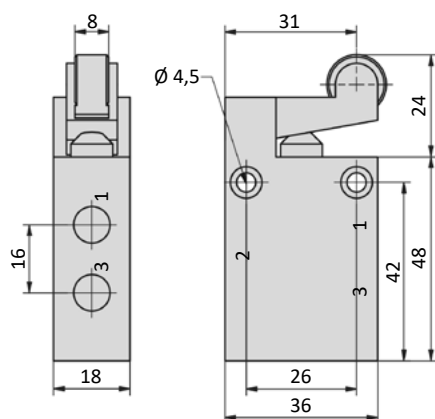
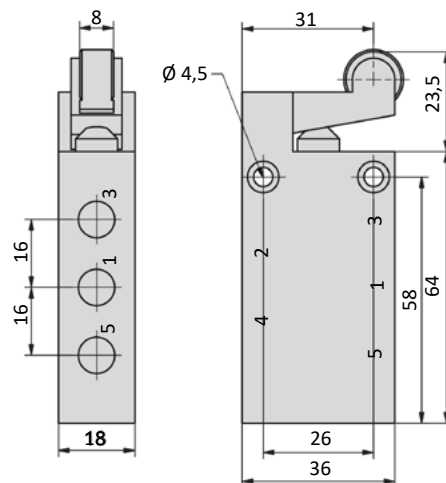
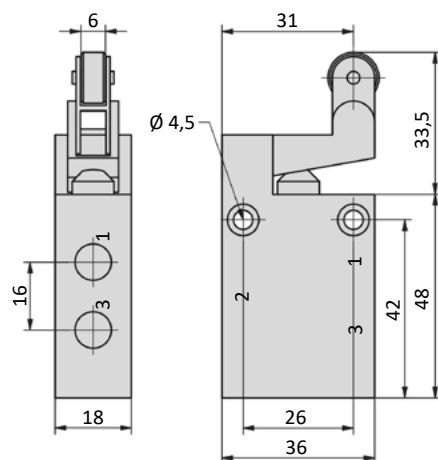
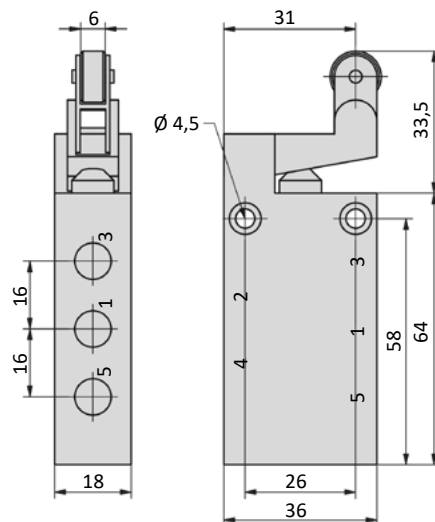
ER-18-510, ERZ-18-510
5/2-way, mechanical spring return, roller operated

EL-18-510
5/2-way, mechanical spring return, roller operated with free return

Technical data

Model-no.:	E-18-310	ER-18-310, ERZ-18-310	EL-18-310
Operating pressure (bar)	0 ... 12	0 ... 12	0 ... 12
Flow rate (NI/min)	320	320	320
Actuating force at 6 bar (N)	27	17	17
Pre-stroke (mm)	1.5	2.5	2.5
Actuation stroke (mm)	2.5	2.5	2.5
Pre actuation stroke (mm)	1	3.5	3.5
Weight (kg)	0.094	0.102	0.099

Model-no.:	E-18-510	ER-18-510, ERZ-18-510	EL-18-510
Operating pressure (bar)	0 ... 12	0 ... 12	0 ... 12
Flow rate (NI/min)	320	320	320
Actuating force at 6 bar (N)	27	17	17
Pre-stroke (mm)	1.5	2.5	2.5
Actuation stroke (mm)	2.5	2.5	2.5
Pre actuation stroke (mm)	1	3.5	3.5
Weight (kg)	0.118	0.125	0.123

Dimensions
E-18-310

E-18-510

ER-18-310, ERZ-18-310

ER-18-510, ERZ-18-510

EL-18-310

EL-18-510


1 = pressure inlet
2,4 = outlets
3,5 = exhausts

Series E-30

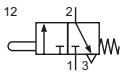
Technical details

Connection	M5
Nominal size	2 mm
Temperature range	-10°C ... +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: FKM, NBR, inner parts: stainless steel, brass, stem: stainless steel



Mechanically operated seat valve.

3/2-way-valve



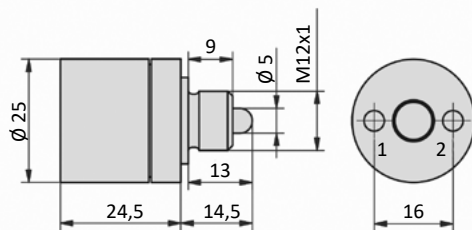
E-30-311-M12
3/2-way, mechanical spring return,
stem operated

Technical data

Model-no.:	E-30-311-M12
Operating pressure (bar)	0 ... 12
Flow rate (NI/min)	110
Actuating force at 6 bar (N)	21
Pre-stroke (mm)	1
Actuation stroke (mm)	1
Pre actuation stroke (mm)	2
Weight (kg)	0.037

Dimensions

E-30-311-M12



1 = pressure inlet
2 = outlet

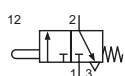
Technical details

Connection	M5
Nominal size	2,5 mm
Temperature range	-10°C ... +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR, inner parts: stainless steel and brass, stem: stainless steel



Mechanically operated seat valve including mounting adapter for actuator installation.

