

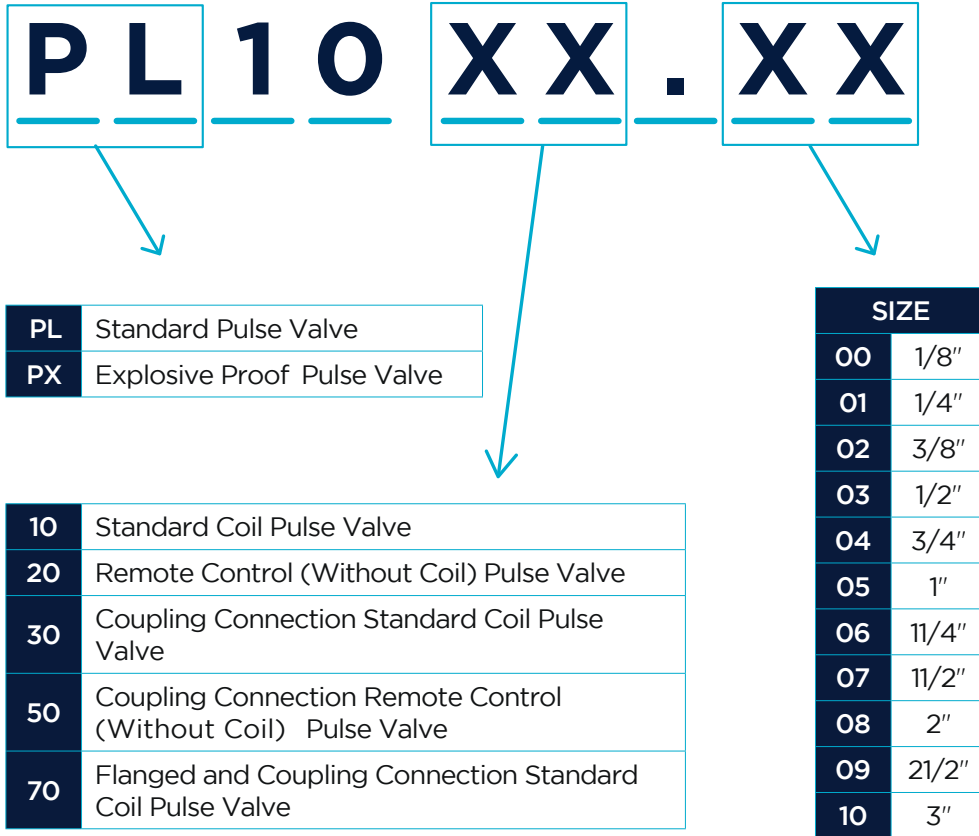


POWER SERIES PULSE VALVES

Air, dust filter, electrostatic painting booths



PULSE VALVES CODING SYSTEM



Pulse Valves - PL1010 Series (G3/4", G1", G1 1/2")

GENERAL FEATURES

- The pulse valves are especially used for dust collector service application or similar systems.
- Compact design, high reliability, flow rate, quality and performance; long life.
- Extremely fast opening and closing
- Working Temperature: -40°C ...160°C
- On request; with electronic timer
- Some application; dust filters, bunkers, dust extractors, electrostatic painting cabinets.
- Coils interchangeable
- Pulse valves must be used with filtered fluids.

ELECTRICAL CHARACTERISTICS

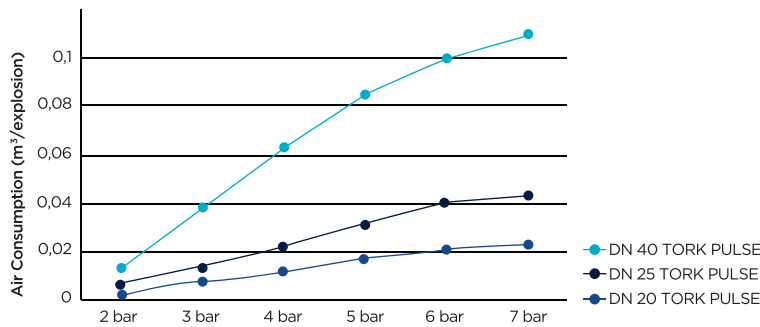
- Continuous Duty : ED %100
Coil Insulation Class : H (180°C)
Coil Impregnation : Polyester Fiber Glass
Ambient Temperature : -20°C ... 80°C
Protection Degree : IP65 (ISO 60529) On request IP68
Electric Plug Connection : DIN 46340 3- Poles Connector(DIN43650)
Connector Specification : ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)
Electrical Safety : IEC 335
Standard Voltages : AC 12 V, 24V, 48 V, 110V, 230 V
DC 12 V, 24V, 48 V, 110V

- On request other voltages
Voltages Tolerance : ± % 10
Frequency : 50 / 60 Hz On request; LED connectors
Please, specify coil voltage with order.

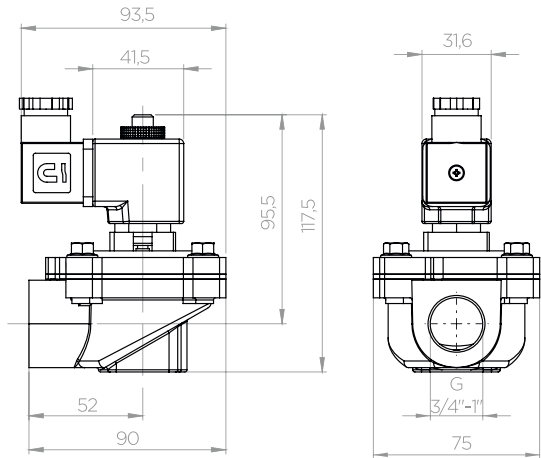
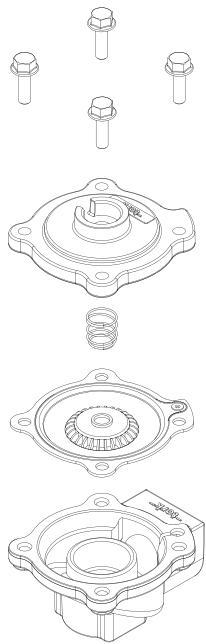
MATERIALS IN CONTACT WITH FLUIDS

- Body : Aluminium
Internal Parts : Stainless Steel
Sealing : Thermoplastic,NBR or Viton
Shading Ring : Copper
Seats : Aluminium
Core, Tube : Stainless Steel
Spring : Stainless Steel
Response Time : Opening Time : 100 ms
Closing Time : 100 ms

G1" Pulse valve air consumption example
Pressure: 6 Bar; 50 cycle/hr
G1" Pulse valve air consumption at 6 bar can be seen as 0,43 m3/sn from the table.
For 50 cycle/hr, total air consumption is 0,043 x 50: 2,15 m3/h



NORMALLY CLOSED
2/2 WAY
PILOT OPERATED



Valve Order No	Connection Size	Orifice Size	Pressure		Kv	Fluid Temperature		Sealing	Weight
PL1010	G	mm	bar		Lt/min	°C			(kg)
			min	max		min	max		
PL1010.04	3/4"	25	0,5	8	150	-10	80	NBR	0,69
						-10	160	Viton	
						-40	120	Thermoplastik	
PL1010.05	1"	30	0,5	8	270	-10	80	NBR	0,68
						-10	160	Viton	
						-40	120	Thermoplastik	
PL1010.07	1 1/2"	44	0,5	8	774	-10	80	NBR	1,4
						-10	160	Viton	
						-40	120	Thermoplastik	

