

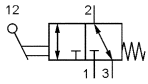
Hand lever valves

3/2-, 5/2- and 5/3-way

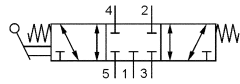
G1/8 to G1/2 • 750 to 3300 NI/min (0.762 – 3.354 Cv)



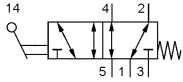
Series HF with spring return



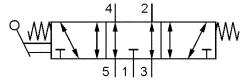
HF-18-310, HF-18-310-Q
HF-14-310, HF-12-310



HF-18-530, HF-18-530-Q
HF-14-530, HF-12-530



HF-18-510, HF-18-510-Q
HF-14-510, HF-12-510



HF-18-533, HF-18-533-Q
HF-14-533, HF-12-533



Design, function and technical data

Spool valve with spring return. All ports are interchangeable.

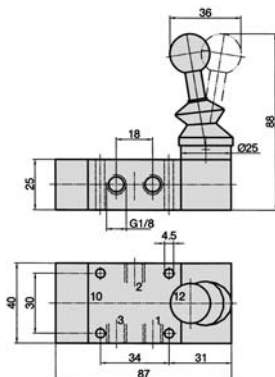
Valves of this series are available for use with vacuum (–0.95 ... 12 bar/–14 ... 175 psi). Order number changes to HF-18-310-Q and HF-18-510-Q.

Valves of this series are available in explosion proof design in accordance with 2014/34/EU (ATEX). For further details see chapter 13 of this catalogue.

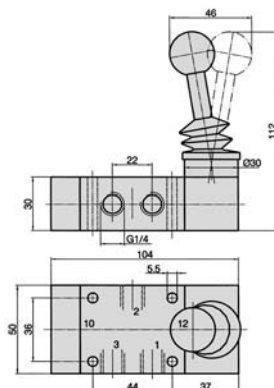
Order number	HF-18-310	HF-14-310	HF-12-310	HF-18-510	HF-14-510	HF-12-510
Function	3/2-way, spring return			5/2-way, spring return		
Connection	G1/8	G1/4	G1/2	G1/8	G1/4	G1/2
Nominal size	6 mm	9 mm	14 mm	6 mm	9 mm	14 mm
Flow rate	750 NI/min (0.762 Cv)	1580 NI/min (1.606 Cv)	3300 NI/min (3.354 Cv)	750 NI/min (0.762 Cv)	1580 NI/min (1.606 Cv)	3300 NI/min (3.354 Cv)
Pressure range	0 ... 12 bar (0 ... 175 psi)					
Actuating force at 6 bar	13 N	20 N	32 N	13 N	20 N	32 N
Temperature range	– 10 °C ... + 70 °C (+ 14 °F ... + 158 °F)					
Materials	Body: Al (anodized), Inner parts: Al, stainless steel, Lever: stainless steel, Seals: NBR and POM					
Medium	Compressed air in accordance with ISO 8573-1:2010, Class 7:2:4 – and free of aggressive additives.					
Weight	0.266 kg (0.586 lb.)	0.480 kg (1.058 lbs.)	1.210 kg (2.667 lbs.)	0.310 kg (0.683 lb.)	0.560 kg (1.234 lbs.)	1.430 kg (3.152 lbs.)

Order number	HF-18-530	HF-14-530	HF-12-530	HF-18-533	HF-14-533	HF-12-533
Function	5/3-way, center position closed			5/3-way, center position exhausted		
Connection	G1/8	G1/4	G1/2	G1/8	G1/4	G1/2
Nominal size	6 mm	9 mm	14 mm	6 mm	9 mm	14 mm
Flow rate	780 NI/min (0.793 Cv)	1800 NI/min (1.829 Cv)	3300 NI/min (3.354 Cv)	780 NI/min (0.793 Cv)	1800 NI/min (1.829 Cv)	3300 NI/min (3.354 Cv)
Pressure range	0 ... 12 bar (0 ... 175 psi)					
Actuating force at 6 bar	20 N	25 N	36 N	20 N	25 N	36 N
Temperature range	– 10 °C ... + 70 °C (+ 14 °F ... + 158 °F)					
Materials	Body: Al, Lever: stainless steel; Bellows: Molerit®; Screws: steel zinc-plated/nickel-plated Inner parts: Al, stainless steel, brass; Seals: NBR, PU (at HF-18 and HF-14), NBR, POM (at HF-12)					
Medium	Compressed air in accordance with ISO 8573-1:2010, Class 7:2:4 – and free of aggressive additives.					
Weight	0.320 kg (0.719 lb.)	0.580 kg (1.278 lbs.)	1.430 kg (3.152 lbs.)	0.320 kg (0.719 lb.)	0.580 kg (1.278 lbs.)	1.430 kg (3.152 lbs.)

