Servo H / Valve H

General Servo H

Servo H series consists of a complete range of hand operated, pneumatic proportional valves, intended for remote control.

Servo H series are designed for many different applications, both mobile and industrial. Servo H series can be applied to control directional hydraulic spool valves and servo cylinders for hook arms systems, front and end loaders, mobile cranes and portal systems.

Other applications are speed control of air motor, assembling, sawing and cutting systems.

Design and function Servo H

The modular valve series Servo H can be easily combined with push buttons actuated Valve H series, and electric indicator modules. Each module can be assembled in random order for the best possible solution for the application and optimum ergonomics for operator. A connection flange for central air supply and central exhaust function makes the configuration very compact.

Robust design and choice of materials, sealing and production technique's makes Valve H series a reliable product. Servo modules are constructed from sections of two pressure reducing valves, with linear characteristics for proportional control.

Single Servo H series are available with lever in-line or lever 90° rotated. Depending on the application, the lever can be equipped with pneumatic or electric switch for "high flow" function. Double integrated servo modules are always 90° rotated and can be equipped with of without electric switch.

A stand-alone module can be chosen where space is at a premium. Stand-alone modules can not combined with other modules.

Pneumatic and electric connections for outlet signals are located on bottom side of the modules. Modules will be standard delivered with push-in connectors \emptyset 4 mm for pneumatic signals. Electrical connections can be made via an electrical connection block.

Symbols for movements, servo function and on/off functions can be shown by using pictograms. Pictogram can be assembled into the knob of the servo or front of a module.

All components can be assembled in random order. Each module will be delivered with special connection screws. This gives you the freedom of assembling the unit as required. All modules are supplied with o-rings for a reliable leak free seal between modules.

Parker can deliver complete assembled units or single modules. This provides the best possible flexible delivery options for you. Ask your local Parker Sales offices for best possible solution.



Servo H1

Pneumatic proportional valve. Available handle actuations:

- lever in line
- lever 90° rotated



Servo H2

Pneumatic proportional valve, with pneumatic push-buttton integrated into the lever, for extra pneumatic signal. Available handle actuations:

- lever 90° rotated



Servo H3

Pneumatic proportional valve, Stand-alone module, available in different version, normal actuation (H1), with electric switch integrated in lever (H5) and with mechanical lock (H4).



Servo H4

Pneumatic proportional valve, with mechanical lock. Available handle actuations:

- lever in line
- lever 90° rotated



Servo H5

Pneumatic proportional valve, with electrical switch integrated into the lever, for extra electric signal. Available handle actuations:

- lever in line
- lever 90° rotated



Servo H6

Pneumatic proportional valve, with 3 position electric switch integrated in to lever.

Available handle actuations:

- lever in line
- lever 90° rotated



Servo-double

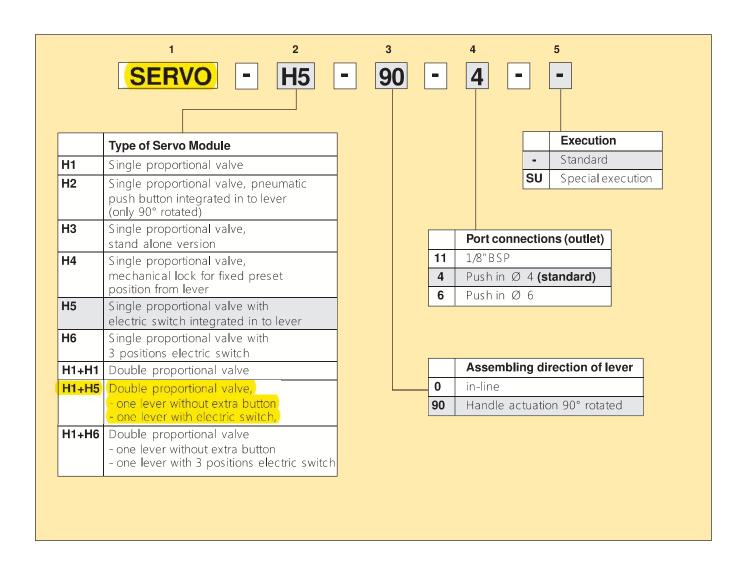
Double proportional valve, both levers always 90° rotated. Each type of handle actuation is available.