• TORK Pulse Valves comply with 97/23 / EC, Pressure Equipment Directive (PED) and Low Voltage Directive 2006/95 / EEC.
• Standard pipe connection GIBSP (ISO 228-1) is available on request. Other pipe connections can also be made on request. ((NPT) ANSI 1, 20, 31)

Pulse Valves - PL1010 Series (G2", 2 1/2", 3")

GENERAL FEATURES

- The pulse valves are especially used for dust collector service application or similar systems.
- Compact design, high reliability, flow rate, quality and performance; long life.
- Extremely fast opening and closing
- Working Temperature: -10°C ...160°C
- On request; with electronic timer
- Some application; dust filters, bunkers, dust extractors, electrostatic painting cabinets.
- Coils interchangeable
- Pulse valves must be used with filtered fluids.

ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Polyester Fiber Glass
Ambient Temperature	: -20°C ... 80°C
Protection Degree	: IP65 (ISO 60529) On request IP68
Electric Plug Connection	: DIN 46340 3- Poles Connector(DIN43650)
Connector Specification	: ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)
Electrical Safety	: IEC 335
Standard Voltages	: AC 12 V, 24V, 48 V, 110V, 230 V DC 12 V, 24V, 48 V, 110V

On request other voltages

Voltages Tolerance : ± % 10

Frequency : 50 / 60 Hz On request; LED connectors

Please, specify coil voltage with order.

MATERIALS IN CONTACT WITH FLUIDS

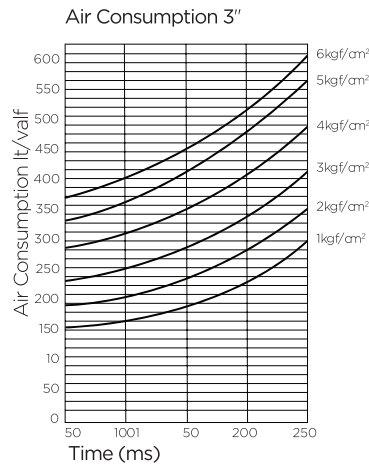
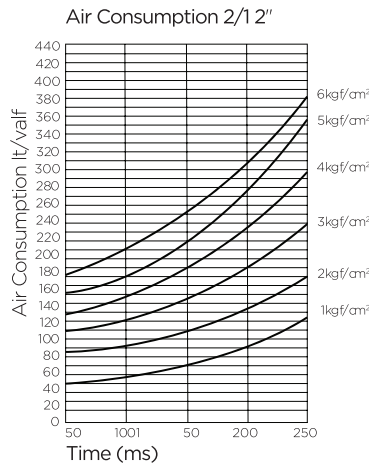
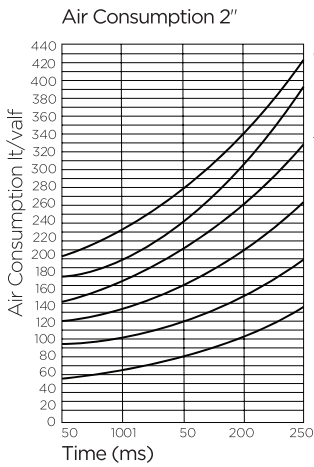
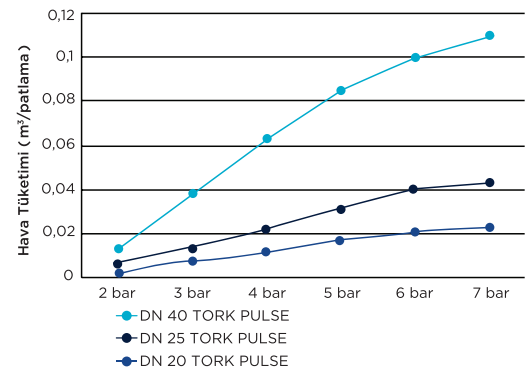
Body	: Casting Aluminium
Internal Parts	: Stainless Steel
Sealing	: NBR or Viton
Shading Ring	: Copper
Seats	: Aluminium
Core, Tube	: Stainless Steel
Spring	: Stainless Steel
Response Time	: Opening Time : 100 ms
Closing Time	: 100 ms



