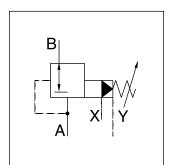
Pilot operated pressure reducing valves for in-line mounting series R4R have a similar design to the subplate mounted R4R series. For single functions - where no manifold blocks are used - the valves can be directly placed in the pipework.

The valves are available with 2 ports (L-body) or with 3 ports (T-body).

Features

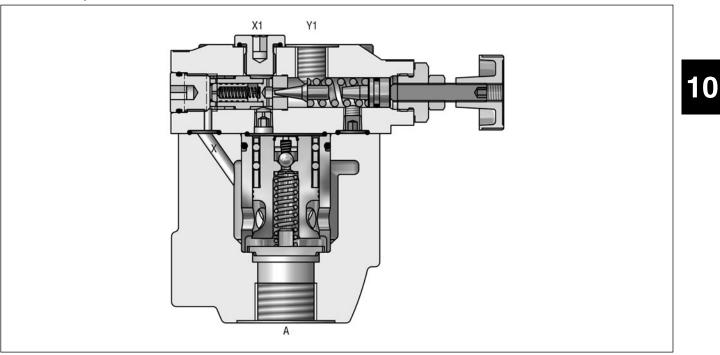
- · Pilot operated with manual adjustment
- Normally closed to avoid undesired motion
- 2 interfaces
 - L-body (R4R06-G¾", R4R10-G1¼") - T-body (R4R03-G½", R4R06-G1")
- 3 pressure stages
- 3 adjustment modes
 - Hand knob
 - Acorn nut with lead seal
 - DIN lock
- With optional vent function





R4R10 L-body

R4R06 L-body





Pilot Operated Pressure Reducing Valve Series R4R (Denison)

	sure redu- Nominal				-	2 -	-		• B	
	ng valve size	Max. pressure 350 bar	Body	Pressure stages	Adjust- ment	Drain line ext. from pilot head (Y1)	Switching type	Solenoid voltage	Design Se series	al Options
ode	Nominal size								Code	Seal
03	NG10 (G½")								1	NBR
06	NG25 (G1" - T-body, G¾" - L-body)								5	FPM
10	NG32 (G1¼")								Code	Colonaid valta
									omit	Solenoid volta Standard w/ vent function
									GOR	12V=
ode	Body								G0Q	24V=
6	R4R03 T-body								GAR	98V=
•	R4R06 T-body								GAG	205V=
D	R4R06 L-body								W06	115V / 50Hz
	R4R10 L-body								W07	230V / 50Hz
ode	Pressure stages								Code	Switching typ
1	up to 105bar									Standard w/
3	up to 210bar								omit	vent function
5	up to 350bar								09 ¹⁾	Solenoid not ac unpress. circulat
	Allerte								11 ²⁾	Solenoid activation of the solenoid activativation of the solenoid activation of the solenoid activati
ode	Adjustment – Hand knob									de-energized:
1	Acorn nut with								oper	n to tank
3	lead seal									energized: ven
4	DIN lock									blocked
(de-energized: line blocked
										energized: ope

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R4R

General		T-bo	dy	L-b	ody		
Size		03 (½")	06 (1")	06 (¾")	10 (1¼")		
Mounting		Threaded body					
Mounting position		unrestricted					
Ambient temperature	[°C]	-20+50					
Weight	[kg]	3.2	3.3	5.6	6.6		
Hydraulic							
Max. operating pressure	Ports A, B and X: 350; Port Y depressurized						
Pressure stages	[bar]	105, 210, 350					
Nominal flow	[l/min]	90	300	300	600		
Fluid		Hydraulic oil as per [DIN 51524525				
Fluid temperature	[°C]	-20+80					
Viscosity permitted [cSt]/[mm ² /s]		10650					
Viscosity recommended	[cSt]/[mm ² /s]	30					
Filtration		ISO 4406 (1999) 18	/16/13 (acc. NAS 1	638: 7)			

R4R with vent function

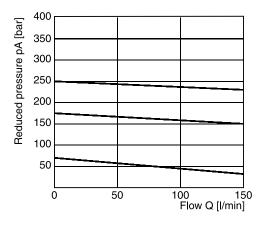
General									
Size		03 (½")		06 (¾")	06 (1")	10 (1¼")	
Mounting		Threaded bo	ody						
Mounting position		unrestricted							
Ambient temperature	-20+50	-20+50							
Weight	4.9			5.0	7.3		8.3		
Hydraulic									
Max. operating pressure	[bar]	Ports A and	X up to 3	850; F	Ports B and Y	depressurize	ed		
Pressure stages	[bar]	105, 210, 35	0			-			
Nominal flow	[l/min]	60			200	200		450	
Fluid		Hydraulic oil	as per D	DIN 5	1524525				
Fluid temperature	[°C]	-20+80							
Viscosity permitted	10650								
Viscosity recommended	30								
Filtration	ISO 4406 (1999) 18/16/13 (acc. NAS 1638: 7)								
Electrical (solenoid)									
Duty ratio	[%]	100							
Response time	[ms]	Energized / d	de-energ	ized	AC: 20/18 , D	DC: 46/27			
		G0R	G00	ג	GAR	GAG	W06	W07	
Supply voltage		12V =	24V	=	98V =	205V =	150 at 50Hz	230 at 50Hz	
Tolerance supply voltage	Code	+510	+5	10	+510	+510	+510	+510	
Power consumption hold		31	31		31	31	78	78	
in rush		31	31		31	31	264	264	
Max. switching frequency	AC: up to7.200, DC: up to 16.000 switchings/hour								
Solenoid connection		Connector as per EN175301-803							
Protection class		IP65 in accordance with EN 60529 (plugged and mounted)							
Coil insulation class		H (180 °C)							

