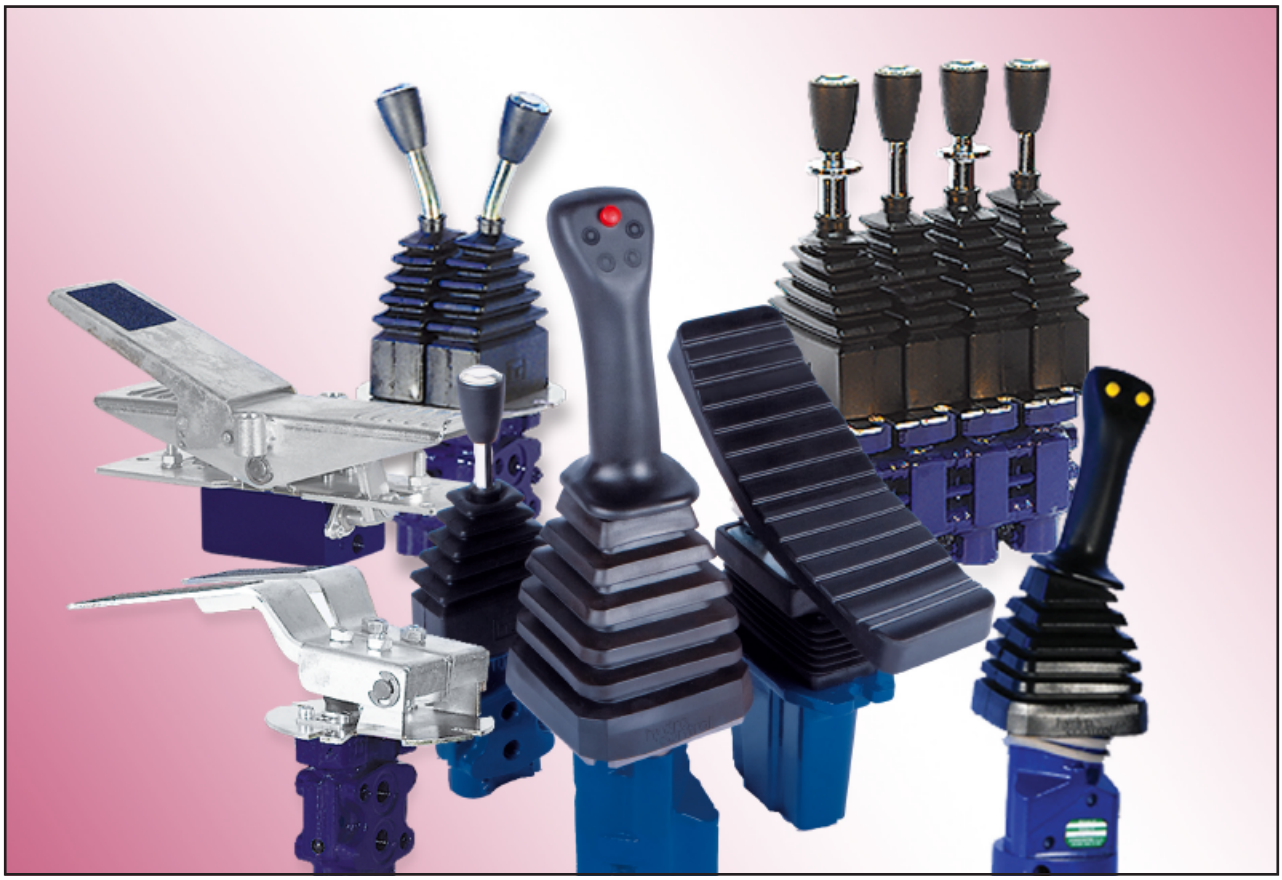
Mobile Remote Controls



hydro control

Allison Hydraulics

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Mobile Remote Controls

Hydraulic remote control - HC-RCX

HC-RCX-AL

Features:

- Hydraulic remote control HC-RCX belongs to the wide range of Hydrocontrol S.p.A. and is capable of working with a maximum input pressure of 100 bar at a maximum oil input capacity of 16 l/min.
- The lever anti-swaying system and the ergonomic handle provide great sensitivity while manoeuvring and make use very comfortable for the operator.
- Low operating efforts, low energy consumption and low maintenance makes these hydraulic remote controls HCRCX ideal for piloting remote control directional valves, variable displacement pumps and motors, auxiliary valves, frictions and hydraulic brakes.

