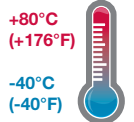


- > **Port size: G1/4 or interface version**
- > **Low operating forces**
- > **High durability**
- > **Easy installation, simple operation and maintenance free**
- > **Full bore passage to maximise flow rate**
- > **Wide pressure and temperature range**



Technical features

Medium:

Compressed air, water, inert gases and any other fluid compatible with the valve materials

Operating pressure:

0 ... 12 bar (0 ... 174 psi)

Port size:

1/4 and interface, alternative port sizes on request

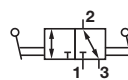
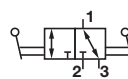
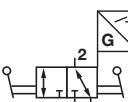
Ambient/Media temperature:

-40 ... +80°C (-40 ... +176°F)
 Air supply must be dry enough to avoid ice formation at temperatures below +2°C (35°F).

Materials:

Body and end connectors: Aluminium
 Handle: zinc alloy
 Seat: PTFE
 'O' rings: synthetic rubber

Technical data - Standard options

Symbol	Port size	Version	Position Indicator	Weight (kg)	Dimension No.	Model
	G1/4	Exhausting	None	0,2	1	T10-210-F2BG *1)
	Interface	Exhausting	None	0,4	3	T10-N10-D2BN
	G1/4	Full bore	None	0,3	2	T10-220-L2BG
	Interface	Exhausting	Integrate	0,5	4	T10-N30-D2BN

Note: Different sizes and locking/latching lever handles available on request

*1) Maybe 2/2 function achievable by plugging exhaust ports.

Electrical parameters

Interface valve with position switch

Switching element:

Microswitch

Voltage:

250 V a.c. max

Current:

6 A max

Protection class:

IP65 (DIN 40 050) with connector

Electrical connection:

DIN EN 175301-803 (DIN 43650)
 Form A

Protection grades against external agents NF F 11 102:

- Against exterior solid bodies: S6 (IP6X, EN 60529)
- Against water ingress: H5 (IPX5, EN 60529)
- Ice protection G1
- Against corrosion: C5 (1000 hrs, ISO 9227)

Compliant standards

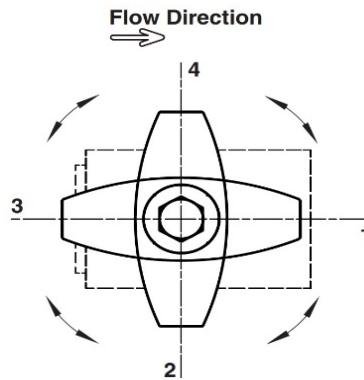
- Shock & Vibration per EN 61373:2010 Category 1 Class B compliant
- Fire & Smoke protection per EN 45545-2 compliant

Option selector

T10-★-★-★-★-★2★-★-★

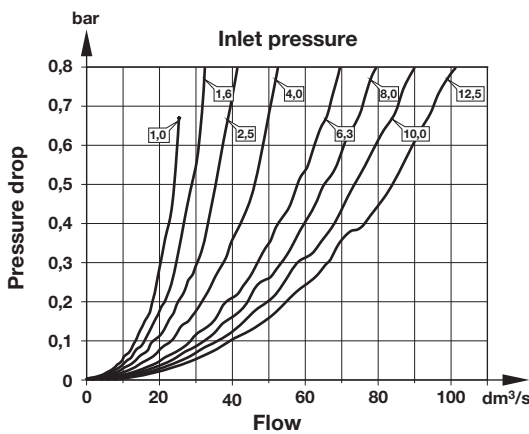
Port size	Substitute
1/4"	2
3/8" (on request)	3
No thread (interface version)	N
Monitoring option	Substitute
No monitoring	1
Open Position	2
Close Position	3
Open/Open Position	4
Close/Close Position	5
Open/Close Position	6
Handle position	Substitute
1 open; 2 close	0
1 close; 2 open	1
4 close; 1 open	3

Thread type	Substitute
PTF	A
ISO Rc	B
G thread	G
No thread (interface version)	N
Handle	Substitute
No handle	N
T-Bar	Substitute
White	A
Black	B
Red	C
Yellow	D
Ports	Substitute
Exhaust M5	F
Full bore	L
No thread (interface)	D

