

## Dorot-75 valves

*Manufacturer: Dorot*

The Dorot-75 series consists of plastic membrane valves for agricultural use. They are resistant to fertilisers and have a large free passage (and therefore a high flow rate and/or low resistance). The membrane minimises the risk of water shock and allows for accurate regulation, even at low flow rates.

The Dorot-75 2-way valve is the economical version which is often used for sprinkling and drip irrigation. The unique built-in non-return valve keeps the valve closed even if there is no pressure in the line and thus prevents annoying trickling during start-up. The 'stand-alone' is a special version featuring an automatic device which is fitted directly on the valve and which allows for individual control of the valve, independent of a central control system. A 2-way pulse solenoid is used for battery control by the automatic device.

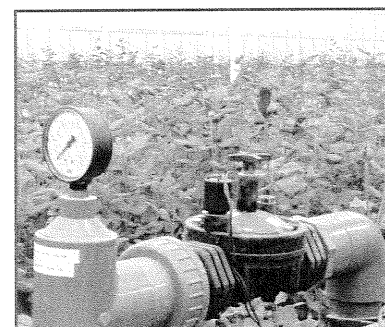
The 3-way version is used if large flow rates are required or if dirty water is used. The Dorot-75 3-way valve also features an industrial solenoid which ensures improved reliability and allows for external pilot pressure (air for example).

Basic valves can be used for the construction of pilots, floats etc. and for (hydraulic) remote control.

The Dorot 2-way and 3-way valves are fitted with a throttle, an electric solenoid and a manual control device. The Dorot-75 series is BSPT female threaded.

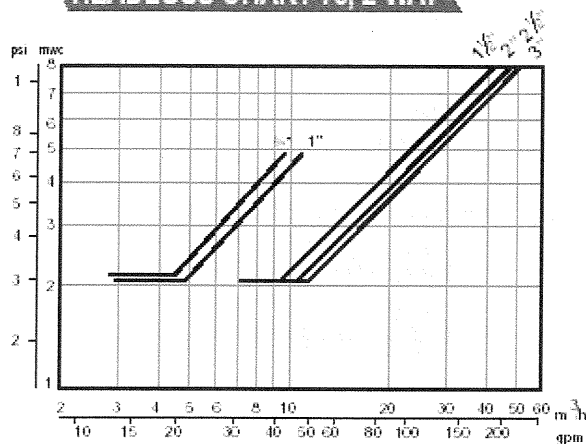
### Technical specifications

<b>diameter 2-way:</b>	¾"– 3"
<b>3-way:</b>	1½"– 3"
<b>basic:</b>	1½"– 3"
<b>2-way puls:</b>	¾"– 3" (for 9V battery)
<b>optional:</b>	without throttle
	2-way with G80 (industrial solenoid)
	air-controlled (3-way and basic)
	24V DC/AC (50/60Hz); 230V
	as stand-alone with automatic device
	¾"-1" basic
<b>max. pressure:</b>	10 bar (at 20°C)
<b>max. temperature:</b>	60°C (at decreasing max. pressure)
<b>housing material:</b>	reinforced polyamide
<b>membrane:</b>	natural rubber
<b>spring:</b>	INOX 302
<b>bolts:</b>	INOX 304

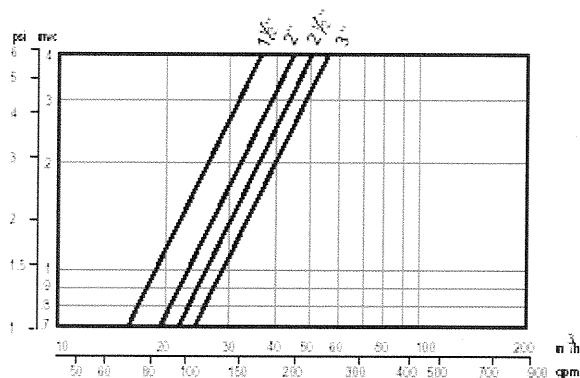


- The Dorot-75 valves can be installed in any required position though 'upright' or 'vertical with solenoid up' installation is preferable in order to allow air to escape and to prevent accumulation of dirt behind the solenoid core.
- The air pressure for air-controlled operation must not exceed the pipe pressure by more than ½ to 1 bar when the valves are closed. The air used must be free from lubricants.
- If there is a chance of frost, the water must be drained from the valves (and solenoids).

HEADLOSS CHART 75, 2-WAY

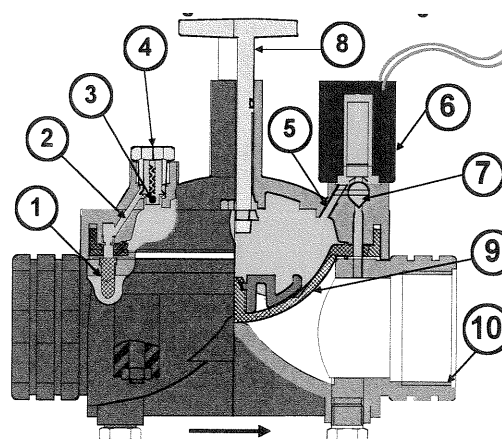


HEADLOSS CHART 75, 3-WAY



## Parts drawing of Dorot-75 2-way valves

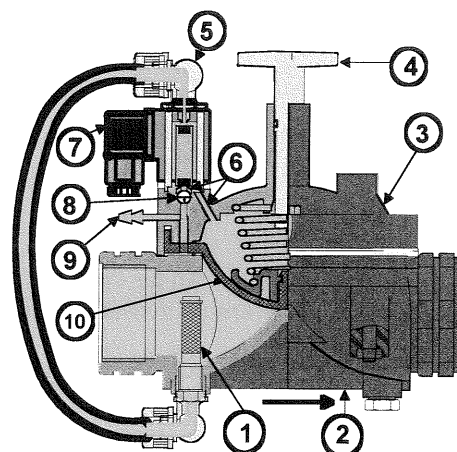
No.	Part description	Ref. No.
1	INOX inlet filter	600522
2	Cover ST 2-way	600559
3	2-way check valve	600532
4	2-way nozzle	600533
6	2-way Agr-24VAC solenoid	600780
	2-way Agr-24VDC solenoid	600785
	2-way Ind-24VAC solenoid	600853
	2-way Ind-24VDC solenoid	600854
7	Manual control	600555
8	Throttle compl.	600544
9	2-way membrane	600800
	2-way low-pressure membrane	600809
10	Housing, 1 1/2"	600578
	Housing, 2"	600568
	Bolt, long	600562
	Bolt, short	600563
	nut	600564
	Plug	601195



Dorot-75 2-way valves

## Parts drawing of Dorot-75 3-way valves

No.	Part description	Ref. No.
1	Inlet filter	600523
	Housing, 2"	600579
3	Cover ST 3-way	600567
4	Throttle	600544
5	Connector angle 1/2 x 6mm	600475
	Check valve, pneu 3-way	600553
7	3-way 24VAC-5.5W solenoid	600793
	3-way 24VDC-5.5W solenoid	600791
	3-way 24VAC solenoid compl.	600787
	3-way 24VDC solenoid compl.	600798
8	Manual control, INOX	600575
10	3-way Membrane	600802
	Bolt, long	600562
	Bolt, short	600563
	nut	600564
	Plug	601195



Dorot-75 3-way valves