HC-RCX has available:

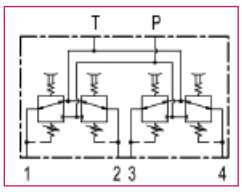
- A broad range of control curves; bodies have BSP connection threads.
- The remote control can be operated by means of different controls; simple return in central position, mechanical detent on one position; round and squared bellows are available with straight or bent levers.
- A version arranged to fit other commercial handles.

Applications:

- Mini-excavators, mini steer loaders, backhoe loaders, wheel loaders, tractors and boom mowers.

Technical specifications:

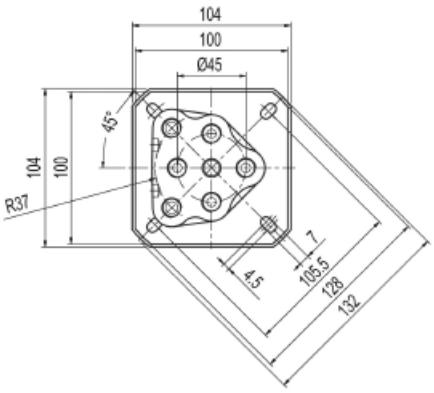
Max pressure	Oil capacity	Weight
100 bar	12 l/min	2.5Kg

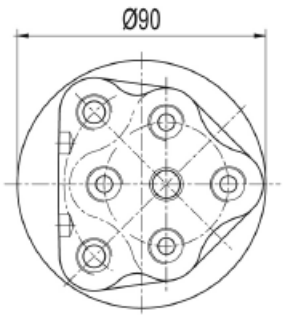


Standard working conditions - Hydraulic remote control:

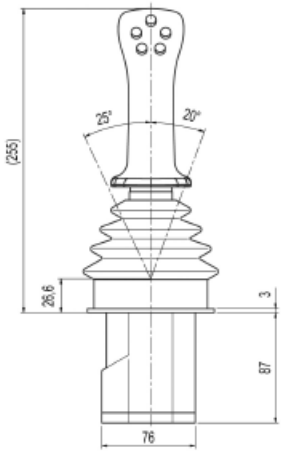
Max back pressure on tank line	Hysteresis	Hydraulic fluid	Fluid temperature range	Fluid viscosity range	Max contamination level	Recommended filtration	Leakage
100 bar	< 1 bar	Mineral oil HL, HM (or HLP acc. to DIN 51524)	-20°C/+80°C	10 ÷ 300 cSt	9 (NAS 1638) - 20/18/15 (ISO 16889:2008)	β10 > 75 (ISO 16889:2008)	3 cc/min (with 50 bar of pressure)

Dimensions:





Holder hole dimension



Model code

HC-RCX	01	A01	MA	RA G02

Product type

Control type:
01 = Standard spring centre

Curve type:
A01 = 5-19 bar as standard
(others available on request)

Body arrangement:
RA = body specification
G02 = thread

Return spring type:
MA = 29.5N as standard

Option: For levers including microswitch buttons, contact sales office for information.

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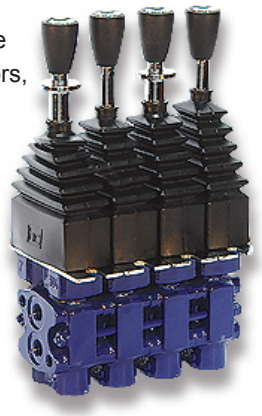
Hydraulic remote control - HC-RCM

HC-RCM-AL

Features:

- Hydraulic remote control HC-RCM belongs to the wide range of Hydrocontrol products.
- Low operating efforts, low energy consumption and low maintenance make these hydraulic remote controls ideal for piloting remote control directional valves, variable displacement pumps and motors, auxiliary valves, frictions and hydraulic brakes.
- It can assemble up to 12 working sections.



