FR20 Reversing Valve Dualine Systems



General

FR20 Reversing Valves operate in conjunction with two pressure switches, alternating lubricant flow through DC41 end-of-line systems so that lubricant is directed first to one set of Dualine valve inlet ports and then the other, on succeeding system cycles.

Features

- + Each coil has a power-on indicating light located on the terminal box. This is very helpful when troubleshooting a system.
- + Plug-in coils are easily changed without disturbing the wiring.
- + The new FR20 is completely interchangeable with existing FR10.

Technical Data

37149-115-X		37149-230-X		37149-24-X
110 VAC	120 VAC	220 VAC	240 VAC	24 VDC
50 Hz	60 Hz	50 Hz	60 Hz	
0.46 amp	0.49 amp	0.22 amp	0.24 amp	1.5 amp
31 W	34 W	30 W	33 W	36 W
80-130 V	80-130 V	180-250 V	180-250 V	21.6-26.4 V
5000 psi (345 bar)			
12 gpm (45 liter)				
80 SUS oil to NLGI grade 2 grease				
Available in 1/2" NPTF or 1/2" BSPT				
1/2" conduit- each end				
	110 VAC 50 Hz 0.46 amp 31 W 80-130 V 5000 psi (345 bar 12 gpm (45 liter) 80 SUS oil to NLGI Available in 1/2" N	110 VAC 120 VAC 50 Hz 60 Hz 0.46 amp 0.49 amp 31 W 34 W 80-130 V 80-130 V 5000 psi (345 bar) 12 gpm (45 liter) 80 SUS oil to NLGI grease 2 grease Available in 1/2" NPTF or 1/2" BSPT	110 VAC 120 VAC 220 VAC 50 Hz 60 Hz 50 Hz 0.46 amp 0.49 amp 0.22 amp 31 W 34 W 30 W 80-130 V 80-130 V 180-250 V 5000 psi (345 bar) I I 12 gpm (45 liter) I I 80 SUS oil to NLGI Jarde 2 grease I I Available in 1/2" NPT or 1/2" BSPT I I	110 VAC 120 VAC 220 VAC 240 VAC 50 Hz 60 Hz 50 Hz 60 Hz 0.46 amp 0.49 amp 0.22 amp 0.24 amp 31 W 34 W 30 W 33 W 80-130 V 80-130 V 180-250 V 180-250 V 5000 psi (345 bar) I I I 80 SUS oil to NLGI grade 2 grease I I I 80 SUS oil to NLGI grade 2 grease I I I



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Before installing or operating this product, please read this manual carefully. Failure to follow instructions can result in damage to the product and/or serious bodily injury.

Before performing service to product, always turn off and disconnect electrical power.

WARNING

When connecting product, make sure that unit is securely and adequately grounded. Failure to ground properly may cause serious injury.

Wiring



* REMOVE JUMPER WHEN USING 4 WIRE CONNECTION

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(919) 465 4448 LOCAL (800) 631 0168 TOLL-FREE (919) 465 0516 FAX

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How To Order

Name	Voltage	Thread	Mounting Kit	Part #
FR20	115 VAC 1/2" BSPT Not supplied with mounting kit ¹		37149115B1	
23((50	(50-60 Hz)		Supplied on DC41 w/ mounting brackets and hardware	37149115B2
		1/2" NPTF	Not supplied with mounting kit ¹	37149115N1
			Supplied on DC41 w/ mounting brackets and hardware	37149115N2
	230 VAC	1/2" BSPT	Not supplied with mounting kit ¹	37149230B1
	(50-60 Hz)		Supplied on DC41 w/ mounting brackets and hardware	37149230B2
		1/2" NPTF	Not supplied with mounting kit ¹	37149230N1
			Supplied on DC41 w/ mounting brackets and hardware	37149230N2
	-	1/2" BSPT	Not supplied with mounting kit ¹	3714924B1
			Supplied on DC41 w/ mounting brackets and hardware	3714924B2
		1/2" NPTF	Not supplied with mounting kit ¹	3714924N1
			Supplied on DC41 w/ mounting brackets and hardware	3714924N2

NOTE:

FR20 works in conjunction with two pressure switches, U620D1. See catalog 151 for more information on these switches.

When ordering specify by name, description and part number, e.g. FR20 Reversing, 115 VAC, 1/2" BSPT, Not supplied with mounting kit, Part #37149115B1.

Service Parts

Item	Description	Part #	Qty.
	•		
1	Valve base, NPTF (1/2")	37147	1
	Valve base, BSPT (1/2")	37150	1
2	Plate	FR1010145	2
3	SHCS 1/4-20 x 0.75	U225A3	4
4	Lockwasher 1/4″	U213ES	8
5	Plug, 1/8" NPTF	U119BC	1
6	Mounting bracket	LB9259	2
7	Bolt, 5/16 x 1-1/4	U204B3	4
8	Lockwasher	U213F	4
9	Nut	U219B	4
10	Complete valve: 24 VDC	39916	1
	Complete valve: 115 VAC	39914RC	1
	Complete valve: 230 VAC	39915RC	1
11	SHCS 1/4-20 x 1.5	U225A7	4
12	Replacement coil: 24 VDC	39913	2
	Replacement coil: 115 VAC	39911RC*	2
	Replacement coil: 230 VAC	39912RC*	2



(9)

* AC valves prior to 2017 may have older AC coils which are now obsolete. These older coils are marked: 3BH-C1/C3(115VAC) or 3BH-C2/C4(230VAC)

Valves fitted with these older obsolete coils should be replaced with a new valve, Item #10 p.n. 39914RC or 39915RC.

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Dimensional Schematics

9.48 REF



Measurements shown in inches.





ISO



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