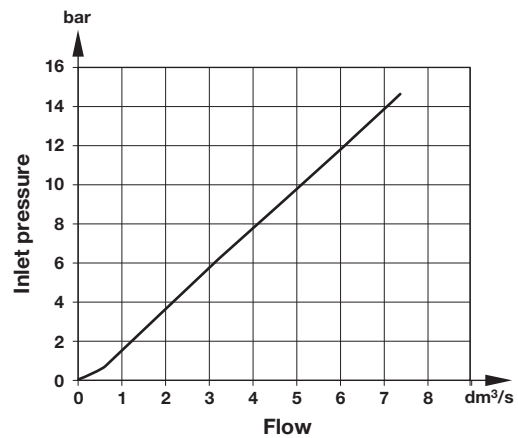


Flow characteristics

Exhausting version
Open valve 1 » 2



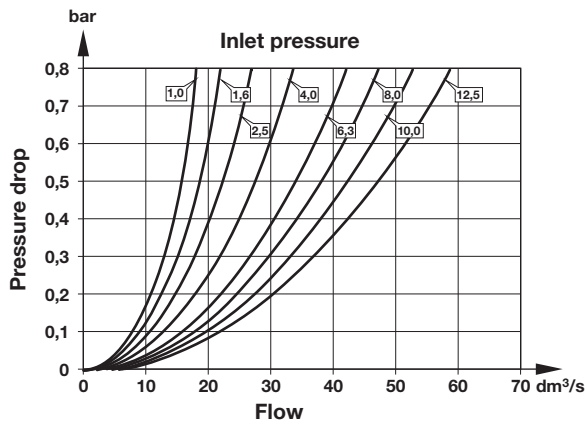
Exhausting version
Closed valve 2 » 3



Flow characteristics

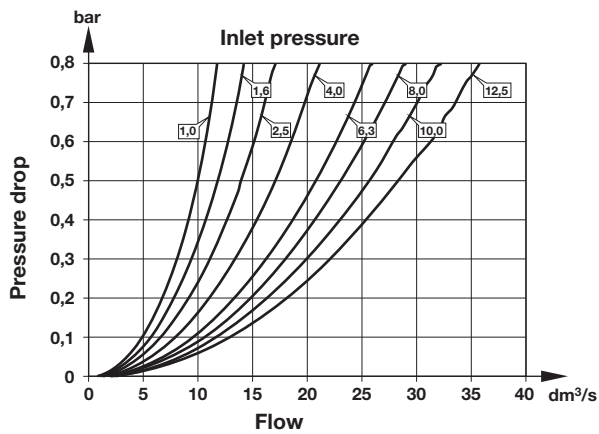
Full bore version

Open valve 1 » 2 or 1 » 3



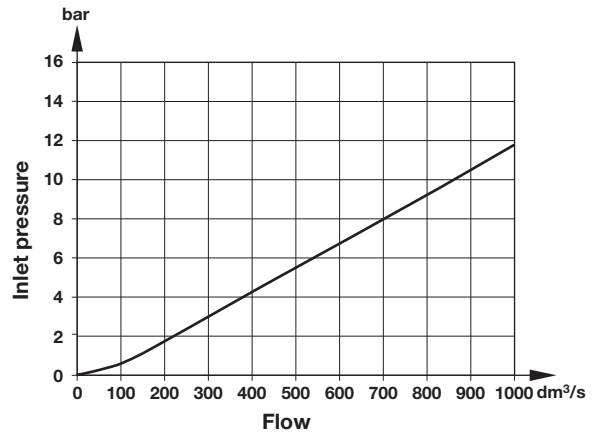
Interface version

Open valve 1 » 2



Interface version

Closed valve 2 » 3



Spark quenching with d.c. voltage

1. Diode D in parallel to inductive load.

Observance of correct polarity (positive pole to cathode).

Dimensioning specifications for quenching diode:

Rated reverse voltage at diode: $U_D \geq 1,5 \times U_{d.c.} - 2 \times U_{a.c.}$

Rated current at diode: $I_N \geq I_{Load}$

Selection of a quick switching diode (recovery time $t_{rr} \leq 200$ ns).

