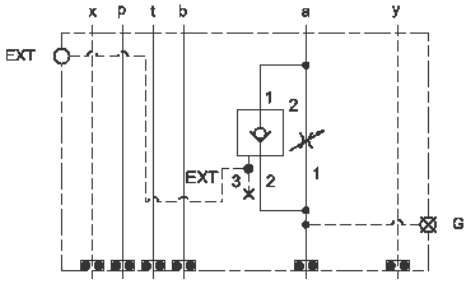
MODEL

YFGC

Rapid advance and feed flow control assembly

CAPACITY: 60 gpm

sunhydraulics.com/model/YFGC



This assembly consists of a needle valve which is a fully-adjustable orifice used to regulate flow. It is infinitely adjustable from fully closed up to the maximum orifice diameter. It is not pressure-compensated. It may be used as a flow control or as a shutoff valve. The rapid or feed rate is selected by a vented, pilot-to-open check valve with an external pilot port.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Body Type	Sandwich
Interface	ISO 08
Capacity	60 gpm
Body Features	Meter in A
Control Flow Range	0 - 30 gpm
Seal Plate Included (see notes)	No
Stack Height	3.44 in.

NOTES:

- The external 1/4 NPTF pilot port is part of the pilot to open check cartridge.
- Seal retainer plate is not required for this assembly.
- For detailed information regarding the cartridges contained in this assembly, click on the models codes shown in the Included Components tab.
- ***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.

OPTION SELECTION EXAMPLE: YFGCLENCA

CONTROL		(L)
L	Standard Screw Adjustment	
H	Calibrated Handknob with Detent Lock	
K	Handknob	
Y	Tri-Grip Handknob	

MAXIMUM ORIFICE DIAMETER		(E)
E	.38 in. (9,7 mm)	
F	.28 in. (7,1 mm)	

SEAL MATERIAL		(N)
N	Buna-N	
V	Viton	

PRIMARY CARTRIDGE		(C)
C	C (with NFEC primary cartridge, Fully adjustable needle valve)	

INCLUDED COMPONENTS

Part	Description	Quantity
340-001*	Pipe Plug	1
340-003*	Pipe Plug	1
500-001-114*	O-Ring	2
500-001-121*	O-Ring	4
811-001-002*	Locating Pin	1
CKGBPCN	Cartridge	1
NFECLEN	Cartridge - Primary	1

TECHNICAL FEATURES

- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- A balanced adjustment mechanism allows for easy adjustment even at high pressures.
- Because needle valves are non-compensating devices, the fixed orifice size will regulate flow through the valve in proportion to the square root of the pressure differential across ports 1 and 2.