

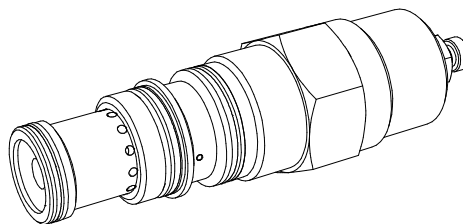
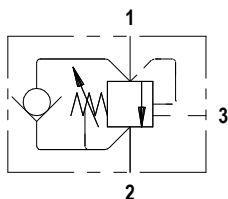


## OSC 145

## Overcentre Valve



### FLUID POWER SYMBOL



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### APPLICATION

Overcentre valves give static and dynamic control of loads by regulating flow into and out of hydraulic actuators. The Overcentre valve will stop the load from running away in the event of a hose burst. If open center directional control valves are used, they will allow the thermal expansion relief of the hydraulic fluid. These valves provide excellent hose burst protection.

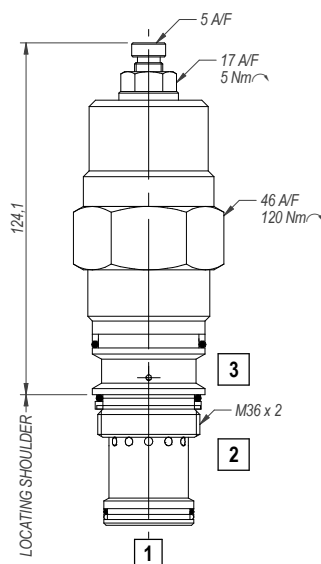
### OPERATION

The check section allows free flow into the actuator (from 2 to 1) then holds and locks the load against movement (from 1 to 2). The pilot pressure in the pilot port (3) will give a controlled movement to piston when the pressure is applied. The pressure required to open the valve and allow movement depends on the pilot ratio of the valve.

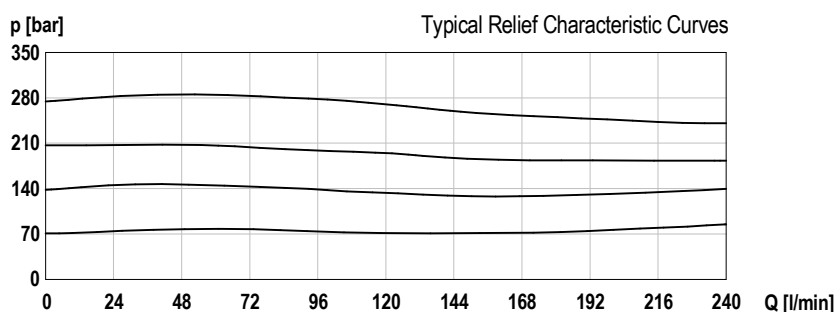
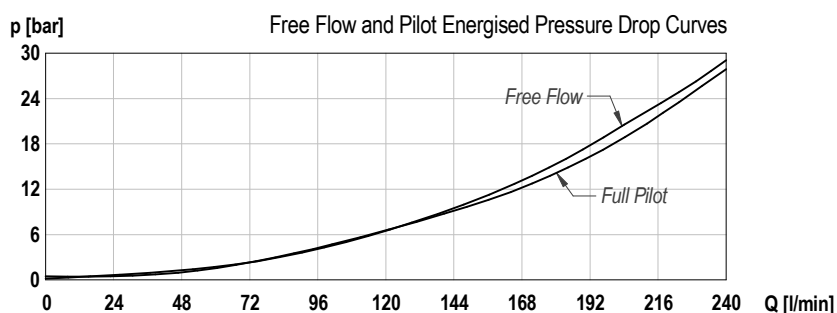
### FEATURES

Matched ground and hardened working parts give a long and trouble-free life. Consistent stable operation providing low pressure over ride even with increasing flows. Cartridge type construction gives maximum flexibility in mounting.

### DIMENSIONS



### CHARACTERISTICS. Figures Based on: Oil Temp = 40°C, Viscosity = 40 cSt



### General Specifications

Description	direct acting overcentre valve
Construction	Screw-in Cartridge Construction for Cavity
Mounting	M36 x 2.0 screw thread for cartridge Threaded ports for housings.
Installation Position	any
Tightening Torque	120 Nm
Ambient Temp.	-20°C to +50°C
Cartridge Material	Working parts: Hardened, ground steel External surfaces: Zinc plated
Manifold Material	Not available
Cavity Number	Sun T-17A
Weight	OSC145 F ** N *: 1.2 kg

### Hydraulic Specifications

Hydraulic Fluid	Mineral oils. Contact sales office for other fluids.
Max. Pressure	350 bar
Rated Flow	240 lpm
Max. Contamination Level	BS5540/4 Class 18/16/13 (25µ nominal)
Viscosity Range	5 to 500 cSt
Leakage Flow	Less than 0.6 ml/min (10 dpm)
Hydraulic Fluid Temp.	-20°C to +90°C (Standard Seals)
Mounting	Line/Subplate
Peak Pressure	400 bar
Max. Flow	240 lpm
Seal Kit Number	SKOSC145 (Nitrile)

### ORDERING CODE

<b>OSC145 F 35 N 5</b>	
BASIC CODE	AREA RATIO
OSC 145 - Cartridge/Line Body	5: Ratio of 5:1
ADJUSTMENT	*other ratios available on request
F: Screw Adjustment	SEALING
PRESSURE RANGE	N: Nitrile
20: 140 to 225 bar. Std setting 190 bar	
35: 220 to 350 bar. Std setting 270 bar	

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