3/2-way-valve



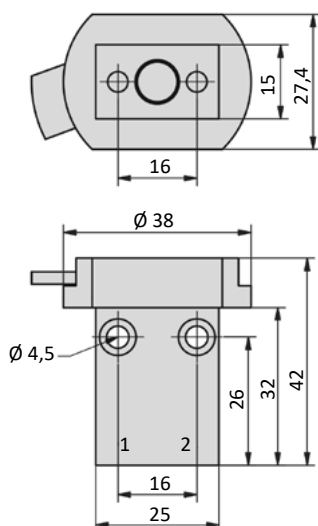
T-25-311
3/2-way, mechanical spring return,
stem operated

Technical data

Model-no.:	T-25-311
Operating pressure (bar)	0 ... 12
Flow rate (NI/min)	95
Actuating force at 6 bar (N)	22
Schalhub (mm)	4
Weight (kg)	0.042

Dimensions

T-25-311



1 = pressure inlet
2 = outlet

Series T-28

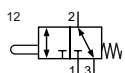
Technical details

Connection	G1/8
Nominal size	4 mm
Temperature range	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR, inner parts: stainless steel and brass, stem: stainless steel
	T-28-311: Product without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas (chap. 12)

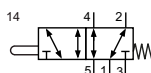


Mechanically operated spool valve including mounting adapter for actuator installation.

3/2-way-valve



T-28-311
3/2-way, mechanical spring return,
stem operated



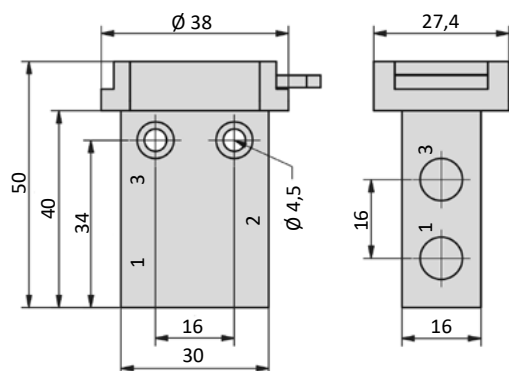
T-28-511
5/2-way, mechanical spring return,
stem operated

Technical data

Model-no.:	T-28-311	T-28-511
Operating pressure (bar)	0 ... 12	0 ... 12
Flow rate (NI/min)	450	465
Actuating force at 6 bar (N)	25	15
Schalthub (mm)	4	4
Weight (kg)	0.058	0.075

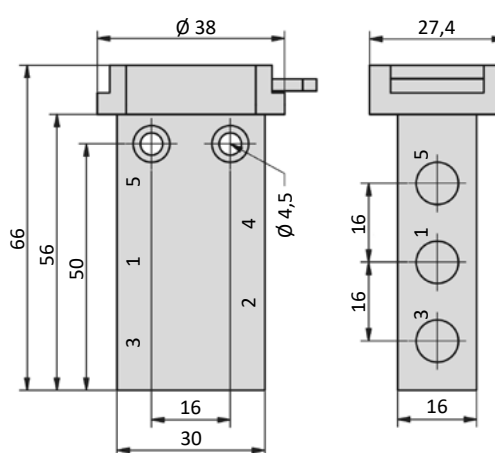
Dimensions

T-28-311



1 = pressure inlet
2,4 = outlets
3,5 = exhausts

T-28-511



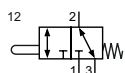
Technical details

Connection	M5
Temperature range	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR, inner parts: stainless steel and brass, stem: stainless steel
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas or versions in accordance with 2014/34/EU (ATEX) available. (chap. 12)



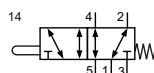
Mechanically operated seat valve (T-30-310) or spool valve (T-30-510) including mounting adapter for actuator mount.

3/2-way-valve



T-30-310
3/2-way, mechanical spring return,
stem operated

5/2-way-valve



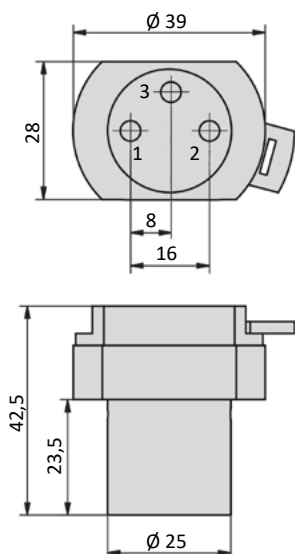
T-30-510
5/2-way, mechanical spring return,
stem operated

Technical data

Model-no.:	T-30-310	T-30-510
Operating pressure (bar)	0 ... 12	0 ... 12
Flow rate (NI/min)	80	100
Nominal size (mm)	2	2,4
Actuating force at 6 bar (N)	10	21
Schalhub (mm)	4	4
Weight (kg)	0.052	0.076

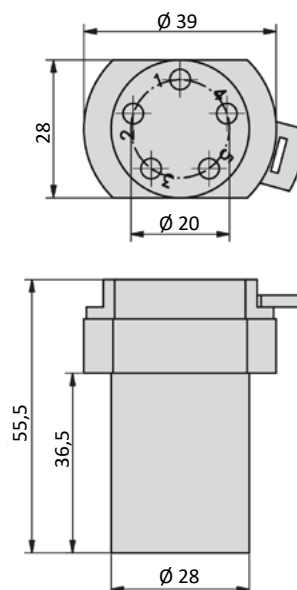
Dimensions

T-30-310



1 = pressure inlet
2,4 = outlets
3,5 = exhausts

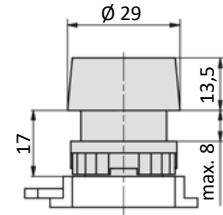
T-30-510



Actuator Ø 22,5 mm



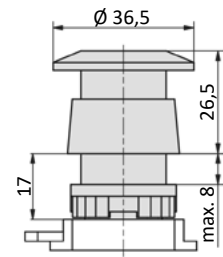
18-T-23-011-xx Push button



Model-no.: 18-T-23-011-xx +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	13	23
Weight (incl. valve) (kg)	0.057	0.073	0.090	0.067	0.091

