

RE 18320-17/01.10

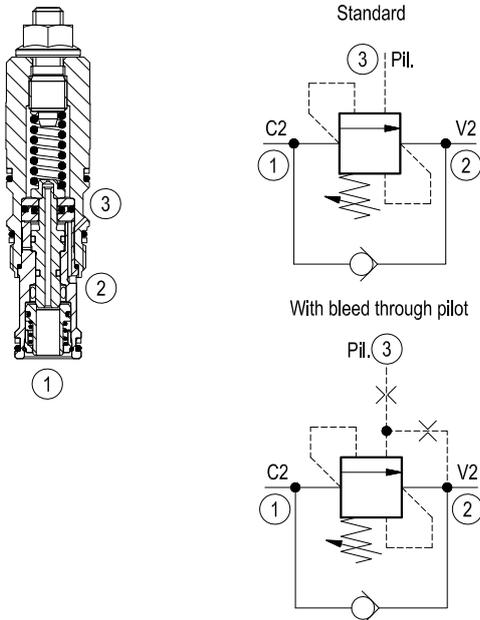
1/2

Replaces: RE 00162-02/01.06

Counterbalance, standard poppet type, differential area, counterclockwise adjustment SUN cavity interchange, T-11A

VBSN-08U-RS

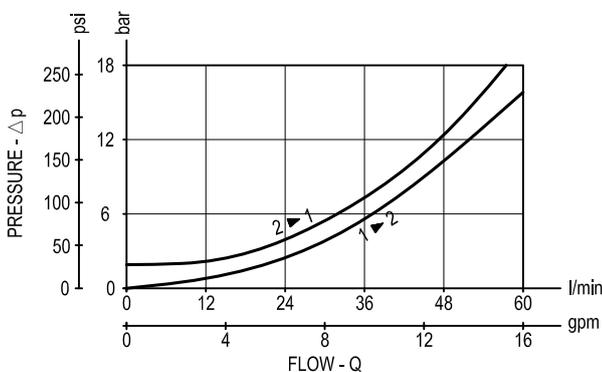
04.52.43 - X - 20 - Z



Description

When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting - turn clockwise to decrease setting), the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. Any back-pressure at 2 is additive to the pressure setting in all functions.

Performance



Technical data

| | | |
|---------------------------|-------------------|--|
| Max. operating pressure | bar (psi) | 350 (5000) |
| Max. flow | l/min. (gpm) | 60 (16) |
| Max. internal leakage (*) | drops/min. | 15 |
| Fluid temperature range | °C (°F) | -30 to 100 (-22 to 212) |
| Installation torque | Nm (ft-lbs) | 40-50 (30-37) |
| Weight | kg (lbs) | 0.19 (0.42) |
| Cavity | | SUN T-11A |
| Seal kit (**) | code material no. | RG08U9020110100 R901193388 |
| Fluids | | Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt) |
| Filtration | | Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14 |
| Installation | | No restrictions |
| Other Technical Data | | See data sheet RE 18350-50 |

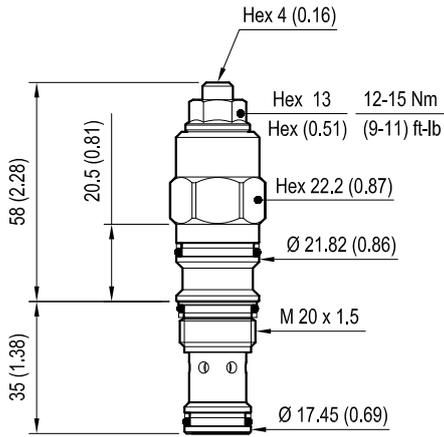
Pressure setting: at least 1.3 times the load induced pressure.

(*) At 70% of pressure setting

(**) Only external seals for 10 valves

Dimensions

Leakproof hex. socket screw



Turn adjustment clockwise to decrease setting and release load

mm (Inches)

Ordering code

| | | | | | |
|-----------------|----------|-----------|----------|-----------|----------|
| 04.52.43 | X | 20 | Z | 00 | * |
|-----------------|----------|-----------|----------|-----------|----------|

Series 0/A to L
unchanged performances and dimensions

Version and options standard

Counterbalance, standard poppet type, differential area, counterclockwise adjustment

Pilot ratio

- = **03** 3:1 standard version
- = **10** 8:1 standard version
- = **31** 1.5:1 with bleed through pilot

SUN cavity interchange, SUN T-11A

SPRINGS

| | | Standard setting bar (psi) | Pres. increase bar/turn (psi/turn) | Cracking pressure bar (psi) |
|----------|-------------|----------------------------|------------------------------------|-----------------------------|
| for X=03 | = 10 | 35-105 (500-1500) | 26 (377) | 70 (1000) |
| | = 20 | 70-210 (1000-3000) | 106 (1537) | 200 (2900) |
| | = 35 | 140-350 (2000-5000) | 165 (2393) | 350 (5000) |
| for X=10 | = 20 | 70-210 (1000-3000) | 40 (580) | 200 (2900) |
| | = 35 | 140-350 (2000-5000) | 70 (1015) | 350 (5000) |
| for X=31 | = 20 | 70-210 (1000-3000) | 106 (1537) | 200 (2900) |
| | = 35 | 140-350 (2000-5000) | 165 (2393) | 350 (5000) |

Note: Special settings available. Contact factory authorized representative for ordering code

| Type | Material number |
|-----------------|-----------------|
| 045243032010000 | R930006109 |
| 045243032020000 | R930006110 |
| 045243032035000 | R930006111 |
| 045243102020000 | R930006112 |
| 045243102035000 | R930006113 |

| Type | Material number |
|-----------------|-----------------|
| 045243312020000 | R930006114 |
| 045243312035000 | R930006115 |