HC-RCM has available:

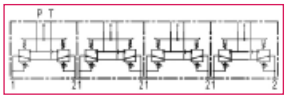
- A broad range of control curves; bodies have BSP connection threads.
- The remote control can be operated by means of different controls; simple return in central position, mechanical detent on one or both positions; lever security lock in central position, frictioned positioning, microswitch.

Applications:

- Mini-excavators, mini steer loaders, backhoe loaders, wheel loaders, tractors and boom mowers.

Technical specifications:

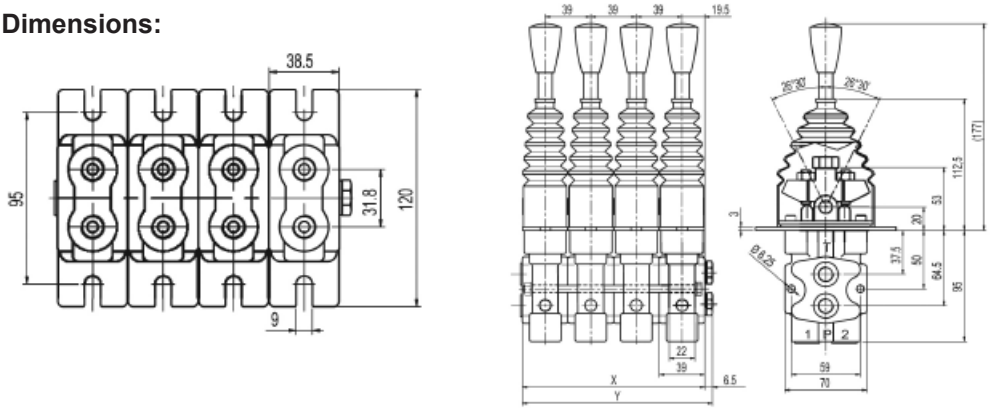
Working section no.	Max pressure	Oil capacity	Weight	Tie-rods clamping torque
1 - 12	60 bar	12 l/min	1.5 Kg	14 Nm



Standard working conditions - Hydraulic remote control:

Max back pressure on tank line	Hysteresis	Hydraulic fluid	Fluid temperature range	Fluid viscosity range	Max contamination level	Recommended filtration	Leakage
100 bar	< 1 bar	Mineral oil HL, HM (or HLP acc. to DIN 51524)	-20°C/+80°C	10 ÷ 300 cSt	9 (NAS 1638) - 20/18/15 (ISO 16889:2008)	β10 > 75 (ISO 16889:2008)	3 cc/min (with 50 bar of pressure)

Dimensions:



Type	/1	/2	/3	/4	/5	/6	/7	/8	/9	/10	/11	/12
X (mm)	39	78	117	156	195	234	273	312	351	390	429	468
Y (mm)	45.5	84.4	123.5	162.5	201.5	240.5	279	318.5	357.5	396.5	435.5	474.5
Weights (Kg)	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18

Model code

HC-RCM/1	01	A01	MA	RA G02

Product type:
/1 = number of sections (Max 12)

Control type:
01 = Spring return as standard
02 = Stroke end
05 = Security handle
06 = Friction

Curve type:
A01 = 5 - 19 bar as standard
(others available on request)

Body arrangement:
RA = body specification
G02 = thread

Return spring type:
MA = 29.5N as standard

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Hydraulic remote control - HC-RCB

HC-RCB-AL

Features:

- Hydraulic remote control HC-RCB belongs to the wide range of Hydrocontrol products.
- Low operating efforts, low energy consumption and low maintenance makes these hydraulic remote controls ideal for piloting remote control directional valves, variable displacement pumps and motors, auxiliary valves, frictions and hydraulic brakes.

HC-RCB has available:

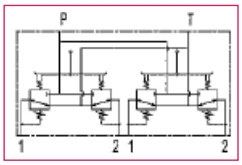
- A broad range of control curves; bodies have BSP connection threads.
- The remote control can be operated by means of different controls; simple return in central position, mechanical detent on one or both positions; lever security lock in central position, frictioned positioning, microswitch.