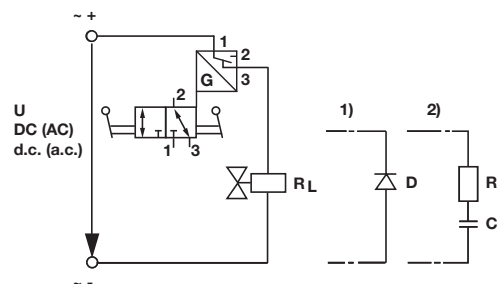
2. RC link in parallel to load in parallel to switching contact.

Suited for d.c. and a.c. voltage.

Dimensioning principles:

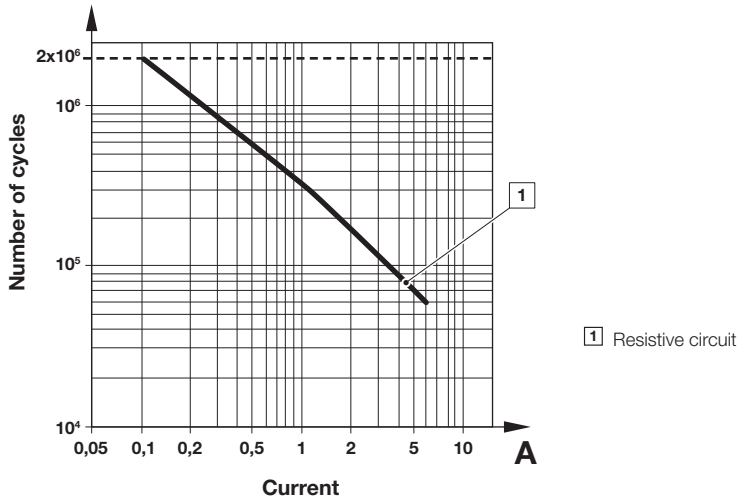
R in $\Omega \approx 0,2 \times R_{Load}$ in Ω

C in $[\mu F] \approx I_{Load}$ in $[A]$







$R_L =$ Load resistance

Lifetime expectancy curve 250 V a.c.



Accessories

Silencer	Plug Maybe 2/2 function achievable by plugging exhaust ports	Connector	7 pin connector
			
Page 7	Page 7		Page 7
T40C0500 (M5)	160050005	0570275	0660689
T40C2800 (G 1/4)			
MS002A (1/4 NPT)			

