

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.



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 - All units are supplied with a pressure gauge for field installation on device.
Modular design	- Supports multiple spring options for precise pressure set points and a wide range of connection types including grooved and solvent-welded (ASTM standards), 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™

Applications



Orchards



Protected Crops



Open Field

- Designed for agricultural irrigation systems
- Quick response for intensive irrigation requirements
- Operate under standard water conditions with appropriate upstream filtration
- Installation must follow Netafim guidelines and comply with local engineering standards



Specifications & Recommendations

- Diameters – 4"
- Connections Types – Grooved (VIC) 4"; Female Solvent Welded (SW) ASTM 3"
- Maximum Fluid Temperature – 140°F (60°C)
- PN Rating – 87 psi / 6.0 bar
- Body – Reinforced polyamide
- Springs – Stainless steel
- Flow Rates* – 88.0 gpm (Min. 20 m³/h); Max. 352 gpm (80 m³/h)
- Max. Inlet Pressure – 87 psi (6.0 bar)
- Spring Types – 10.0, 17.50, 25.0, 29.0 psi (0.70, 1.20, 1.70, 2.0 bar)

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

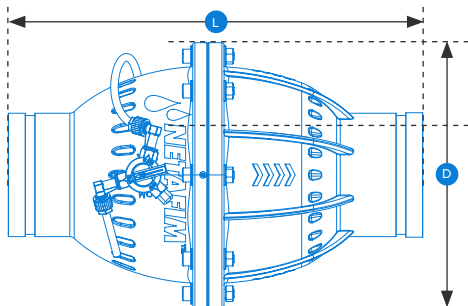
Note: The DPR 3000 should not be opened/disassembled in the field/grower warehouse. Only a specialized technician with the correct tools should be allowed to inspect the interior parts of the product.

Opening and Closing Pressures Required for Each Spring

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

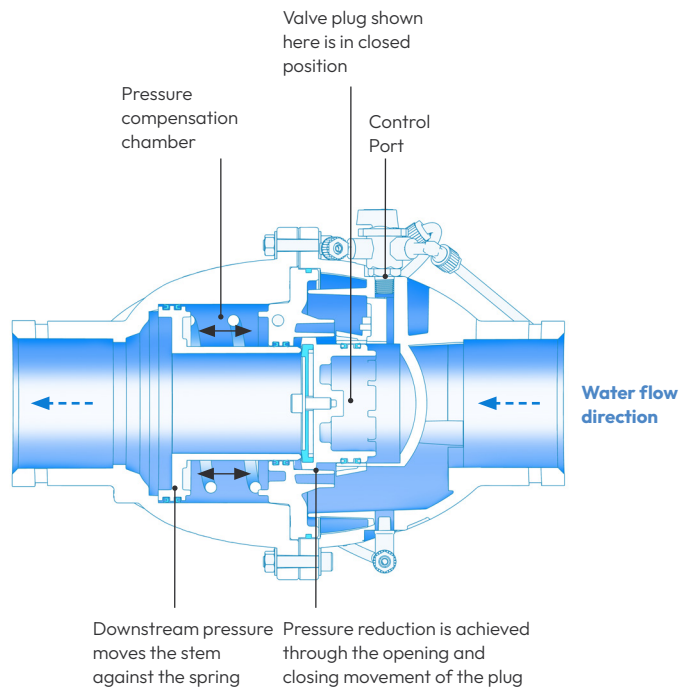
Technical Dimensions

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

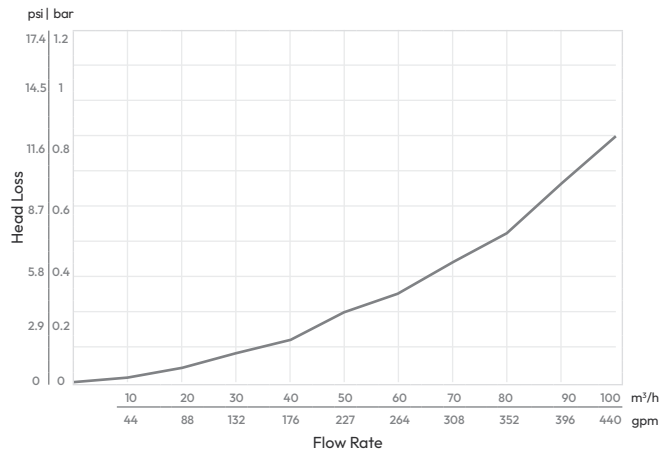


Model	Diameter (inch / mm)	Length (inch / mm)	Weight (lb / kg.)
DPR 3000 4"	9.64 / 245	14.95 / 380	8.27 / 3.75