Please complete: xx = colour (20 = green, 21 = green with white line, 30 = black, 40 = red, 50 = yellow, 60 = blue)

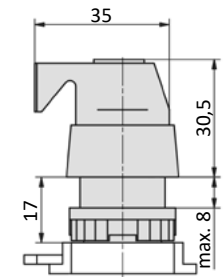
18-T-23-012-xx Mushroom



Model-no.: 18-T-23-012-xx +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	13	23
Weight (incl. valve) (kg)	0.062	0.078	0.095	0.072	0.096

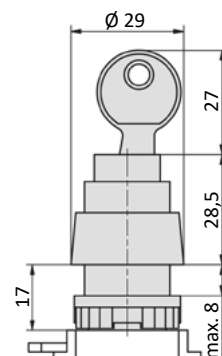
Please complete: xx = colour (20 = green, 30 = black, 40 = red)

18-T-23-013 2 position switch



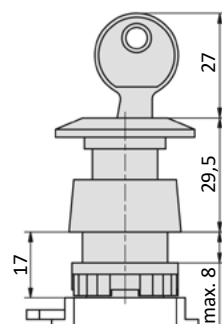
Model-no.: 18-T-23-013 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	26	25
Weight (incl. valve) (kg)	0.064	0.080	0.097	0.074	0.098

18-T-23-014 Key-return



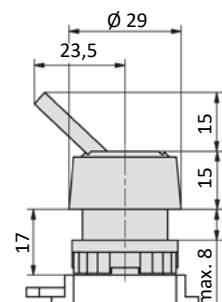
Model-no.: 18-T-23-014 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	13	23
Weight (incl. valve) (kg)	0.123	0.139	0.156	0.133	0.157

18-T-23-015 Stop, key-return



Model-no.: 18-T-23-015 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	13	23
Weight (incl. valve) (kg)	0.125	0.141	0.158	0.135	0.159

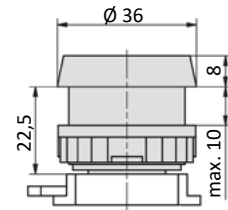
18-T-23-016 Toggle



Model-no.: 18-T-23-016 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	26	25
Weight (incl. valve) (kg)	0.069	0.085	0.102	0.079	0.103

Actuator Ø 30 mm

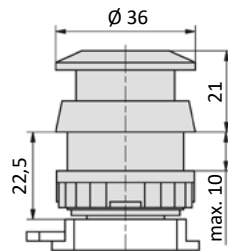
18-T-30-011-xx Push button



Model-no.: 18-T-30-011-xx +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	15	24
Weight (incl. valve) (kg)	0.066	0.082	0.099	0.076	0.100

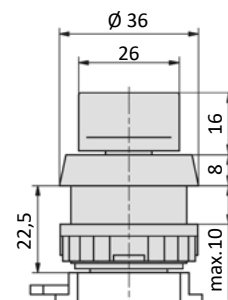
Please complete: xx = colour (20 = green, 30 = black, 40 = red, 50 = yellow)

18-T-30-012-30 Mushroom



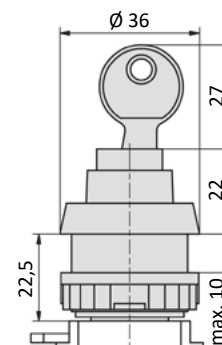
Model-no.: 18-T-30-012-30 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	15	24
Weight (incl. valve) (kg)	0.071	0.087	0.104	0.081	0.105

18-T-30-013 2 position switch



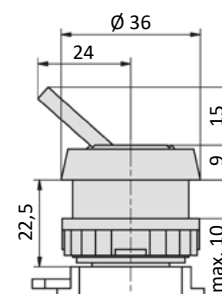
Model-no.: 18-T-30-013 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	15	25
Weight (incl. valve) (kg)	0.071	0.087	0.104	0.081	0.105

18-T-30-014 Key-return



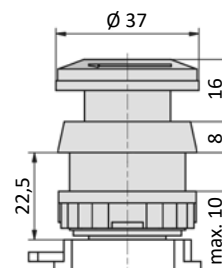
Model-no.: 18-T-30-014 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	15	25
Weight (incl. valve) (kg)	0.122	0.138	0.155	0.132	0.156

18-T-30-016 Toggle



Model-no.: 18-T-30-016 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	9	11
Weight (incl. valve) (kg)	0.069	0.085	0.102	0.079	0.103

18-T-30-018 Mushroom red, detend



Model-no.: 18-T-30-018 +	T-25-311	T-28-311	T-28-511	T-30-310	T-30-510
Symbol					
Actuating force at 6 bar (N)	24	23	15	31	25
Weight (incl. valve) (kg)	0.077	0.093	0.110	0.087	0.111

Series ST-18



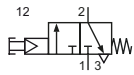
Technical details

Connection	G1/8
Nominal size	3 mm
Temperature range	-10°C ... +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR and POM, inner parts: Al, stainless steel and brass



Servo-operated spool valve with low actuating force. The actuating is constantly pilot air supported and is venting* in resting position on a small amount of air. *(through a gap between holder and body)

