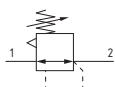


Regulators (R - RM - RW - RP - RZ)


- ▶ Diaphragm pressure regulator with relieving
- ▶ Available in 4 sizes with flow rates up to 8000 NI/min and connections from 1/8" to 1"
- ▶ Low hysteresis rolling diaphragm and balanced spool
- ▶ Available in four pressure ranges up to 12 bar
- ▶ Fitted with panel mounting locking ring
- ▶ Available with pressure gauge or digital pressure switch integrated
- ▶ Atex certification (II 2GD or II 3GD)
- ▶ Inlet pressures up to 20 bar

Note

For installations where a more accurate and constant pressure is required, the unit should be installed as close as possible to the point of use.



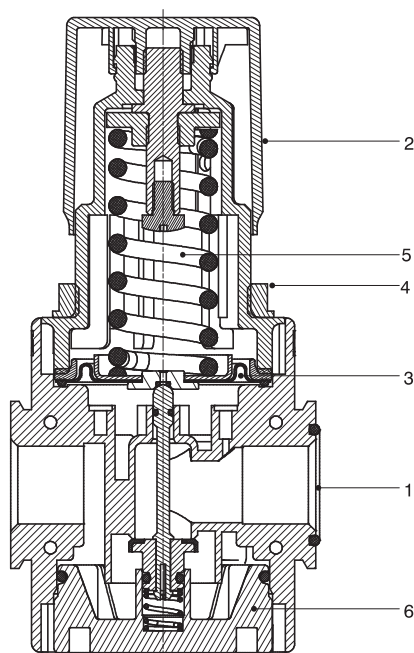
Technical characteristics					
Size		Size 1	Size 2	Size 3	Size 4
Body and connections type		Technopolymer body, integrated technopolymer connections (T version)			/
		Technopolymer body, metal connections (N version)			
		Aluminium body, integrated aluminium connections (P - L versions)			
IN / OUT connections	T version	G1/4"	G3/8"	G1/2"	not available
	N version	G1/8" - G1/4" - 1/4 NPT	G3/8" - G1/4" - 3/8 NPT	G3/8" - G1/2" - 1/2 NPT	
	P and L versions	not available	G3/8" - 1/4 NPT	G1/2" - 1/2 NPT	
Assembly configuration		Stand alone			
		Panel mounted			
		With fixing bracket			Panel mounted
Assembly positions		Indifferent			
Pressure range		0-2 bar			
		0-4 bar			
		0-8 bar			
		0-12 bar (P2 max 10 Bar in case of digital pressure switch selection)			
Regulation		Manual push and lock with pressure			
		Manual lockable with accessories			
Pressure measurement		G1/8" - 1/8" NPT pressure gauge connection port (only for versions with IN / OUT NPT connections)			
		Integrated pressure gauge (optional)			
		Digital pressure switch (optional)			
Max. fittings torque IN / OUT connections	G1" metal	/		/	35Nm
	G1/2" metal			30Nm	
	G1/4" metal	20Nm	/	/	
	G1/8" metal	15Nm	/		
	G3/8" metal	25Nm			
	G1/2" technopolymer	/	22Nm		
	G1/4" technopolymer	9Nm	/		
	G3/8" technopolymer	/	16Nm		
Max.fitting torque pressure gauge connection port		15Nm			
		4Nm			

Operational characteristics				
Size	Size 1	Size 2	Size 3	Size 4
Maximum working pressure	13 bar			
	/	20 bar (only for P - L versions)		
Minimum working pressure	0,5 bar			
	-5°C...+50°C			
Working temperature	/	-30°C ... +80°C (only for P version)		
	/	-40°C ... +80°C (only for L version)		
Working temperature with digital pressure switch	0°C...+50°C			

Weights				
Size	Size 1	Size 2	Size 3	Size 4
Technopolymer body version	150 g	310 g	390 g	/
Aluminium body version	/	400 g	560 g	1260 g

