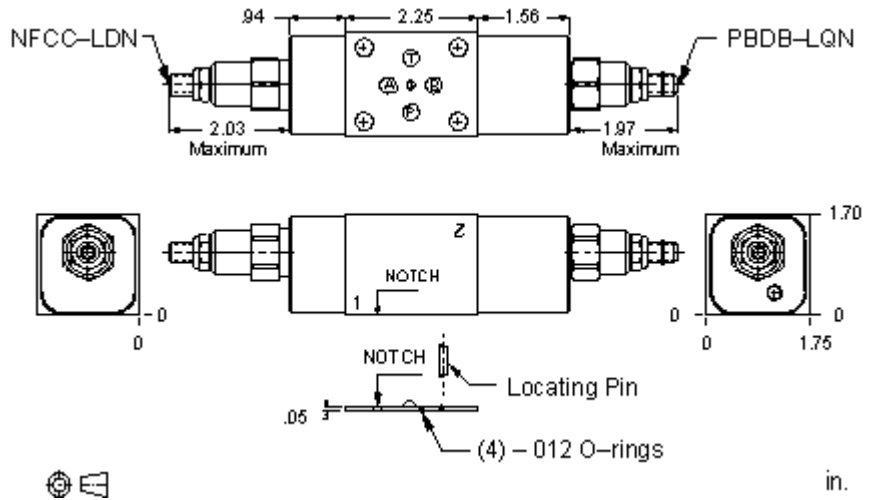




Pilot choke



This assembly consists of pilot-operated, pressure reducing valve which reduces a high primary pressure at the inlet (P port) to a constant reduced pressure downstream. Additionally, the assembly provides speed control via a fully adjustable needle valve from ports A and B to T. This arrangement is also known as pilot choke when used in conjunction with an ISO 03 solenoid directional valve to pilot a larger valve.

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

Body Type	Sandwich
Interface	ISO 03
Capacity	10 gpm
Body Features	On P
Seal Plate Included (see notes)	Yes
Stack Height	1.75 in.

- NOTES:**
- Stack height value in technical data table includes seal retainer plate.
 - 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: YNAALCNAA

CONTROL	(L)	MAXIMUM ORIFICE DIAMETER	(C)	SEAL MATERIAL	(N)
L	Standard Screw Adjustment	C	.19 in. (4,8 mm)	N	Buna-N
H	Calibrated Handknob with Detent Lock	D	.09 in. (2,3 mm)	V	Viton
K	Handknob				

PRIMARY CARTRIDGE	(A)
A	A (with NFCC primary cartridge, Fully adjustable needle valve)

INCLUDED COMPONENTS

Part	Description	Quantity
500-001-012*	O-Ring	4
700-002*	Seal Plate	1
811-001-006*	Pin	1
850-004-250*	Plug	1
NFCCLCN	Cartridge - Primary	1
PBDBLQN	Cartridge	1

TECHNICAL FEATURES

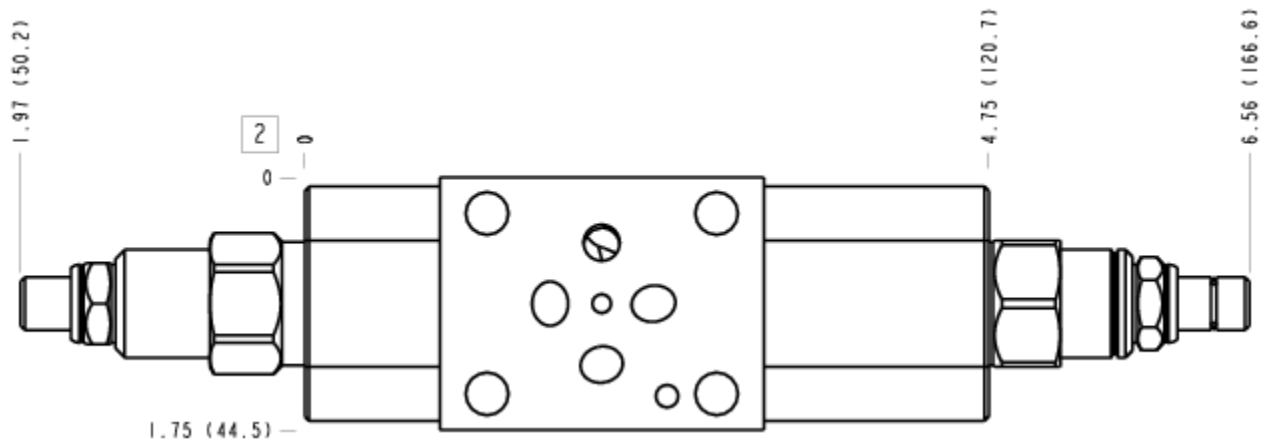
- Full reverse flow from reduced pressure (port 1) to inlet (port 2) may cause the main spool to close. If reverse free flow is required in the circuit, consider adding a separate check valve to the circuit.
- Minimum setting is 75 psi (5 bar) for all spring ranges.
- Pilot operated valves exhibit exceptionally 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).
- 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.

