

Model 42T

File Number: EX15620

COMPANY

Bermad UK LTD
Unit 8 Hungerford Trading Estate
Smitham Bridge Rd
Hungerford Berkshire, RG17 0QP United Kingdom

MODEL INFO

42T
Pilot-operated pressure control valve

VALVE INFORMATION

Body Type	Nominal Pipe Size (NPS)	End Configuration, Inlet by Outlet	Max Rated Pressure, psig (kPa)	Outlet Pressure-setting Range, psig (kPa)
Globe	1-1/2, 2, 2-1/2	Threaded, Class 150 - Flanged	400 (2757)	60 - 220
Globe	3, 4, 6, 8, 10	Class 150 - Flanged	250 (1724)	60 - 175
Globe	12, 14, 16	Class 150 - Flanged	250 (1724)	60 - 175
Globe	1-1/2, 2, 2-1/2, 3, 4, 6, 8, 10	Grooved	365 (2516)	60 - 175
Globe	1-1/2, 2	Threaded	400 (2757)	60 - 220
Globe	1-1/2, 2, 2-1/2, 3, 4, 6, 8, 10	Class 300 - Flanged	365 (2516)	60 - 175
Globe	12, 14, 16	Class 300 - Flanged	300 (2068)	60 - 175

NOTES

Additional Model Notes

Can be provided with the following optional accessories: Non Return/ Check Valve Feature Code 20, Closing Speed Control Code 01

GENERAL

Installation Limitations

End configurations are intended to be installed on systems not exceeding end configurations' working capabilities.

The manufacturer's design and installation instructions include a description of performance characteristics for both flowing and static conditions.

GENERAL

Installation Limitations

Pressure ratings of components installed downstream shall not be exceeded.

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Model 42T

Product Description

Model 42T, diaphragm type pressure reducing valve that operates on a 5.8psi (0.4 bar) or greater differential between inlet and outlet pressures. Model 42T working conditions are as follows:

Product Specification

Model No	Valve Size		End Connection	Description	Rated Working Pressure		Flow Range		Outlet Pressure Range		Friction Loss, psi (kPa)	Remarks
	in	(mm)			psi	(kPa)	gpm	(m³/hr)	psi	(kPa)		
42T	1 1/2	(40)	Class #150 flanged PN16 flanged Grooved Threaded	Straight	250	(1720)	20-106	(4-24)	30-235	(205-1620)	1.8 at 100 gpm (at 380 L/min)	a, b, c, d
42T	1 1/2	(40)	Class #300 flanged PN25 flanged Grooved Threaded	Straight	365	(2515)	20-106	(4-24)	30-235	(205-1620)	1.8 at 100 gpm (at 380 L/min)	a, b, c, d
42T	2	(50)	Class #150 flanged PN16 flanged Grooved	Straight	250	(1720)	20-172	(4-39)	30-235	(205-1620)	5.2 at 200 gpm (at 760 L/min)	a, b, c, d
42T	2	(50)	Class #300 flanged PN25 flanged Grooved	Straight	365	(2515)	20-172	(4-39)	30-235	(205-1620)	5.2 at 200 gpm (at 760 L/min)	a, b, c, d
42T	2 1/2	(65)	Class #150 flanged PN16 flanged Grooved	Straight	250	(1720)	20-247	(4-56)	30-235	(205-1620)	5.0 at 250 gpm (at 950 L/min)	a, b, c, d

