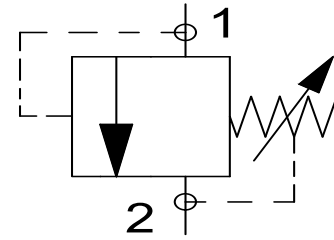
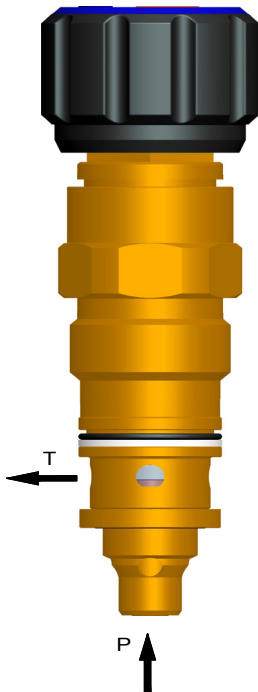


Relief valve
Direct Acting ,Piston Type



- $Q_{(max)}=40 \text{ lpm}$, $P_{(max)}=320 \text{ bar}$
- Screw -in Cartridge,
- Direct Acting , Balanced Piston Design



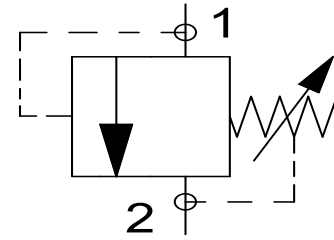
- **Balanced Piston Type design**
insures low pressure override and greater stability.
- **Overset Protection** -Spring cannot go solid.
- **Quick Reponse** to load change in hydraulic system with **low internal leakage**
- Available in **Leakproof screw adjustment / Fixed setting cap.**
- 3 Pressure ranges available (**30-95 bar, 95-210 bar ,210-320 bar**).
- All external parts are **zinc plated ,chromated (CrVI-Free)**.

1. Description -

SH series cartridge valves are **Screw-in, Direct Acting, Balanced Piston type**, high performance Pressure relief valves. This cartridge offers excellent response to load change in hydraulic system requiring low internal leakage. Pressure (From Pump) should be connected to P-port (as shown).

while T-port is connected to T-line. This relief valve can be used in manifold blocks & line mounting bodies. All external parts of this cartridge are Zinc-plated and chromated (CrVI-free) poppet is hardened and thus suitable to be used in harshest environmental conditions.

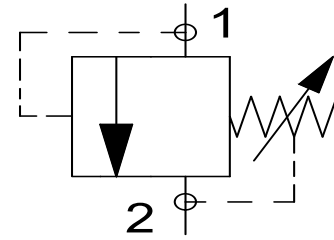
Relief valve
Direct Acting ,Piston Type



2. Technical Data :

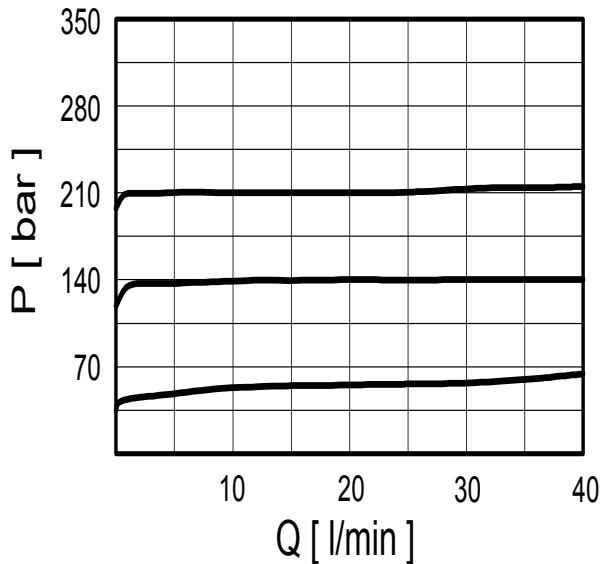
S.no.	General Specification	Values
1.	DESIGNATION	DIRECT ACTING RELIEF VALVE
2.	MOUNTING METHOD	SN-01 CAVITY
3.	MAXIMUM OPERATING PRESSURE	320 BAR
4.	MAXIMUM FLOW	40 LPM
5.	MAXIMUM INTERNAL LEAKAGE	0.25 CC/MIN
6.	RESEAT PRESSURE	95% OF CRACK PRESSURE
7.	VALVE HOUSING	$P_{Hydraulic\ system} \leq 210\text{ BAR}$ -ALUMINUM HOUSING-ANODISED $P_{Hydraulic\ system} > 210\text{ BAR}$ -STEEL HOUSING -ZINC PLATED
8.	OPERATING TEMPERATURE	-20° TO +90° C
9.	HYDRAULIC FLUID	MINERAL OILS WITH LUBRICATING PROPERTIES AT 15.....250 MM ² /SEC
10.	MINIMUM FLUID CLEANINESS	CLASS 20/18/15
11.	WEIGHT	0.13 KG
12.	INSTALLATION TORQUE	40-50 N/M

Relief valve
Direct Acting ,Piston Type

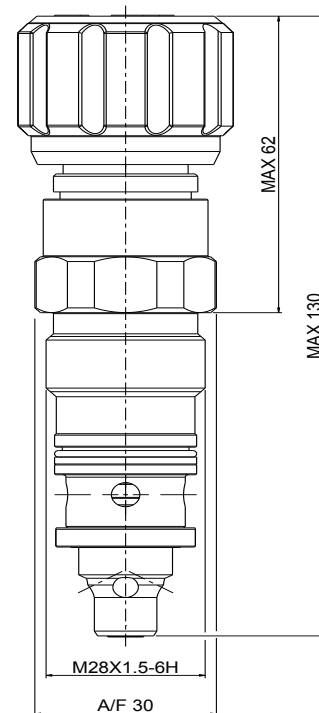


3. P-Q Characteristics :

Note: The Performance Chart shows Flow handling capacity at specific pressure setting P/Q Curve is recorded at Temp_{oil} = 40° C at 46 cst.



4. Dimensioning :



5. Ordering Code :

SH - 01 - X - X - X - XXX

VALVE BASIC CODE

CAVITY TYPE = See Detail of Cavity SN-01

ADJUSTMENT :

- F = FIXED SETTING
- A = ADJUSTMENT SCREW
- K = KNOB

HOUSING & PORTS

- C : Cartridge only
- XA3 : 3/8" BSP
- XB8 : SAE #8
- A : Aluminium Housing
- S : Steel Housing

PRESSURE SETTING (bar)
000 = for no specific setting

SPRING RANGE :

- A = 30-95 bar
- B = 95-210 bar
- C = 210-320 bar