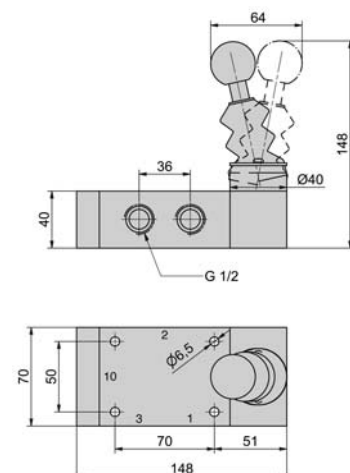
HF-18-310, HF-18-310-Q



HF-14-310



HF-12-310



1 = pressure inlet
2 = outlet
3 = exhaust

Further dimensions see page 2.103.

G1/8 to G1/2 • 750 to 3300 NI/min (0.762 – 3.354 Cv)



HF-18-510, HF-18-530, HF-18-533, HR-18-520, HR-18-530,
HR-18-533,
HF-18-510-Q, HF-18-530-Q, HF-18-533-Q, HR-18-520-Q,
HR-18-530-Q, HR-18-533-Q

Technical drawing of a mechanical part, showing front and top views with dimensions.

Front View (Top):

- Overall width: 36
- Overall height: 88
- Base diameter: $\varnothing 25$
- Two vertical sections, each 18 units wide.
- Three circular features (holes) in the base, labeled G1/8.
- Top feature: A complex, multi-faceted structure with a spherical top.

Top View (Bottom):

- Overall width: 105
- Overall height: 40
- Left side section: 30 units high, 12 units wide.
- Right side section: 31 units wide, 14 units high.
- Central section: 52 units wide, 4 units high.
- Bottom section: 3 units high.
- Four circular features (holes) are marked with crosshair symbols.
- Dimensions 1, 2, 3, 4, 5 are indicated for specific internal features.
- Dimension 4.5 is indicated for a small offset on the right side.

Technical drawing of a mechanical part, showing a side view and a top view.

Side View Dimensions:

- Overall width: 46
- Overall height: 112
- Base height: 30
- Distance between first two circular features: 22
- Distance between second and third circular features: 22
- Threaded hole specification: G1/4
- Vertical rod diameter: Ø30
- Vertical rod head diameter: 53 (at 530, 533)

Top View Dimensions:

- Overall width: 126
- Overall height: 50
- Distance from left edge to first circular feature: 12
- Distance between first and second circular features: 4
- Distance between second and third circular features: 2
- Distance from third circular feature to right edge: 14
- Distance from left edge to first circular feature (bottom): 5
- Distance between first and second circular features (bottom): 1
- Distance between second and third circular features (bottom): 3
- Distance from third circular feature to right edge (bottom): 37
- Distance from left edge to first circular feature (top): 36
- Distance from first circular feature to second circular feature (top): 66
- Distance from second circular feature to third circular feature (top): 5.5

[illegible]

Technical drawing of a mechanical part, showing front and top views with dimensions.

Front View (Top):

- Overall width: 64
- Overall height: 148
- Four circular features (holes) are shown, with a diameter of $\varnothing 40$.
- Horizontal spacing between the first three holes: 36 and 36.
- Vertical spacing between the first and second holes: 40.
- Thread specification: G 1/2

Top View (Bottom):

- Overall width: 193
- Overall height: 70
- Four circular features (holes) are shown, with a diameter of $\varnothing 6.5$.
- Horizontal spacing between the first three holes: 106 and 51.
- Vertical spacing between the first and second holes: 50.
- Feature numbers: 1, 2, 3, 4, 5, 12, 14.