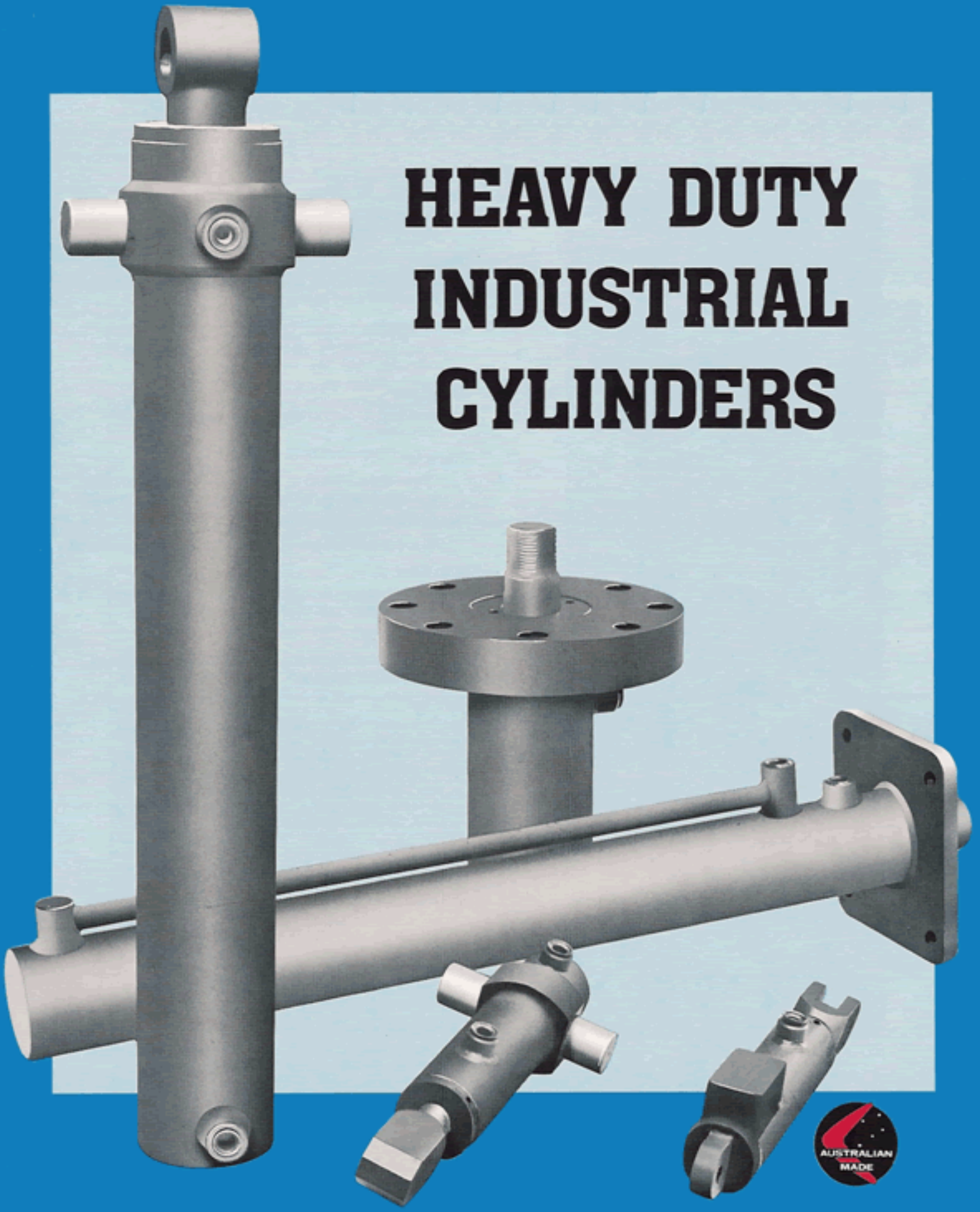
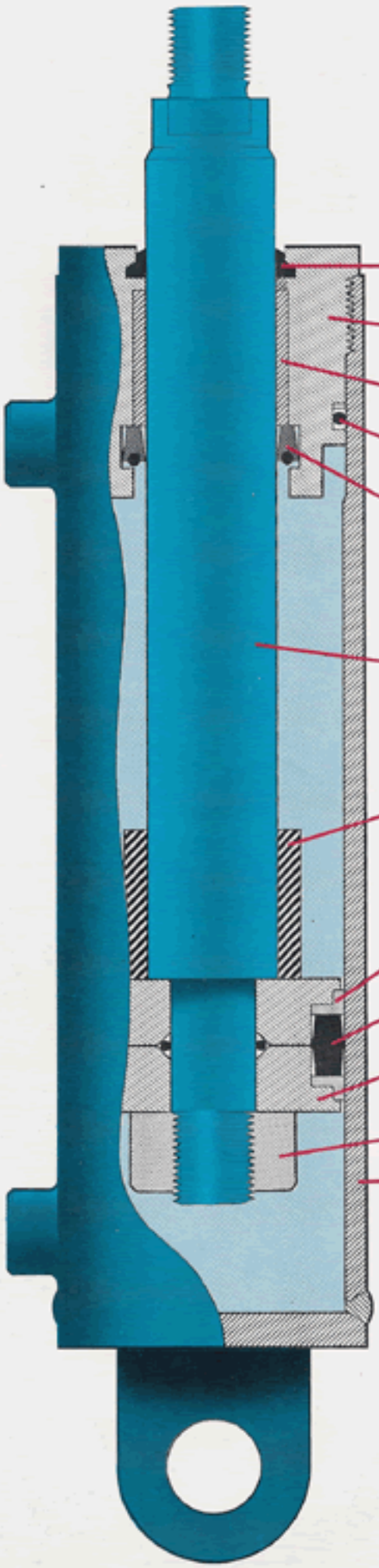
HEAVY DUTY INDUSTRIAL CYLINDERS