- H1+H1
- H1+H5
- H1+H6





Ordering-key Servo H



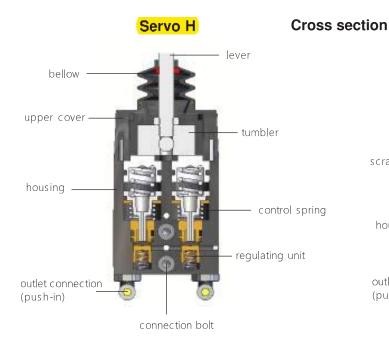
Standard order codes

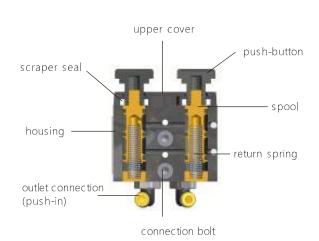
Single	Order code	Double	Order code	
Servo H1-0-4	3500600	Servo H1+H1-4	350120	
Servo H1-90-4	3501400	Servo H1+H5-4	350190	
Servo H2-90-4	3501500	Servo H1+H6-4	352280	
Servo H3+H1-0-4	3500800			
Servo H3+H4-0-4	3512900			
Servo H3+H5-0-4	3519300			
Servo H4-0-4	3500900			
Servo H4-90-4	3501600			
Servo H5-0-4	3501000			
Servo H5-90-4	3501700			
Servo H6-0-4	3514600			

For central air supply and exhaust of a module or complete pre-assembled Servo H-unit a connection flange is always required. More information can be found on page 8.









Valve H

Technical data

Pneumatic

Working medium : Compressed air : max. 8 bar Supply pressure

Controlpressure : 0-8 bar linear characteristics

Flow rate : 187 I/min. Hysteresis : max. 1 bar Temperature ranges : -10°C / +70°C

Air quality : Filtered to min. 50 micron,

> lubricated or non-lubricated, dried to drewpoint of +3°C. Once lubrication is applied, this must be maintained.

Lever force : 4 Nm fully actuated at 8 bar

Port connections inlet:

: Push-in connector ø6 mm Central air supply (P) Central exhaust (R) : Push-in connector ø6 mm

Port connections outlet:

ServoH : Push-in connector ø4 mm Valve H : Push-in connector ø4 mm

: Other port connections on

request

Weight:

Flange set : 0,22 kg Valve H : 0,26 kg Servo H : 0,38 kg Servo H-90 : 0,60 kg Servo H+H : 0,66 kg

Electrical:

: resistive load Two position contact

2A - 24 VDC 5A - 250 VAC

: inductive load 3A - 250 VAC

Materials:

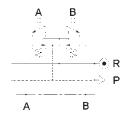
Valve body : Anodised aluminium

Top cover : Thermoplastic Knob : Thermoplastic : Stainless steel Lever : Nitrile rubber Seals Spool : Brass

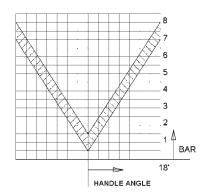
: Stainless steel Screws

Servo H

• Р В



Valve H

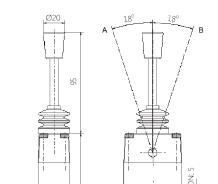




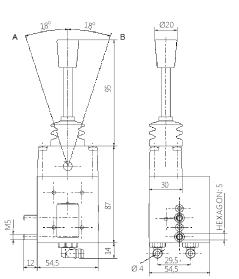


Dimensions

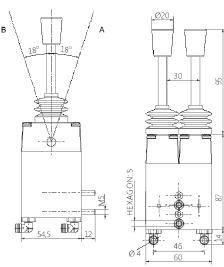
Servo H... in line



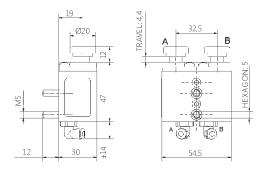
Servo H... 90° rotated



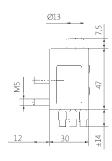
Servo double

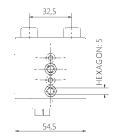


Valve H...

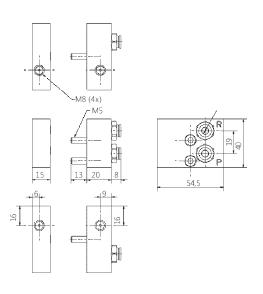


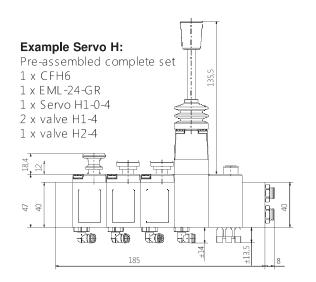
EML-24-GR

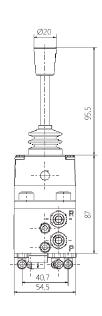




CFH6







Parker can preassemble complete sets

Parker can pre-assemble a complete set of Servo H/Valve H for you. This gives you the benefit of ordering one complete item number for several Servo H/Valve H modules, pre-assembled and factory tested. Pre-assembled sets consist of a connection flange with servo module combined with several valve modules.