NORMALLY CLOSED

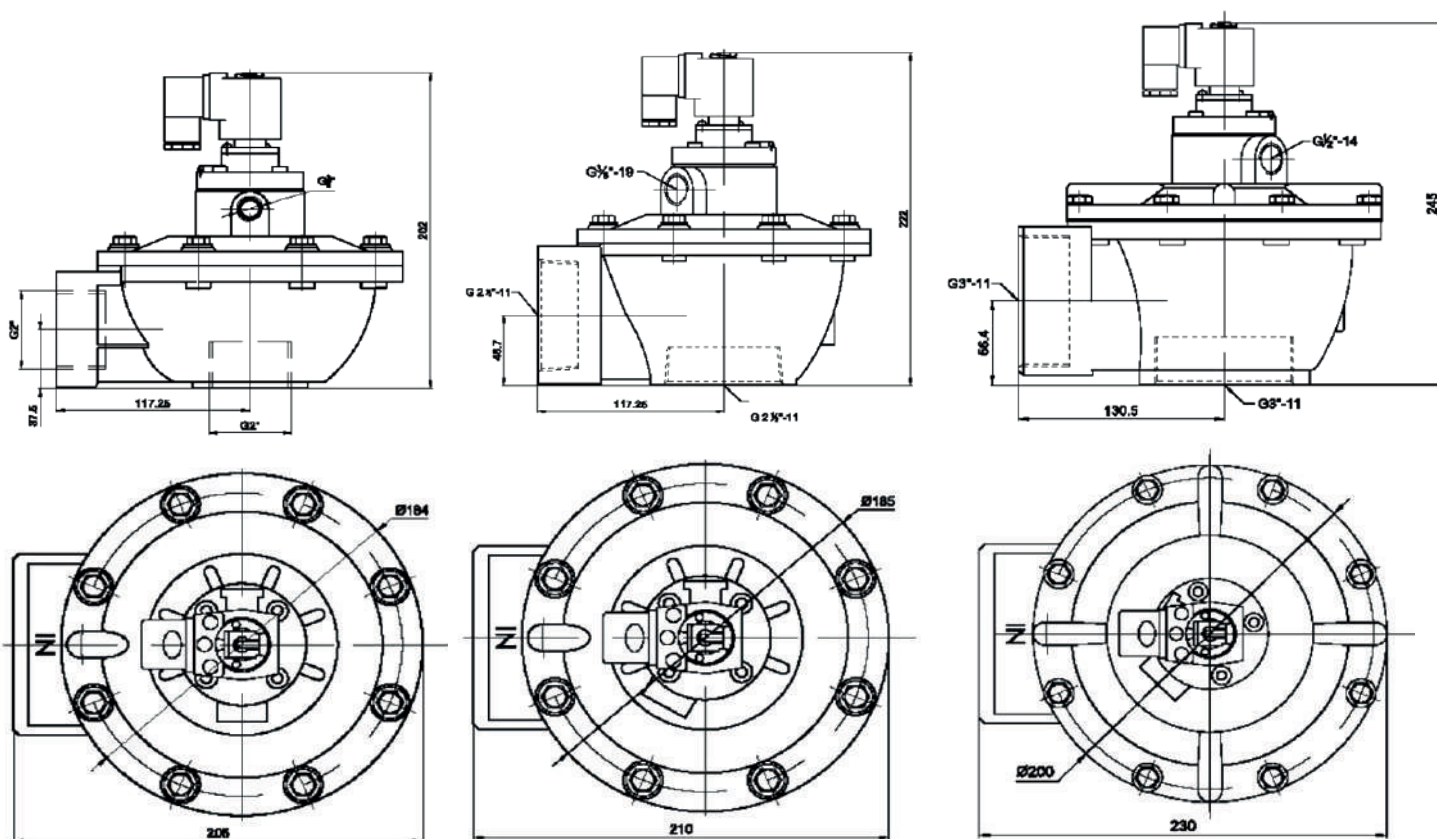
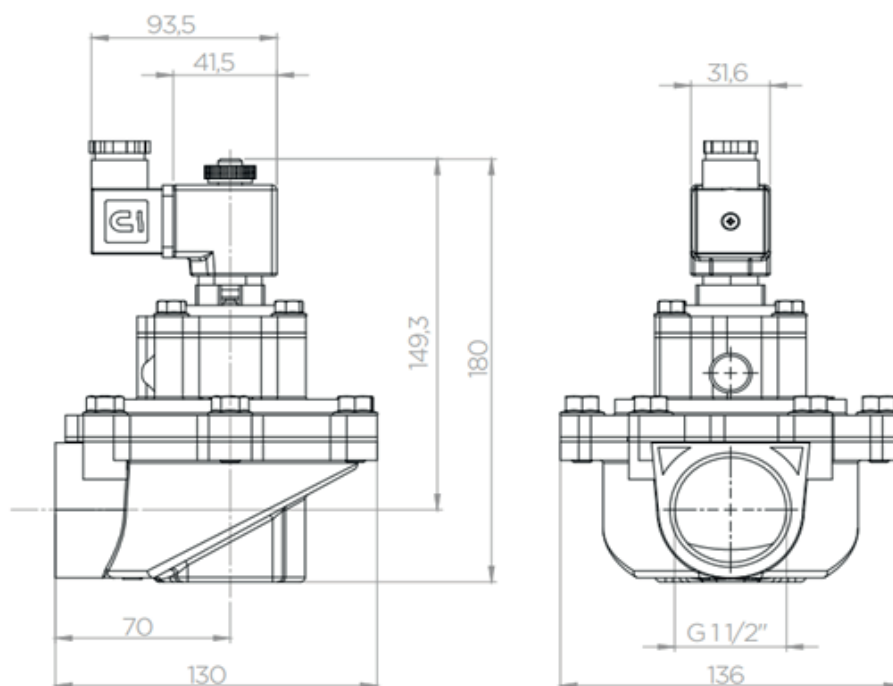
2/2 WAY

PILOT OPERATED



Valve Order No	Connection Size	Orifice Size	Pressure		Kv	Fluid Temperature		Sealing	Weight
PL1010	G	mm	bar		Lt/min	°C			(kg)
			min	max		min	max		
PL1010.08	2"	50	3	8	1065	-10	80	NBR	2,25
						-10	160	Viton	
PL1010.09	2 1/2"	62	3	8	1378	-10	80	NBR	3,47
						-10	160	Viton	
PL1010.10	3"	76	3	8	2040	-10	80	NBR	3,8
						-10	160	Viton	

Pulse Valves - PL1010 Series (G2", 2 1/2", 3")



Remote Control Pulse Valve - PL1020 Series (G3/4", G1", G1 1/2")

GENERAL FEATURES

- The pulse valves are especially used for dust collector service application or similar systems.
- Compact design, high reliability, flow rate, quality and performance; long life.
- Extremely fast opening and closing
- Working Temperature: -40°C ... 160°C
- Ambient Temperature: -20°C ... 80°C
- On request; with electronic timer
- Some application; dust filters, bunkers, dust extractors, electrostatic painting cabinets.
- Pulse valves must be used with filtered fluids.

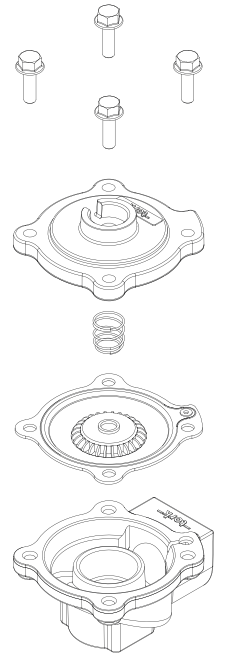
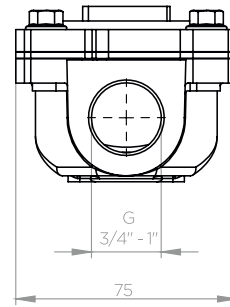
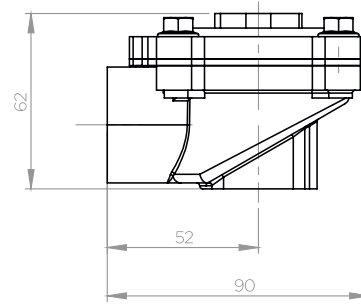
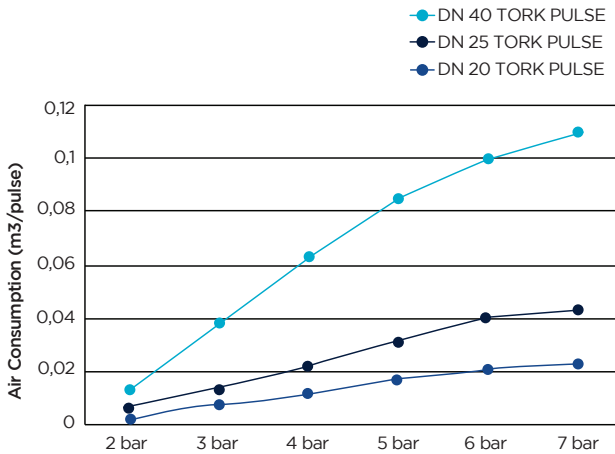
MATERIALS IN CONTACT WITH FLUIDS

Body	: Aluminium
Internal Parts	: Stainless Steel
Sealing	: Thermoplastic
Shading Ring	Copper
Seats	: Aluminium
Core, Tube	: Stainless Steel
Spring	: Stainless Steel
Response Time	: Opening Time : 100 ms
Closing Time	: 100 ms



2/2 WAY

PILOT OPERATED



Valve Order No	Connection Size	Orifice Size	Pressure		Kv	Fluid Temperature		Sealing	Weight
PL1020	G	mm	bar		Lt/min	°C			(kg)
			min	max		min	max		
PL1020.04	3/4"	25	0,5	8	150	-10	80	NBR	0,69
						-10	160	Viton	
						-40	120	Thermoplastik	
PL1020.05	1"	30	0,5	8	270	-10	80	NBR	0,68
						-10	160	Viton	
						-40	120	Thermoplastik	
PL1020.07	1 1/2"	44	0,5	8	774	-10	80	NBR	1,4
						-10	160	Viton	
						-40	120	Thermoplastik	

