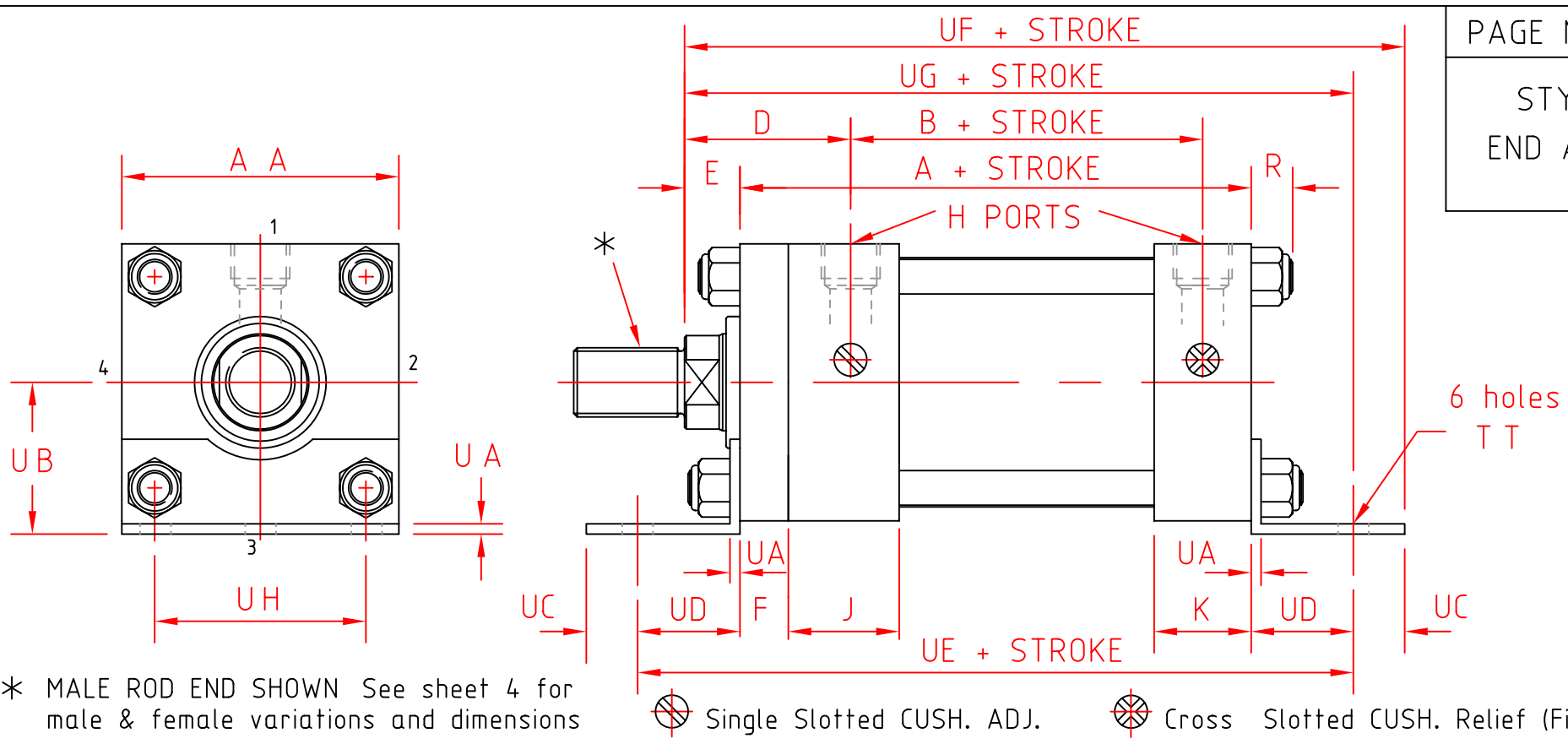
STYLE 9
END ANGLES



∗ MALE ROD END SHOWN See sheet 4 for male & female variations and dimensions

Single Slotted CUSH. ADJ.

Cross Slotted CUSH. Relief (Fixed)

