



ROFLEX SERIES

SCREW COUPLINGS FOR SEVERE APPLICATIONS
Connect and Disconnect Under Pressure



20

APPLICATIONS

Holmbury's Roflex Couplings are uniquely engineered to withstand very severe hydraulic pulsations in applications such as shears, breakers, rock crushers and hammers. When Roflex is connected, all internal parts are held rigid, preventing rapid pulsations from fatiguing the poppet, spring or the coupling itself. In addition, the poppet is guided, preventing it from shifting off center like other designs. Finally, the two internal parts, (spring and poppet), in each half are retained by a very rugged collet that will not disintegrate under severe forces.

Roflex's generous flow path allows for very low pressure drop and lower heat generation. The engineered seals and poppet design enable it to connect and disconnect under pressure.

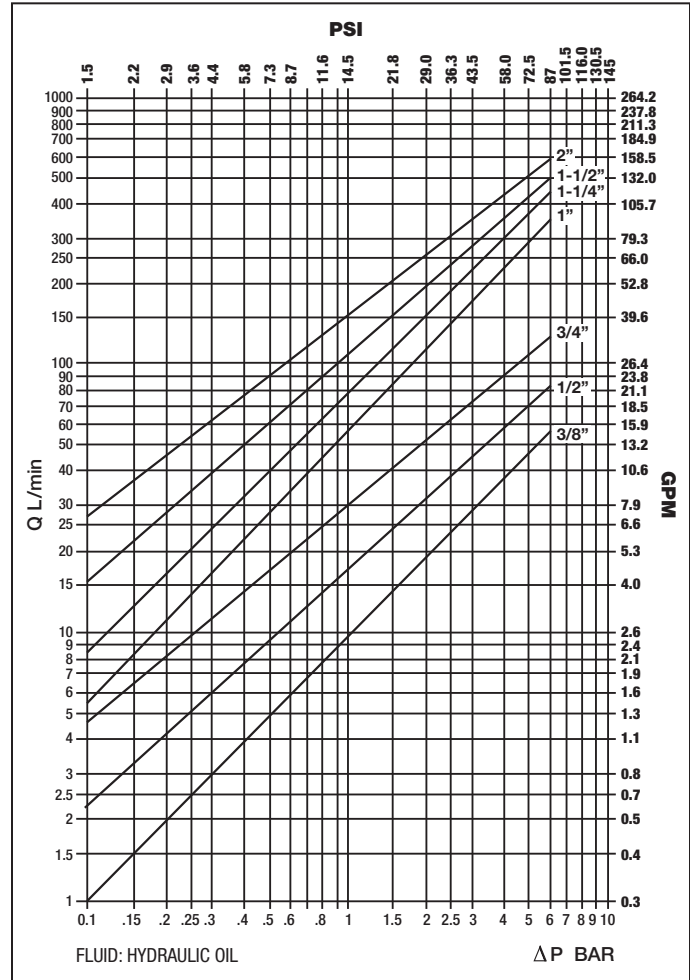
MATERIALS

Zinc plated carbon steel body with Nitrile seals and PTFE backing rings (Viton Seal on Poppet)

TEMPERATURE RANGE

-40°C (-40°F) to 120°C (250°F)