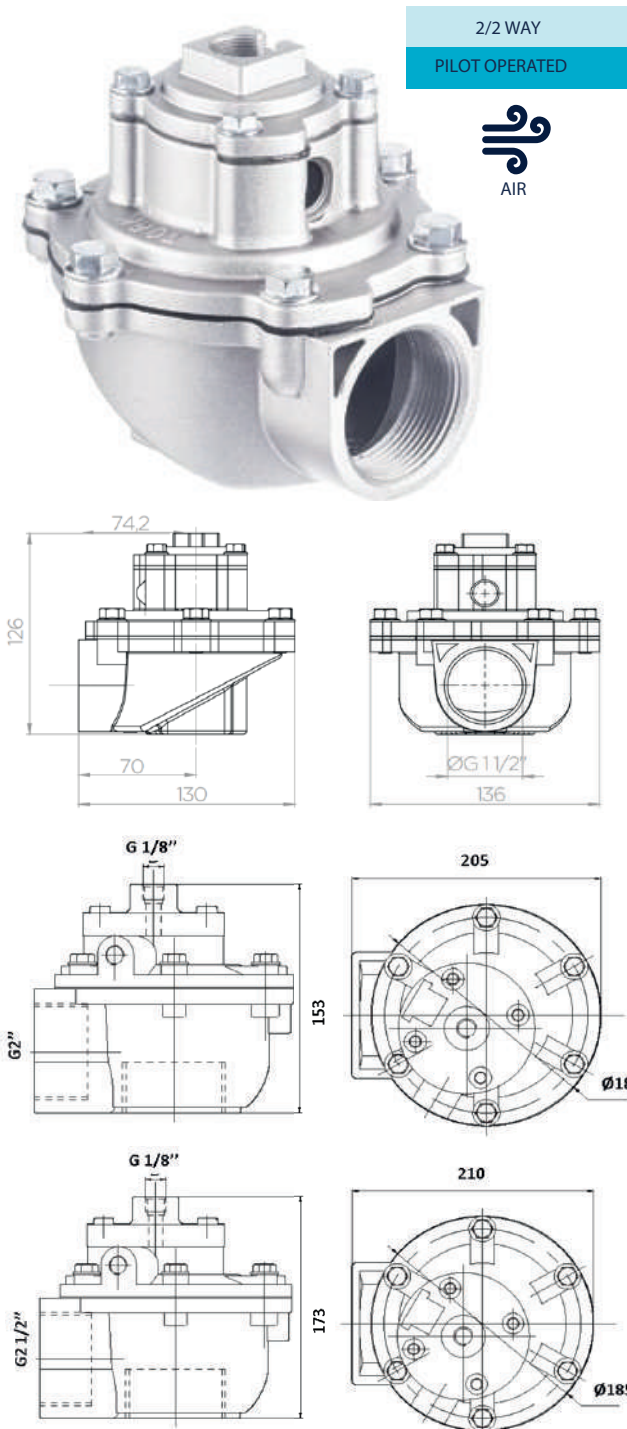
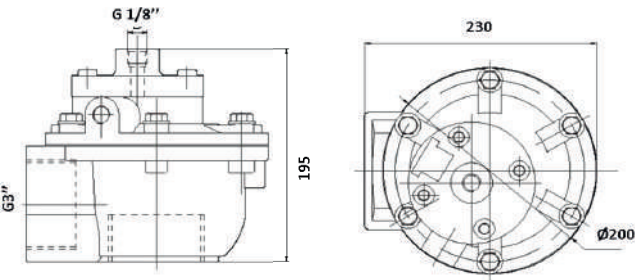
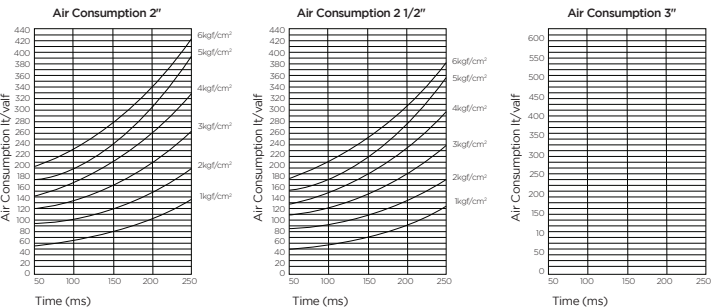
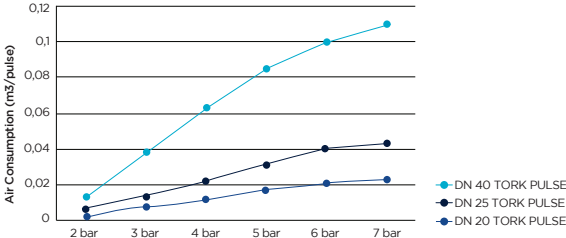
Remote Control Pulse Valve - PL1020 Series (G2", G2 1/2", G3")

GENERAL FEATURES

- The pulse valves are especially used for dust collector service application or similar systems.
- Compact design, high reliability, flow rate, quality and performance; long life.
- Extremely fast opening and closing
- Working Temperature: -10°C ... 160°C
- Ambient Temperature: -20°C ... 80°C
- On request; with electronic timer
- Some application; dust filters, bunkers, dust extractors, electrostatic painting cabinets.
- Pulse valves must be used with filtered fluids.

MATERIALS IN CONTACT WITH FLUIDS

Body	: Aluminium
Internal Parts	: Stainless Steel
Diyafram	: Thermoplastic (11/2"), Reinforced Rubber (2", 21/2", 3")
Shading Ring	: Copper
Seats	: Aluminium
Core, Tube	: Stainless Steel
Spring	: Stainless Steel
Response Time	: Opening Time : 100 ms
Closing Time	: 100 ms



Valve Order No	Connection Size	Orifice Size	Pressure		Kv	Fluid Temperature		Sealing	Weight
			min	max		min	max		
PL1020	G	mm			Lt/min		°C		(kg)
PL1020.08	2"	50	3	8	1065	-10	80	NBR	2,25
						-10	160	Viton	
PL1020.09	2 1/2"	62	3	8	1378	-10	80	NBR	3,47
						-10	160	Viton	
PL1020.10	3"	76	3	8	2040	-10	80	NBR	3,8
						-10	160	Viton	

• TORK Pulse Valves comply with 97/23 / EC, Pressure Equipment Directive (PED) and Low Voltage Directive 2006/95 / EEC.
 • Standard pipe connection GIBSP (ISO 228-1) is available on request. Other pipe connections can also be made on request. ((NPT) ANSI 1, 20, 31)

