

3/2 Directional control valves

Nominal size 7 and 12
 Solenoid pilot actuated
 Spool with pressure energized soft seals
 Port size G 1/4 and G 1/2
 Operating pressure: 10 bar max.



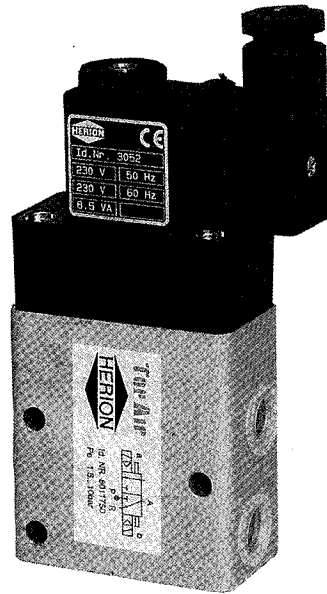
Description (standard unit)

solenoid valve for filtered, lubricated ¹⁾
 or non-lubricated air

Flow direction: Determined
 Temperature range: -10 to +60 °C

Features

- Straight thru flow paths assuring high flow rates and fast response time
- Simple, compact, easy to service design
- Interchangeable solenoid system
- Delrin spool equipped with Polyurethane T-ring giving rugged resistance to wear along with low friction, thus resulting in savings on maintenance
- Pressure molded epoxy encapsulated coil, easily interchangeable (within 40 seconds)
- Sintered bronze muffler on pilot exhaust protects against aerosol and eliminates objectionable air noise
- Manual override



Parameters

Symbols	Nominal size	Port size	Operating pressure [bar]		Flow rate QN l/min	Switching time approx [ms]	Weight [kg]	Dimensional drawing No.	Cat. No.	
			min	max					Valve	solenoid
	Power consumption 5 watt (6 VA)									
	7	G 1/4	1	10	1200	20	0.40	01	8010750 ²⁾	See solenoid table
	12	G 1/2	1	10	3000	25	0.70	01	8010850 ²⁾	See solenoid table
	Power consumption 5 watt (6 VA)									
	7	G 1/4	1	10	1200	20	0.40	01	8012750 ²⁾	See solenoid table
	12	G 1/2	1	10	3000	25	0.70	01	8012850 ²⁾	See solenoid table
	Power consumption 5 watt (6 VA)									
	7	G 1/4	1	10	1200	15	0.77	02	8011750 ³⁾	See solenoid table
	12	G 1/2	1	10	3000	20	0.90	02	8011950 ³⁾	See solenoid table
	Power consumption ≤ 2 watt									
	7	G 1/4	1	8	1200	20	0.40	01	8010751 ²⁾	See solenoid table
	12	G 1/2	1	8	3000	25	0.70	01	8010851 ²⁾	See solenoid table
	Power consumption ≤ 2 watt									
	7	G 1/4	1	8	1200	20	0.40	01	8012751 ²⁾	See solenoid table
	12	G 1/2	1	8	3000	25	0.70	01	8012851 ²⁾	See solenoid table
	Power consumption ≤ 2 watt									
	7	G 1/4	1	8	1200	15	0.77	02	8011751 ³⁾	See solenoid table
	12	G 1/2	1	8	3000	20	0.90	02	8011951 ³⁾	See solenoid table

