



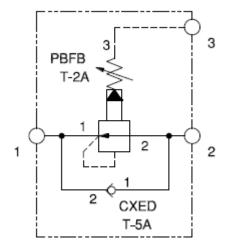
Pressure reducing assembly with reverse flow check

**CAPACITY: 20 gpm** 



sunhydraulics.com/model/YPFA

This assembly consists of a pilot-operated, pressure reducing valve which reduces a high primary pressure at the inlet (port 2) to a constant reduced pressure at port 1. A check valve allows free reverse flow from port 1 to 2. Port 3 is the drain.



## **TECHNICAL DATA** NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Body Type	Line mount
Capacity	20 gpm
Mounting Hole Diameter	.28 in.
Mounting Hole Quantity	2

**NOTES:** • *Important:* Carefully consider the maximum system pressure. The pressure rating of the manifold is dependent on the manifold material, with the port type/size a secondary consideration. Manifolds constructed of aluminum are not rated for pressures higher than 3000 psi (210 bar), regardless of the port type/size specified.

• For detailed information regarding the cartridges contained in this assembly, click on the models codes shown in the Included Components tab.

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### **OPTION SELECTION EXAMPLE: YPFALANWNNK**

#### CONTROL ADJUSTMENT RANGE (A) SEAL MATERIAL **SEAL MATERIAL** MINIMUM CONTROL (N) PORT AND MATERIAL (W) **PRESSURE** DESIGNATION (K) Standard Screw 100 - 3000 psi (7 -N Buna-N N Buna-N Adjustment 210 bar), 200 psi Ports 1 & amp; 2 W 100 psi (7 bar) Viton ٧ Viton (14 bar) Standard — SAE 10; Port 3 25 psi (1,7 bar) Tamper Resistant -— SAE 6; Setting Factory Set Aluminum 50 - 1500 psi (3,5 -Handknob 105 bar), 200 psi Α Ports 1 & amp; 2 Hex Wrench (14 bar) Standard — 1/4" NPTF; Adjustment Port 3 — 1/4" Setting Tri-Grip Handknob NPTF; Aluminum 150 - 6000 psi (10,5 - 420 bar), 200 psi Ports 1 & amp; 2 (14 bar) Standard - 1/4" NPTF; Setting Port 3 — 1/4" NPTF: Iron 25 - 800 psi (1,7 -55 bar), 200 psi (14 В Ports 1 & amp; 2 bar) Standard - 3/8" NPTF; Port 3 — 1/4" Setting NPTF; Aluminum 25 - 400 psi (1,7 -28 bar), 200 psi (14 Ports 1 & amp; 2 bar) Standard - 3/8" NPTF; Port 3 — 1/4" Setting NPTF; Iron 60 - 800 psi (4 - 55 Ports 1 & amp; 2 bar), 200 psi (14 С bar) Standard - 1/2" NPTF: Port 3 — 1/4" Settina NPTF; Aluminum 60 - 400 psi (4 - 28 bar), 200 psi (14 Ports 1 & amp; 2 bar) Standard - 1/2" NPTF; Port 3 — 1/4" Setting NPTF; Iron 150 - 4500 psi (10,5 - 315 bar), 200 psi Ports 1 & amp; 2 (14 bar) Standard - 3/4" NPTF; Setting Port 3 — 1/4" NPTF; Aluminum D/S Ports 1 & amp; 2 - 3/4" NPTF; Port 3 — 1/4" NPTF; Iron Ports 1 & amp; 2 - SAE 6; Port 3 — SAE 6; Aluminum Ports 1 & amp; 2 I/S - SAE 6; Port 3 - SAE 6; Iron Ports 1 & amp; 2 - SAE 8; Port 3 - SAE 6; Aluminum Ports 1 & amp; 2 - SAE 8; Port 3 - SAE 6; Iron K/S Ports 1 & amp; 2 - SAE 10; Port 3 - SAE 6; Iron Ports 1 & amp; 2 - 3/8" BSPP; Port 3 — 1/4" BSPP; Aluminum Ports 1 & amp; 2 U/S

- 3/8" BSPP; Port 3 — 1/4 of 4

BSPP; Iron

# PORT AND MATERIAL DESIGNATION (K)

Ports 1 & amp; 2 — 1/2" BSPP; Port 3 — 1/4" BSPP; Aluminum V/S Ports 1 & amp; 2 — 1/2" BSPP; Port 3 — 1/4" BSPP; Iron Ports 1 & amp; 2 — 3/4" BSPP; Port 3 — 1/4" BSPP; Aluminum W/S Ports 1 & amp; 2 - 3/4" BSPP; Port 3 — 1/4" BSPP; Iron

## **TECHNICAL FEATURES**

- Pilot operated valves exhibit exceptionally flat pressure/flow characteristics, are very stable and have low hysteresis.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 3000 psi (210 bar).

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