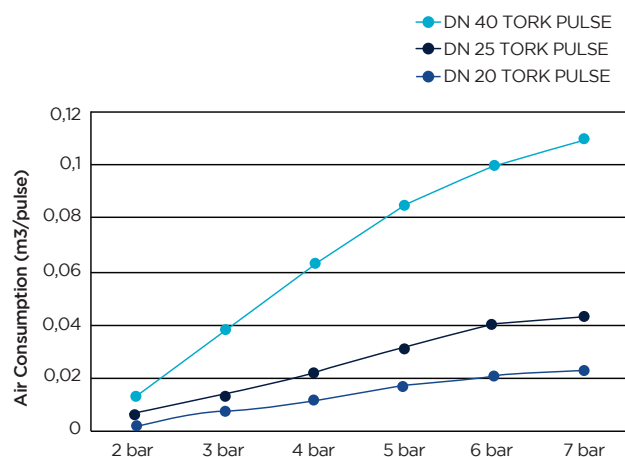
Explosive Proof Pulse Valves -PX1020 Series (G3/4", G1", G1 1/2")

GENERAL FEATURES

- The pulse valves are especially used for dust collector service application or similar systems.
- Compact design, high reliability, flow rate, quality and performance; long life.
- Extremely fast opening and closing
- Working Temperature: -40°C ... 120°C
- Ambient Temperature: -40°C ... 80°C
- On request; with electronic timer
- Some application; dust filters, bunkers, dust extractors, electrostatic painting cabinets.
- Pulse valves must be used with filtered fluids.
- Protection Class : ATEX

MATERIALS IN CONTACT WITH FLUIDS

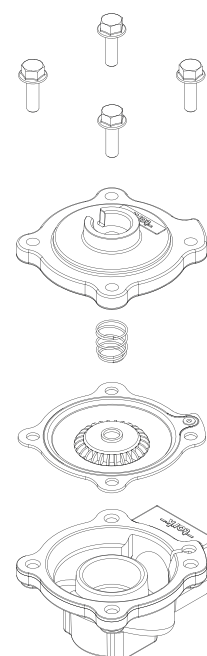
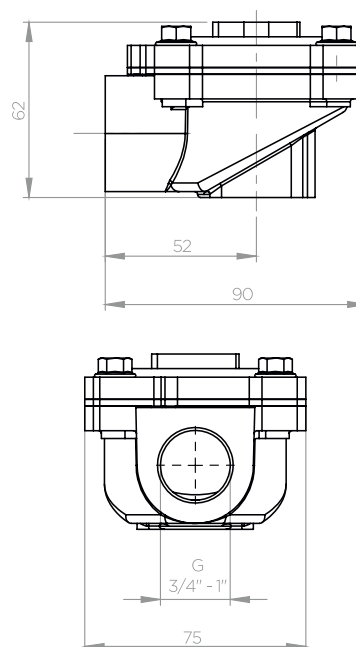
Body	: Aluminium
Internal Parts	: Stainless Steel
Sealing	: Thermoplastic
Shading Ring	Copper
Seats	: Aluminium
Core, Tube	: Stainless Steel
Spring	: Stainless Steel
Response Time	: Opening Time : 100 ms
Closing Time	: 100 ms



NORMALLY CLOSED

2/2 WAY

PILOT OPERATED



Valve Order No	Connection Size	Orifice Size	Pressure		Kv	Fluid Temperature		Sealing	Weight
			bar			°C			
PX1020	G	mm	min	max	Lt/min	min	max		(kg)
PX1020.04	3/4"	25	0,5	8	150	-40	120	Termoplastik	0,69
PX1020.05	1"	30	0,5	8	270	-40	120	Termoplastik	0,68
PX1020.07	1 1/2"	44	0,5	8	774	-40	120	Termoplastik	1,4

Coupling Connection Pulse Valve - PL1030 Series (G3/4", G1", G1 1/2")

GENERAL FEATURES

- The pulse valves are especially used for dust collector service application or similar systems.
- Compact design, high reliability, flow rate, quality and performance; long life.
- Extremely fast opening and closing
- Working Temperature: -40°C ... 160°C
- On request; with electronic timer
- Some application; dust filters, bunkers, dust extractors, electrostatic painting cabinets.
- Coils interchangeable
- Pulse valves must be used with filtered fluids.

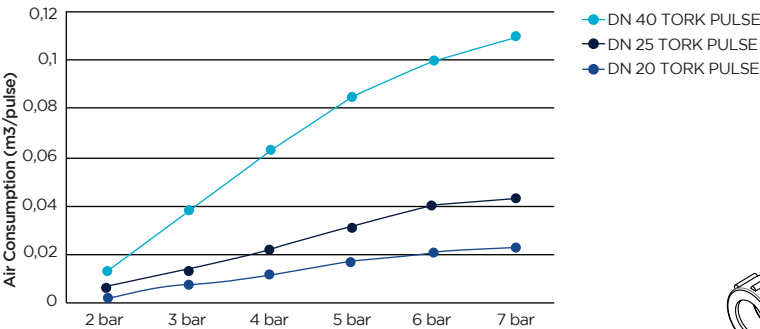
ELECTRICAL CHARACTERISTICS

- Continuous Duty : ED %100
Coil Insulation Class : H (180°C)
Coil Impregnation : Polyester Fiber Glass
Ambient Temperature : -20°C ... 80°C
Protection Degree : IP65 (ISO 60529) On request IP68
Electric Plug Connection : DIN 46340 3- Poles Connector(DIN43650)
Connector Specification : ISO 4400 / EN 175301-803 Form A,
Spade Plug (Cable Ø6-8 mm)
Electrical Safety : IEC 335
Standard Voltages : AC 12 V, 24V, 48 V, 110V, 230 V
DC 12 V, 24V, 48 V, 110V