Tough industrial-type hydraulic cylinders.
Designed for peak performance. Manufactured to last.



BAKER HYDRAULICS cylinders combine straightforward robust design with premium quality materials and components.
Since 1950 they've worked harder, lasted longer and won wider industry acceptance than any other brand. You can't beat them for value.

Rod wiper
Double lip design provides high internal protection from grit and dust.

Gland
Long thread screw type for secure engagement with barrel and easy seal access.

Gland bearing
Phosphor bronze. Machined to fine tolerances for extended cycle life.

Gland seal
Standard 'O' ring and back-up washer for positive leakproof fit.

Rod seal
Single-acting. Fitted to accurately dimensioned gland grooves. Ensures perfect seal between rod and gland.

Piston rod
40 ton steel. Precision ground and hard chrome plated.

Stop tube
Standard fitting to all BH industrial cylinders with bores greater than 3". Refer page 5 for details.

Wear rings (2)
Tough nylon construction eliminates metal-to-metal contact between piston and cylinder wall.

Fluid seal
Double-acting. Robust design for high pressure operation.

Piston halves (2)
Identically shaped steel halves, sealed effectively together with 'O' ring. Precision machined to seat D/A fluid seal and wear rings.

Piston nut
Long thread for maximum security.

Cylinder barrel
Micro-honed seamless steel tube maintains smooth operation and ensures long seal life.

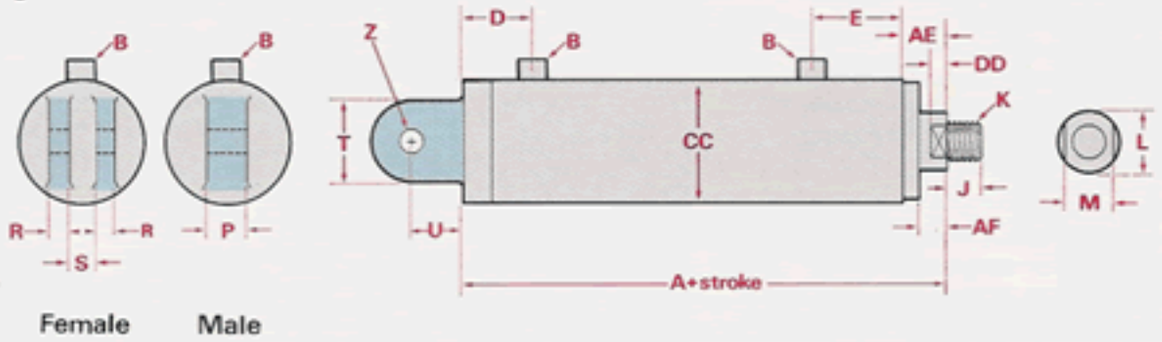
Ports
BSP/T standard. UNF 'O' ring, NPT etc. can be fitted as requested.