3/2-way-valve



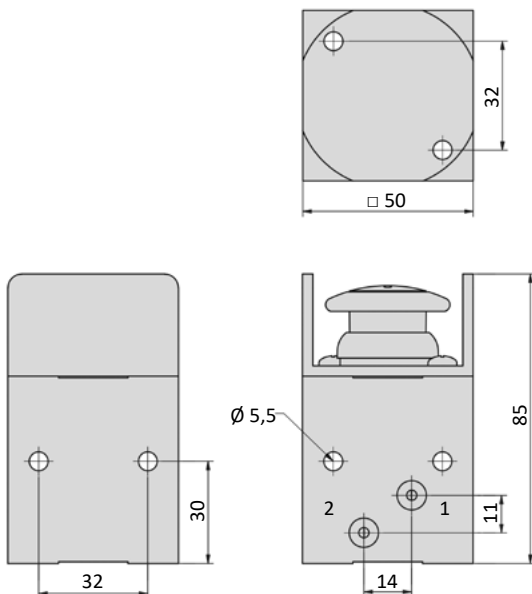
ST-18-310
3/2-way, mechanical spring return,
push button

Technical data

Model-no.:	ST-18-310
Operating pressure (bar)	3 ... 10
Flow rate (NI/min)	220
Actuating force at 6 bar (N)	3.5
Eigenluftverbrauch (NI/min)	2.5
Weight (kg)	0.400

Dimensions

ST-18-310



1 = pressure inlet
2 = outlet

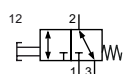
Technical details

Connection	G1/8
Nominal size	4 mm
Temperature range	-10°C ... +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR, inner parts: Al, stainless steel and brass

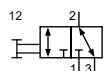


Manually operated spool valve.

3/2-way-valves

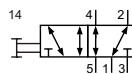


TK-28-311
3/2-way, mechanical spring return,
push function



TK-28-320
3/2-way, two positions, actuator
pull/push function

5/2-way-valve



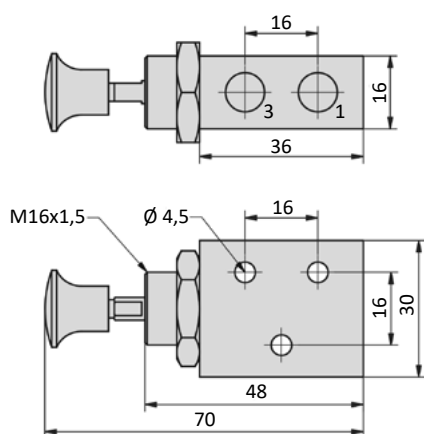
TK-28-520
5/2-way, two positions, actuator
pull/push function

Technical data

Model-no.:	TK-28-311	TK-28-320	TK-28-520
Operating pressure (bar)	2 ... 10	2 ... 10	2 ... 10
Flow rate (NI/min)	500	500	480
Actuating force at 6 bar (N)	11	3	4
Weight (kg)	0.061	0.061	0.078

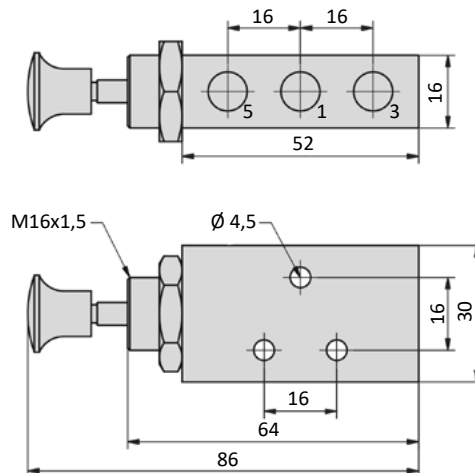
Dimensions

TK-28-3xx



1 = pressure inlet
2,4 = outlets
3,5 = exhausts

TK-28-520



Series HF and HR



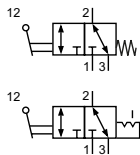
Technical details

Temperature range	-10°C ... +70°C (-10°C...+60°C for use in ATEX areas)
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR and POM, inner parts: Al, stainless steel and brass
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas or versions in accordance with 2014/34/EU (ATEX) available. (chap. 12)



Hand lever operated spool valve.

3/2-way-valves

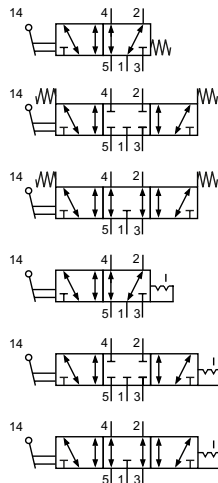


HF-xx-310
3/2-way, hand lever, mechanical spring return

HR-xx-320
3/2-way, two positions, hand lever, detent

Please complete: xx = 18 for G1/8
xx = 14 for G1/4
xx = 12 for G1/2

5/2- und 5/3-way-valves



HF-xx-510
5/2-way, hand lever, mechanical spring return

HF-xx-530
5/3-way, center position closed, hand lever

HF-xx-533
5/3-way, center position exhausted, hand lever

HR-xx-520
5/2-way, two positions, hand lever, detent

HR-xx-530
5/3-way, center position closed, hand lever, detent

HR-xx-533
5/3-way, center position exhausted, hand lever, detent

Technical data

Model-no.:	HF-18-310	HF-14-310	HF-12-310	HF-18-510	HF-14-510	HF-12-510
Connection	G1/8	G1/4	G1/2	G1/8	G1/4	G1/2
Nominal size (mm)	6	9	14	6	9	14
Flow rate (NI/min)	750	1580	3300	750	1580	3300
Operating pressure (bar)	0 ... 12	0 ... 12	0 ... 12	0 ... 12	0 ... 12	0 ... 12
Actuating force at 6 bar (N)	13	20	32	13	20	32
Weight (kg)	0.266	0.48	1.21	0.31	0.56	1.43

Model-no.:	HF-18-530	HF-14-530	HF-12-530	HF-18-533	HF-14-533	HF-12-533
Connection	G1/8	G1/4	G1/2	G1/8	G1/4	G1/2
Nominal size (mm)	6	9	14	6	9	14
Flow rate (NI/min)	780	1800	3300	780	1800	3300
Operating pressure (bar)	0 ... 10	0 ... 12	0 ... 12	0 ... 10	0 ... 12	0 ... 12
Actuating force at 6 bar (N)	20	25	36	20	25	36
Weight (kg)	0.32	0.58	1.43	0.32	0.58	1.43

