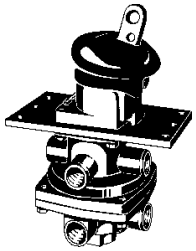
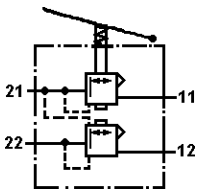
Válvula de freno
Brake Valve

461 491





Datos técnicos / Technical Data:	
Presión de funcionamiento Operating pressure	max. 8 bar
Medio Permissible medium	aire / air
Rango de temperatura Operating temperature range	-40°C a/to +80°C
Diámetro nominal Nominal diameter	Ø 12 mm
Predominancia Predominance	ver tabla see table

Propósito:
Accionamiento sensible del circuito doble durante la aplicación y liberación de los frenos del sistema de frenado de servicio.

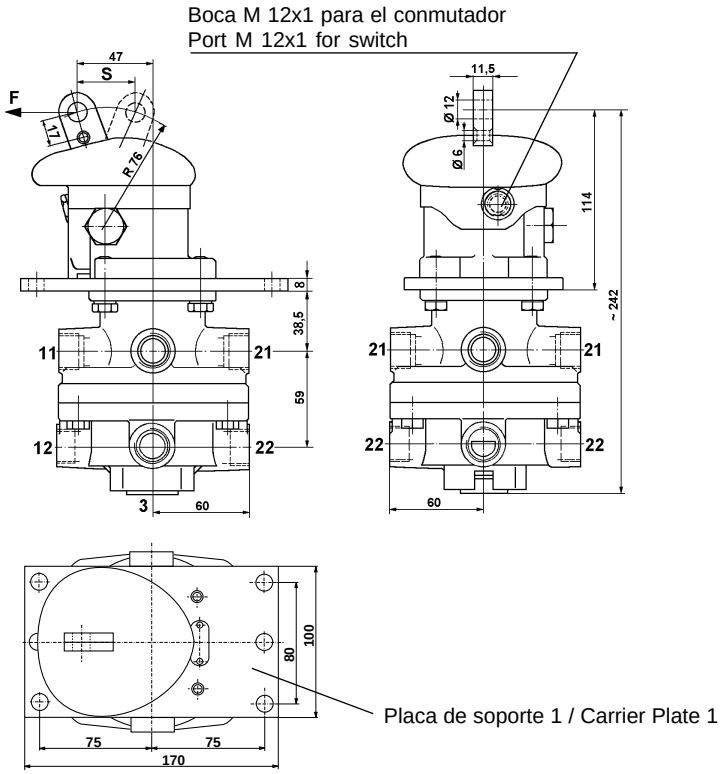
Requisitos para la instalación:
La válvula de freno debe instalarse en el vehículo con la palanca de mando en una posición adecuada. Una vez instalada la unidad de accionamiento debe ser posible hacer uso del recorrido completo de la válvula. La válvula se fija por medio de tornillos M10.

Purpose:
Sensitive actuation of the dual circuit during brake application and release service brake system.

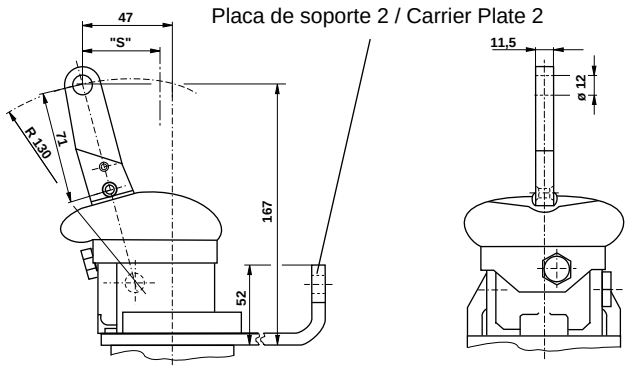
Installation Requirement:
The brake valve should be installed with the actuating lever in a suitable position in the vehicle. By installing of the actuating unit it must be possible to use the complete way of the valve. The valve is fixed with screws M10.

Instalación / Installation:

Conjunto de mando / Operating assy: 461 491 792 2



Conjunto de mando / Operating assy: 461 491 794 2



La fuerza $F_{máx.}$ en el recorrido total necesario s se indica en la tabla siguiente.
Force $F_{max.}$ at necessary total way s is shown in the following table.