MANIFOLD FACES

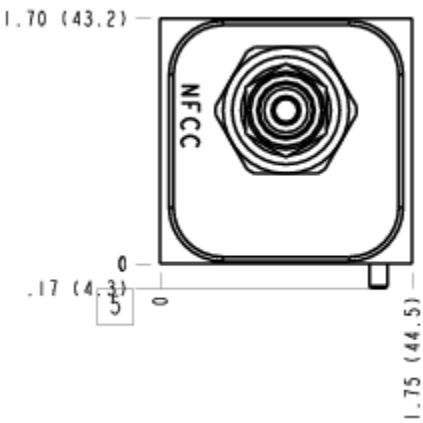
FACE GRID

1	2	3	4
5	6	7	8
9	10	11	12

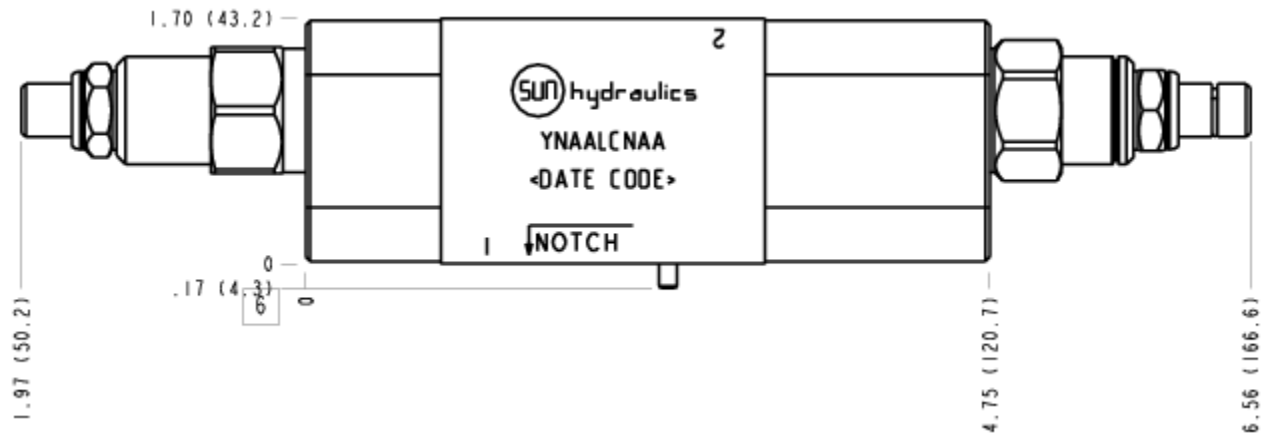
FACE 2



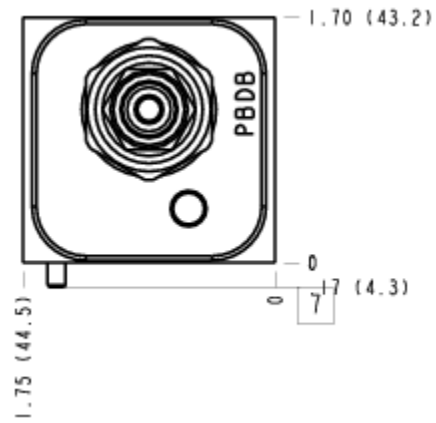
FACE 5



FACE 6



FACE 7



FACE 10