Hydraulic fluid
BH industrial cylinders are compatible with all types of mineral base hydraulic fluid. Modification of seal type is required when fire resistant or volatile fluids are used.

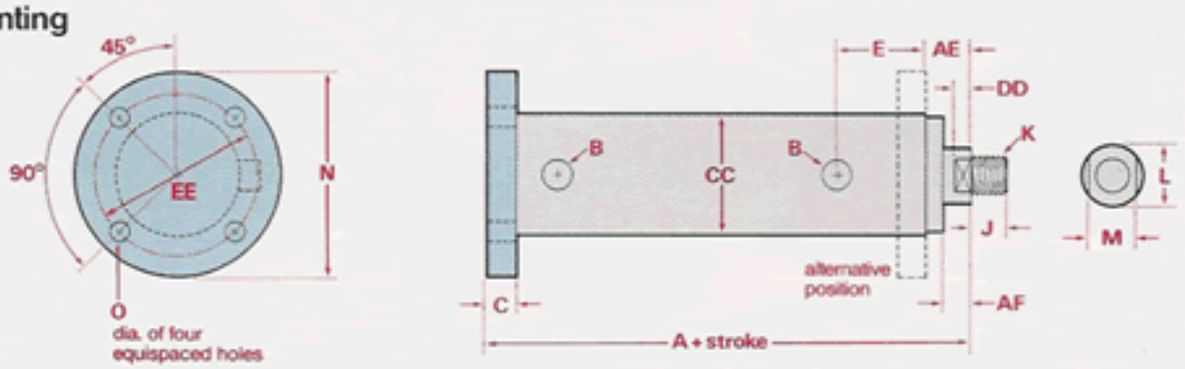
Safe pressure loads

Shock:	**2000 psi**
Non-shock:	**3000 psi**

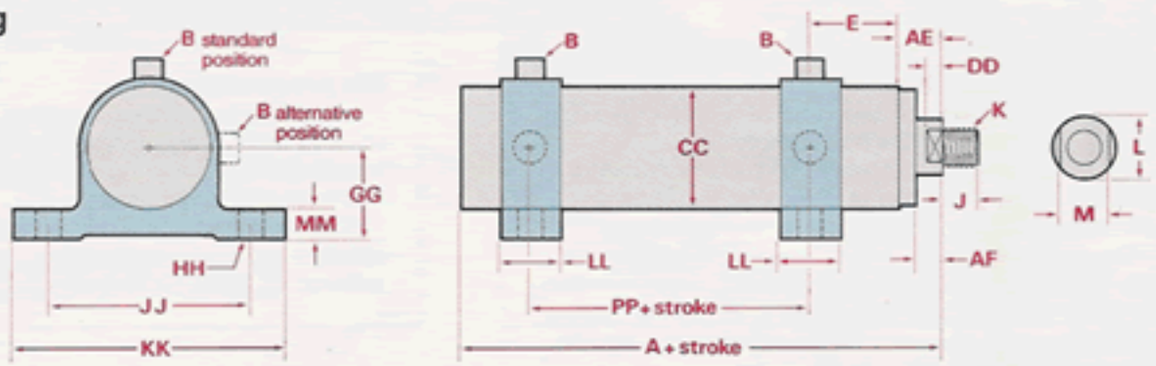
Clevis mounting



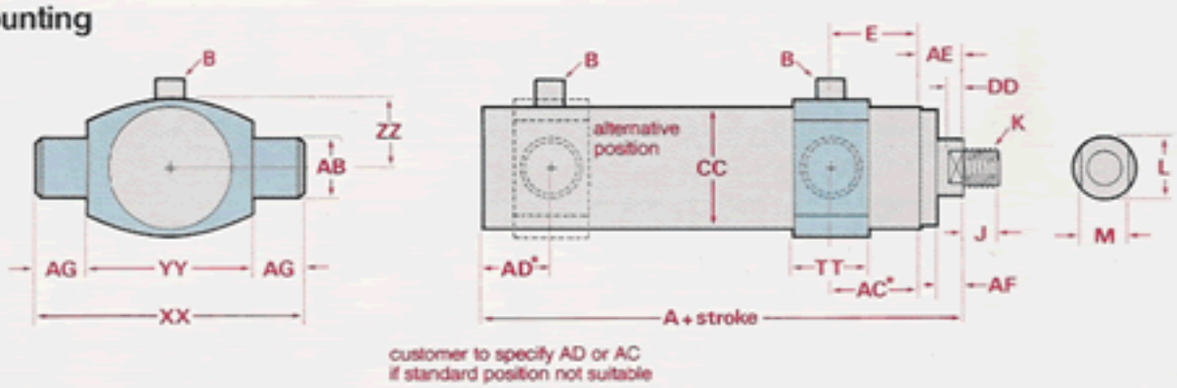
Flange mounting



Foot mounting



Trunnion mounting



customer to specify AD or AC
if standard position not suitable

Piston rod knuckle

Male Female

MOUNTING TYPES

CYLINDER, MOUNTING and FIXING DIMENSIONS

Notes: 1. Dimensions shown in millimetres.
2. When hydraulic cushioning is required, total length of cushion is to be added to dimension "A".

Dimension		inches / mm	Cylinder bore 1½ / 38.1	2 / 51.8	2½ / 63.5	3 / 76.2	3½ / 88.9	4 / 101.6	4½ / 114.3	5 / 127.0	5½ / 139.7	6 / 152.4
A			152	168	181	187	216	222	232	283	292	298
B	Ports (BSP/T)		⅜"	⅜"	½"	½"	¾"	¾"	¾"	1"	1"	1"
C			10	12	12	16	16	18	20	22	25	32
D			29	29	32	35	35	38	38	45	51	51
E			48	56	57	57	60	60	64	76	76	76
J			19	19	19	25.4	25.4	32	32	38	45	51
K	Thread (UNF)		⅝-18	¾-16	⅞-14	1-12	1¼-12	1¼-12	1¼-12	1½-12	1¾-12	2-12
L	Rod diameter		22.22	25.4	31.75	38.10	44.45	50.80	57.15	63.50	69.85	76.20
M	Across flats		16	19	22	32	32	38	44	51	57	63
N			95	114	127	152	165	190	203	229	248	267
O	Hole diameter		11	14	14	17.5	17.5	20.5	20.5	24	27	27
P		+2 −0	20	25	32	40	50	50	50	60	80	80
