

# DPR 3000

## DIRECT PRESSURE REGULATING VALVE

Netafim Direct Pressure Regulating Valve is designed to protect thin-wall irrigation systems from unstable pressure, water hammers and fluctuations. It is suitable for open field and intensive greenhouse applications.



Quick reaction



Great modularity



Remote operation

## / Benefits & Features

- **Quick reaction**
  - Fast-acting pressure regulation minimizes downstream pressure fluctuations, protecting the system from water hammers and supporting intensive irrigation
- **Pressure Uniformity**
  - It ensures continuous non-peak, consistent pressure and maximum system uptime
- **Modular design**
  - Supports multiple spring options for precise pressure set points and a wide range of connection types including grooved and solvent-welded, in ISO and ATM standards.
  - The DPR 3000 is also available at various downstream pressures
- **Remote operation**
  - By hydraulic-relays operators or solenoids such as Aquative™

## / Specifications & Recommendations

**Diameters** – 4" (Coming soon: 2", 3", 6")

**Connections Types** – Grooved (VIC) 4"; Female Solvent Welded (SW) ASTM 3"/ ISO 90 mm

**Maximum Fluid Temperature** – 60°C (140°F)

**PN Rating** – 6.0 bar / 87 psi

**Body** – Reinforced polyamide

**Springs** – Stainless steel

**Flow Rates\*** – Min. 20 m<sup>3</sup>/h (88.0 gpm); Max. 80 m<sup>3</sup>/h (352 gpm)

**Max. Inlet Pressure** – 6.0 bar (87 psi)

**Spring Types** – 0.70, 1.20, 1.70, 2.0 bar (10.0, 17.50, 25.0, 29.0 psi)

\* Higher flow rates will incur higher pressure losses, and probably less stability especially at low upstream pressures

**Note:** The DPR 3000 should not be opened/disassembled in the field/grower warehouse. Only a specialized technician with the correct tools should be allowed to inspect the interior parts of the product.



Precision  
Agriculture

Want to know more?  
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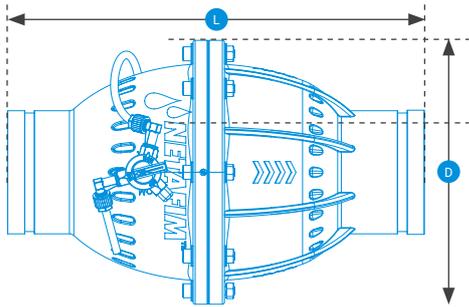


→ Opening and Closing Pressures Required for Each Spring

Spring	Opening Pressure	Closing Pressure
A - 0.70 bar / 10.0 psi	1.2 bar / 17.50 psi	1.1 bar / 16.0 psi
B - 1.2 bar / 17.50 psi	1.2 bar / 17.50 psi	1.1 bar / 16.0 psi
C - 1.7 bar / 24.50 psi	1.8 bar / 26.0 psi	1.1 bar / 16.0 psi
D - 2 bar / 29.0 psi	1.8 bar / 26.0 psi	1.1 bar / 16.0 psi

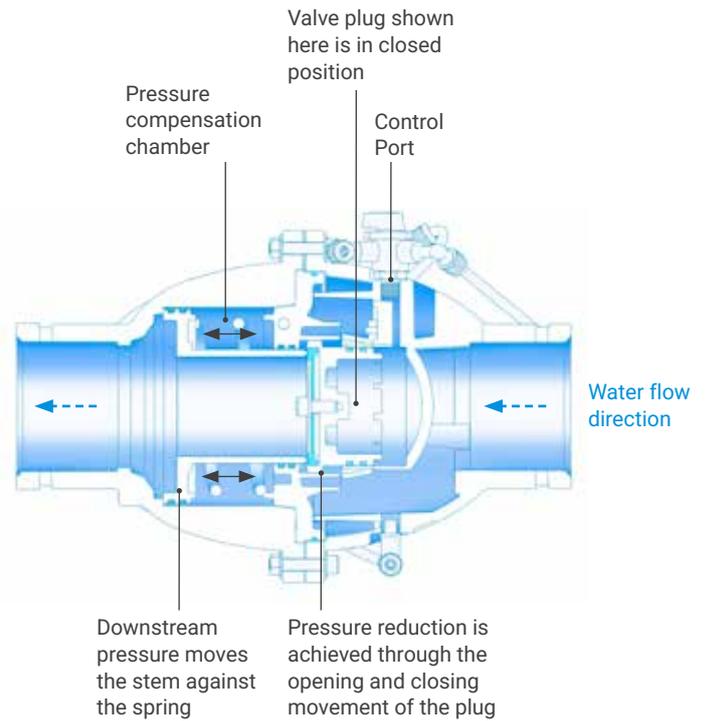
→ Technical Dimensions

DPR 3000 4" (Kv=120, Cv=140)