CYLINDER SIZE	ROD DIA. E E	E	D	UF	UG	A	AA	B	F	H BSPP.	J	K	R	U A	U B	U C	U D	U E	U H	T T
HB 15 1.50" BORE	0.625" STD. 15.87	0.63" 15.87	2.00" 50.8	7.00" 177.8	6.63" 168.27	5.00" 127.0	2.50" 63.5	2.88" 73.02	0.38" 9.52	1/2"	1.75" 44.45	1.50" 38.1	0.50" 12.7	0.13" 3.17	1.38" 34.92	0.38" 9.52	1.00" 25.4	7.00" 177.8	1.75" 44.45	0.44" 11.11
	1.000" 25.4	1.00" 25.4	2.38" 60.32	7.38" 187.32	7.00" 177.8															
HB 20 2.00" BORE	1.000" STD. 25.4	0.75" 19.05	2.38" 60.32	7.75" 196.85	7.25" 184.15	5.25" 133.35	3.00" 76.2	2.88" 73.02	0.62" 15.87	1/2"	1.75" 44.45	1.50" 38.1	0.63" 15.87	0.13" 3.17	1.69" 42.86	0.50" 12.7	1.25" 31.75	7.75" 196.85	2.00" 50.8	0.56" 14.28
	1.375" 34.92	1.00" 25.4	2.63" 66.68	8.00" 203.2	7.50" 190.5															
HB 25 2.50" BORE	1.000" STD. 25.4	0.75" 19.05	2.38" 60.32	7.88" 200.02	7.31" 185.73	5.38" 136.52	3.50" 88.9	3.00" 76.2	0.62" 15.87	1/2"	1.75" 44.45	1.50" 38.1	0.63" 15.87	0.13" 3.17	1.94" 49.21	0.56" 14.28	1.19" 30.16	7.75" 196.85	2.38" 60.32	0.69" 17.46
	1.375" 34.92	1.00" 25.4	2.63" 66.68	8.13" 206.37	7.56" 192.08															
	1.750" 44.45	1.25" 31.75	2.88" 73.02	8.38" 212.72	7.81" 198.43															
HB 32 3.25" BORE	1.375" STD. 34.92	0.88" 22.22	2.75" 69.85	9.63" 244.47	8.94" 227.0	6.25" 158.75	4.50" 114.3	3.50" 88.9	0.75" 19.05	3/4"	2.00" 50.8	1.75" 44.45	0.75" 19.05	0.25" 6.35	2.56" 64.00	0.69" 17.46	1.81" 46.03	9.88" 250.82	3.13" 79.37	0.81" 20.63
	1.750" 44.45	1.13" 28.57	3.00" 76.2	9.88" 250.82	9.19" 233.36															
	2.000" 50.8	1.25" 31.75	3.13" 79.38	10.0" 254.0	9.31" 236.53															
HB 40 4.00" BORE	1.750" STD. 44.45	1.00" 25.4	3.00" 76.2	10.63" 269.87	9.75" 247.65	6.63" 168.27	5.00" 127.0	3.75" 95.25	0.88" 22.22	3/4"	2.00" 50.8	1.75" 44.45	0.75" 19.05	0.25" 6.35	2.81" 71.43	0.88" 22.22	2.13" 58.73	10.88" 276.22	3.25" 82.55	1.06" 26.98
	2.000" 50.8	1.13" 28.57	3.13" 79.37	10.75" 273.05	9.88" 250.82															
	2.500" 63.5	1.38" 34.92	3.38" 85.73	11.0" 279.4	10.13" 257.17															
HB 50 5.00" BORE	2.000" STD. 50.8	1.13" 28.57	3.13" 79.37	11.25" 285.75	10.38" 263.52	7.13" 180.97	6.50" 165.1	4.25" 107.95	0.88" 22.22	3/4"	2.00" 50.8	1.75" 44.45	1.06" 26.98	0.31" 7.93	3.69" 93.66	0.88" 22.22	2.13" 58.73	11.38" 288.92	4.75" 120.65	1.06" 26.98
	2.500" 63.5	1.38" 34.92	3.38" 85.73	11.5" 292.1	10.63" 269.87															
	3.000" 76.2	1.38" 34.92	3.38" 85.73	11.5" 292.1	10.63" 269.87															
	3.500" 88.9	1.38" 34.92	3.38" 85.73	11.5" 292.1	10.63" 269.87															
HB 60 6.00" BORE	2.500" STD. 63.5	1.25" 31.75	3.50" 88.9	13.13" 333.37	12.06" 306.38	8.38" 212.72	7.50" 190.50	4.88" 132.82	1.00" 25.4	1.00"	2.25" 57.15	2.25" 57.15	1.12" 28.57	0.38" 9.52	4.25" 107.95	1.06" 26.98	2.44" 61.91	13.25" 336.55	5.38" 136.52	1.31" 33.33
	3.000" 76.2	1.25" 31.75																		
	3.500" 88.9	1.25" 31.75																		
	4.000" 101.6	1.25" 31.75																		
HB 70 7.00" BORE	3.000" STD. 76.2	1.25" 31.75	3.81" 96.83	15.25" 387.35	13.94" 354.01	9.50" 241.3	8.50" 215.9	5.38" 136.52	1.00" 25.4	1,1/4"	2.75" 69.85	2.75" 69.85	1.25" 31.75	0.50" 12.7	4.94" 125.41	1.31" 33.33	3.19" 80.96	15.88" 403.22	5.88" 149.22	1.56" 39.68
	3.500" 88.9	1.25" 31.75																		
	4.000" 101.6	1.25" 31.75																		
	5.000" 127.0	1.25" 31.75																		
HB 80 8.00" BORE	3.500" STD. 88.9	1.25" 31.75	3.94" 100.0	16.25" 412.75	14.94" 379.81	10.50" 266.7	9.50" 241.3	6.13" 155.57	1.00" 25.4	1,1/2"	3.00" 76.2	3.00" 76.2	1.38" 34.92	0.50" 12.7	5.50" 139.70	1.31" 33.33	3.19" 80.96	16.88" 428.62	6.88" 174.62	1.56" 39.68
	4.000" 101.6	1.25" 31.75																		
	5.000" 127.0	1.25" 31.75																		
	5.500" 139.7	1.25" 31.75																		