Válvula de freno
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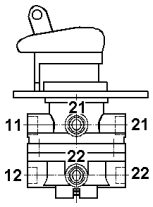
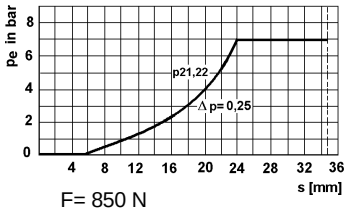
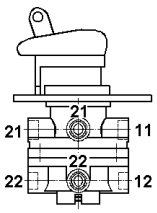
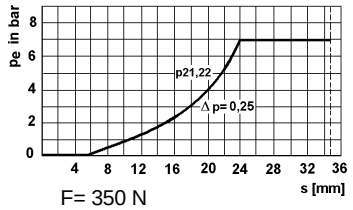
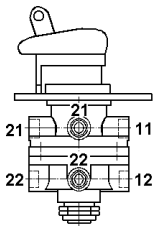
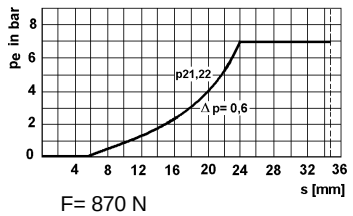
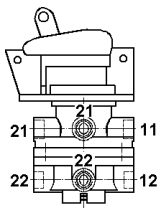
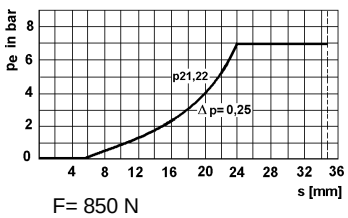
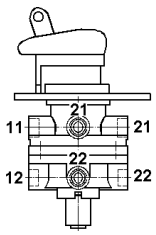
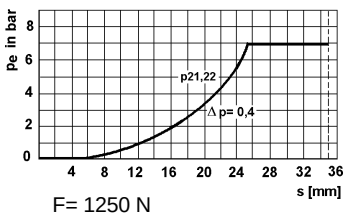
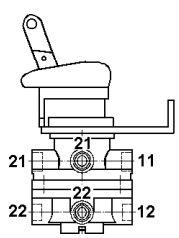
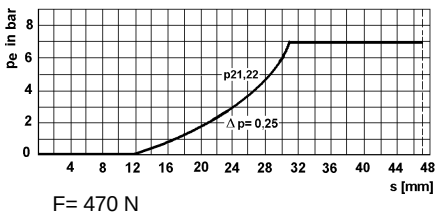
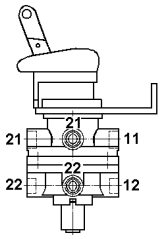
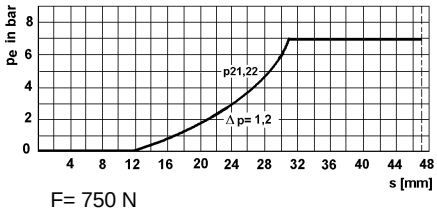
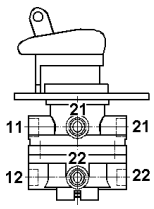
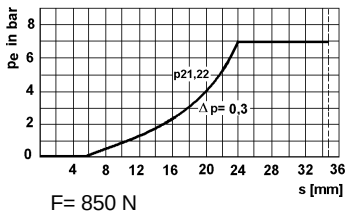
Referencia / Part Number Componentes y posición de las bocas Components and position of ports A= Válv. básica/ Basic valve B= Accionamiento/ Operating assy C= Placa / Carrier plate		Característica / Characteristic	Observaciones Comments
461 491 100 0 A= 461 307 479 0 B= 461 491 792 2 C= 1	 Bocas / Ports: M22x1,5	Δρ = fijada / fixed 0,25 bar  F= 850 N	
4614911020 A= 461 307 479 0 B= 461 491 792 2 C= 1	 Bocas / Ports: M22x1,5	Δρ = fijada/ fixed 0,25 bar  F= 350 N	
461 491 152 0 A= 461 307 476 0 B= 461 491 792 2 C= 1	 Bocas / Ports: M22x1,5	Δρ = ajustable / adjustable 0,2 - 1,2 bar ajustada a/ adjusted to 0,6 bar  F= 870 N	
461 491 158 0 A= 461 307 459 0 B= 461 491 792 2 C= speziell/special	 Bocas / Ports: M16x1,5	Δρ = fijada / fixed 0,25 bar  F= 850 N	Boca 21: 2 taponadas Boca 22: 1 taponada; Port 21: 2x plugged Port 22: 1x plugged
461 491 200 0 A= - B= 461 491 792 2 C= 1	 Bocas / Ports: M22x1,5	Δρ = ajustable / adjustable 0,2 - 1,2 bar ajustada a/ adjusted to 0,4 bar  F= 1250 N	
461 491 250 0 A= 461 307 469 0 B= 461 491 794 2 C= 2	 Bocas / Ports: M22x1,5	Δρ = fijada / fixed 0,25 bar  F= 470 N	

Referencia / Part Number **Componentes y posición de las bocas** **Components and position of ports** **A= Válv. básica / Basic valve** **B= Accionamiento / Operating assy** **C= Placa / Carrier plate**		**Característica / Characteristic**	**Observaciones** **Comments**
461 491 254 0 A= 461 307 468 0 B= 461 491 794 2 C= 2	 Bocas / Ports: M22x1,5	Δρ = ajustable / adjustable 0,2 - 1,2 bar ajustada a/ adjusted to 1,2 bar  F= 750 N	
461 491 274 0 A= - B= 461 491 792 2 C= 1	 Bocas / Ports: M22x1,5	Δρ = fijada / fixed 0,3 bar  F= 850 N	