Service kits - for exact PN please use the following option selector

Option selector seal kit

T10-KITA★

Type of ball valve	Substitute
Inline	T
Manifold	N
Full bore	F

Option selector handle kit

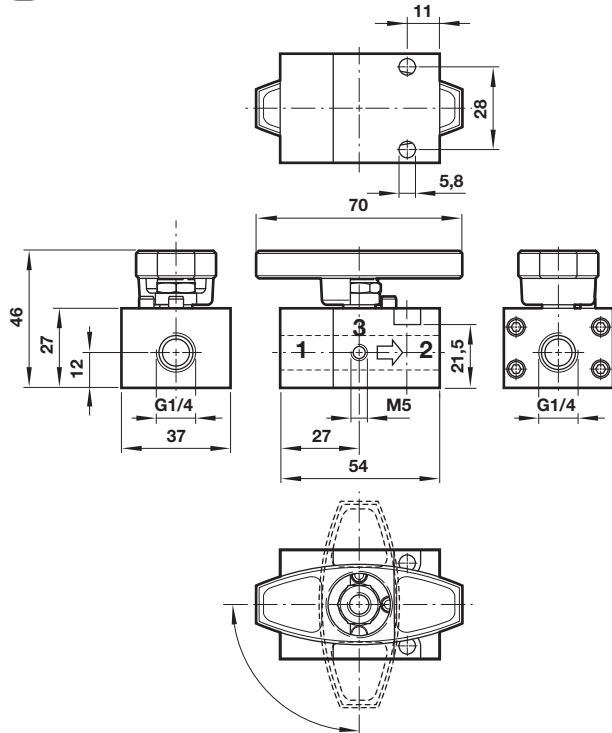
T10-KITB★

T-Bar colour	Substitute
White	W
Black	B
Red	R
Yellow	Y

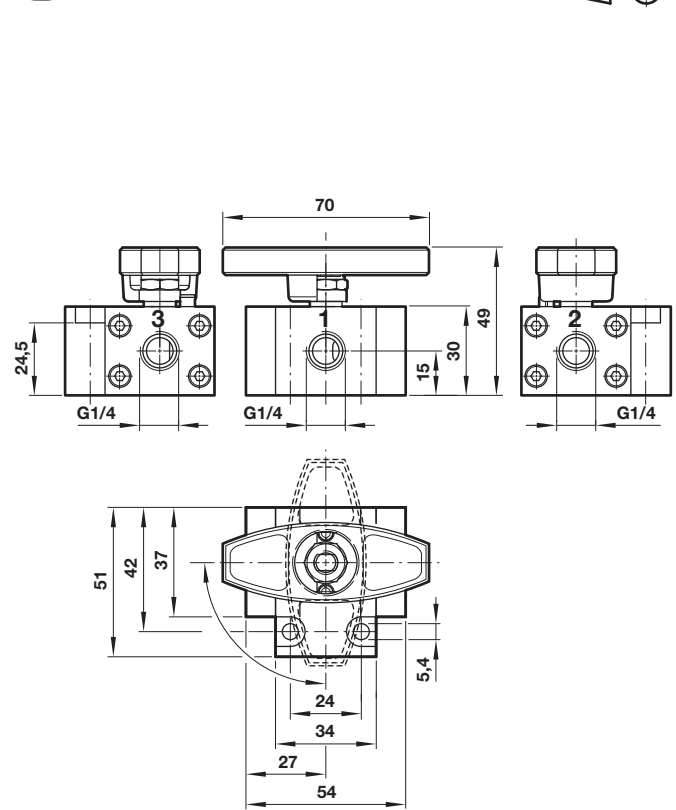
Dimensions

Dimensions shown in mm
Projection/First angle

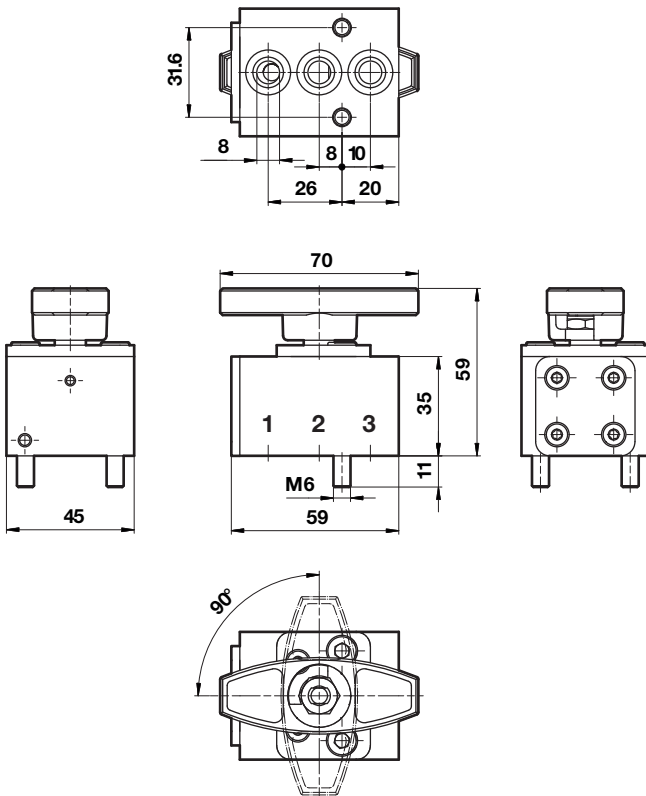
1 G1/4 thread



2 G1/4 thread, full bore

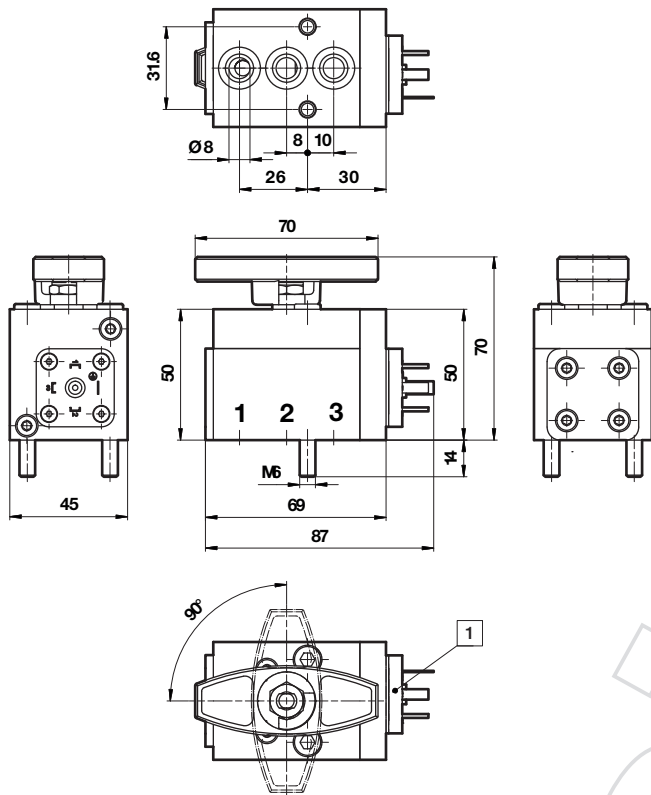


3 Interface

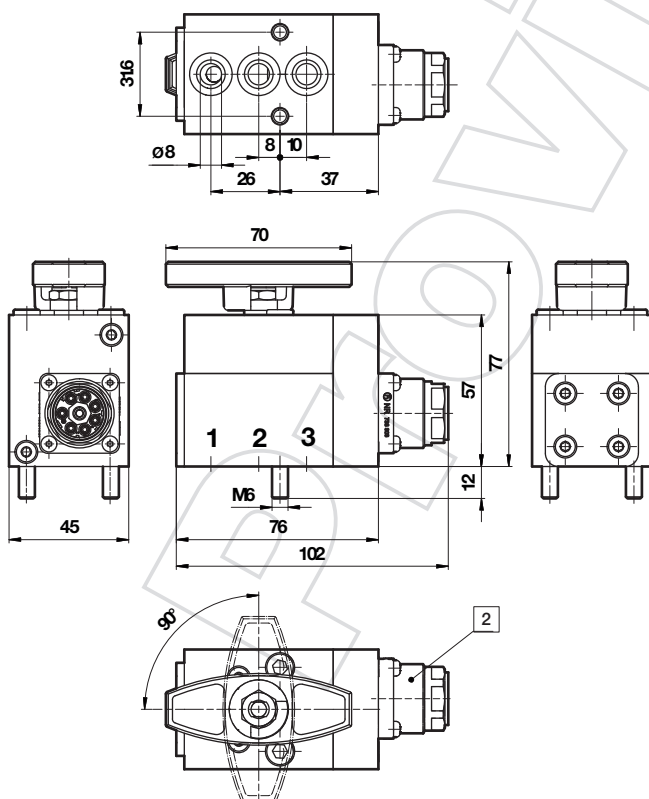


Dimensions

 Dimensions shown in mm
 Projection/First angle

4 Interface with position switch


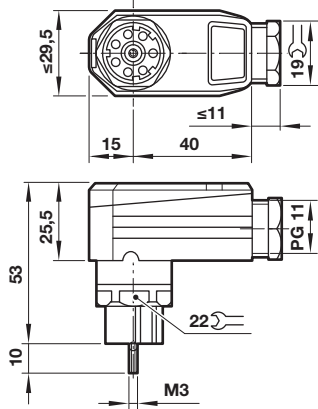
[1] Corresponding to DIN EN 175301-803; Form A

5 Interface with two position switches


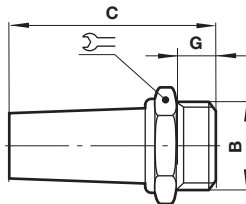
[2] Corresponding to DIN EN 175201-804 (DIN 43651)


6 Pin connector
Model: 0660689

Dimensions shown in mm
Projection/First angle

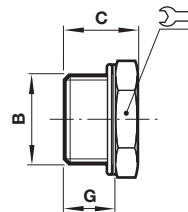



Silencer



B	C	G		Weight (g)	Model
M5	20	5	7	9	T40C0500
G 1/4	33	8	17	18	T40C2800
1/4 NPT	35	8	9/16	18	MS002A

Plug



B	C	G		Model
M5	7,5	4	8	160050005

Warning

These products are intended for use in industrial compressed air and rail transport systems only. Do not use these products where pressures and temperatures can exceed those listed under

»Technical features/data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.