Materials

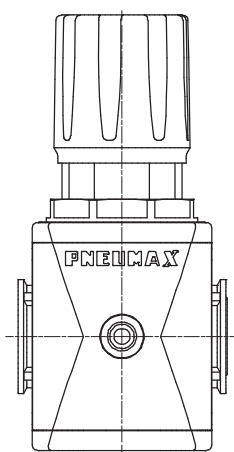
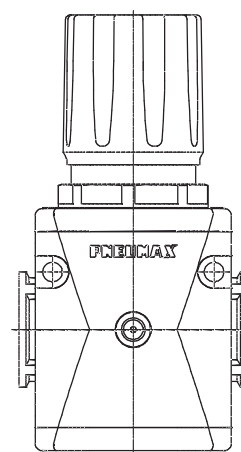
Exploded sectioned



Regulator		
1	Body	Polyamide Die-cast aluminium
2	Adjusting knob	Polyamide
3	Diaphragm	NBR
4	Panel mounting locking ring	Polyamide
5	Adjusting spring	Steel
6	Rear end cap	Polyamide Die-cast aluminium

Design

Size 1 - Size 2 - Size 3

All versions
Size 4Coding: **V17TRO¹RO²O³O⁴**

V	VERSION		
	N = Technopolymer body and metal inserts (not available for size 4)		
	T = Technopolymer body and thread (not available for size 4)		
	P = Aluminum body (not available for size 1)		
T	L = Aluminum body, low temperature (not available for size 1)		
	SIZE AND CONNECTIONS		
	1A = Size 1 - G1/8" only for N version		
	1B = Size 1 - G1/4" only for T - N versions		
	1C = Size 1 - 1/4" NPT only for N version		
	2A = Size 2 - G1/4" only for N version		
	2B = Size 2 - G3/8" for all versions		
	2C = Size 2 - 3/8" NPT only for N version - 1/4" NPT only for P - L versions		
	3A = Size 3 - G3/8" only for N version		
	3B = Size 3 - G1/2" for all versions		
	3C = Size 3 - 1/2" NPT only for N - P - L versions		
	4B = Size 4 - G1" only for P - L versions		
	4C = Size 4 - 1" NPT only for P - L versions		
O¹	PRESSURE MEASUREMENT OPTIONS		
	= G1/8" - 1/8" NPT thread (Only for P - L versions with metal body and NPT thread)		
	M = Integrated pressure gauge (not available on NPT, size 2 and size 3 aluminum body)		
	W = Integrated pressure gauge Right - Left (not available on NPT, size 2 and size 3 aluminum body)		
	P = Digital pressure switch (not available on NPT, size 2 and size 3 aluminum body)		
	Z = Digital pressure switch Right - Left (not available on NPT, size 2 and size 3 aluminum body)		
R	PRESSURE RANGE		
	A = 0 - 2 bar		
	B = 0 - 4 bar		
	C = 0 - 8 bar		
O²	D = 0 - 12 bar		
	RELIEVING OPTIONS		
	= With relieving		
	F = Controlled refuel and improved relieving (not available for size 4)		
O³	L = Without relieving		
	R = Improved relieving		
	KNOB OPTIONS		
	= Non-lockable version		
O⁴	K = Lockable version		
	U = Lockable version with universal key		
	DIGITAL PRESSURE SWITCH OPTIONS		
	A = Cable 150 mm + M8 PNP		
O⁴	B = Cable 150 mm + M8 NPN		
	C = Cable 2 m PNP		
O⁴	D = Cable 2 m NPN		