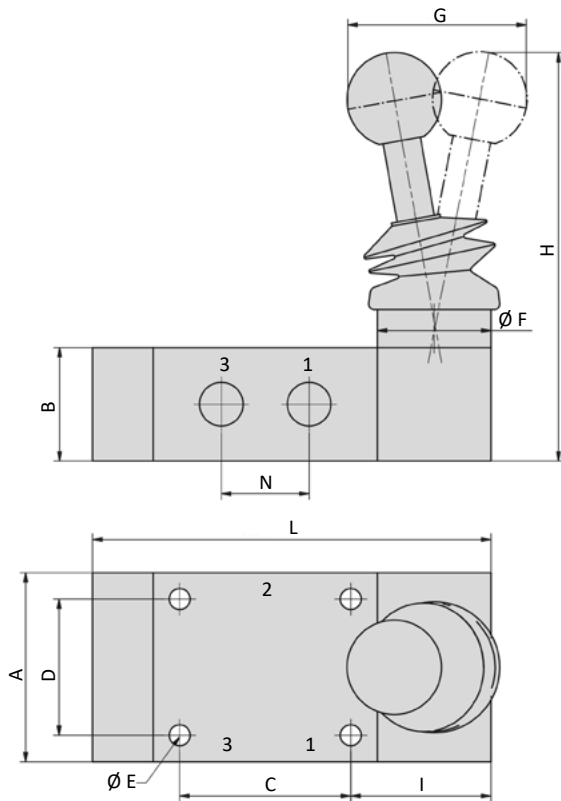
Model-no.:	HR-18-320	HR-14-320	HR-12-320	HR-18-520	HR-14-520	HR-12-520
Connection	G1/8	G1/4	G1/2	G1/8	G1/4	G1/2
Nominal size (mm)	6	9	14	6	9	14
Flow rate (NI/min)	750	1580	3300	750	1580	3300
Operating pressure (bar)	0 ... 12	0 ... 12	0 ... 12	0 ... 12	0 ... 12	0 ... 12
Actuating force at 6 bar (N)	16	24	36	16	24	36
Weight (kg)	0.268	0.485	1.215	0.312	0.564	1.43

Model-no.:	HR-18-530	HR-14-530	HR-12-530	HR-18-533	HR-14-533	HR-12-533
Connection	G1/8	G1/4	G1/2	G1/8	G1/4	G1/2
Nominal size (mm)	6	9	14	6	9	14
Flow rate (NI/min)	780	1800	3300	780	1800	3300
Operating pressure (bar)	0 ... 10	0 ... 12	0 ... 12	0 ... 10	0 ... 12	0 ... 12
Actuating force at 6 bar (N)	20	25	40	20	25	40
Weight (kg)	0.32	0.58	1.43	0.32	0.58	1.43

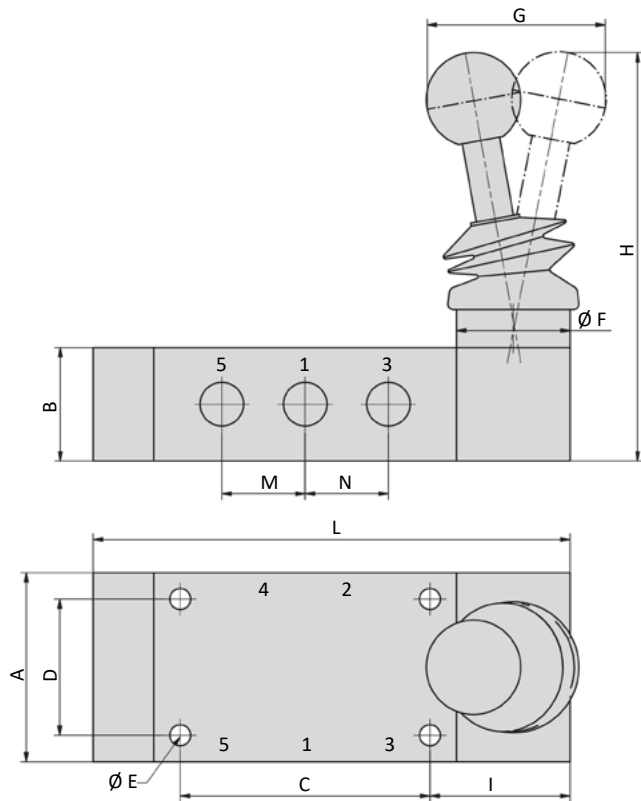
Series HF and HR

Dimensions

Hx-xx-3xx



Hx-xx-5xx



1 = pressure inlet
2,4 = outlets
3,5 = exhausts

Model-no.:		A	B	C	D	Ø E	Ø F	G	H	I	L	M	N
HF-18-310	HR-18-320	40	25	34	30	4,5	25	36	88	31	87	-	18
HF-14-310	HR-14-320	50	30	44	36	5,5	30	46	112	37	104	-	22
HF-12-310	HR-12-320	70	40	70	50	6,5	40	64	148	51	148	-	36
HF-18-510	HR-18-520	40	25	52	30	4,5	25	36	88	31	105	18	18
HF-14-510	HR-14-520	50	30	66	36	5,5	30	46	112	37	126	22	22
HF-12-510	HR-12-520	70	40	106	50	6,5	40	64	148	51	184	36	38
HF-18-53x	HR-18-53x	40	25	52	30	4,5	25	45	88	31	105	18	18
HF-14-53x	HR-14-53x	50	30	66	36	5,5	30	53	112	37	126	22	22
HF-12-53x	HR-12-53x	70	40	106	50	6,5	40	64	148	51	193	36	36

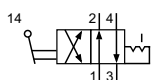
Technical details

Nominal size	4 mm
Temperature range	-20°C ... +60°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR and ceramic, inner parts: Al, steel
	Products without their own potential ignition source in accordance with Directive 2014/34/EU, suitable for use in hazardous areas or versions in accordance with 2014/34/EU (ATEX) available. (chap. 12)



Manually operated rotary lever valve. The valve is reversed by turning the knob.