R4R_UK.INDD RH

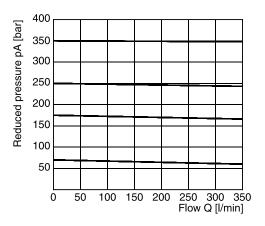


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Reduced pressure pA versus flow Q Series R4R03 ¹⁾

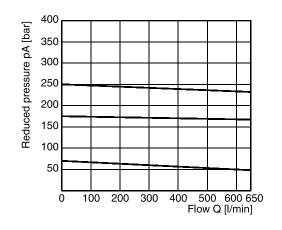


Reduced pressure pA versus flow Q Series R4R06¹⁾



Reduced pressure pA versus flow Q Series PR32M ¹⁾

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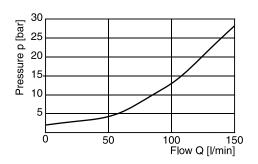


¹⁾ Measured at 350 bar primary pressure pB.

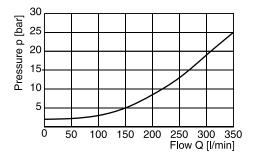
R4R_UK.INDD RH



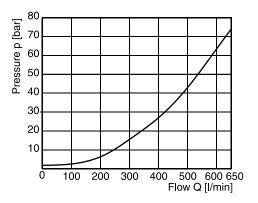
Minimum pressure curve



Minimum pressure curve

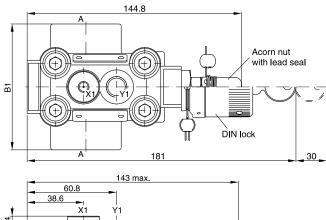


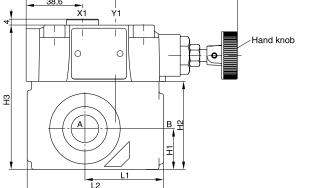
Minimum pressure curve



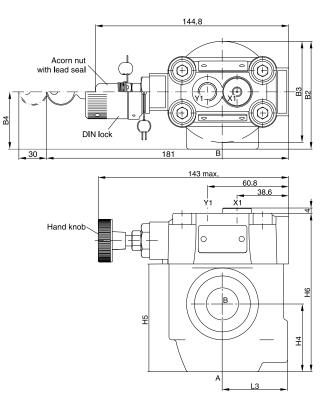
Pilot Operated Pressure Reducing Valve
Series R4R (Denison)

T-body





L-body



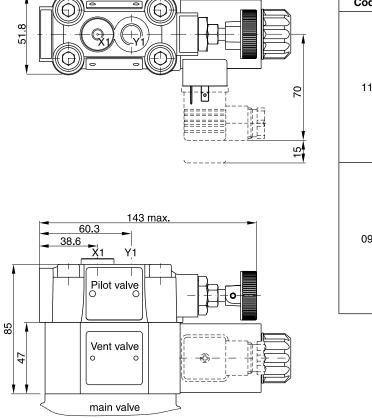
NG	Body	B1	B2	B3	B4	H1	H2	H3	H4	H5	H6	L1	L2	L3
03	T-body	85	-	-	-	27.5	59.5	97.5	-	-	-	53	92	-
06	T-body	136	-	-	-	38	93	131	-	-	-	66.5	117.5	-
06	L-body	-	81	76	43	-	-	-	51	81	119	-	-	49
10	L-body	-	120.7	85.8	77.8	-	-	-	50.8	96	134	-	-	49.8
	Portaiza													

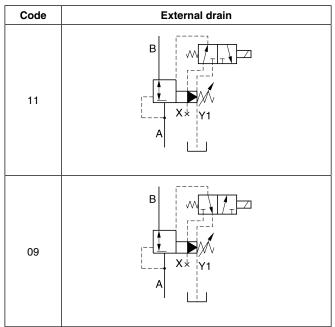
Ports	Function	Port size							
FOILS	Function	R4V03 T-body	R4V06 L-body	R4V06 T-body	R4V10 L-body				
В	pressure (inlet)	G1⁄2 "	G¾ "	G1 "	G1¼ "				
Α	pressure (outlet)	G1⁄2 "	G¾ "	G1 "	G1¼ "				
X1	ext. remote control or vent connection	C1/ "							
Y1	external drain	- G1⁄4 "							

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Dimensions R4R with vent function





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