

**General Description**

Series ZDR pilot operated pressure reducing valves are designed for maximum flow rates.

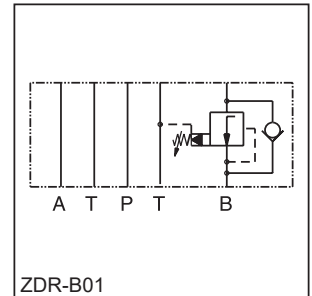
The reducing function can be located in the ports P, A or B. The sizes NG06 and NG10 are equipped with an integral return flow check valve (reducing function in A or B).

**B**
**Features**

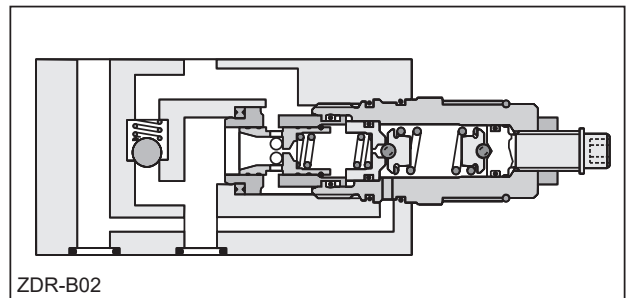
- High flow capacity.
- Sizes::
  - ZDR01 – NFPA D03 / NG6 / CETOP 3
  - ZDR02 – NFPA D05 / NG10 / CETOP 5
- With integral return flow check valve.



ZDR-P01



ZDR-B01



ZDR-B02

**Specification**

General		
<b>Size</b>	<b>NG6</b>	<b>NG10</b>
<b>Mounting Interface</b>	DIN 24340 A6 ISO 4401 NFPA D03 CETOP RP 121	DIN 24340 A10 ISO 4401 NFPA D05 CETOP RP 121
<b>Mounting Position</b>	Unrestricted	
<b>Ambient Temperature Range</b>	-20°C to +50°C (-4°F to +122°F)	
Hydraulic		
<b>Maximum Operating Pressure</b>	up to 350 Bar (5075 PSI); ZDR-AR / BR up to 315 Bar (4568 PSI)	
<b>Nominal Flow</b>	80 LPM (21.2 GPM)	120 LPM (31.7 GPM)
<b>Pilot Oil</b>	0.2 LPM (0.1 GPM)	0.3 LPM (0.1 GPM)
<b>Fluid</b>	Hydraulic oil as per DIN 51524 ... 51525	
<b>Fluid Temperature</b>	-20°C to +80°C (-4°F to +176°F)	
<b>Viscosity</b>	<b>Permitted</b>	10 to 650 cSt / mm <sup>2</sup> /s (46 to 3013 SSU)
	<b>Recommended</b>	30 cSt / mm <sup>2</sup> /s (139 SSU)
<b>Filtration</b>	ISO Class 4406 (1999) 18/16/13 (acc. NAS 1638: 7)	

**WARNING:** This product can expose you to chemicals including Lead, Nickel (Metallic), or 1,3-Butadiene which are known to the State of California to cause cancer, and Lead or 1,3-Butadiene which is known to the State of California to cause birth defects and other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Ordering Information**

<b>ZDR</b> Pressure Reducing Valve	Port Option	Size	Pressure Range	<b>S0</b> Hexagon Screw with Lock Nut	<b>D</b> Design Series	Seal
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Code	Description
01	NFPA D03 / NG6
02	NFPA D05 / NG10

Code	Description
1	up to 100 Bar (1450 PSI)
5*	up to 350 Bar (5075 PSI)

\* AR/BR 325 Bar (4568 PSI)

Code	Description
1	Nitrile
5	Fluorocarbon

Code	Size	Description
P	01/02	Pressure reducing in P with pressure gauge port M
AR	01/02	Pressure reducing in A with check valve
BR	01/02	Pressure reducing in B with check valve