Model No	Valve Size		End Connection	Description	Rated Working Pressure		Flow Range		Outlet Pressure Range		Friction Loss, psi (kPa)	Remarks
	in	(mm)			psi	(kPa)	gpm	(m ³ /hr)	psi	(kPa)		
42T	2 1/2	(65)	Class #300 flanged PN25 flanged Grooved	Straight	365	(2515)	20-247	(4-56)	30-235	(205-1620)	5.0 at 250 gpm (at 950 L/min)	a, b, c, d
42T	3	(80)	Class #150 flanged PN16 flanged Grooved	Straight	250	(1720)	20-360	(4-82)	30-235	(205-1620)	3.5 at 400 gpm (at 1515 L/min)	a, b, c, d
42T	3	(80)	Class #300 flanged PN25 flanged Grooved	Straight	365	(2515)	20-360	(4-82)	30-235	(205-1620)	3.5 at 400 gpm (at 1515 L/min)	a, b, c, d
42T	4	(100)	Class #150 flanged PN16 flanged Grooved	Straight	250	(1720)	20-640	(4-145)	30-235	(205-1620)	4.0 at 750 gpm (at 2840 L/min)	a, b, c, d
42T	4	(100)	Class #300 flanged PN25 flanged Grooved	Straight	365	(2515)	20-640	(4-145)	30-235	(205-1620)	4.0 at 750 gpm (at 2840 L/min)	a, b, c, d
42T	6	(150)	Class #150 flanged PN16 flanged Grooved	Straight	250	(1720)	20-1450	(4-330)	30-235	(205-1620)	3.1 at 1500 gpm (at 5680 L/min)	a, b, c, d
42T	6	(150)	Class #300 flanged PN25 flanged Grooved	Straight	365	(2515)	20-1450	(4-330)	30-235	(205-1620)	3.1 at 1500 gpm (at 5680 L/min)	a, b, c, d
42T	8	(200)	Class #150 flanged PN16 flanged Grooved	Straight	250	(1720)	20-2570	(4-580)	30-235	(205-1620)	3.6 at 3000 gpm (at 11355 L/min)	a, b, c, d

Model No	Valve Size		End Connection	Description	Rated Working Pressure		Flow Range		Outlet Pressure Range		Friction Loss, psi (kPa)	Remarks
	in	(mm)			psi	(kPa)	gpm	(m ³ /hr)	psi	(kPa)		
42T	8	(200)	Class #300 flanged PN25 flanged Grooved	Straight	365	(2515)	20-2570	(4-580)	30-235	(205-1620)	3.6 at 3000 gpm (at 11355 L/min)	a, b, c, d
42T	10	(250)	Class #150 flanged PN16 flanged Grooved	Straight	250	(1720)	45-4000	(10-910)	30-235	(205-1620)	9.5 at 4900 gpm (at 18550 L/min)	a, b, c, d
42T	10	(250)	Class #300 flanged PN25 flanged Grooved	Straight	365	(2515)	45-4000	(10-910)	30-235	(205-1620)	9.5 at 4900 gpm (at 18550 L/min)	a, b, c, d
42T	12	(300)	Class #150/#300 flanged PN16/PN25 flanged	Straight	300	(2065)	100-5821	(25-1320)	30-235	(205-1620)	8.1 at 5930 gpm (at 22450 L/min)	a, b, c, d
42T	14	(350)	Class #150/#300 flanged PN16/PN25 flanged	Straight	300	(2065)	100-7198	(25-1635)	30-235	(205-1620)	10.0 at 7100 gpm (at 26880 L/min)	a, b, c, d
42T	16	(400)	Class #150/#300 flanged PN16/PN25 flanged	Straight	300	(2065)	100-9555	(25-2170)	30-235	(205-1620)	14.5 at 9300 gpm (at 35205 L/min)	a, b, c, d

Remarks:

a. Must be installed with an FM Approved pressure relief valve size ½ inch or larger

b. Approved when supplied with a main control valve body in one the following materials: ASTM A536 ductile iron, ASTM A351 stainless steel, ASTM A216 steel, ASTM B148 nickel aluminum bronze, ASTM A351 duplex and ASTM B336 hastelloy

c. Approved when supplied with a pilot valve body in one the following materials: ASTM B584 brass, ASTM A351 stainless steel, ASTM B148 nickel aluminum bronze, ASTM B336 hastelloy and ASTM B367 titanium

d. Approved with supplied with alternate "non-return" trim (product code 20)

Details

Category	Valves, Water Pressure Reducing
Class of Work	1362 - Water Pressure Reduc Valves
Approval Standard	FM 1362 - Pressure Reducing Valves
Certification Type	FM Approved
Listing Country	United Kingdom

Company

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