4/2-way-valves

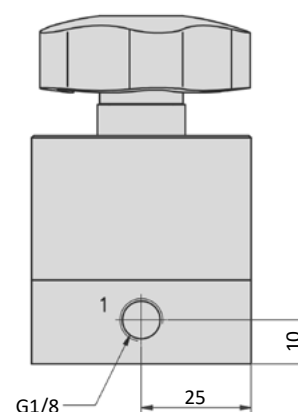
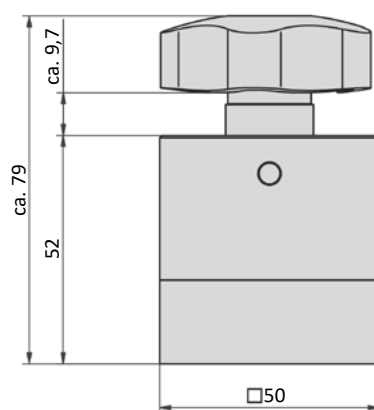
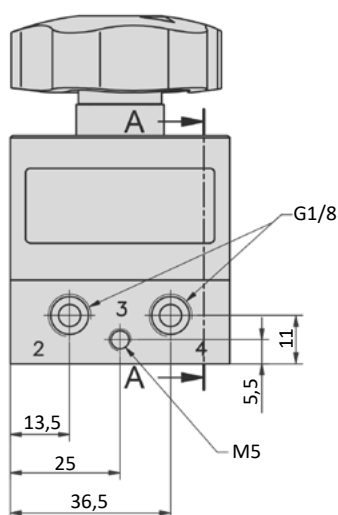


DHR-18-420-H1
4/2-way, two positions, knob

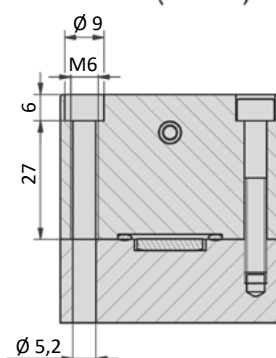
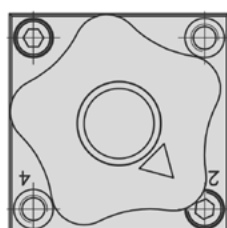
Technical data

Model-no.:	DHR-18-420-H1
Connection	G1/8, M5
Flow rate (NI/min)	270
Operating pressure (bar)	4 ... 10 bar
Weight (kg)	0.43

Dimensions



A-A (1 : 1)



- 1 = pressure inlet
- 2, 4 = outlets
- 3 = exhaust

Series 84-4HF and 84-4HR



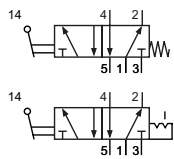
Technical details

Temperature range	0°C ... +60°C
Operating pressure	0 ... 8 bar
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), plastic, seals: NBR , inner parts: Al, steel



Hand lever operated spool valve.

5/2-way-valves

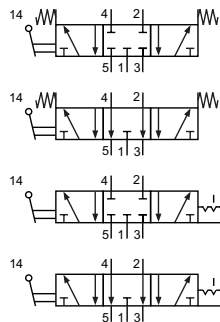


84-4HF-xx-510
5/2-way, hand lever, mechanical spring return

84-4HR-xx-520
5/2-way, two positions, hand lever, detent

Please complete: xx = 18 for G1/8
xx = 14 for G1/4
xx = 12 for G1/2

5/3-way-valves



84-4HF-xx-530
5/3-way, center position closed, hand lever,

84-4HF-xx-533
5/3-way, center position exhausted, hand lever,

84-4HR-xx-530
5/3-way, center position closed, hand lever, detent

84-4HR-xx-533
5/3-way, center position exhausted, hand lever, detent

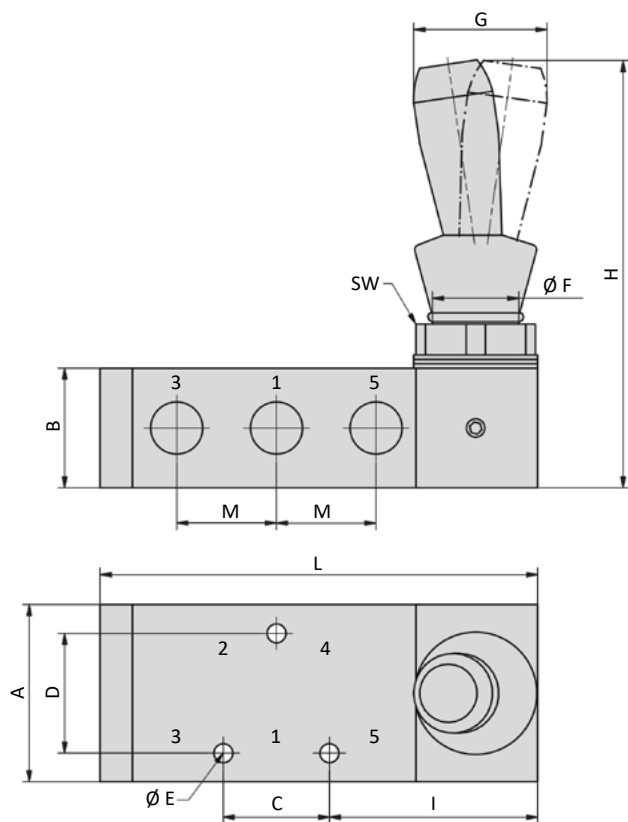
Technical data

Model-no.:	84-4HF-18-510	84-4HF-14-510	84-4HF-14-530	84-4HF-14-533
Connection	G1/8	G1/4	G1/4	G1/4
Nominal size (mm)	4,5	6	5	5
Flow rate (NI/min)	750	1350	980	980
Weight (kg)	0.168	0.252	0.310	0.310