Description Single	Order code	Description Single	Order code
Servo H1-4+CFH6	3511700	Servo H5-4+CFH6	3513800
Servo H1-4+1xValve H1-4+CFH6	3511800	Servo H5-4+1xValve H1-4+CFH6	3513900
ervo H1-4+2xValve H1-4+CFH6	3511900	Servo H5-4+2xValve H1-4+CFH6	3514000
ervo H1-4+3xValve H1-4+CFH6	3512000	Servo H5-4+3xValve H1-4+CFH6	3514100
ervo H1-90-4+CFH6	3512100	Servo H5-90-4+CFH6	3514200
ervo H1-90-4+1xValve H1-4+CFH6	3512200	Servo H5-90-4+1xValve H1-4+CFH6	3514300
ervo H1-90-4+2xValve H1-4+CFH6	3512300	Servo H5-90-4+2xValve H1-4+CFH6	3514400
Servo H1-90-4+3xValve H1-4+CFH6	3512400	Servo H5-90-4+3xValve H1-4+CFH6	3514500
ervo H2-90-4+CFH6	3512500		
ervo H2-90-4+1xValve H1-4+CFH6	3512600		
ervo H2-90-4+2xValve H1-4+CFH6	3512700	Description Double	Order code
ervo H2-90-4+3xValve H1-4+CFH6	3512800		
		Servo H1+H1-4+CFH6	3514800
ervo H4-4+CFH6	3513000	Servo H1+H1-4+1xValve H1-4+CFH6	3514900
ervo H4-4+1xValve H1-4+CFH6	3513100	Servo H1+H1-4+2xValve H1-4+CFH6	3515000
ervo H4-4+2xValve H1-4+CFH6	3513200	Servo H1+H1-4+3xValve H1-4+CFH6	3515100
ervo H4-4+3xValve H1-4+CFH6	3513300	Servo H1+H5-4+CFH6	3515200
ervo H4-90-4+CFH6	3513400	Servo H1+H5-4+1xValve H1-4+CFH6	3515300
	3513500	Servo H1+H5-4+2xValve H1-4+CFH6	3515400
ervo H4-90-4+1xValve H1-4+CFH6	3313300		
ervo H4-90-4+1xValve H1-4+CFH6 ervo H4-90-4+2xValve H1-4+CFH6	3513600	Servo H1+H5-4+3xValve H1-4+CFH6	3515500

Pre-assembled Servo H units not mentioned in the catalogue can be put together on request. Ask your local Parker Sales Office for information and available possibilities.

Spare parts / Repair kits

For each module spare parts and seal kits are available. They contain all the required parts needed for maintenance Where required pre-assembled parts will be delivered for simple maintenance of the Servo/Valve H series. For easy recognition all modules will be labeled. When ordering seal kit / top cover, please refer to this code number.

Seal kit

Complete seal kits consisting of all components which are subjected to friction.

Description	Order code
Servo H1 / Servo H1-90 / Servo H3+H1 Servo H2-90 Servo H4 / Servo H4-90 / Servo H3+H4 Servo H5 / Servo H5-90 / Servo H3+H5 Servo H6	3515600 3515700 3515800 3515900 3514600
Servo H1+H1 Servo H1+H5 Valve H1 Valve H2 Valve H3	3516100 3501900 3516300 3516400 3516500

Top cover complete

Complete pre-assembed top covers can be ordered for easy maintenance of a ervo module.

	Order code	Description	Order code
o H1-90 / Servo H3+H1	3515600	Servo H1 / Servo H1-90 / Servo H3+H1	3516600
•	3515700	Servo H2-90	3516700
o H4-90 / Servo H3+H4	3515800	Servo H4 / Servo H4-90 / Servo H3+H4	3516800
o H5-90 / Servo H3+H5	3515900	Servo H5 / Servo H5-90 / Servo H3+H5	3516900
	3514600	Servo H6	3517000
	3516100		
	3501900		
	3516300		
	3516400		
	3516500		

