NETAFIM®
GROW MORE WITH LESS

new

80W

80 SERIES DOUBLE OUTLET VALVE

Dorot presents the 80W valve, designed especially for agricultural-irrigation applications, featuring high quality, affordability, ease of installation and a durable construction

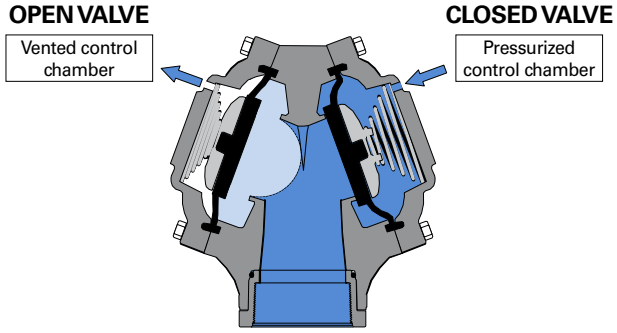
Equipped with 1/2" auxiliary port

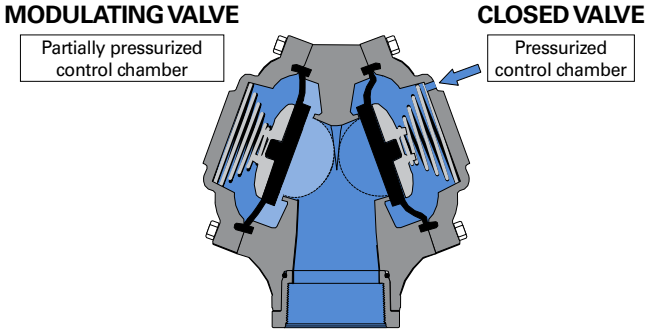
unique replaceable inlet connector

FEATURES

- For irrigation schemes where one inlet and two independent outlets are required
- Features a unique replaceable inlet connector - if worn-out, swap it with a new inlet instead of having to invest in a new complete valve
- A unique diaphragm design allows steady regulation even at low flow rates
- Designed for high flow rates while maintaining extremely low pressure losses
- Wide operation pressure range, from as low as 0.5 bar up to 10 bar
- Uses light-weight, high quality, corrosion resistant materials
- Simple and reliable
- Allows for a wide range of control applications

PRINCIPLE OF OPERATION:





OPENED VALVE

When the control-chamber is de-pressurized, the inline pressure is forcing the diaphragm to an open position

CLOSED VALVE

When the upstream pressure is applied into a control-chamber, it forces the diaphragm down to the closed position

MODULATING VALVE

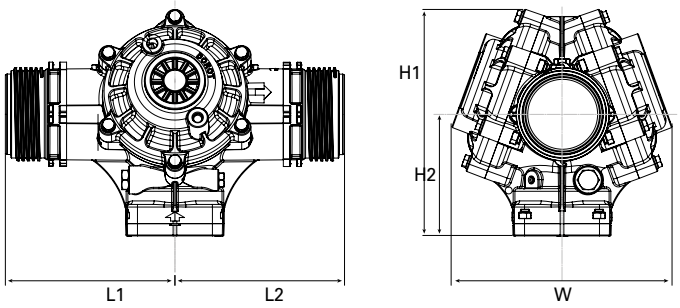
The diaphragm position is set by the volume of water in a control chamber, which is controlled by a pilot system (not shown)

80W - 80 SERIES DOUBLE OUTLET VALVE

DIMENSIONS & WEIGHT

DIMENSIONS	METRIC	US
H1 -Height	259	$10^{3}/_{16}$
H2	139	$5^{1}/_{2}$
L1	194	$76^{5}/_{16}$
L2	202	$79^{1}/_{2}$
W	250	$9^{7}/_{8}$
Weight (kg/lb) *	4.4	9.7

* Without flanges



HYDRAULIC PERFORMANCE

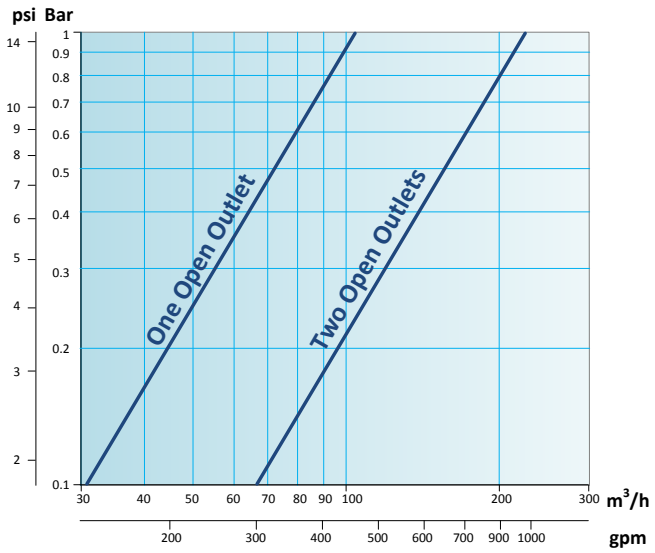
Operating pressure range	bar	0.5 - 10
	psi	7 - 145
Max recommended flow (single outlet)	m^3/h	100
	gpm	440
Minimal flow	m^3/h	<1
	gpm	<5
Kv / Cv two open outlets	m^3/h @ 1 bar	210
	gpm @ 1 psi	242
Kv / Cv one open outlets	m^3/h @ 1 bar	105
	gpm @ 1 psi	121

END CONNECTIONS

Inlet: 3" / 80mm BSP/NPT Female-threadedMetric	
Outlets:	BSP/NPT Female-threaded
	3" and 4" Universal flanged
	3" Grooved (Optional)

HEAD LOSS

FLOW RATE		HEAD LOSS			
		TWO OUTLETS		SINGLE OUTLET	
m^3/h	Gpm	Bar	Psi	Bar	Psi
25	110	0.01	0.2	0.06	1
50	220	0.06	1	0.23	3.5
75	330	0.13	2	0.51	7.5
100	440	0.23	3.5	0.91	13.5



For calculating the loss through the fully open valve, use the following equation:

$$\Delta P_{(Bar)} = \left(\frac{Q[\frac{m^3}{hr}]}{Kv}\right)^2 \quad \Delta P_{(Psi)} = \left(\frac{Q[gpm]}{Cv}\right)^2$$

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