Model-no.:	84-4HR-18-520	84-4HR-14-520	84-4HR-12-520	84-4HR-14-530	84-4HR-14-533	84-4HR-12-530
Connection	G1/8	G1/4	G1/2	G1/4	G1/4	G1/2
Nominal size (mm)	4.5	6	8	5	5	6,5
Flow rate (NI/min)	750	1350	2500	980	980	1600
Weight (kg)	0.170	0.255	0.540	0.250	0.250	0.560

Dimensions

2



1 = pressure inlet
2,4 = outlets
3,5 = exhausts

Bestell-Nr.	A	B	C	D	Ø E	Ø F	G	H	I	L	M	SW
84-4HF-18-510	35	22	20	21	4.3	15	16	90	38	81.3	18	22
84-4HF-14-510	40	27	24	27	4.3	20	20	93	48	100.5	22.5	27
84-4HF-14-530	40	27	24	27	4.3	20	20	93	67	119.5	22.5	27
84-4HF-14-533	40	27	24	27	4.3	20	20	93	67	119.5	22.5	27
84-4HR-18-520	35	22	20	21	4.3	15	16	90	38	81.3	18	22
84-4HR-14-520	40	27	24	27	4.3	20	20	93	48	100.5	22.5	27
84-4HR-14-530	40	27	24	27	4.3	20	20	93	48	100.5	22.5	27
84-4HR-14-533	40	27	24	27	4.3	20	20	93	48	100.5	22.5	27
84-4HR-12-520	50	34	28	35	5.5	22	28	103.5	57	128.5	31.5	-
84-4HR-12-530	50	34	28	35	5.5	22	30	108.5	57	128.5	31.5	27

Series 84-4F



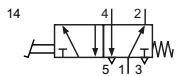
Technical details

Connection	G1/4
Nominal size (mm)	9
Temperature range	0°C ... +60°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR , inner parts: Al, steel

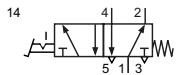


Foot pedal operated spool valve.

5/2-way-valves



84-4FF-511-14-H
5/2-way, pedal, mechanical spring return

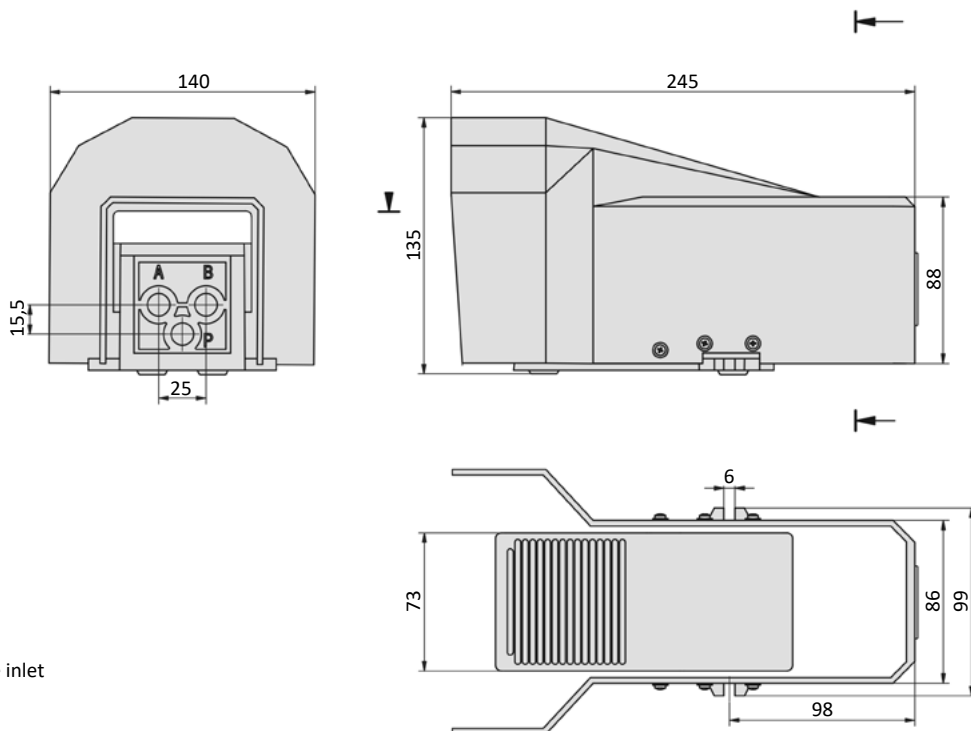


84-4FR-520-14-H
5/2-way, two positions, pedal, detent

Technical data

Model-no.:	84-4FF-511-14-H	84-4FR-520-14-H
Operating pressure (bar)	0 ... 8	0 ... 8
Flow rate (l/min)	530	530
Weight (kg)	0.900	0.900

Dimensions



P = pressure inlet
A, B = outlets

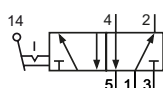
Technical details

Temperature range	0°C ... +60°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (anodized), seals: NBR , inner parts: Al, brass



Toggle lever operated spool valve.