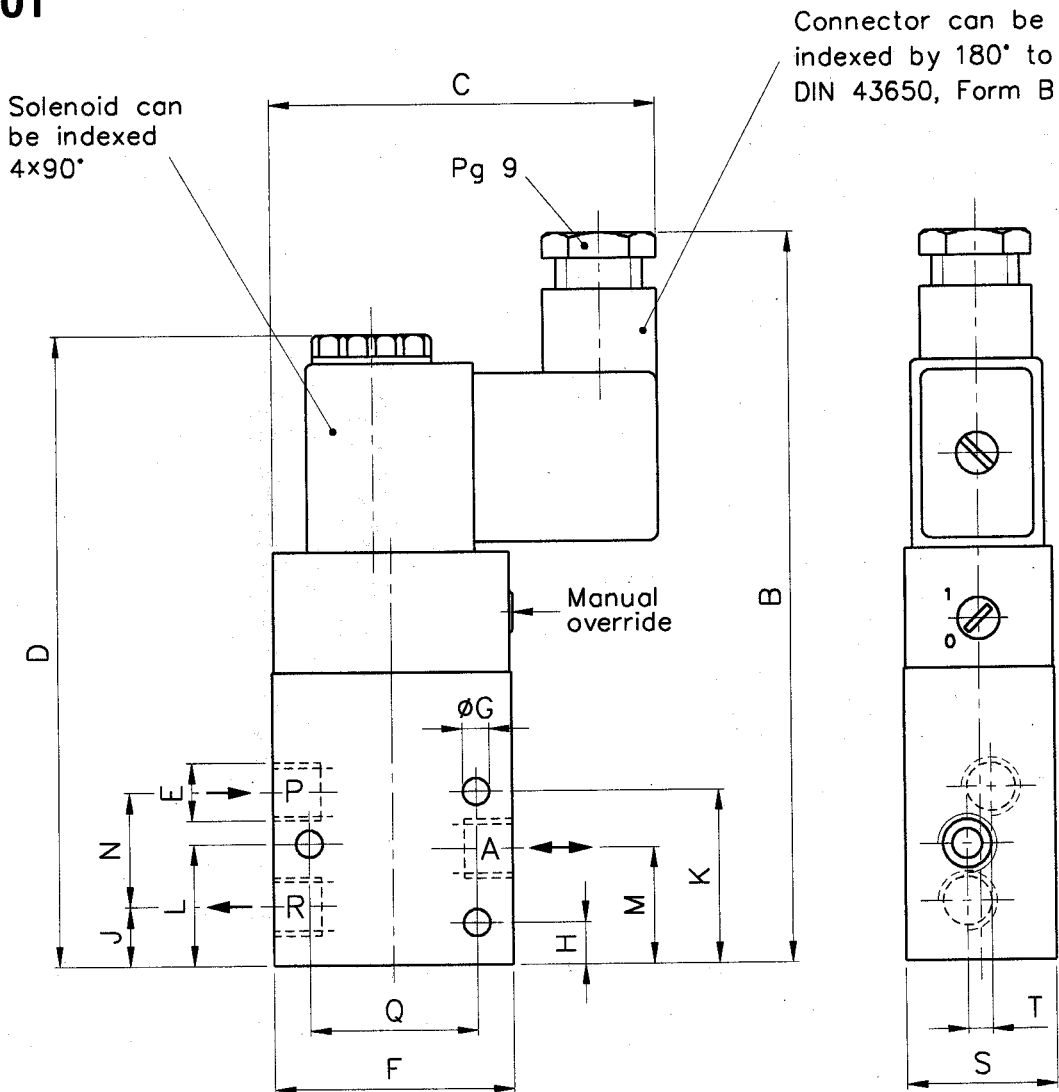
1) The valves are suitable for dry running. Shell Hydrol DO 32, shell Voltol 64, Esso Febis K 32 or oils of equal quality are recommended for the system lubrication