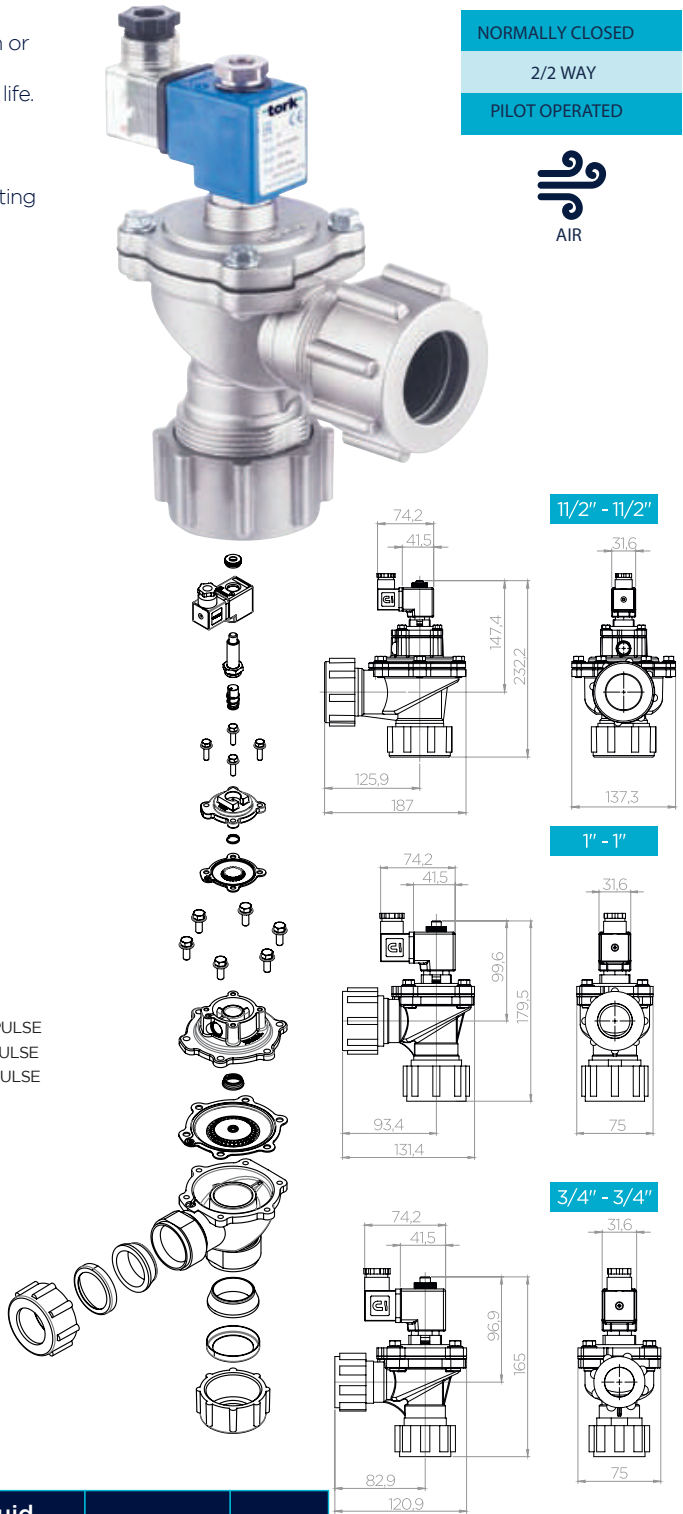
- On request other voltages
Voltages Tolerance : ± % 10
Frequency : 50 / 60 Hz On request; LED connectors
Please, specify coil voltage with order.

MATERIALS IN CONTACT WITH FLUIDS

- Body : Aluminium
Internal Parts : Stainless Steel and Brass
Sealing : Thermoplastic
Shading Ring : Copper
Seats : Aluminium
Core, Tube : Stainless Steel
Spring : Stainless Steel



Valve Order No	Connection Size	Orifice Size	Pressure		Kv	Fluid Temperature		Sealing	Weight
			bar			°C			
PL1030	G	mm	min	max	Lt/min	min	max		(kg)
PL1030.04	3/4"	25	0,5	8	150	-10	80	NBR	0,69
						-10	160	Viton	
						-40	120	Thermoplastik	
PL1030.05	1"	30	0,5	8	270	-10	80	NBR	0,68
						-10	160	Viton	
						-40	120	Thermoplastik	
PL1030.07	1 1/2"	44	0,5	8	774	-10	80	NBR	1,4
						-10	160	Viton	
						-40	120	Thermoplastik	



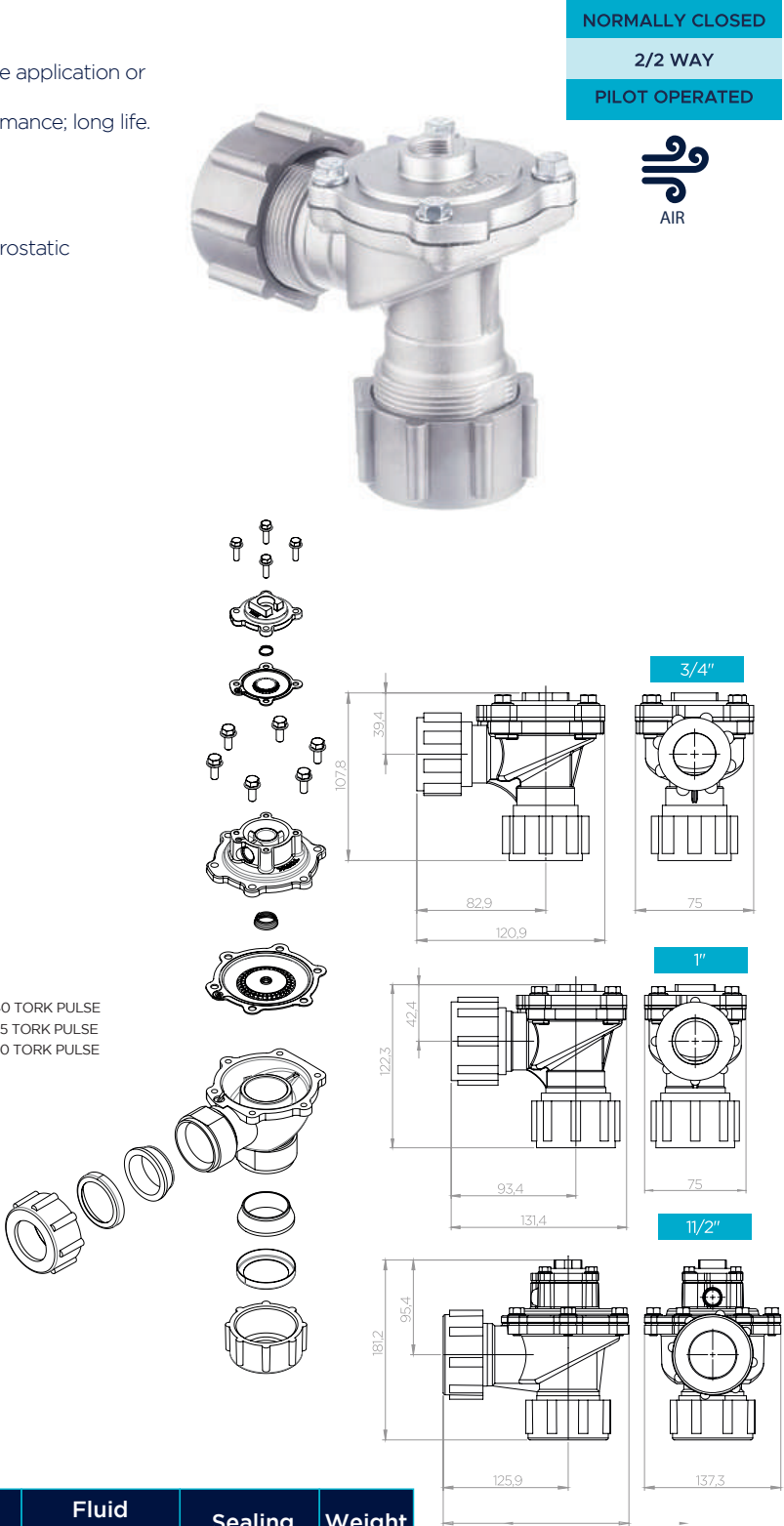
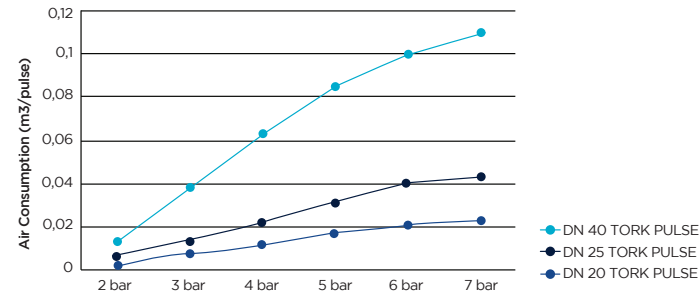
Coupling Connection Remote Control Pulse Valve - PL1050 Series (G3/4", G1", G1 1/2")

GENERAL FEATURES

- The pulse valves are especially used for dust collector service application or similar systems.
- Compact design, high reliability, flow rate, quality and performance; long life.
- Extremely fast opening and closing
- Working Temperature: -40°C ... 160°C
- Ambient Temperature: -20°C ... 80°C
- On request; with electronic timer
- Some application; dust filters, bunkers, dust extractors, electrostatic painting cabinets.
- Pulse valves must be used with filtered fluids.