Applications:

- Mini skid loaders, backhoe loaders and tractors.

Technical specifications:

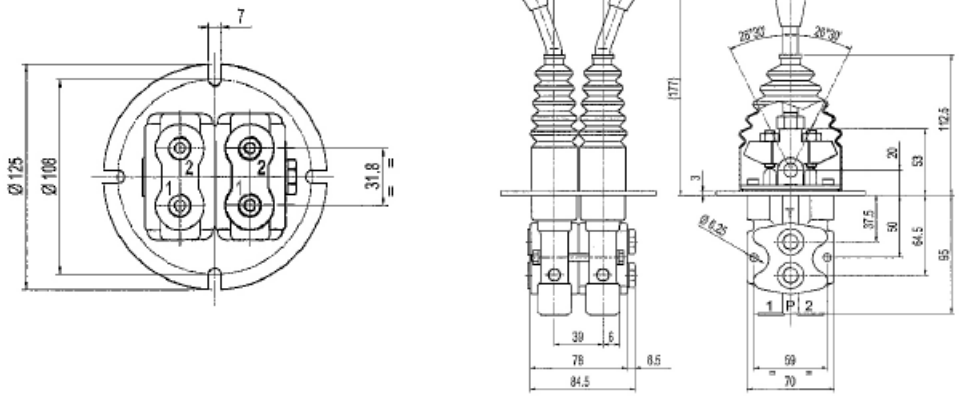
Working section no.	Max pressure	Oil capacity	Weight	Tie-rods clamping torque
2	60 bar	12 l/min	3.2 Kg	14 Nm



Standard working conditions - Hydraulic remote control:

Max back pressure on tank line	Hysteresis	Hydraulic fluid	Fluid temperature range	Fluid viscosity range	Max contamination level	Recommended filtration	Leakage
100 bar	< 1 bar	Mineral oil HL, HM (or HLP acc. to DIN 51524)	-20°C/+80°C	10 ÷ 300 cSt	9 (NAS 1638) - 20/18/15 (ISO 16889:2008)	β10 > 75 (ISO 16889:2008)	3 cc/min (with 50 bar of pressure)

Dimensions:



Model code

HC-RCB	01	A01	MA	RA G02

Product type

Control type:
01 = Spring return as standard
05 = Friction control

Curve type:
A01 = 5 - 19 bar as standard
(others available on request)

Return spring type:
MA = 29.5N as standard

Body arrangement:
RA = body specification
G02 = thread

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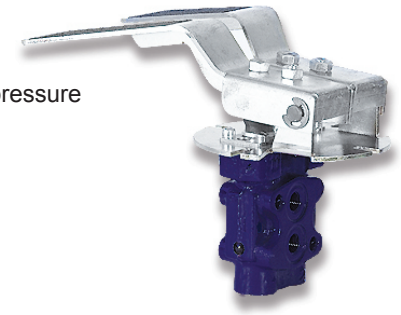
Foot pedal - HC-RCD

HC-RCD-AL

Features:

- Hydraulic remote control HC-RCD belongs to the wide range of Hydrocontrol S.p.A. and is capable of working with a maximum input pressure of 100 bar at a maximum oil input capacity of 16 l/min.
- Hydraulic remote control HC-RCD works according to the principle of direct-acting pressure reducing valves.

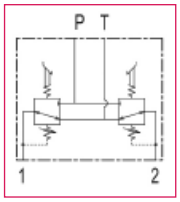


HC-RCD has available:

- A broad range of control curves; bodies have BSP connection threads.

Applications:

- Mini skid loaders, mini dumper.



