



Product Guide: Controls for Compressed Air Systems

Pressure Switches



Model	KP	KP	KPI	CS - 3 pole with option for relief valve		
Type	KP 35	KP 36	KPI 38	CS	CS	CS
Regulation range	-0.2 to 7.5 bar	2 to 14 bar / 4 to 12 bar	8 to 28 bar	2 to 6 bar	4 to 12 bar	7 to 20 bar
Adjustable differential	0.7 to 4.0 bar	0.7 to 4.0 bar / 0.5 to 1.6 bar	1.8 to 6 bar	0.72 to 2 bar	1.0 to 4.0 bar	2.0 to 7 bar
Max. operating pressure	17 bar	17 bar	17 bar	10 bar	20 bar	32 bar
Pressure connection	G1/4A	G1/4A	G1/4A	G1/2A ****	G1/2A ****	G1/2A ****
Contact system	SPDT	SPDT	SPDT	TPDT	TPDT	TPDT
Load (AC3)	16A 400V	16A 400V	10A 440V	12A 415V	12A 415V	12A 415V
Load (AC1)	16A 400V	16A 400V	6A 440V	-	-	-
Enclosure	IP30**	IP30**	IP30**	IP43***	IP43***	IP43***
Design	Light duty	Light duty	Light duty	Direct motor	Direct motor	Direct motor
Media temperature	-40°C to 100°C *	-40°C to 100°C *	-40°C to 100°C *	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Ambient temperature	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Options	-	-	-	Relief valve, 1/4" 031E0297	Relief valve, 1/4" 031E0297	Relief valve, 1/4" 031E0297
Code number	060-1133.66	060-1108.66 / 060-1221.66	060-5081.66	031E0200.66	031E0220.66	031E0240.66

* 125°C on special approval

*** std IP55 versions available

** IP44 with optional enclosure covers available

**** std G1/4" versions available

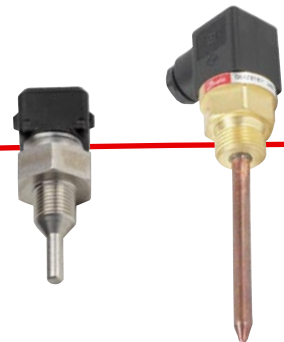
Pressure Transmitters



Type	MBS 3000	MBS 3000	MBS 3000	MBS 3000	MBS 3000
Pressure range	0 to 10 bar	0 to 16 bar	0 to 25 bar	0 to 60 bar	0 to 400 bar
Accuracy	≤±0.5% (typ.), ≤±1% FS (max.)	≤±0.5% (typ.), ≤±1% FS (max.)	≤±0.5% (typ.), ≤±1% FS (max.)	≤±0.5% (typ.), ≤±1% FS (max.)	≤±0.5% (typ.), ≤±1% FS (max.)
Max. operating pressure	20 bar	50 bar	50 bar	200 bar	1500 bar
Burst pressure	50 bar	100 bar	100 bar	800 bar	2000 bar
Output	4 to 20mA	4 to 20mA	4 to 20mA	4 to 20mA	4 to 20mA
Supply voltage	9 to 30V DC	9 to 30V DC	9 to 30V DC	9 to 30V DC	9 to 30V DC
Electrical connection	IP65 DIN plug	IP65 DIN plug	IP65 DIN plug	IP65 DIN plug	IP65 DIN plug
Enclosure	IP65	IP65	IP65	IP65	IP65
Pressure connection	G1/4A	G1/4A	G1/4A	G1/4A	G1/4A
Operating temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Wetted parts	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L
Code number	060G1125	060G1133	060G1430	060G1106	060G1109

MBS 3000 is available with alternative electrical connection, pressure range and pressure connection

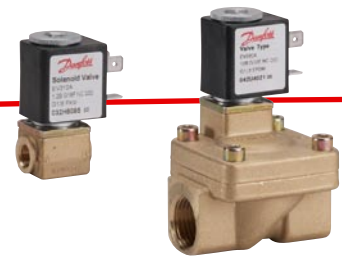
Temperature Sensors



Type	MBT 3270	MBT 3270	MBT 3260	MBT 3560	MBT 5250
Temperature measuring range	-50 to 150°C	-50 to 200°C	0 to 120°C	0 to 120°C	-50° to 200°C
Resistance value	KTY	Pt100	Pt1000	4-20 mA	Pt 100
Electrical connection	Integrated mini AMP plug	Cable with mini AMP plug	DIN plug	DIN plug	DIN plug
Enclosure	IP20	IP20	IP65	IP65	IP65
Process connection	M10 x 1	G ¹ / ₄ A	G ¹ / ₂ A	G ¹ / ₄	G ¹ / ₂ A
Materials	AISI 316 Ti	Brass	Brass / Copper	AISI 316 Ti	AISI 316 Ti
Insertion length	24 mm	22 mm	50 mm	50 mm	50 mm
Options	Dedicated sensor design	Dedicated sensor design	Insertion lengths	Insertion lengths Electrical Conn. Measuring ranges	PT 1000 Insertion lengths*
Code number	084Z7095	084Z7138	084Z6056	084Z4058	084Z8011

*MBT 5250 has interchangeable measuring insert for high vibration applications
Please contact Danfoss for alternatives