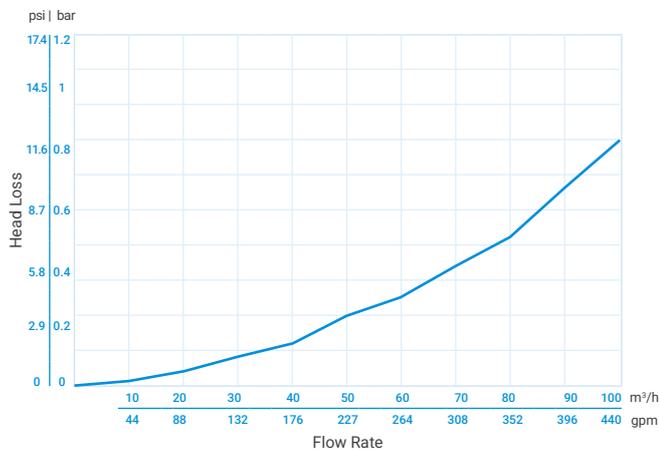


Model	Diameter (mm / inch)	Length (mm / inch)	Weight (kg / lb.)
DPR 3000 4"	245 / 9.64	380 / 14.95	3.75 / 8.27

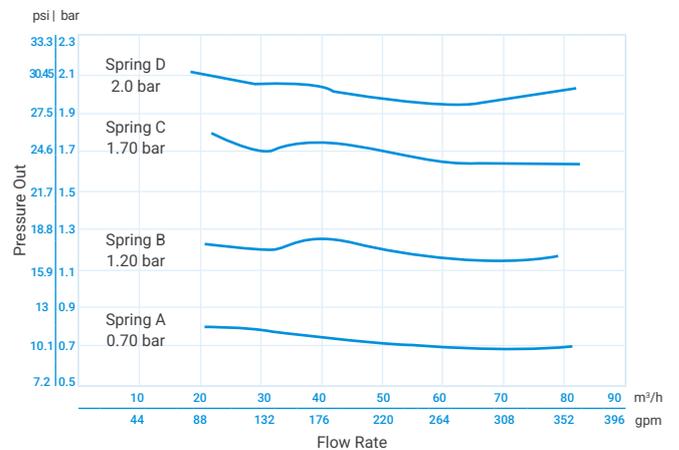
→ Cross Section



→ Head Loss vs. Flow Rate



→ Outlet Pressure vs. Flow Rate



All test were performed at inlet pressure of 3 bar / 43.50 psi

→ Flow Rate & Pressure Regulation Spring Selection

Product	Min. Flow Rate		Max. Flow Rate		Max. Regulation Pressure		Body Material
	m <sup>3</sup> /h	gpm	m <sup>3</sup> /h	gpm	bar	psi	
4" DPR 3000 Spring A (0.70 bar / 10.0 psi)	20.0	88.0	80.0	352.5	4.50	65.0	Reinforced Polyamide
4" DPR 3000 Spring B (1.20 bar / 17.50 psi)	20.0	88.0	80.0	352.5	6.00	87.0	Reinforced Polyamide
4" DPR 3000 Spring C (1.70 bar/ 25.0 psi)	20.0	88.0	80.0	352.5	6.00	87.0	Reinforced Polyamide
4" DPR 3000 Spring D (2.0 bar/ 29.0 psi)	20.0	88.0	80.0	352.5	6.00	87.0	Reinforced Polyamide

