

General Description.

Series ZRE pilot operated check valves are designed for maximum flow rates and long life time.

The valves are typically used in combination with spool type directional control valves to ensure leak free positioning of the actuator.

The inlet flow is free while the outlet flow is blocked. Pressure in the inlet line opens the check valve and allows free outlet flow.

Features

- High life time.
- Check function in A, B or A + B.
- Sizes:
 - ZRE01 – NFPA D03 / NG6 / CETOP 3
 - ZRE02 – NFPA D05 / NG10 / CETOP 5

Ordering Information

ZRE

Pilot Operated
Check Valve



Port
Option

Code	Description
A	Blocked in A
B	Blocked in B
AB	Blocked in A and B



Size

Code	Description
01	NFPA D03 / NG6
02	NFPA D05 / NG10



Design
Series

Code	Description
D	Size 01
E	Size 02



Seal

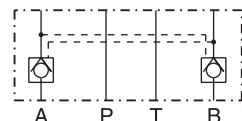
Code	Description
1	Nitrile
5	Fluorocarbon

Weight:

ZRE*01	1.2 kg (2.6 lbs)
ZRE*02	3.1 kg (6.8 lbs.)

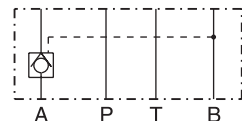
ZRE01

blocked in A and B



Series
ZREAB01D1

blocked in A



Series
ZREA01D1

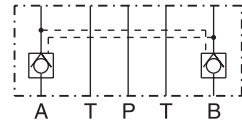
blocked in B



Series
ZREB01D1

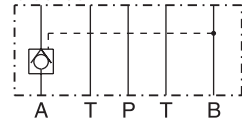
ZRE02

blocked in A and B



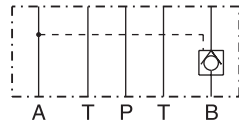
Series
ZREAB02E1

blocked in A



Series
ZREA02E1

blocked in B



Series
ZREB02E1

Denison Sandwich.indd, dd

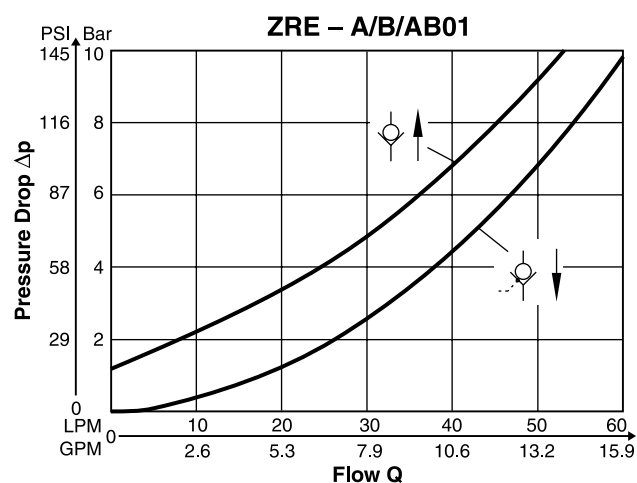
Specifications

General		
Size	NG6	NG10
Mounting Interface	DIN 24340 A6 ISO 4401 NFFA D03 CETOP RP 121	DIN 24340 A10 ISO 4401 NFFA D05 CETOP RP 121 5
Mounting Position	Unrestricted	
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)	
Hydraulic		
Max. Operating Pressure	350 Bar (5075 PSI)	
Nominal Flow	60 LPM (15.9 GPM)	120 LPM (31.7 GPM)
Opening Ratio (Pilot Cone/Main Cone)	1:6	1:6
Cracking Pressure	1.2 Bar (17.4 PSI)	2.0 Bar (29.0 PSI)
Fluid	Hydraulic oil in accordance with DIN 51524 ... 51525	
Fluid Temperature	-20°C to +80°C (-4°F to +176°F)	
Viscosity Permitted Recommended	10 to 650 cSt / mm²/s (46 to 3013 SSU) 30 cSt / mm²/s (139 SSU)	
Filtration	ISO 4406 (1999) 18/16/13 (acc. NAS 1638: 7)	

