Characteristics / Ordering Code

Throttle check valves series ZRD are designed for maximum flow rates.

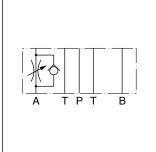
The throttle check function can be located in port A or B as well as in A + B. Meter-in or meter-out functionality can be selected by model code.

A low flow / high resolution version in NG06 for sensitive shifting time adjustment of pilot operated directional control valves is available on request.

Features

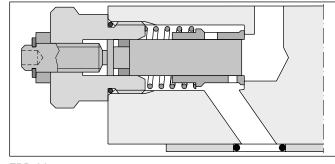
- High flow capacity
- Various functional arrangements
- ZRD01 NG06 (CETOP 03) ZRD02 - NG10 (CETOP 05)





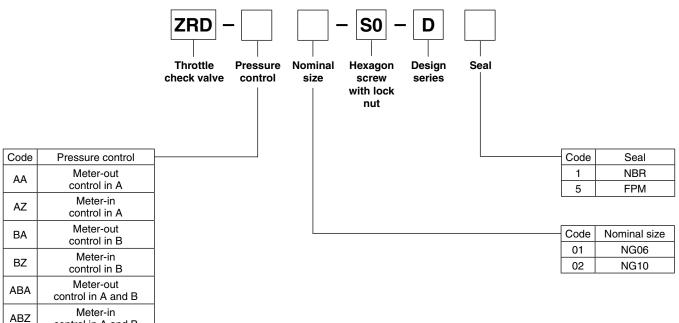
ZRD-ABZ01

ZRD-AA02



ZRD-AA02

Ordering code



Ordering code details see end of chapter.

control in A and B



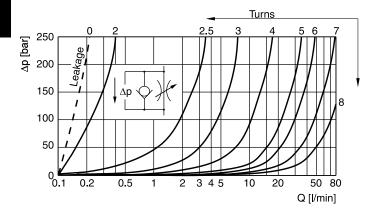
ZRD UK.INDD CM 19.02.18

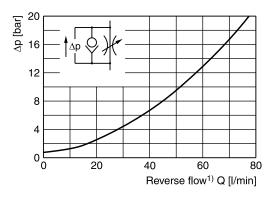
Technical Data / Characteristic Curves

Technical data

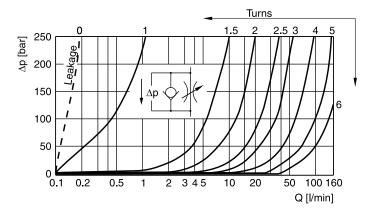
General					
Size			NG06	NG10	
Mounting interface			DIN 24340 A6 ISO 4401 NFPA D03	DIN 24340 A10 ISO 4401 NFPA D05	
Mounting position			CETOP RP 121 unrestricted		
Ambient temperature [°C]			-20+60		
MTTF _D value		[years]			
Weight	1 cartridge	[kg]	1.2	2.8	
	2 cartridges	[kg]	1.3	2.9	
Hydraulic					
Max. operating pressure		[bar]	350	315	
Nominal flow		[cSt] / [l/min]	80	160	
Leakage		[cSt] / [l/min]	0.10.2 (at closed throttle)	0.10.2 (at closed throttle)	
Opening pressure		[bar]	0.7	0.7	
Fluid			Hydraulic oil according to DIN 51524		
Fluid temperature [°C]			-20+70 (NBR: -25+70)		
Viscosity,	permitted	[cSt] / [mm ² /s]	20 400		
	recommended	[cSt] / [mm ² /s]	30 80		
Filtration			ISO 4406 (1999); 18/16/13		

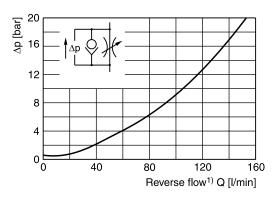
p/Q performance curves **ZRD*01**





ZRD*02





All characteristic curves measured with HLP46 at 50 °C.

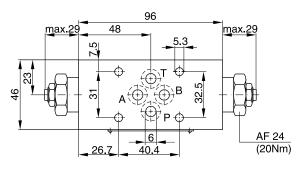
ZRD UK.INDD CM 19.02.18



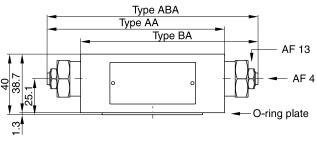
¹⁾ Throttle closed.

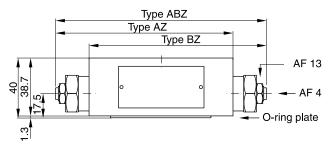
Dimensions

ZRD*01

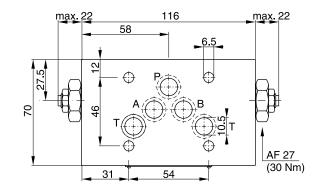


Seal kit			
Seal	Order code		
1	098-91096-0		
5	098-91097-0		
Complete cartridge			
Order code 098-91119-0			
O-ring plate	Order code		
1	SK-CM2-10		
5	SK-CM2-V-10		

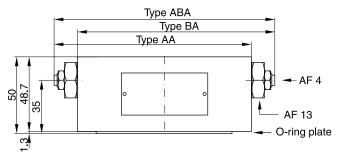


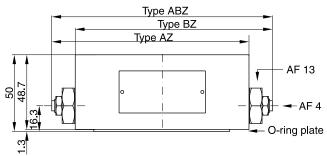


ZRD*02



Seal kit			
Seal	Order code		
1	098-91098-0		
5	098-91099-0		
Complete cartridge			
Order code 098-91120-0			
O-ring plate	Order code		
1	SK-CM3-10		
5	SK-CM3-V-10		







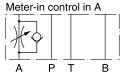
ZRD UK.INDD CM 19.02.18



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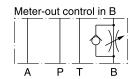
Ordering Code Details

ZRD*01

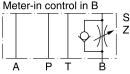


ZRD-AZ01-S0-D1



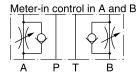


Order No. ZRD-BA01-S0-D1 098-91013-0

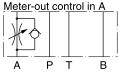


Series ZRD-BZ01-S0-D1

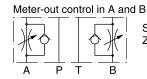




Order No. ZRD-ABZ01-S0-D1 098-91058-0

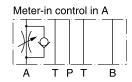


Order No. ZRD-AA01-S0-D1 098-91012-0



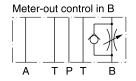
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ZRD*02

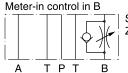


Series ZRD-AZ02-S0-D1

Order No. 098-91059-0

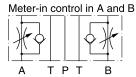


Series Order no. ZRD-BA02-S0-D1 098-91016-0

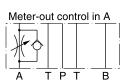


Series ZRD-BZ02-S0-D1

Order No. 098-91060-0

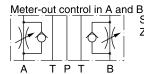


Series Order no. ZRD-ABZ02-S0-D1 098-91061-0



Series ZRD-AA02-S0-D1





Series Order no. ZRD-ABA02-S0-D1 098-91017-0