R		+2 −0	10	12	12	16	20	20	25	25	32	32
S			17	22	26	34	34	42	42	42	52	62
T			35	45	51	57	64	70	76	86	95	101
U			22	25.4	28.5	32	38	44.5	51	57	63.5	70
V			48	54	57	67	73	82	90	101	118	124
W			22	22	22	28	28	35	35	42	48	54
X			22	26	29	32	38	45	51	57	64	70
Y	Radius		14	16	20	22	25	29	35	38	45	45
Z	Hole dia.	±0.025	12.70	15.88	19.05	22.23	25.40	31.75	38.10	44.45	50.80	50.80
AA		+2 −0	28	32	40	45	50	50	60	80	80	80
BB			11	12	12	14	15	20	22	31	31	33
CC	O/all diameter		51	63	76	89	102	114	127	143	156	172
DD	Flats (2)		6	6	6	10	10	10	13	13	13	13
EE	diameter.		76.2	88.9	101.6	120.6	133.4	152.4	165.1	187.3	203.2	222.2
FF			18	22	26	29	32	35	38	43	48	51
GG		±0.05	34.92	44.45	50.80	57.15	63.50	69.85	76.20	88.90	95.25	107.95
HH	Hole diameter		14.2	14.2	17.5	20.5	23.8	27	27	33.2	33.2	33.2
JJ			95.2	108	127	146	158.7	177.8	190.5	222.2	241.3	260.3
KK			127	140	165	190	203	228	241	285	305	324
LL			25	32	40	40	50	50	50	60	60	60
MM			13	13	16	19	22	25	25	32	38	38
PP			48	48	57	57	89	86	89	120	120	124
TT			32	40	40	50	50	50	60	60	80	80
XX			114	146	159	184	203	216	241	260	292	324
YY			63.5	76.2	88.9	101.6	114.3	127	139.7	158.8	177.8	196.9
ZZ			32	38	45	51	57	64	70	79	89	98
AB	Diameter	+0.00 −0.05	25.40	34.93	34.93	41.28	44.45	44.45	50.80	50.80	57.15	63.50
AD			29	33	35	38	38	45	48	51	60	63
AE			29	32	32	35	32	32	32	35	35	35
AF			19	22	22	25	22	22	22	22	22	22
AG			25	35	35	41	44	44	51	51	57	63
AH		+2 −0	40	50	50	60	60	80	80	90	100	100