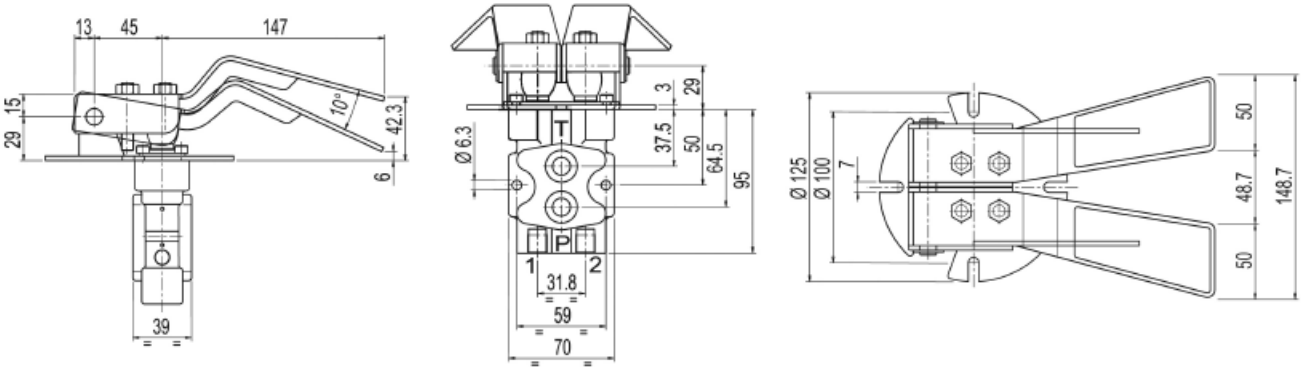
Technical specifications:

Max pressure	Oil capacity	Weight
60 bar	12 l/min	3.2Kg

Standard working conditions - Hydraulic remote control:

Max back pressure on tank line	Hysteresis	Hydraulic fluid	Fluid temperature range	Fluid viscosity range	Max contamination level	Recommended filtration	Leakage
100 bar	< 1 bar	Mineral oil HL, HM (or HLP acc. to DIN 51524)	-20°C/+80°C	10 ÷ 300 cSt	9 (NAS 1638) - 20/18/15 (ISO 16889:2008)	β10 > 75 (ISO 16889:2008)	3 cc/min (with 50 bar of pressure)

Dimensions:



Model code

HC-RCD	01S	A01	MA	RA G02

Product type

Control type:
01S = Spring return foot pedal as standard

Curve type:
A01 = 5-19 bar as standard
(others available on request)

Return spring type:
MA = 29.5N as standard

Body arrangement:
RA = body specification
G02 = thread

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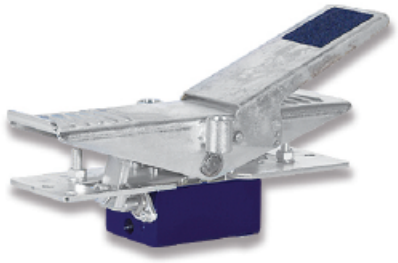
Foot pedal - HC-RCP

HC-RCP-AL

Features:

- HC-RCP is a pedal version remote control.
- Reduced overall dimensions and several configurations available; P, T and ports connections are on the body sides.



HC-RCP has available:

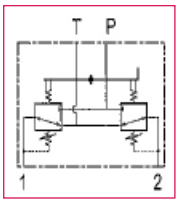
- A broad range of control curves; bodies have BSP connection threads.
- Standard pedals, pedals with connections for levers, bented pedals can also be supplied.

Applications:

- Mini-excavators.

Technical specifications:

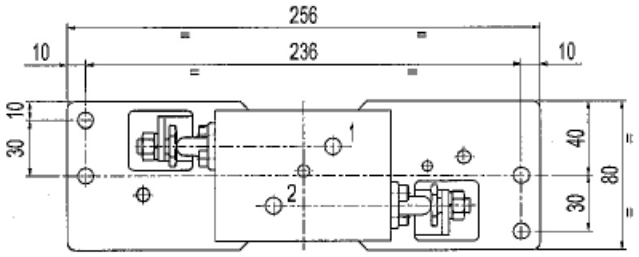
Max pressure	Oil capacity	Weight
100 bar	12 l/min	3.4Kg