Example: **T173BRMD**: Size 3 regulator G1/2" 0 - 12 bar

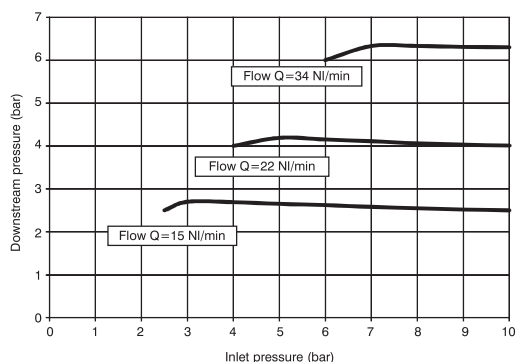
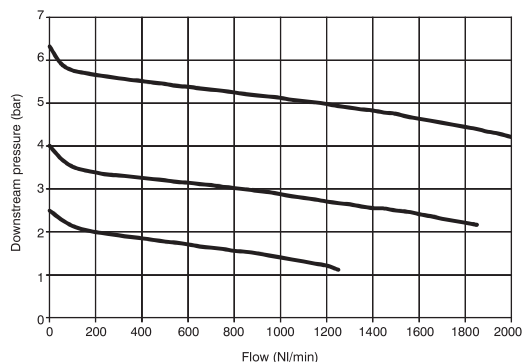


Characteristic curves

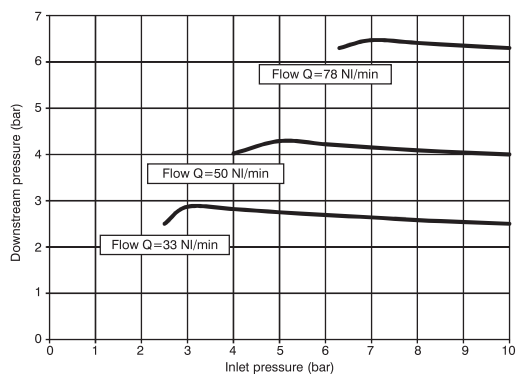
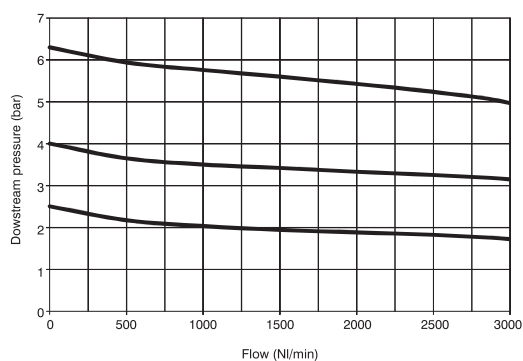
Flow rate curves

Adjustment characteristic

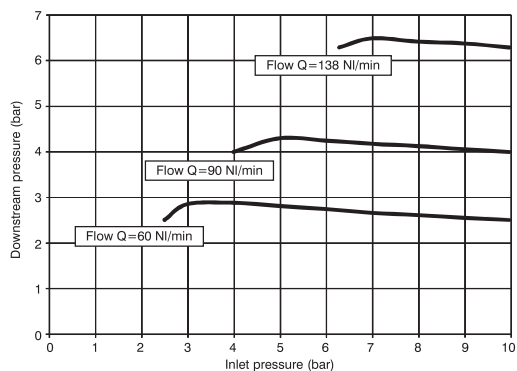
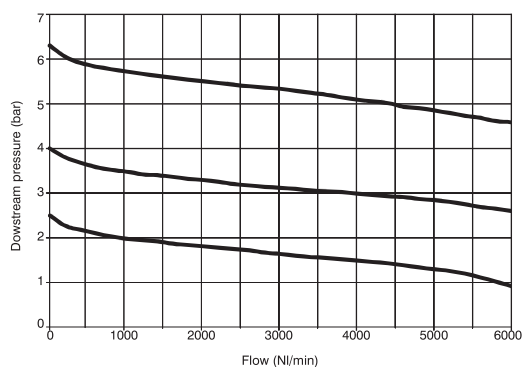
Size 1 - G1/4", 0-8 bar, P1=7 bar