MATERIALS IN CONTACT WITH FLUIDS

- Body : Aluminium
- Internal Parts : Stainless Steel and Brass
- Sealing : Thermoplastic
- Shading Ring : Copper
- Seats : Aluminium
- Core, Tube : Stainless Steel
- Spring : Stainless Steel



Valve Order No	Connection Size	Orifice Size	Pressure		Kv	Fluid Temperature		Sealing	Weight
			bar min	bar max		°C min	°C max		
PL1050	G	mm			Lt/min				(kg)
PL1050.04	3/4" - 3/4"	25	0,5	8	150	-10	80	NBR	0,55
						-10	160	Viton	
						-40	120	Thermoplastik	
PL1050.05	1" - 1"	30	0,5	8	270	-10	80	NBR	0,86
						-10	160	Viton	
						-40	120	Thermoplastik	
PL1050.07	1 1/2" - 1 1/2"	44	0,5	8	774	-10	80	NBR	1,67
						-10	160	Viton	
						-40	120	Thermoplastik	

• TORK Pulse Valves comply with 97/23 / EC, Pressure Equipment Directive (PED) and Low Voltage Directive 2006/95 / EEC.
• Standard pipe connection GIBSP (ISO 228-1) is available on request. Other pipe connections can also be made on request. ((NPT) ANSI 1, 20, 31)

Flanged, Coupling Connection Pulse Valve - PL1070 Series (G1 1/2" - G1", G2" - G1 1/2")

GENERAL FEATURES

- The pulse valves are especially used for dust collector service application or similar systems.
- Compact design, high reliability, flow rate, quality and performance; long life.
- Extremely fast opening and closing
- Working Temperature: -40°C ... 160°C
- Ambient Temperature: -20°C ... 80°C
- On request; with electronic timer
- Some application; dust filters, bunkers, dust extractors, electrostatic painting cabinets.
- Pulse valves must be used with filtered fluids.
- Different connection types can be applied upon request.

MATERIALS IN CONTACT WITH FLUIDS

Body	: Aluminium
Internal Parts	: Stainless Steel and Brass
Sealing	: NBR
Shading Ring	: Copper
Seats	: Aluminium
Core, Tube	: Stainless Steel
Spring	: Stainless Steel

ELECTRICAL CHARACTERISTICS

Continuous Duty	: ED %100
Coil Insulation Class	: H (180°C)
Coil Impregnation	: Polyester Fiber Glass
Ambient Temperature	: -20°C ... 80°C
Protection Degree	: IP65 (ISO 60529) On request IP68
Electric Plug Connection	: DIN 46340 3- Poles Connector(DIN43650)
Connector Specification	: ISO 4400 / EN 175301-803 Form A, Spade Plug (Cable Ø6-8 mm)
Electrical Safety	: IEC 335
Standard Voltages	: AC 12 V, 24V, 48 V, 110V, 230 V DC 12 V, 24V, 48 V, 110V

On request other voltages

Voltages Tolerance : ±% 10

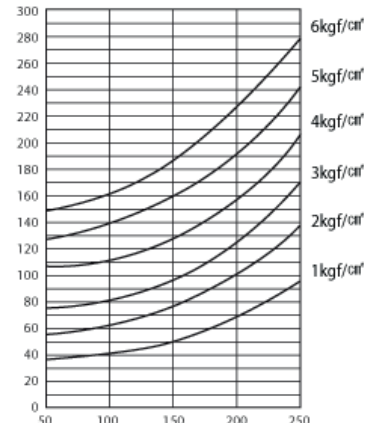
Frequency : 50 / 60 Hz On request; LED connectors

Please, specify coil voltage with order.



2/2 WAY

PILOT OPERATED



Valve Order No	Connection Size	Orifice Size	Pressure		Kv	Fluid Temperature		Sealing	Weight
PL1070	G	mm	bar		Lt/min	°C			(kg)
			min	max		min	max		
PL1070.05	1 1/2" - 1"	30	0,5	8	560	-10	80	NBR	0,92
						-10	160	Viton	
						-40	120	Thermoplastik	
PL1070.07	2" - 1 1/2"	44	0,5	8	984	-10	80	NBR	1,75
						-10	160	Viton	
						-40	120	Thermoplastik	

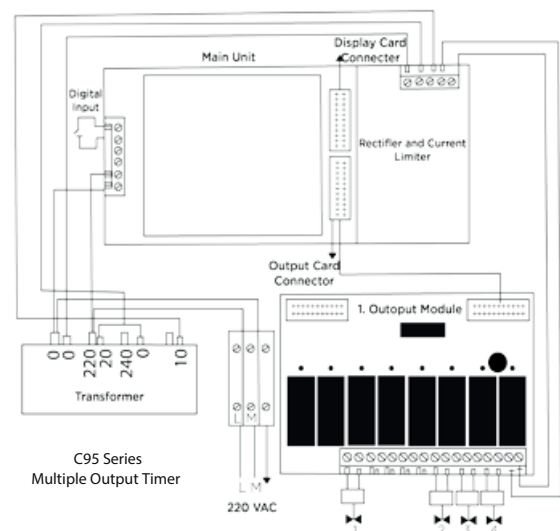
Pulse Valve Timer (C95)

GENERAL FEATURES

- Filter cleaning timer; It is a micro-processor based control instrument used in jet blast filters.
- These filters are generally used in glass, cement, painting, fertilizer and feed industries.
- Prevents the dust from spreading to the environment.
- Used to clean dust filter bags.

DEFINITION

- The C95 Filter Timer is stored in a polyester case. The dimensions of the box are 250 x 300 x 170 mm. Timer regulation and connection diagram is shown in Figure 1. Vehicles with output from 1 to 8 have only one output module.
- The timer unit can be fixed to a wall or a panel. Mounting parts must be fixed to the corners. Connection cables passing through the cable cover are screwed to the terminals from the bottom of the unit.



Valve Order No	Out
C95	
C95.08	8 relay
C95.16	16 relay
C95.24	24 relay
C95.32	32 relay

Pulse Tank - PL1015, PL1027, PL1016, PL1017, PL1026, PL1037 Series

GENERAL FEATURES

- TORK series pulse valves are normally closed.
- TORK series valve bodies are aluminum die castings.
- TORK series valve diaphragms are elastomer.
- Maximum ambient temperature: 100 ° C
- Maximum fluid temperature: 110 ° C
- It is used in air and inert gases applications.