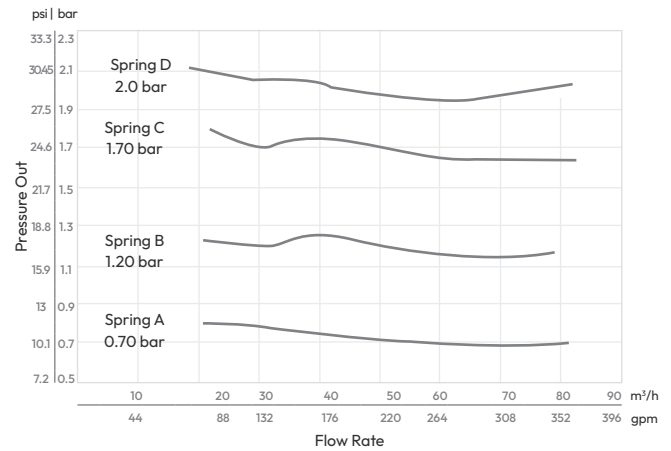
Cross Section



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 Pres- sure		Body Material
	gpm	m3/h	gpm	m3/h	psi	bar	
4" DPR 3000 Spring A (10.0 psi / 0.70 bar)	88.0	20.0	352.5	80.0	65.0	4.50	Reinforced Polyamide
4" DPR 3000 Spring B (17.50 psi / 1.20 bar)	88.0	20.0	352.5	80.0	87.0	6.00	Reinforced Polyamide
4" DPR 3000 Spring C (25.0 psi / 1.70 bar)	88.0	20.0	352.5	80.0	87.0	6.00	Reinforced Polyamide
4" DPR 3000 Spring D (29.0 psi / 2.0 bar)	88.0	20.0	352.5	80.0	87.0	6.00	Reinforced Polyamide

Catalog Numbers

Item Number	Description	Model Number	Flow Range gpm (min - max)	Nominal Output Pressure psi	Max Regulation Pressure psi
Spring A (0.7 bar / 10.0 psi)					
30510-000001	DPRV MAN 4" NYL GRV 10 PSI	32PRVM4NG-10	88 - 352	10.0	65.0
30510-000003	DPRV MAN ELEC 4" NYL GRV AQAC 10 PSI	32PRVMEAA4NG-10			
30510-000008	DPRV MAN ELEC 4" NYL GRV AQDC 10 PSI	32PRVMEAD4NG-10			
30510-000004	DPRV ELEC 4" NYL GRV AQAC 10 PSI	32PRVEAA4NG-10			
30510-000009	DPRV ELEC 4" NYL GRV AQDC 10 PSI	32PRVEAD4NG-10			
Spring B (1.20 bar / 17.5 psi)					
30510-000010	DPRV MAN 4" NYL GRV 17 PSI	32PRVM4NG-17	88 - 352	17.50	87.0
30510-000011	DPRV MAN ELEC 4" NYL GRV AQAC 17 PSI	32PRVMEAA4NG-17			
	DPRV MAN ELEC 4" NYL GRV AQDC 17 PSI	32PRVMEAD4NG-17			
30510-000012	DPRV ELEC 4" NYL GRV AQAC 17 PSI	32PRVEAA4NG-17			
	DPRV ELEC 4" NYL GRV AQDC 17 PSI	32PRVEAD4NG-17			
Spring C (1.70 bar/ 25 psi)					
30510-000030	DPRV MAN 4" NYL GRV 25 PSI	32PRVM4NG-25	88 - 352	25.0	87.0
30510-000031	DPRV MAN ELEC 4" NYL GRV AQAC 25 PSI	32PRVMEAA4NG-25			
	DPRV MAN ELEC 4" NYL GRV AQDC 25 PSI	32PRVMEAD4NG-25			
30510-000032	DPRV ELEC 4" NYL GRV AQAC 25 PSI	32PRVEAA4NG-25			
	DPRV ELEC 4" NYL GRV AQDC 25 PSI	32PRVEAD4NG-25			
Spring D (2.0 bar/ 29.0 psi)					
30510-000040	DPRV MAN 4" NYL GRV 29 PSI	32PRVM4NG-29	88 - 352	29.0	87.0
30510-000041	DPRV MAN ELEC 4" NYL GRV AQAC 29 PSI	32PRVMEAA4NG-29			
	DPRV MAN ELEC 4" NYL GRV AQDC 29 PSI	32PRVMEAD4NG-29			
30510-000042	DPRV ELEC 4" NYL GRV AQAC 29 PSI	32PRVEAA4NG-29			
	DPRV ELEC 4" NYL GRV AQDC 29 PSI	32PRVEAD4NG-29			

Model Number Index

Indicator	Pressure Regulator	32PRV
Function:	Manual	M
	Electric	E
	Manual Electric	ME
Solenoids:	Aquative 24VAC	AA
	Aquative 12VDCL	AD
Size:	4" Outside / 3" Inside	4
Material:	Nylon	N
Connection:	Grooved / Slip	G
Spring:	Pressure	10, 17, 25, 29