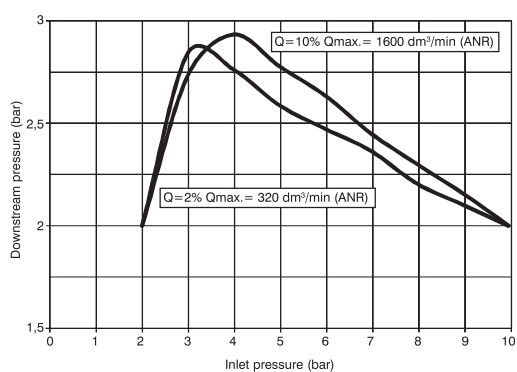
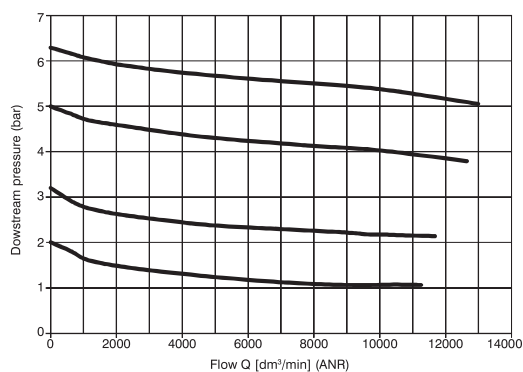
Size 2 - G3/8", 0-8 bar, P1=7 bar



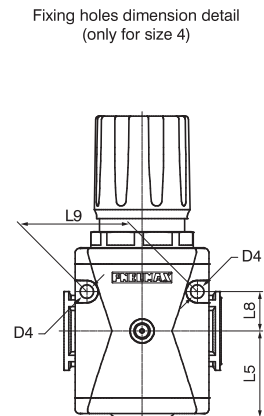
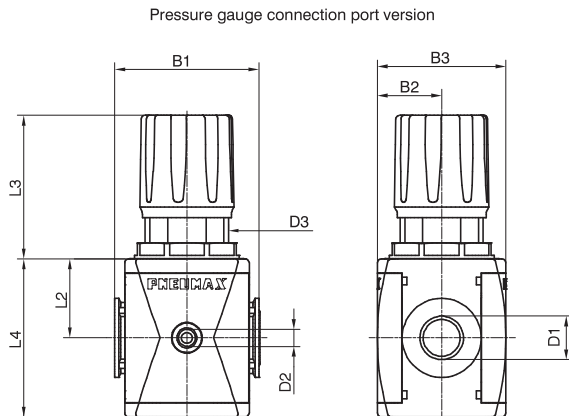
Size 3 - G1/2", 0-8 bar, P1=7 bar



