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.

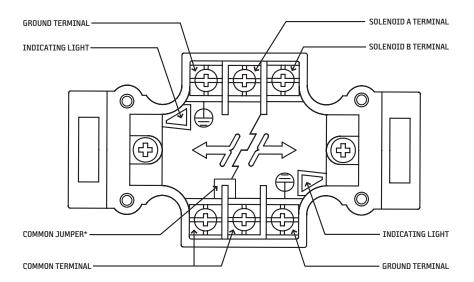
Features

- + 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
Applied Voltage	110 VAC	120 VAC	220 VAC	240 VAC	24 VDC
Frequency	50 Hz	60 Hz	50 Hz	60 Hz	
Holding Current	0.46 amp	0.49 amp	0.22 amp	0.24 amp	1.5 amp
Holding Power	31 W	34 W	30 W	33 W	36 W
Voltage Range	80-130 V	80-130 V	180-250 V	180-250 V	21.6-26.4 V
Max Pressure	5000 psi (345 bar	•)			
Maximum Flow Rate	12 gpm (45 liter)				
Lubricant	80 SUS oil to NLGI grade 2 grease				
Inlet & Outlet Ports	Available in 1/2" NPTF or 1/2" BSPT				
Electrical Connection	1/2" conduit- each end				

Wiring



^{*} REMOVE JUMPER WHEN USING 4 WIRE CONNECTION





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.

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FR20 works in conjunction with two pressure switches, U620D1.

See catalog 151 for more information on

NOTE:

these switches.

How To Order

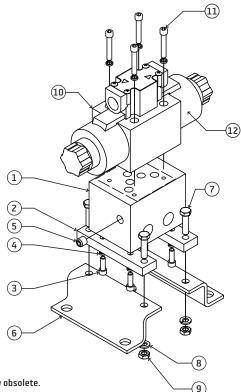
Name	Voltage	Thread	Mounting Kit	Part #
FR20	115 VAC	1/2" BSPT	Not supplied with mounting kit $^{\mathrm{1}}$	37149115B1
Reversing Valve	(50-60 Hz)		Supplied on DC41 w/ mounting brackets and hardware	37149115B2
		1/2" NPTF	Not supplied with mounting kit $^{\mathrm{1}}$	37149115N1
			Supplied on DC41 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
	24 VDC	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

 $^{^{\,1}\,}$ Used to replace FR10-9 reversing valves in the field.

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



 * 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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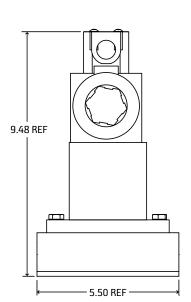
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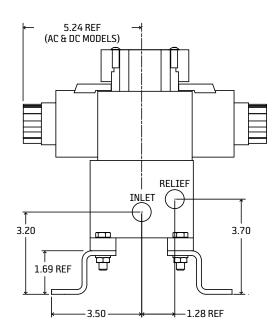
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Dimensional Schematics

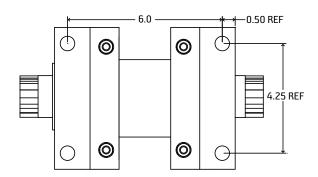




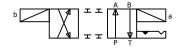
Measurements shown in inches.



NOTE: Mount the FR20 in the horizontal position (not vertical).



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