

R4000 Series (Steel)



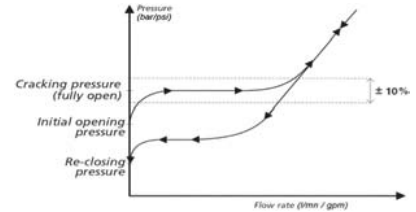
The Eaton R4000 Series steel check valves are designed for multipurpose hydraulic applications to either allow flow of fluid in one direction only or limit the line's internal pressure to the cracking pressure. Standard cracking pressures are 0.5 and 1 bar (7.25 and 14.5 psi). Alternatives can be offered upon request.

Product Features

- Standard body material: Zinc-plated steel
- Standard seal material: NBR, FKM, EPDM

Operating Guidelines

The Eaton R4000 series is designed to handle liquids. Should applications involving gases (but not unstable gases) be considered, the user should certify that sonic frequencies will not exceed 1 Hz (one cycle per second). For further information, please contact Eaton technical support.



European Pressure Equipment Directive

Check valves with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Check valves with nominal diameters greater than 25 mm are designed and manufactured with the stipulations of Module A of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases. Our series R4000 check valves must not be used as safety devices (as per PED 97/23 EC).

Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure**			Rated Flow*		
		bar	(psi)	bar	(psi)	L/min	(gpm)
1/8	3.8	700	10150	700	10150	4.5	1.19
1/4	5.7	700	10150	700	10150	14.2	3.75
3/8	7.6	700	10150	700	10150	22	5.81
1/2	10.3	500	7250	500	7250	32	8.45
3/4	14.2	500	7250	500	7250	72	19
1	16.5	500	7250	500	7250	117	30.9
1 1/4	20.5	300	4350	300	4350	188	49.66
1 1/2	25.8	300	4350	38	550	232	61.29
2	34.7	300	4350	28	405	393	103.81

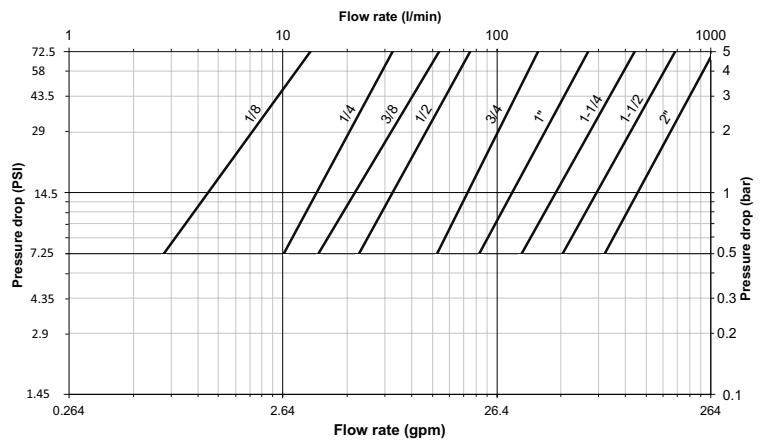
* Indicated values refer to a 1 bar/14.5 psi pressure drop.

** Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets



- All industries
- Agriculture
- Construction
- Fluid transfer lines



Seal Elastomer Data*

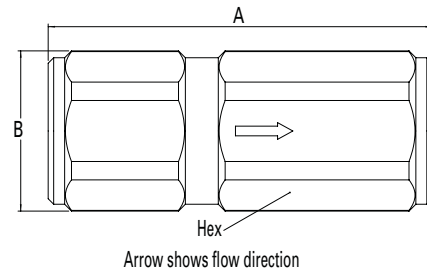
Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C / -4°F +212°F
FKM (Fluorocarbon)	-20°C +200°C / -4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C / -40°F +302°F

* For reference only, based on Eaton recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5

Contact Eaton technical support for further information on fluid compatibility.

R4000 Series (Steel)



Cracking Pressure 0.5 bar (7.25 psi)

Part Number		Body Size	Nominal Flow Diameter	Thread Size* (Female)	Fig.	Dimensions						Weight	
FKM	EPDM	(in)	(mm)	BSPP		A (in)	B (in)	Hex (in)	A (mm)	B (mm)	Hex (mm)	lbs	grams
RZ04000V0	RZ04000E0	1/8	3.8	1/8	1	1.46	0.69	0.63	37	17.5	16	0.10	45
RZ04010V0	RZ04010E0	1/4	5.7	1/4	1	1.97	0.83	0.75	50	21	19	0.18	80
RZ04020V0	RZ04020E0	3/8	7.6	3/8	1	2.36	0.98	0.90	60	25	23	0.29	130
RZ04030V0	RZ04030E0	1/2	10.3	1/2	1	2.75	1.15	1.06	70	29.2	27	0.44	200
RZ04040V0	RZ04040E0	3/4	14.2	3/4	1	3.38	1.50	1.38	86	38	35	0.93	420
RZ04050V0	RZ04050E0	1	16.5	1	1	3.94	1.77	1.61	100	45	41	1.41	640
RZ04060V0	RZ04060E0	1 1/4	20.5	1 1/4	1	5.12	2.40	2.16	130	61	55	3.46	1570
RZ04070V0	RZ04070E0	1 1/2	25.8	1 1/2	1	5.31	2.83	2.56	135	72	65	5.16	2340
RZ04090V0	RZ04090E0	2	34.7	2	1	5.90	3.30	2.95**	150	84	75**	6.57	2980

* Alternative end connections available upon request, depending on size (please contact Eaton technical support).

** Across flat dimension.

Cracking Pressure 1 bar (14.5 psi)

Part Number		Body Size	Nominal Flow Diameter	Thread Size* (Female)	Fig.	Dimensions						Weight	
FKM	EPDM	(in)	(mm)	BSPP		A (in)	B (in)	Hex (in)	A (mm)	B (mm)	Hex (mm)	lbs	grams
RZ04000VB	RZ04000EB	1/8	3.8	1/8	1	1.46	0.69	0.63	37	17.5	16	0.10	45
RZ04010VB	RZ04010EB	1/4	5.7	1/4	1	1.97	0.83	0.75	50	21	19	0.18	80
RZ04020VB	RZ04020EB	3/8	7.6	3/8	1	2.36	0.98	0.90	60	25	23	0.29	130
RZ04030VB	RZ04030EB	1/2	10.3	1/2	1	2.75	1.15	1.06	70	29.2	27	0.44	200
RZ04040VB	RZ04040EB	3/4	14.2	3/4	1	3.38	1.50	1.38	86	38	35	0.93	420
RZ04050VB	RZ04050EB	1	16.5	1	1	3.94	1.77	1.61	100	45	41	1.41	640
RZ04060VB	RZ04060EB	1 1/4	20.5	1 1/4	1	5.12	2.40	2.16	130	61	55	3.46	1570
RZ04070VB	RZ04070EB	1 1/2	25.8	1 1/2	1	5.31	2.83	2.56	135	72	65	5.16	2340
RZ04090VB	RZ04090EB	2	34.7	2	1	5.90	3.30	2.95**	150	84	75**	6.57	2980

* Alternative end connections available upon request, depending on size (please contact Eaton technical support).

** Across flat dimension.



Eaton Quick Disconnect Couplings快速接头代理商：

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