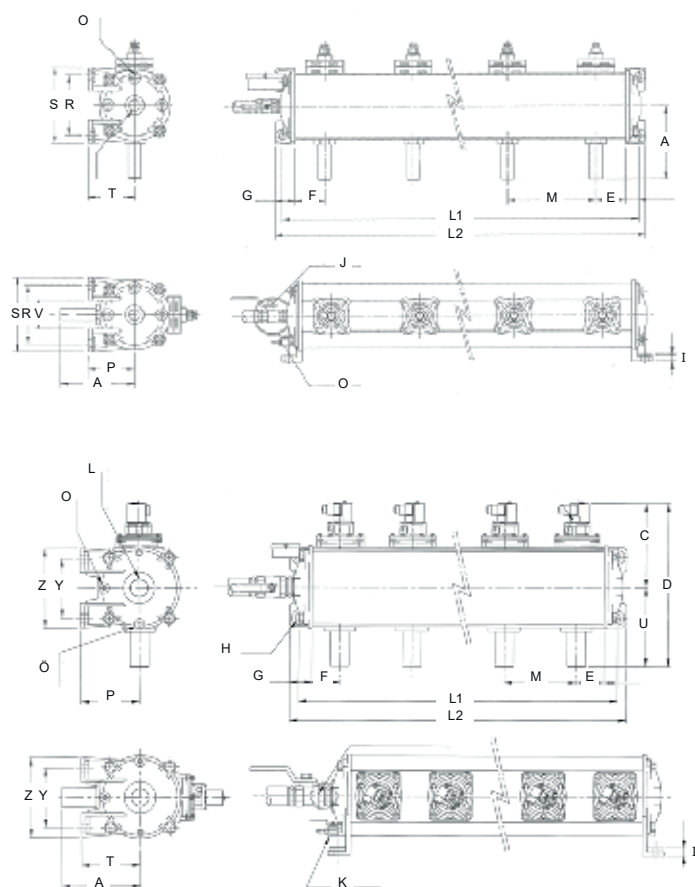
NORMALLY CLOSED



BMXN: B:Position, M: distance between two pulse, N: Number of Pulses

Valve Order No	Working Pressure		KV	Temperature	
PL 1090	min	max	lt/min	min	max
PL1025.03.15.B.MXN	0.5	7.4	141.3	-20	110
PL1025.04.20.B.MXN	0.5	7.4	237.9	-20	110
PL1015.04.20.B.MXN	0.5	9.4	237.9	-20	110
PL1026.05.25.B.MXN	0.5	7.4	591.1	-20	110
PL1036.06.30.B.MXN	0.5	8.4	836.2	-20	110
PL1016.06.30.B.MXN	0.5	9.6	836.2	-20	110
PL1037.07.40.B.MXN	0.5	8.4	1002.0	-20	110
PL1017.07.40.B.MXN	0.5	9.6	1002.0	-20	110
PL1037.08.50.B.MXN	0.5	9.4	1182.2	-20	110
PL1017.08.50.B.MXN	0.5	9.6	1182.2	-20	110

Pulse Tank - PL1015, PL1027, PL1016, PL1017, PL1026, PL1037 Series



PL XX XX . XX . XX

10 Standard Pulse Valve

15	Standard Pulse Valve 100 mm
16	Integral, Tank Diameter 160 mm
17	Integral, Tank Diameter 200 mm
25	Remote, Single Acting Tank Diameter 100 mm
26	Remote, Single Acting Tank Diameter 160 mm
36	Remote, Double Acting Tank Diameter 160 mm
37	Remote, Double Acting Tank Diameter 200 mm

ORIFIS

15
20
25
30
40
50

SIZE

03	1/2"
04	3/4"
05	1"
06	1 1/4"
07	1 1/2"
08	2"

MODEL	A	C	D	E	F	G	H	I	J	K	L	O	Ö	P	R	S	T	U	V	Y	Z
PL1025.03.15.B.MXN	125	-	-	34	50	22,5	Ø11	12	-	1/4"	1/4"	1/2"	-	79	101	128	79	125	50	101	128
PL1025.04.20.B.MXN	105	-	-	34	50	22,5	Ø11	12	1/2"	1/4"	1/4"	1/2"	-	79	101	128	79	125	50	101	128
PL1015.04.20.B.MXN	105	-	-	34	50	22,5	Ø11	12	1/2"	1/4"	1/4"	1/2"	-	79	101	128	79	125	50	101	128
PL1026.05.25.B.MXN	157	137	294	50	52	32	Ø17	17	1 1/4"	1/4"	1/4"	3/8"	-	120	118	151	120	157	-	112	151
PL1036.06.30.B.MXN	161	161	322	50	59	31,5	Ø17	17	1 1/4"	1/4"	1/4"	3/8"	-	120	118	151	120	161	-	118	151
PL1016.06.30.B.MXN	161	202	363	50	59	31,5	Ø17	17	1 1/4"	1/4"	1/4"	3/8"	-	120	118	151	120	161	-	118	151
PL1037.07.40.B.MXN	200	178	378	57	70	34	Ø19	20	1 1/2"	3/8"	1 1/2"	1/4"	3/8"	150	150	200	150	200	-	150	200
PL1017.07.40.B.MXN	200	213	413	57	70	34	Ø19	20	1 1/2"	3/8"	1 1/2"	1/4"	3/8"	150	150	200	150	200	-	150	200
PL1037.08.50.B.MXN	200	195	395	57	90	34	Ø19	20	1 1/2"	3/8"	1 1/2"	1/4"	3/8"	150	150	200	150	200	-	150	200
PL1017.08.50.B.MXN	200	236	436	57	90	34	Ø19	20	1 1/4"	3/8"	1 1/4"	1/4"	3/8"	150	150	200	150	200	-	150	200

MODEL	PL1025.03.15.B.MXN	PL1025.04.20.B.MXN	PL1015.04.20.B.MXN	PL1026.05.25.B.MXN	PL1036.06.30.B.MXN
L1	Mx(N-1)+145	Mx(N-1)+155	Mx(N-1)+155	Mx(N-1)+168	Mx(N-1)+218
L2	Mx(N-1)+145	Mx(N-1)+168	Mx(N-1)+168	Mx(N-1)+206	Mx(N-1)+180
Model	PL1016.06.30.B.MXN	PL1037.07.40.B.MXN	PL1017.07.40.B.MXN	PL1037.08.50.B.MXN	PL1017.08.50.B.MXN
L1	Mx(N-1)+218	Mx(N-1)+208	Mx(N-1)+208	Mx(N-1)+248	Mx(N-1)+248
L2	Mx(N-1)+180	Mx(N-1)+254	Mx(N-1)+254	Mx(N-1)+294	Mx(N-1)+294



HEAD OFFICE

Bostancı Yolu Cad, Kuru Sok, No16 Y. Dudullu, 34776 Ümraniye İstanbul - TURKEY

FACTORY

İMES O.S.B. 5. Cad, No6 Çerkeşli O.S.B. Mah, Dilovası Kocaeli - TURKEY

SMS-TORK Endüstriyel Otomasyon Ürünleri San. Tic. Ltd. Şti.

T +90 216 364 34 05 **F** +90 216 364 37 57

T +90 262 290 20 20 **F** +90 262 290 20 21

SMSTORK [/sms-tork](https://www.smstork.com) www.smstork.com