→ Catalog Numbers

Description	Flow Range		Nominal Output Pressure		Max. Regulation Pressure		Catalog Number
	m <sup>3</sup> /h (min - max)	gpm (min - max)	bar	psi	bar	psi	
<b>Spring A (0.7 bar / 10.0 psi)</b>							
DPR PL 4" H VIC/3" ASTM MAN A S P	20.0 - 80.0	88 - 352	0.70	10.0	4.50	65.0	30510-000002
DPR PL 4" H VIC/ 3" ASTM ELE AQAC A S P	20.0 - 80.0	88 - 352	0.70	10.0	4.50	65.0	30510-000003
DPRV PL 4" H VIC/ 3" ASTM ELE AQAC A P	20.0 - 80.0	88 - 352	0.70	10.0	4.50	65.0	30510-000004
DPRV PL 4" H VIC/ 3" ISO MAN A S P	20.0 - 80.0	88 - 352	0.70	10.0	4.50	65.0	30510-000005
DPRV PL 4" H VIC/ 3" ISO ELE AQAC A S P	20.0 - 80.0	88 - 352	0.70	10.0	4.50	65.0	30510-000006
DPRV PL 4" H VIC/ 3" ISO ELE AQAC A P	20.0 - 80.0	88 - 352	0.70	10.0	4.50	65.0	30510-000007
<b>Spring B (1.20 bar / 17.5 psi)</b>							
DPR PL 4" H VIC/3" ASTM MAN B S P	20.0 - 80.0	88 - 352	1.20	17.50	6.0	87.0	30510-000010
DPR PL 4" H VIC/ 3" ASTM ELE AQAC B S P	20.0 - 80.0	88 - 352	1.20	17.50	6.0	87.0	30510-000011
DPRV PL 4" H VIC/ 3" ASTM ELE AQAC B P	20.0 - 80.0	88 - 352	1.20	17.50	6.0	87.0	30510-000012
DPRV PL 4" H VIC/ 3" ISO MAN B S P	20.0 - 80.0	88 - 352	1.20	17.50	6.0	87.0	30510-000013
DPRV PL 4" H VIC/ 3" ISO ELE AQAC B S P	20.0 - 80.0	88 - 352	1.20	17.50	6.0	87.0	30510-000014
DPRV PL 4" H VIC/ 3" ISO ELE AQAC B P	20.0 - 80.0	88 - 352	1.20	17.50	6.0	87.0	30510-000015
<b>Spring C (1.70 bar/ 25 psi)</b>							
DPR PL 4" H VIC/3" ASTM MAN C S P	20.0 - 80.0	88 - 352	1.70	25.0	6.0	87.0	30510-000030
DPR PL 4" H VIC/ 3" ASTM ELE AQAC C S P	20.0 - 80.0	88 - 352	1.70	25.0	6.0	87.0	30510-000031
DPRV PL 4" H VIC/ 3" ASTM ELE AQAC C P	20.0 - 80.0	88 - 352	1.70	25.0	6.0	87.0	30510-000032
DPRV PL 4" H VIC/ 3" ISO MAN C S P	20.0 - 80.0	88 - 352	1.70	25.0	6.0	87.0	30510-000033
DPRV PL 4" H VIC/ 3" ISO ELE AQAC C S P	20.0 - 80.0	88 - 352	1.70	25.0	6.0	87.0	30510-000034
DPRV PL 4" H VIC/ 3" ISO ELE AQAC C P	20.0 - 80.0	88 - 352	1.70	25.0	6.0	87.0	30510-000035
<b>Spring D (2.0 bar/ 29.0 psi)</b>							
DPR PL 4" H VIC/3" ASTM MAN D S P	20.0 - 80.0	88 - 352	2.0	29.0	6.0	87.0	30510-000040
DPR PL 4" H VIC/ 3" ASTM ELE AQAC D S P	20.0 - 80.0	88 - 352	2.0	29.0	6.0	87.0	30510-000041
DPRV PL 4" H VIC/ 3" ASTM ELE AQAC D P	20.0 - 80.0	88 - 352	2.0	29.0	6.0	87.0	30510-000042
DPRV PL 4" H VIC/ 3" ISO MAN D S P	20.0 - 80.0	88 - 352	2.0	29.0	6.0	87.0	30510-000043
DPRV PL 4" H VIC/ 3" ISO ELE AQAC D S P	20.0 - 80.0	88 - 352	2.0	29.0	6.0	87.0	30510-000044
DPRV PL 4" H VIC/ 3" ISO ELE AQAC D P	20.0 - 80.0	88 - 352	2.0	29.0	6.0	87.0	30510-000045

ELE = Electric control on/off  
 MAN = Manual control on/off  
 AQAC = Solenoid Aqautive 24 AC  
 A, B, C, D = Type of spring  
 S = 3 way manual valve  
 H = Horizontal  
 VIC = Victaulic connection  
 ASTM = Adhesion standard  
 ISO = Adhesion standard  
 P = Pressure gauge



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