

Manufactured & Marketed by :



diamond ENGINEERING WORKS

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Single & Double Check Valves-QRC



Used in Compressed Air, Hydraulic Fluids, Vacuum, Refrigerants, Steam, Water, Liquid Ammonia, Various Gases, Liquids, Phosphoric Acid Services.

For Fast, Positive, Leakproof Connections

Instant connections without Threading or Twisting / without Tools / without Strains / without Sweat in Seconds

Principle :

QRC works on simple. 'PUSH & PULL' principle. The adaptor when pushed into coupler is securely held by the self locking arrangement resulting in a positive and leak proof connection. This action simultaneously opens the valve and the fluid flow starts. To disconnect, pull back the sleeve of the coupler, the adaptor eject out and the valve shuts off automatically.

Materials :

QRC are manufactured from selected raw materials under strict quality control.

- Body : (I) Available in Brass, Carbon Steel, (From Bar Stock & Chromium Plated).
(II) Available in Aluminium, S.S. 304, S.S. 316, S.S. 316L (From Bar Stock Only).
Spring : Available in Spring Steel S.S. 304 and S.S. 316.
Ball : Available in Steel, S.S. 304, S.S. 316, and S.S. 316L.
Seal Material : Available in - Nitrile, Viton, Neoprene, Silicon, Hypalon, etc.

End Connections : Socket welding, house thread, pipe thread, house shank and flanged.

Types :

- Type - W Double Check Valve QRC
Type - V Single Check Valve QRC
Type - T Without Check Valve QRC
1/8" (3 mm) to 4" (100 mm) depending on types and materials.

Temperature :

QRC can handle fluids from - 25°C to 250°C with right selection of body and seal materials.

Duty Conditions :

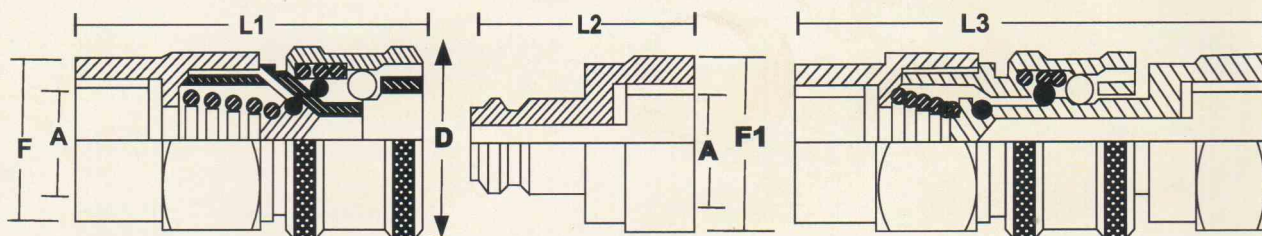
QRC are manufactured to suit six pressure limits as under :

- | | | | | | | | |
|-------|-----------------------------|----|-----------|------|-----------------------------|----|-----------|
| (i) | 20 Kg. / c.m. ² | or | 300 psi. | (ii) | 35 Kg. / c.m. ² | or | 500 psi. |
| (iii) | 70 Kg. / c.m. ² | or | 1000 psi. | (iv) | 205 Kg. / c.m. ² | or | 3000 psi. |
| (v) | 275 Kg. / c.m. ² | or | 4000 psi. | (vi) | 350 Kg. / c.m. ² | or | 5000 psi. |

Applications :

Wide Application On Fluids Line Connections Like Air, Steam, Gases, Liquids, Oil, etc. Used in Fertilizer, Chemical, Petroleum, Furnaces, Textile, Machines, Machine Tools, Refrigeration & Many More Industries.

Dimensional Details of Single Check Valve QRC - V



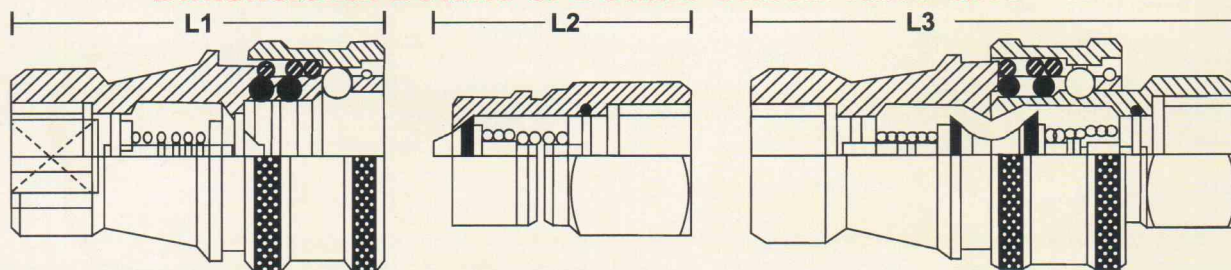
C

A

C+A

No.	Size	Type	A	D In mm	F In mm	F1 In mm	L1 In mm	L2 In mm	L3 In mm	WP PSI
1.	1/8"	QRC - V 1	1/8" BSP	19	16	14	41	27	54	500
2.	1/4"	QRC - V 2	1/4" BSP	24	21	19	53	33	70	500
3.	3/8"	QRC - V 3	3/8" BSP	24	22	22	55	35	73	500
4.	1/2"	QRC - V 4	1/2" BSP	34	28	28	68	42	89	500
5.	3/4"	QRC - V 5	3/4" BSP	40	35	32	83	46	107	500
6.	1"	QRC - V 6	1" BSP	42	50	40	84	50	111	500
7.	1 1/4"	QRC - V 7	1 1/4" BSP	49	50	50	89	54	120	500

Dimensional Details of Double Check Valve QRC - W



C

A

C+A

No.	Size	Type	C	A	C + A	Maximum	Working	Testing
			L1 In mm	L2 In mm	L3 In mm	Diameter In mm	Pressure PSI	Pressure PSI
1.	1/8" BSP	QRC - W 1	44	33	58	23	4000	6000
2.	1/4" BSP	QRC - W 2	58	40	72	32	4000	6000
3.	3/8" BSP	QRC - W 3	66	46	80	38	4000	6000
4.	1/2" BSP	QRC - W 4	71	50	90	44	3500	5000
5.	3/4" BSP	QRC - W 5	77	55	98	48	3000	4500
6.	1" BSP	QRC - W 6	85	63	112	58	3000	4500
7.	1 1/4" BSP	QRC - W 7	94	65	120	72	2000	3000
8.	1 1/2" BSP	QRC - W 8	113	80	144	89	2000	3000
9.	2" BSP	QRC - W 9	127	88	152	105	1000	2000