2) Port R not throttleable

3) Port R throttleable

Dimensional drawing

01

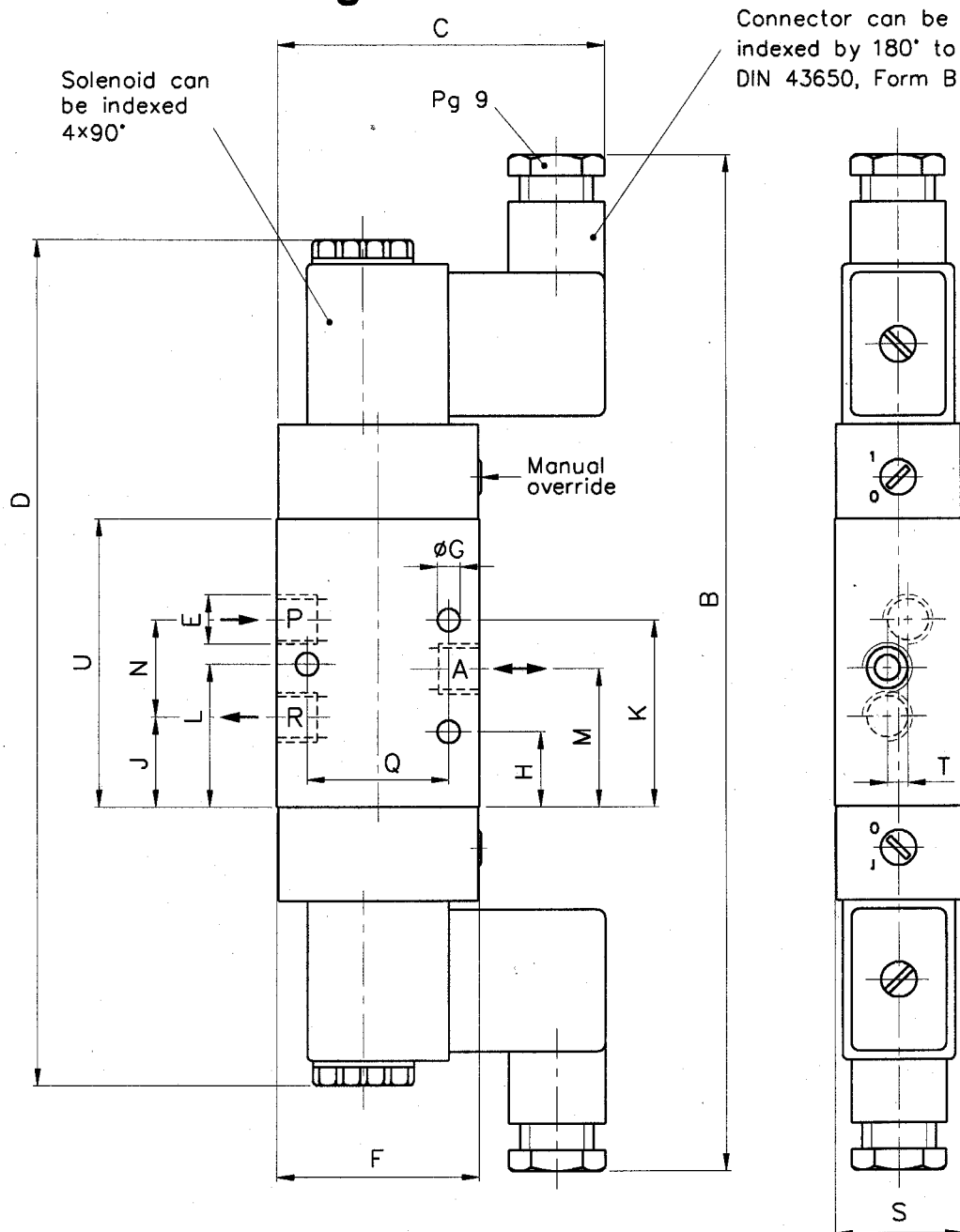


Dimension Table (mm)

Cat. No.	B	C	D	E	F	G	H	J	K	L	M	N	Q	S	T
8010750	133.5	~83	112.5	G1/4	55	5.5	7.5	11	34.5	24.5	23	24	41	30	5
8010751	133.5	~83	112.5	G1/4	55	5.5	7.5	11	34.5	24.5	23	24	41	30	5
8012750	133.5	~83	112.5	G1/4	55	5.5	7.5	11	34.5	24.5	23	24	41	30	5
8012751	133.5	~83	112.5	G1/4	55	5.5	7.5	11	34.5	24.5	23	24	41	30	5
8010850	161.5	~83	140.0	G1/2	65	7.0	31.5	29	—	77.5	50	33	46	35	—
8010851	161.5	~83	140.0	G1/2	65	7.0	31.5	29	—	77.5	50	33	46	35	—
8012850	161.5	~83	140.0	G1/2	65	7.0	31.5	29	—	77.5	50	33	46	35	—
8012851	161.5	~83	140.0	G1/2	65	7.0	31.5	29	—	77.5	50	33	46	35	—

Dimensional drawing

02



Dimension Table (mm)

Cat. No.	B	C	D	E	F	G	H	J	K	L	M	N	Q	S	T	U
8011750	223	~83	181	G1/4	55	5.5	21.5	25	48.5	38.5	37	24	41	30	5	74
8011751	223	~83	181	G1/4	55	5.5	21.5	25	48.5	38.5	37	24	41	30	5	74
8011950	232	~83	190	G1/2	65	7.0	27.5	25	—	73.5	44	33	46	35	—	83
8011951	232	~83	190	G1/2	65	7.0	27.5	25	—	73.5	44	33	46	35	—	83