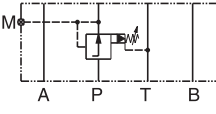
  

**Weight: ZDR-P**  
 ZDR\*01 1.6 kg (3.5 lbs.)  
 ZDR\*02 2.9 kg (6.4 lbs.)

**ZDR-AR/BR**  
 1.8 kg (4.0 lbs.)  
 3.0 kg (6.6 lbs.)

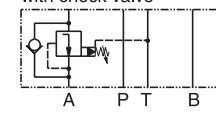

**ZDR01**

Pressure reducing in P with pressure gauge port M



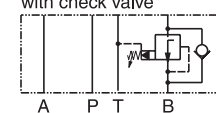
Series  
ZDRP011S0D1  
ZDRP015S0D1

Pressure reducing in A with check valve



Series  
ZDRAR011S0-D1  
ZDRAR015S0-D1

Pressure reducing in B with check valve

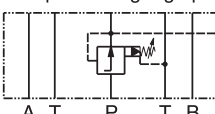


Series  
ZDRBR011S0D1  
ZDRBR015S0D1

1 = 7 ... 140 Bar (102 ... 1450 PSI)  
 5 = 7 ... 315 Bar (102 ... 4568 PSI)

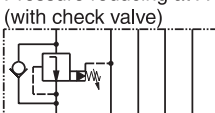
**ZDR02**

Pressure reducing at P with pressure gauge port M



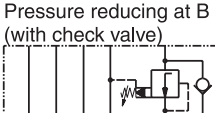
Series  
ZDRP021S0D1  
ZDRP025S0D1

Pressure reducing at A (with check valve)

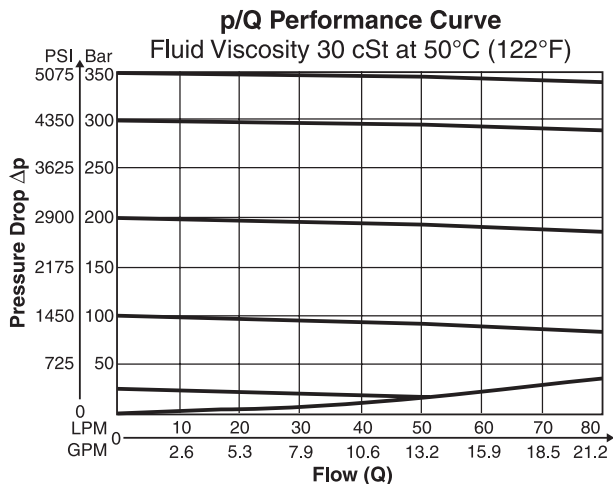
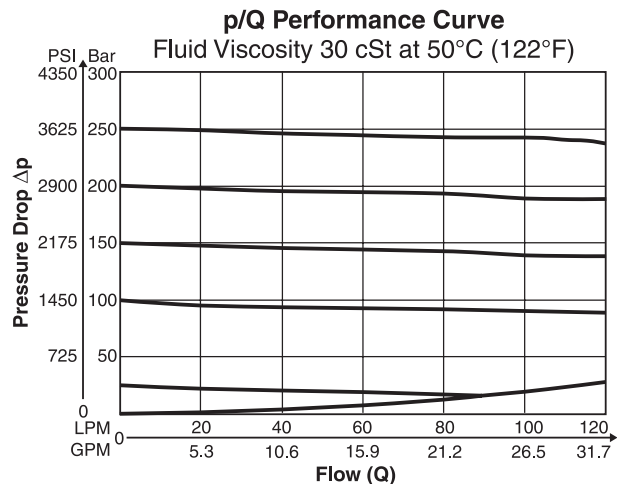