5/2-way-valve



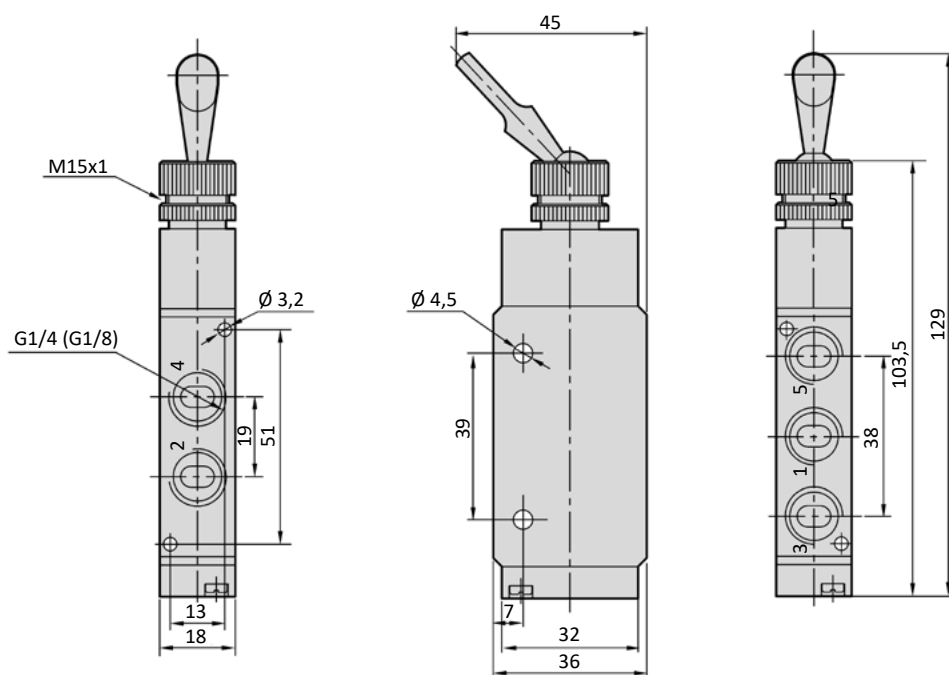
84-HPV-xx-520
5/2-way, two positions, toggle lever operated

Please complete: xx = 18 for G1/8
xx = 14 for G1/4

Technical data

Model-no.:	84-HPV-18-520	84-HPV-14-520
Connection	G1/8	G1/4
Nominal size (mm)	4	5
Flow rate (NI/min)	750	980
Operating pressure (bar)	0 ... 8 bar	0 ... 8 bar
Weight (kg)	0.17	0.16

Dimensions



- 1 = pressure inlet
- 2,4 = outlets
- 3,5 = exhausts

Series 84-4HV



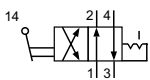
Technical details

Nominal size	5 mm
Temperature range	0°C ... +70°C
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Body: Al (painted), seals: NBR and ceramic (only 84-HV-18), inner parts: Al, steel

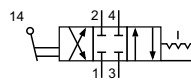


Manually operated rotary lever valve.

4/2-way-valves



84-4HV-xx-520-S
4/2-way, two positions, rotary lever



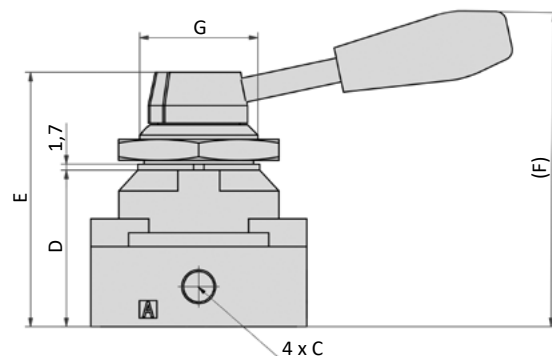
84-4HV-xx-530-S
4/3-way, center position closed, rotary lever

Please complete: xx = 18 for G1/8
xx = 14 for G1/4

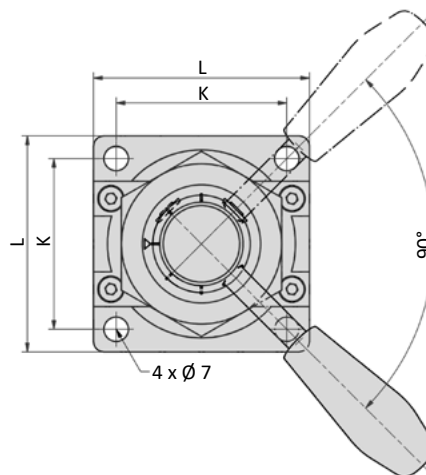
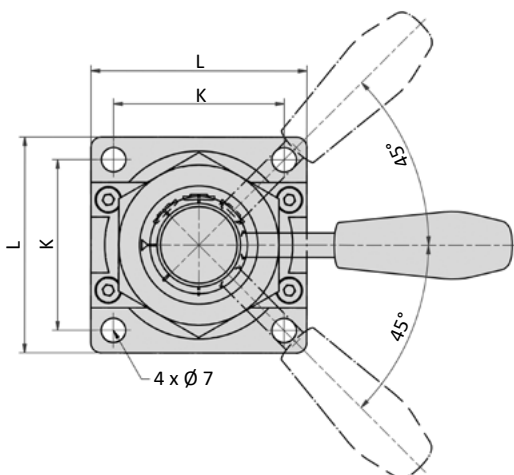
Technical data

Model-no.:	84-4HV-18-520-S	84-4HV-14-520-S	84-4HV-18-530-S	84-4HV-14-530-S
Connection	G1/8	G1/4	G1/8	G1/4
Flow rate (NI/min)	980	980	980	980
Operating pressure (bar)	0 ... 8 bar	0 ... 8 bar	0 ... 8 bar	0 ... 8 bar
Weight (kg)	0.39	0.68	0.39	0.67

Dimensions



	C	D	E	F	G	K	L
84-4HV-18-5xx	G1/8	45	73	86	M34 x 1.5	49	62
84-4HV-14-5xx	G1/4	61	94	106	M40 x 1.5	59	74



P = pressure inlet
A, B = outlets
R = exhaust