Pressure Drop Characteristics



Order Codes

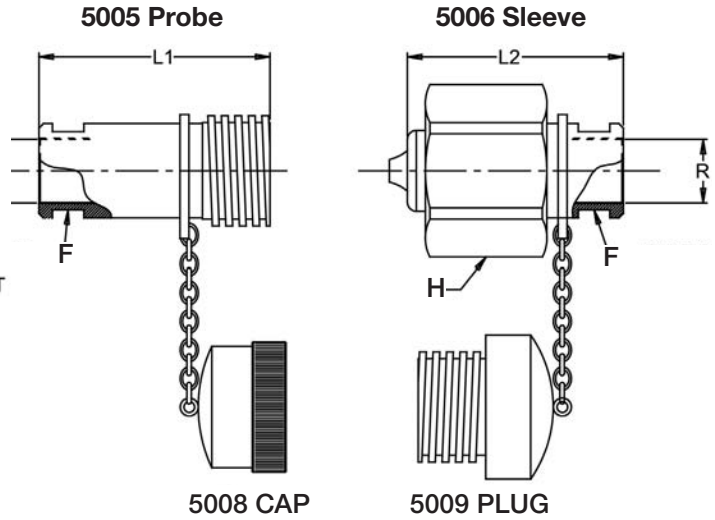
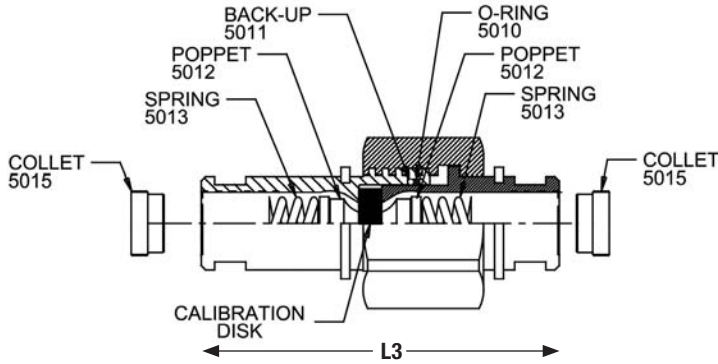
	5005	3/4
Item Number		Body & BSPP Thread Size
*5000-K	Repair Kit (contains: 1 ea. 5010, 5011; 2 ea. 5012, 5013, 5015)	3/8" 1-1/4"
5000-S	Seal Kit (contains 5010 and 5011)	1/2" 1-1/2"
5001	Mounting Bracket	3/4" 2"
5003	Wrench	1"
5004	Repair Tool Kit	
**5005	Probe (includes Cap 5008)	
5006	Sleeve (includes Plug 5009)	
5008	Cap	
5009	Plug	

*Proper size Repair Tool Kit (5004) is required to rebuild Roflex Couplers.
**For 1-1/2" size only use order code 5105-1-1/2



Holmbury

ROFLEX SERIES, SCREW COUPLINGS FOR SEVERE APPLICATIONS



Dimensions

5005 Probe				5006 Sleeve					
R	F	L1	Weight	L2	H	Weight	L3	*Max Flow	Work Press
BSPP Thread	mm		kg	mm		kg	mm	LPM	Bar
	inches		lbs	inches		lbs	inches	GPM	PSI
3/8	22	77	38	55	45	.35	110	34	500
	.9	3.0	.84	2.2	1.8	78	4.3	9	7,250
1/2	26	95	.54	70	50	.53	135	61	450
	1.0	3.7	1.18	2.8	2.0	1.17	5.3	16	6,525
3/4	30	99	.68	73	55	.71	142	114	400
	1.2	3.9	1.49	2.9	2.2	1.57	5.6	30	5,800
1	40	106	1.22	82	70	1.24	158	208	350
	1.6	4.2	2.69	3.2	2.8	2.74	6.2	55	5,075
1-1/4	48	118	1.90	88	80	1.68	172	284	320
	1.9	4.6	4.19	3.5	3.1	3.67	6.8	75	4,640
1-1/2	55	121	2.24	90	87	2.10	176	416	300
	2.2	4.8	4.94	3.5	3.4	4.63	6.9	110	4,350
2	76	165	7.32	120	130	6.25	240	719	250
	3.0	6.5	6.13	4.7	5.1	13.77	9.4	190	3,625

* Note: It is important not to exceed the Max Flow stated above.

Inches=mm/25.4
lbs=kg x 2.204622



Accessories and Repair Parts

Sizes listed are for reference only and are subject to change.

Repair Instructions

Use Tool Part No. 5004

- Unscrew the threaded collet (part no. 5015). Remove the spring (part. 5013) and poppet (part no. 5012). Clean the coupling.
- Insert the calibration disk and assemble the Probe and Sleeve, until the disk is fixed. Note: Assemble the half you are repairing with an opposite half that is new and complete. The calibration disk should be between the two halves at this point (as shown in drawing).
- Insert the new poppet and the old spring into the half you are repairing.
- Screw the new threaded collet into the half being repaired.
- Tighten the collet by using the t-wrench all the way into the coupling. The spring will be compressed between the poppet and the threaded collet. Then turn back counterclockwise 1/8 of a turn.
- Set the still assembled coupling upright on a flat surface and insert the staking tool through the port of the newly reassembled half and into the slots of the collet. Strike this tool firmly 2-3 times with a hammer, sufficient to distort the thread of the threaded collet so it will not loosen.
- Unscrew the assembled coupling. Remove the calibration disk.