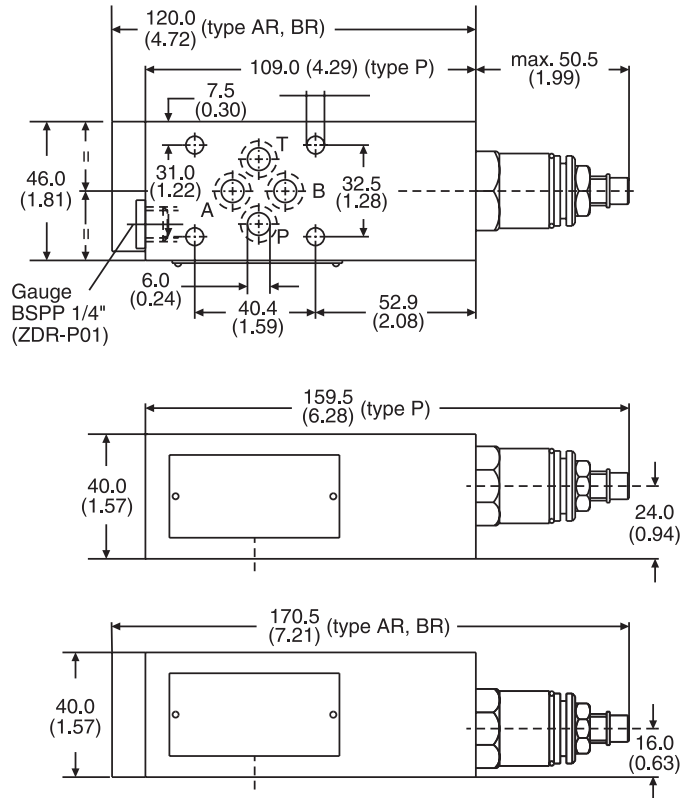
Series  
ZDRAR021S0D1  
ZDRAR025S0D1

Pressure reducing at B (with check valve)

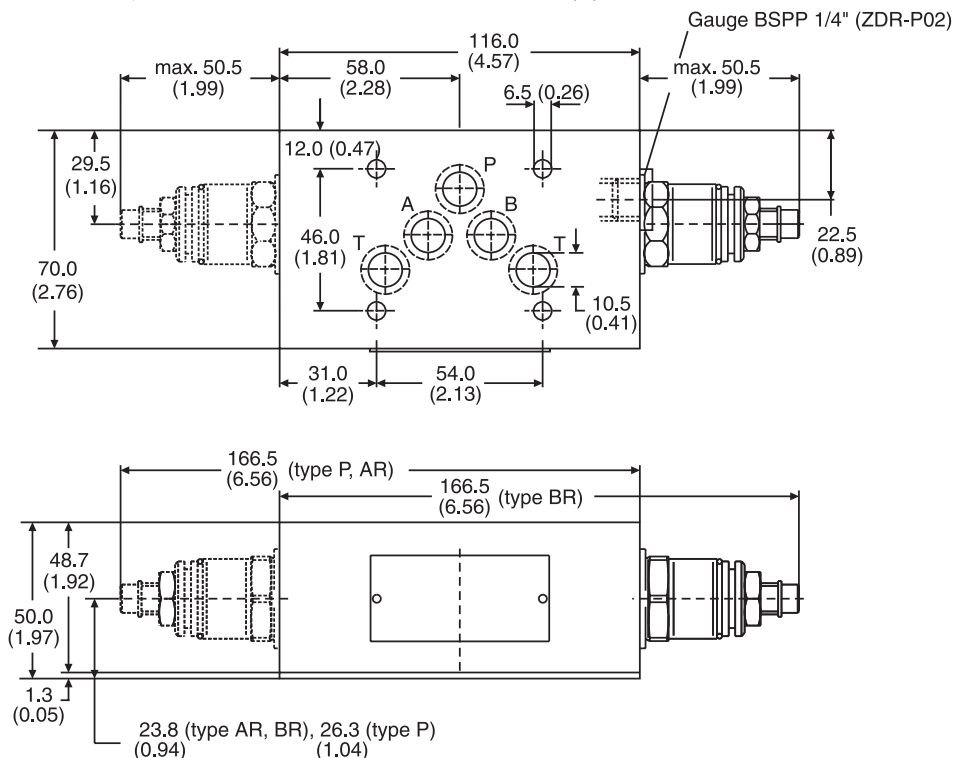


Series  
ZDRBR021S0D1  
ZDRBR025S0D1

**Performance Curves**
**ZDR-P/AR/BR01**

**ZDR-P/AR/BR02**


**ZDR01** – Inch equivalents for millimeter dimensions are shown in (\*\*)


Seal Kit	
Seal	Order Code
1	098-91184-0
5	098-91185-0
Complete Cartridge	
Seal	Order Code
1	098-91102-0
5	098-91103-0

**ZDR02** – Inch equivalents for millimeter dimensions are shown in (\*\*)


Seal Kit	
Seal	Order Code
1	098-91182-0
5	098-91183-0
Complete Cartridge	
Seal	Order Code
1	098-91102-0
5	098-91103-0