Size 4 - G1", 0-8 bar, P1=10 bar



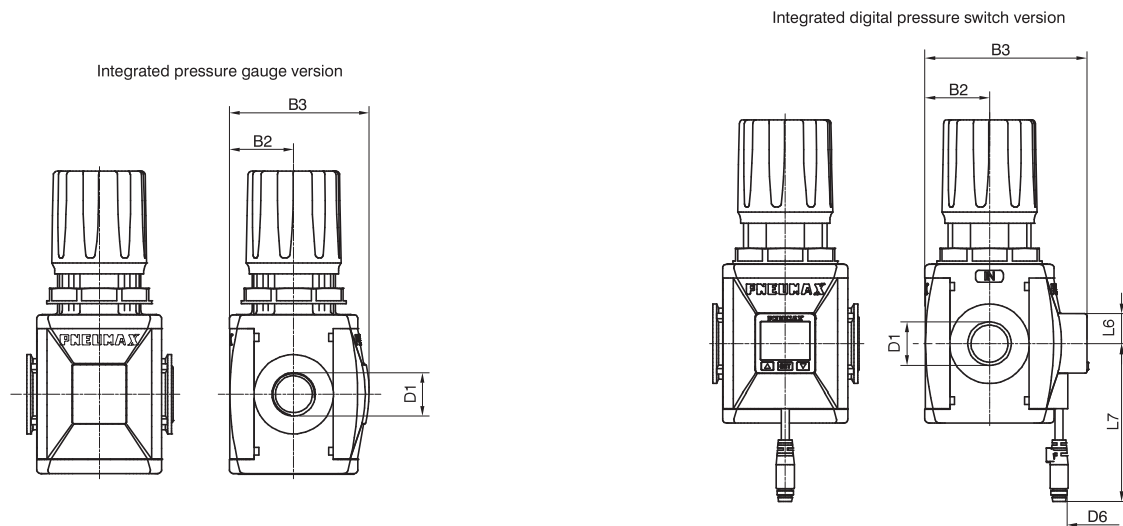
Dimensions



Model	B1	B2	B3	D1	D2	D3	D4	L2	L3	L4	L5	L8	L9
#171..	48	21	42	G1/8" G1/4" 1/4 NPT	G1/8" 1/8 NPT *	M30x1,5	/	27,5	54	55	/	/	/
#172..	62	28.5	57	G1/4" G3/8" 1/4 NPT 3/8 NPT	G1/8" 1/8 NPT *	M42x1,5	/	34	71.8	68	/	/	/
#173..	73	32.5	65	G3/8" G1/2" 1/2 NPT	G1/8" 1/8 NPT *	M42x1,5	/	40	72.8	80	/	/	/
#174..	99	44	88	G1" 1 NPT	G1/8" 1/8 NPT *	M54x1,5	8.5	52.5	87.5	105	54.5	25	70

*(only for P - L versions and NPT connections)

Variable dimensions

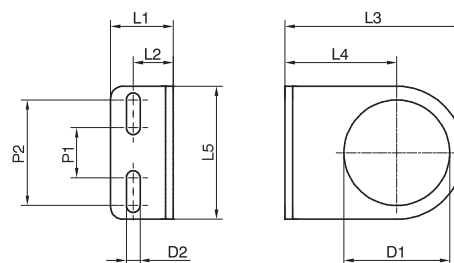


Model	B2	B3		D1	D6 - Type of digital pressure switch		L6	L7 - Type of digital pressure switch	
		With pressure gauge	With digital pressure switch		A - B	C - D		A - B	C - D
#171..	21	48,5	60	G1/8" G1/4" 1/4" NPT	M8 - 3 PIN	3 x 0,129 mm, Ø 4 mm	15	150	2000
#172..	28,5	62,5	73,5	G1/4" G3/8" 1/4" NPT 3/8" NPT					
#173..	32,5	70,5	81,5	G3/8" G1/2" 1/2" NPT					
#174..	44	90,5	101,5	G1" 1" NPT					

Fixing bracket

Coding: **T50**

SIZE
T171 = Size 1
T172 = Size 2 - Size 3

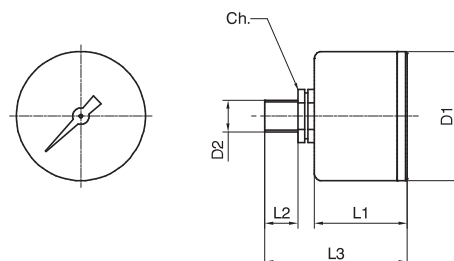


Model	D1	D2	L1	L2	L3	L4	L5	P1	P2
T17150	30	5.5	20	13	50	30	40	20	30
T17250	42	5.5	25	16	71	44.5	53	20	42

Pressure gauge

Coding: **17070VS**

VERSION
V A = Dial Ø40
B = Dial Ø50
SCALE
S A = 0 - 4 bar
B = 0 - 6 bar
C = 0 - 12 bar



Model	D1	D2	L1	L2	L3	Ch
17070A...	41	Gc - 1/8"	26	10	44	14
17070B...	49	Gc - 1/8"	27	10	45	14