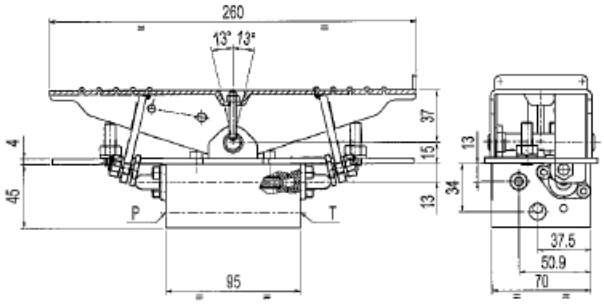


Standard working conditions - Hydraulic remote control:

Max back pressure on tank line	Hysteresis	Hydraulic fluid	Fluid temperature range	Fluid viscosity range	Max contamination level	Recommended filtration	Leakage
100 bar	< 1 bar	Mineral oil HL, HM (or HLP acc. to DIN 51524)	-20°C/+80°C	10 ÷ 300 cSt	9 (NAS 1638) - 20/18/15 (ISO 16889:2008)	β10 > 75 (ISO 16889:2008)	3 cc/min (with 50 bar of pressure)

Dimensions:





Model code

HC-RCP	01S	A01	MA	RA G02

Product type

Control type:
01S = Spring return as standard

Curve type:
A01 = 5 - 19 bar as standard
(others available on request)

Return spring type:
MA = 29.5N as standard

Body arrangement:
RA = body specification
G02 = thread

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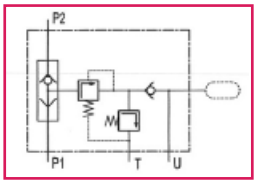
Features:

- The purpose of supply unit HC-SU is to supply hydraulic remote controls in a hydraulic system working at high pressure with reduced flow at low pressure.
- Operating principle is that of a direct acting pressure reducing valve. High pressure fluid from the main circuit is routed through ports P1, P2 and P3: Pressure is decreased to the value required for supplying the hydraulic controls by means of a pressure reducing valve that directs the necessary fluid to the control via port (U).
- Supply units are fitted with an accumulator that satisfies short term peak power demands and is a source of emergency power should the main circuit pressure fail.
- To avoid the accumulator discharge, low pressure circuit is protected both by the adjustable main relief valve inside the cartridge of the pressure reducing valve and the check valve.
- To start the hydraulic system, a backpressure of at least 10 bar on service port (P) has to be applied when the accumulator is discharged.

Note: Because of the small dimensions and working on the same adjusting screw, this valve has the possibility of setting both the pressure reducing valve and the main relief valve. Main relief valve pressure setting is higher than about 10 bar if compared to the pressure reducing valve - see the pressure setting diagram. Supply unit may be installed in any mounting position but the accumulator should be as far as possible from heat sources.

Technical specifications:

Type	MAX input pressure (bar)	MAX oil input capacity (l/min)	Weight (kg)
HC-SU2	350	12	1.7
HC-SU3	350	12	2

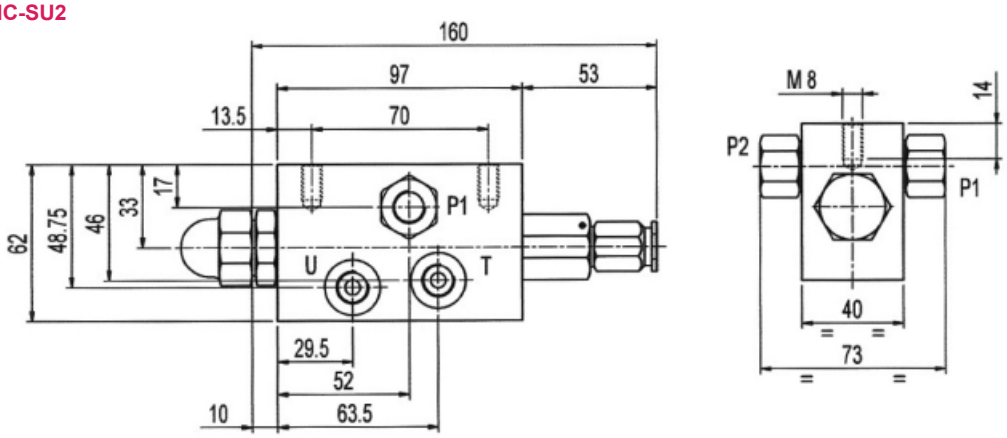


Standard working conditions - Supply units:

