

Piston Actuated Valve Series M and G EXD II 2 GD c TX CLASS

Specifications	
Type: PG NC flow over seat 1 → 2	
Type: RPG NO flow under seat 2 → 1	
Type: BPG NC bi-directional flow over/under seat 1 → 2 / 2 → 1	
Protection Class	II 2 GD c TX
Media	Water, oil, air, aggressive media, steam ¹
Media Temperature	-10 °C to +200 °C
Ambient Temperature	-10 °C to +80 °C
Pilot Media ²	Instrument air, inert gases
Body Material	Cast AISI 316L (CF3M), see page 39
Bonnet Material	Cast AISI 316L (CF3M), see page 39
Actuator Body Material	ASTM A 351 CF8 (AISI 304)
Actuator Cover Material	ASTM A 351 CF8 (AISI 304)
Actuator Housing Material	ASTM A 351 CF8 (AISI 304)
Piston Material	Aluminium
Seal Material	FKM
Position Indicator	As standard

Features and Benefits

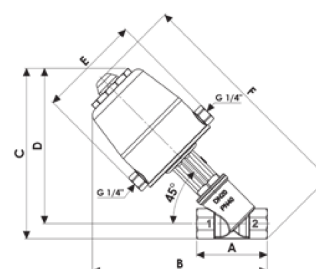
- Waterhammer-free design for BPG (with flow direction 2 → 1)
- Actuator housing rotation 360°
- High resistance to external agents, shocks



Options Available
Atex inductive switch assembled ex-factory (e.g. code PG207MTYX0), with ambient temperature -10 °C to +60 °C

Accessories
Atex pilot solenoid valves type N326CVEK see page 33

Dimensions & Weights		DN15	DN20	DN25	DN32	DN40	DN50	DN25	DN32	DN40	DN50	
Actuator	[mm]	Ø 63						Ø 90				
A	[mm]	65	75	90	110	120	150	90	110	120	150	
B	[mm]	178	184	200	211	216	234	208	221	226	244	
C	[mm]	171	178	200	204	212	227	201	213	221	236	
D	[mm]	157	162	172	180	184	193	181	189	194	202	
E	[mm]	108	108	108	108	108	108	135	135	135	135	
F	[mm]	228	239	258	275	284	307	260	278	286	310	
Weight	[kg]	2.3	2.4	2.6	3.1	3.4	4.1	3.6	4.1	4.3	5.1	



The pilot solenoid valves ports have a G 1/4" thread and are marked with NO/NC (Normally Open/Normally Closed)

The products listed below comply with the requirements of the European Pressure Equipment Directive 2014/68/UE and carry the CE mark when required. The products fall within the following Pressure Equipment Directive categories:

Valve Type	Bodies	Group 1 gases	Group 1 liquids and Group 2 other fluids
PG - RPG - BPG	DN15 to DN25 (PN40)	SEP	SEP
	DN32 to DN40 (PN25)	Category I	SEP
	DN50 (PN16)	Category I	SEP

⚠ WARNING!

According to the European Pressure Equipment Directive 2014/68/UE, liquids whose saturated vapour pressure at the maximum allowable temperature is more than 0,5 barg shall be considered as gases.

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Valve	Body Connection	DN	Flow Rate Kvs	Working Pressure ¹		Flow Direction	Pilot Pressure ³		Actuator Ø	Function	
				Min.	Max.		Min.	Max.			
Code	[ISO 228G]	[mm]	[l/min]	[barg]	[barg]	—	[barg]	[barg]	[mm]	—	
PG205MTW00	1/2"	15	87	0	20	1 → 2	3,7	10	63	NC	
PG206MTX00	3/4"	20	164	0	20	1 → 2	4,4	10			
PG207MTY00	1"	25	260	0	20	1 → 2	5	10			
PG208MTZ00	1 1/4"	32	410	0	16	1 → 2	5,9	10			
PG209MTK00	1 1/2"	40	700	0	16	1 → 2	9	10			
PG210MTJ00	2"	50	950	0	11	1 → 2	8	10			
PG207GTY00	1"	25	260	0	20	1 → 2	2	8	90		
PG208GTZ00	1 1/4"	32	410	0	16	1 → 2	3,5	8			
PG209GTK00	1 1/2"	40	700	0	16	1 → 2	4	8			
PG210GTJ00	2"	50	950	0	15	1 → 2	6,5	8			
RPG205MTW00	1/2"	15	87	0	16	2 → 1	2,5	10	63		NO
RPG206MTX00	3/4"	20	164	0	16	2 → 1	4,3	10			
RPG207MTY00	1"	25	260	0	16	2 → 1	5,5	10			
RPG208MTZ00	1 1/4"	32	410	0	16	2 → 1	6,5	10			
RPG209MTK00	1 1/2"	40	700	0	16	2 → 1	9	10			
RPG210MTJ00	2"	50	950	0	12	2 → 1	9,4	10			
RPG207GTY00	1"	25	260	0	16	2 → 1	2	8	90		
RPG208GTZ00	1 1/4"	32	410	0	16	2 → 1	4	8			
RPG209GTK00	1 1/2"	40	700	0	16	2 → 1	5	8			
RPG210GTJ00	2"	50	950	0	16	2 → 1	7	8			
BPG205MTW00	1/2"	15	87	0	16	1 → 2 / 2 → 1	5,5 / 3,8	10	63	NC bidirectional	
BPG206MTX00	3/4"	20	164	0	16	1 → 2 / 2 → 1	6 / 3,8	10			
BPG207MTY00	1"	25	260	0	16 / 11	1 → 2 / 2 → 1	6,5 / 3,8	10			
BPG208MTZ00	1 1/4"	32	410	0	16 / 6	1 → 2 / 2 → 1	6,8 / 3,8	10			
BPG209MTK00	1 1/2"	40	700	0	12 / 4	1 → 2 / 2 → 1	9 / 3,8	10			
BPG210MTJ00	2"	50	950	0	8 / 2,5	1 → 2 / 2 → 1	9 / 3,8	10			
BPG207GTY00	1"	25	260	0	16 / 14	1 → 2 / 2 → 1	4 / 3,3	8	90		
BPG208GTZ00	1 1/4"	32	410	0	16 / 12	1 → 2 / 2 → 1	5 / 3,3	8			
BPG209GTK00	1 1/2"	40	700	0	16 / 8	1 → 2 / 2 → 1	6 / 3,3	8			
BPG210GTJ00	2"	50	950	0	14 / 6	1 → 2 / 2 → 1	8 / 3,3	8			

Notes

1. Steam max. working pressure 10 bar (9 barg)
2. Please contact M&M sales Department for other pilot media
3. Minimum pilot pressure at the max. working pressure: for lower working pressures please refer to the comparative charts

Specifications of Inductive Switch

Type of sensor:	in accordance with Namur standards EN 60947-5-6
Switching distance (Sn):	4 mm
Continuous voltage (residual ripple ≤10%):	8,2V
Current absorption at 8,2V in presence of metal:	≤ 1mA
Current absorption at 8,2V in absence of metal:	≥ 3mA
Switching frequency:	2000 Hz
Repeatability (% of Sn):	≤ 3
Housing material:	brass with electroless nickel plating treatment
Cable:	PVC 2x0,25 mm2
Cable length:	3 m
Safety rating:	UI=17V - li=17mA - Pi=73mW - Ci=0,25uF - Li=175uH