Solenoid Valves



3/2 way direct operated valve bodies

Type	EV310A FL32	EV310A	EV310A	EV310A	EV310A	EV310A
Normally closed / normally open	NC	NC	NC	NC	NC	NO
Connection	sub base 32 x 32 mm	G1/8	G1/8	G1/4	G1/4	G1/8
Orifice size	1.5 mm	1.2	1.5	1.5	1.2	1.2
Max pressure	16 bar	16 bar	10 bar	10 bar	16 bar	10 bar
Seal materials	FKM	FKM	FKM	FKM	FKM	FKM
Code number (valve body only)	032H8183	032H8085	032H8087	032H8097	032H8095	032H8125

2/2 way direct and 2/2 way servo operated NO valve bodies

Type	EV210A	EV210A	EV210A	EV210A	EV220A	EV220A	EV220A
Normally closed / normally open	NC	NC	NC	NO	NO	NO	NO
Connection	G1/8	G1/8	G1/4	G1/8	G3/8	G1/2	G1
Orifice size	3.0	2.0	3.0	1.5	10	14	22
Max pressure	10 bar	16 bar	10 bar	16 bar	16 bar	16 bar	16 bar
Seal materials	FKM	FKM	FKM	FKM	NBR*	NBR*	NBR*
Code number (valve body only)	032H8009	032H8005	032H8017	032H8049	042U4063	042U4074	042U4092

*Available with FKM seals for high temperature blow down

2/2 way servo operated NC valve bodies

Type	EV220A	EV220A	EV220A	EV220A	EV220B	EV220B	EV220B
Normally closed / normally open	NC	NC	NC	NC	NC	NC	NC
Connection	G3/8"	G1/2"	G3/4"	G1"	G1 1/4"	G1 1/2"	G2"
Orifice Size	10 mm	14 mm	18 mm	22 mm	32 mm	40 mm	50 mm
Max pressure	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar
Seal materials*	NBR	NBR	NBR	NBR	EPDM	EPDM	EPDM
Code number (valve body only)	042U4013	042U4024	042U4032	042U4042	032U7132	032U7140	032U7150

*EV220A and EV220B in any size can be supplied with FKM, NBR or EPDM seals

Please select suitable coil from list below

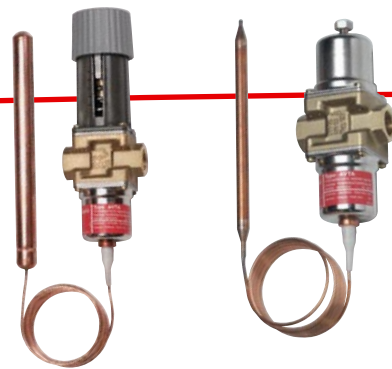
Solenoid Valve Coils



	For valve types EV210A, EV220A, EV310A,				For valve types EV220B			
Type	AM	AM	AM	AM	BB	BB	BB	BB
Voltage	24V DC	24V AC	110V AC	230V AC	24V DC	24V AC	110V AC	230V AC
Frequency	-	50/60	50/60	50/60	-	50	50/60	50/60
Wattage	9.5	7.5	7.5	7.5	18W	10W	10W	10W
Code number	042N0843	042N0842	042N0845	042N0840	018F7397	018F7358	018F7360	018F7363

Electrical connector for AM and BB coils are available with IP65 plug to DIN 43650, code number 042N0156
Please contact Danfoss for alternative voltages or valve types

AVTA



2/2 thermostatically operated valves

Type	AVTA 10	AVTA 15	AVTA 20	AVTA 25	AVTA OEM
Connection	G3/8	G1/2	G3/4	G1	G3/8 to G1
Regulating range	+10°C to +80°C	+10°C to +80°C	+10°C to +80°C	+10°C to +80°C	Various
Kv value	1.4	1.9	3.4	5.5	1.4 to 5.5
Capillary length	2.3 m	2.3 m	2.3 m	2.3 m	Various
Options	Brass pocket 017-4367	Brass pocket 017-4367	Brass pocket 017-4367	Brass pocket 017-4367	Brass pocket Various
Code number	003N1144	003N0107	003N0108	003N0109	Contact Danfoss

Angle Seat Valves



2/2 pneumatically operated valves, normally closed

Type	AV210A	AV210A	AV210A	AV210A	AV210A	AV210A	AV210A
Connection	G3/8	G1/2	G3/4	G1	G 1 1/4	G1 1/2	G2
Orifice size	15	15	20	25	32	40	50
Pressure range	0 to 16 bar	0 to 16 bar	0 to 10 bar	0 to 11 bar	0 to 14 bar	0 to 11 bar	0 to 10 bar
Media temperature	-30 to +180°C	-30 to +180°C	-30 to +180°C	-30 to +180°C	-30 to +180°C	-30 to +180°C	-30 to +180°C
Body material	Gun metal	Gun metal	Gun metal	Gun metal	Gun metal	Gun metal	Gun metal
Seal materials	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Code number	042N4401	042N4402	042N4404	042N4406	042N4408	042N4409	042N4411

Drain Timer



Condensate Drain Timer

Type	ET 20M
Interval timer	0-45 min
On timer	0-15 sec.
Voltage	24-240 V AC
Frequency	50-60 Hz
Enclosure	IP65
Code number	042N0185

NB: Timers have power indication and manual override

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