Directional seated valves type WN and WH

These directional seated valves type WN and WH use spring loaded balls as valve elements and therefore do not show any leakage. They are manifold mounting and are available in four sizes. These valves are very compact as the functional valve parts are partly integrated in the solenoid body. The basic versions are designed as 2/2- and 3/2-way directional valves. Whereas 3/3- , 4/3-way functions require two valves to be installed on one valve sub-plate.

These valves may be directly installed in pipe systems, when equipped with sub-plates enabling pipe connection. Many optional functions incorporated in these sub-plates e.g. pressure limiting valve or restrictor check valve widen the field of application for this valve type.

The type WN (size 1 only) is more simply designed as type WH making its pricing more competitive but the max. permissible pressure is reduced as there are no moving seals and the armature cavity is not separately de-pressurized. Valve banks of these valve type are also available featuring several valves connected in parallel (see type BWN and BWH).

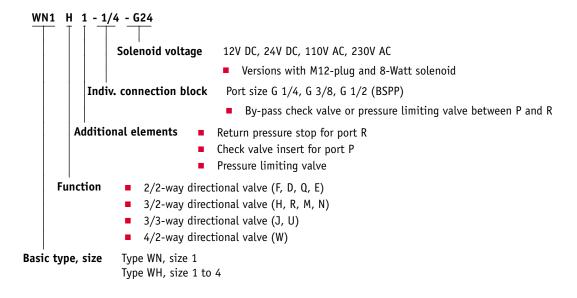
Features and benefits:

- Excellent price/performance ratio
- Compact design
- Zero leakage directional seated valves
- Solenoid version in 8-Watt techniques

Intended applications:

- Machines for forestry and agricultural purposes
- Machines for construction and construction material
- Clamping, punching and jigs
- Process technology

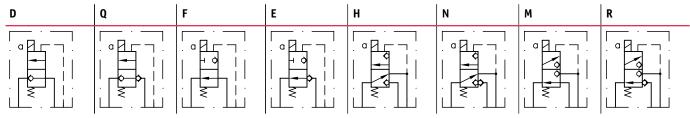
Design and order coding example







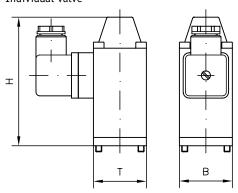
Function



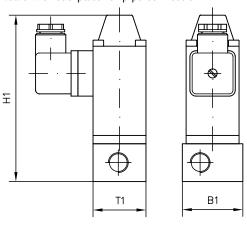
- Symbols show type WH
- Type WN 1 without de-pressuring duct for the solenoid (add. leakage duct is not necessary)

General parameters and dimensions

Individual valve



Valve with sub-plate for pipe connection



	Q _{max} [lpm]	p _{max} [bar]	Ports (BSPP)	Dimensions (individual valve) [mm]			m _{max} [kg]	Dimensions (with sub-plate) [mm]			m [kg]
				Н	В	T		H1	B1	T1	
WN 1	5	320 350	G 1/4	86.5	35	35	0.6	111.5	40	35	0.9
WH 1	8	450	G 1/4	86.5	35	35	0.6	111.5	40	35	0.9
WH 2	15	350	G 1/4	97.0	35	35	0.65 0.7	125	40	40	1.0
WH 3	30	350	G 3/8	95.5	45	45	1.2 1.3	128	50	50	1.8
WH 4	60	350	G 1/2	118.0	60	60	2.7 3.0	158 173	70	70	3.6 4.0

Associated technical data sheets:

■ Directional seated valves type WN1, WH: **D 7470 A/1**

Valve banks:

■ Type BWN1, BWH: page

Plugs:

With LED etc.: D 7163

■ With economy circuit: **D** 7813, **D** 7833