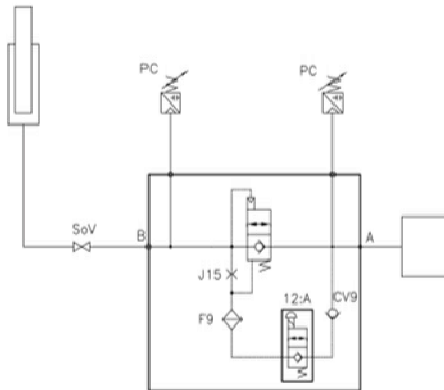


SAFETY VALVE HSV



The Safety Valve HSV is an electrically pilot operated check valve for hydraulic lifts. Installed between the cylinder and the control valve as close as possible to the lift valve. It enables the oil flow from the lift valve A to the cylinder B during travel UP, and enables the flow in opposite direction (from B to A) until the pilot valve 12:A is energized.

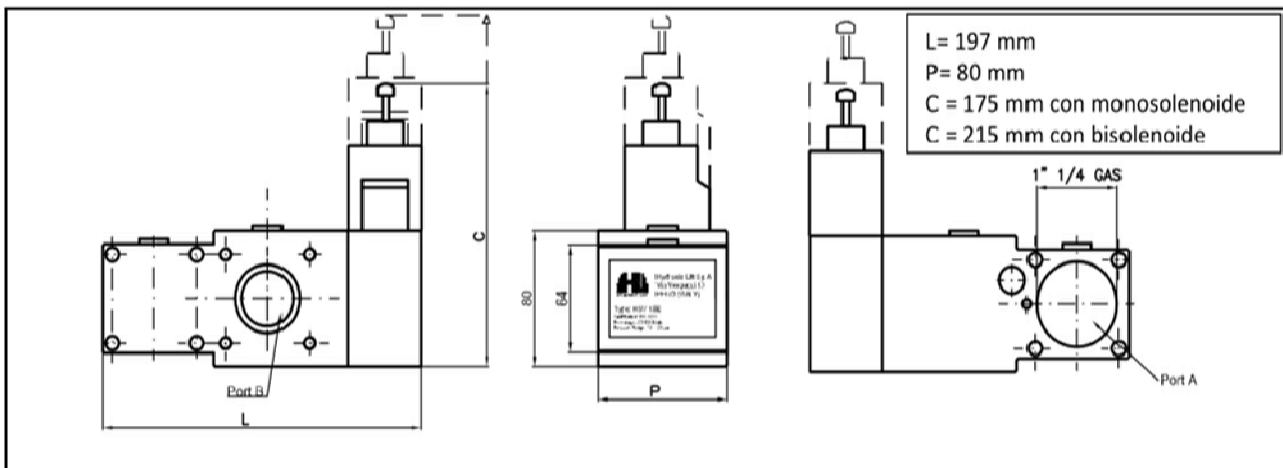


Figure 1

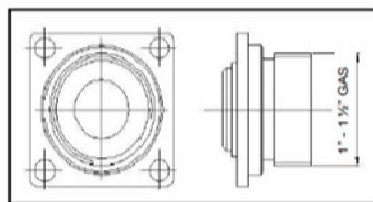


Figure 2

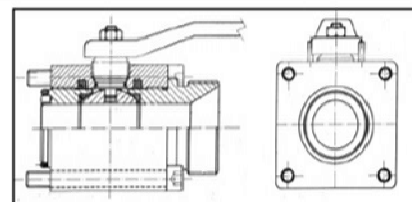


Figure 3

Type	Port A		Port B
	H300	Other control valve	All control valve
HSV-150	Flanged with 4 screws	Threaded hole 1 1/4" Gas	<ul style="list-style-type: none"> Flanged with shut-off valve 1", 1 1/4", 1 1/2" Gas (Fig3) Flanged with threaded flange connection 1", 1 1/4", 1 1/2" Gas (Fig 2)
HSV-440	Flanged with 4 screws	Threaded hole 1 1/4" Gas	<ul style="list-style-type: none"> Flanged with shut-off valve 1", 1 1/4", 1 1/2" Gas (Fig3) Flanged with threaded flange connection 1", 1 1/4", 1 1/2" Gas (Fig 2)

Working Limits	HSV-150	HSV -440
Flow range [L/min]	50 ÷ 150	150 ÷ 440 l/min
Operating pressure [bar]	10 ÷ 50	10 ÷ 50
Pressure drop A to B [bar]	< 1	< 3,7
Pressure drop B to A [bar]	< 1,5	< 5
Viscosity range [cSt]	25-200	25-200
Temperature [°C] *	+ 5°C ÷ + 60°C	+ 5°C ÷ + 60°C
Permissible fluids	Hydraulic oil	Hydraulic oil

* To comply with the working limits of the Safety Valve HSV select an appropriate oil type for the working temperatures according to page HL 04.05 of "HL GENERAL CATALOGUE".

The Safety Valve HSV is suitable for all power units that complies the EN 81.2 code

Control Panel

State of the lift	State of the solenoid valve			Remarks
	Must be energised	Must be de-energised	Arbitrary	
Travel UP with door closed			X	No influence of the Safety Valve during travel UP
Travel DOWN with door closed	X			
Standstill with door open	X			For load pressure sensing and releveling
Standstill with door closed, DOWN travel is starting immediately	X			The Safety Valve must be energized at least 300 ms before travel starts, otherwise the travel control of the lift valve can be affected negatively
Long standstill period with door closed		X		To increase the Energy Saving
Unintended travel up with door open			X	No influence of the Safety Valve during travel uptravel, lift must be stopped by the disconnection of the motors contactors
Unintended travel downwards with door open		X		Interruption of the current to the solenoid of the Safety Valve with dedicated and certified switch when the unlocking zone is left(emergency stop)
Hand pump operation			X	No influence of the Safety Valve during the travel UP
Electrical Emergency lowering	X			Through the optionally available emergency power winding of the Safety Valve
Manual Emergency lowering			X	Through manual release of the Safety Valve