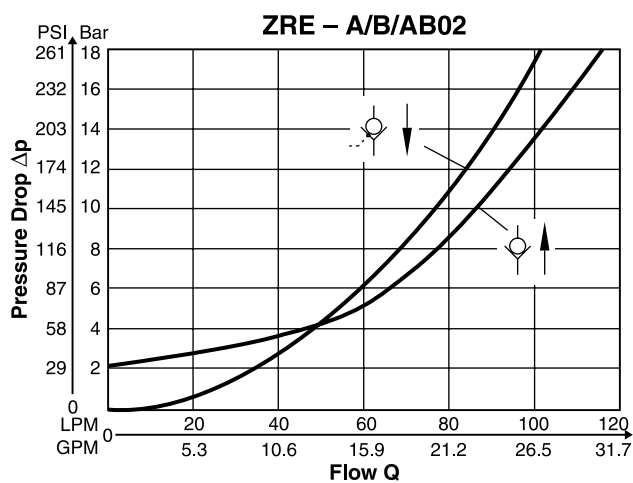
Performance Curves

p/Q

ZRE01



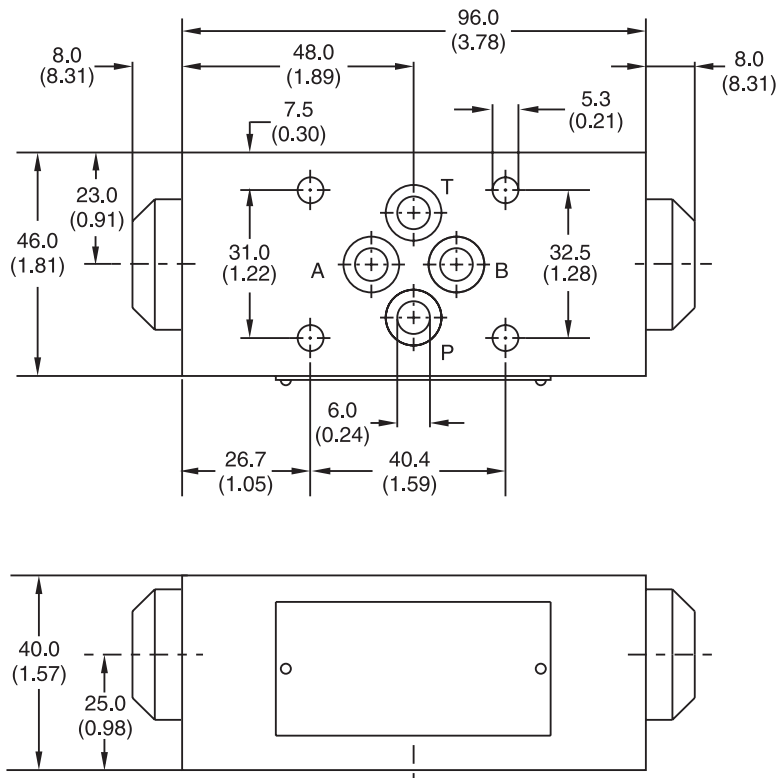
ZRE02



Fluid Viscosity 30 cSt at 50°C (122°F).

ZRE01

Inch equivalents for millimeter dimensions are shown in (**)

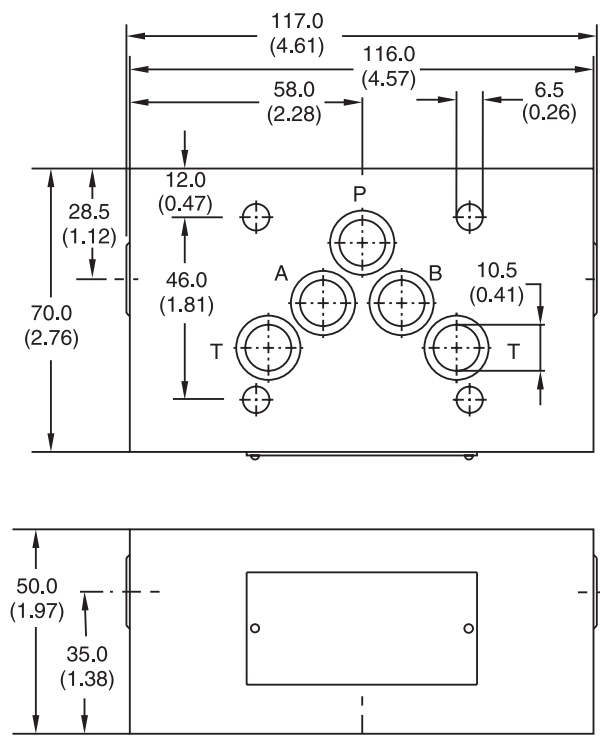


Seal Kit	
Seal	Order Code
1	098-91088-0
5	098-91089-0

B

ZRE02

Inch equivalents for millimeter dimensions are shown in (**)



Seal Kit	
Seal	Order Code
1	098-91090-0
5	098-91091-0