Max input pressure	Pressure on U port line	Hysteresis	Hydraulic fluid	Fluid temperature range	Fluid viscosity range	Max contamination level	Recommended filtration
100 bar	10 - 70 bar	< 1 bar	-20°C/+80°C	10 ÷ 300 cSt	10 ÷ 300 cSt	(NAS 1638) -20/18/15 (ISO 4406:1999)	β10 > 75 (ISO 16889:2008)

Dimensions:

HC-SU2



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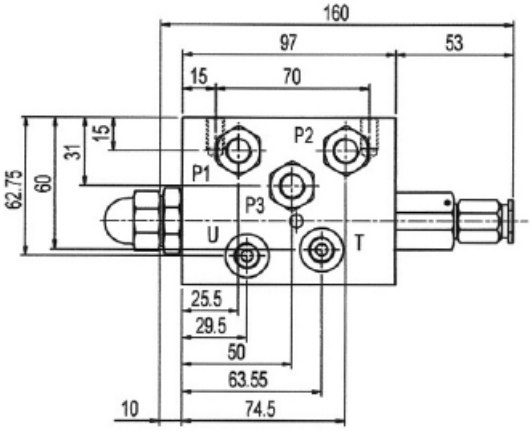
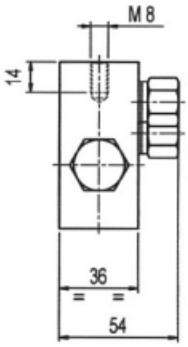
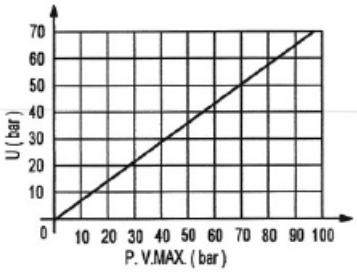
Dimensions:

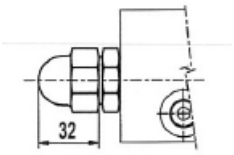
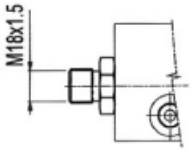
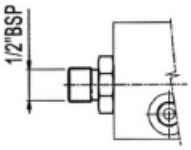
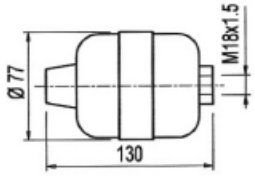
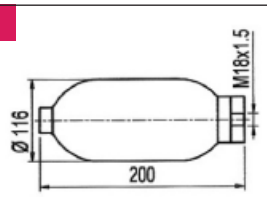
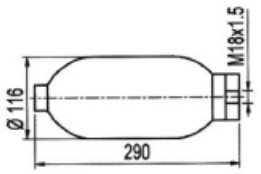
HC-SU3







Accumulator specification

V01  Without accumulator	**V02**  Prearranged for accumulator	**V03**  Prearranged for accumulator	
V04  Hydropneumatic accumulator with rubber membrane Volume nitrogen: lt. 0.35 - Precharge: 10 bar	**V05**  Hydropneumatic accumulator with rubber membrane Volume nitrogen: lt. 0.75 - Precharge: 10 bar	**V06**  Hydropneumatic accumulator with rubber membrane Volume nitrogen: lt. 1.5 - Precharge: 10 bar	

Max. working pressure	Working temperature	MAX. allowed pressure ratio	Accumulator precharge pressure
210 bar	-20 +80ºC	< 6/1	10 bar

Model code

HC-SU2	V04	30	RA G02

Product type:
SU = model
2 = number of lines

Accumulator model:
V04 = accumulator with rubber membrane

Body arrangement:
RA = body configuration
G02 = thread type

Pressure setting:
(0 - 70 bar on service port U)

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