

HYDRAULIC PUMPS

Air hydraulic pumps

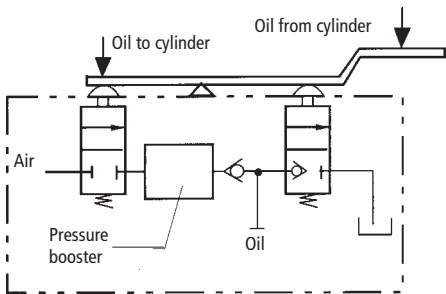
NS-1, NS-21, NS-22 and NAP-3

Single-acting, one-speed air pumps.

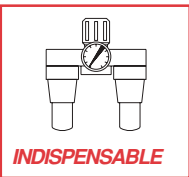
Air driven pumps for operation where electric power is not available or dangerous.

With safety relief valve, factory rated at the maximum working pressure.

Once the NS-1, NS-21 and NS-22 air pumps are connected to the air line, press down on the back section of pedal for operation. Descent or pressure release is effected by pressing down on the front section.



Recommended air pressure:
7-10 kg/cm². / 100-140 psi
Minimum air flow:
270 l./min. / 59,39 gpm



Important. It is recommended the use of an air filter-regulator-lubricator unit with these pumps to resist corrosion and for longer life.

HYDRAULIC PUMPS

Electric pumps

BES-5, BES-10, BES-20 and BES-30: SINGLE-ACTING

BED-5,BED-10, BED-20 and BED-30: DOUBLE ACTING

They have a two-stage, radial pump that provides a working pressure of 700 kg/cm²/10.000 psi.

The first stage allows a quick approach of piston to load and the second stage gives the effective working pressure.

With precision made components, electric power provides improved operation for applications requiring high pressure.

With safety relief valve, factory rated at the maximum working pressure. For a continuous operation, pressure should not exceed 560 kg/cm²/8.000 psi.

Frequency: 50 Hz.: 220/380 V - 1,5 kW - 2 HP - 1400 rpm.

Frequency: 60 Hz.: 265/460 V - 1,7 kW - 2,3 HP - 1700 rpm.



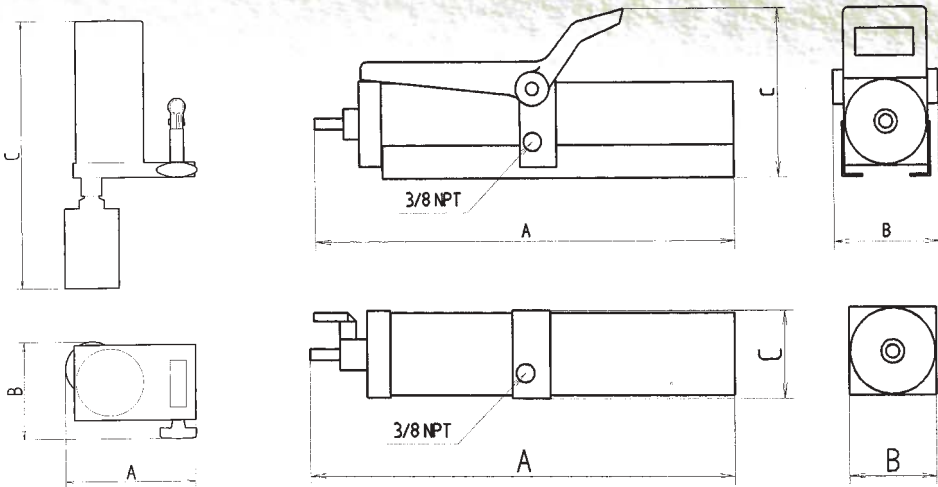
Single-acting

BKN-09

Manual and air powered pump.

The pneumatic operation allows for a faster movement of the piston.

The manual operation is required for precision pressing jobs or when compressed air supply is not available.

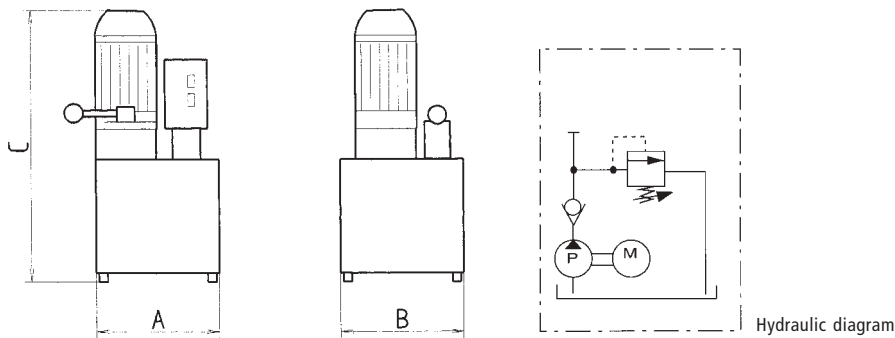


Ref.	Working pressure		Effective oil volume		Oil flow		Oil flow per stroke		Dimensions mm/in.			Weight	
	kg/cm²	psi.	cm³	in³	cm³/min	in³/min	cm³	in³	A	B	C	Kg.	lbs.
NS-1	700	10000	500	30,5	50	3,05	—	—	440 17 5/16	120 4 3/4	150 5 7/8	7	15,5
NS-21	700	10000	1250	76,3	50	3,05	—	—	697 27 7/16	120 4 3/4	150 5 7/8	8	17,6
NS-22	225	3215	1000	61	155	9,45	—	—	606 23 7/8	120 4 3/4	150 5 7/8	7,6	16,7
NAP-3	1500	21430	3000	183	43	2,6	—	—	800 31 1/2	120 4 3/4	120 4 3/4	15	33
BKN-09	700	10000	1100	67,1	50	3,05	2,5	0,15	193 7 5/8	140 5 1/2	407 16	8,2	18

BES
BED Series



BES: single-acting
BED: double-acting



Ref.	Working pressure		Effective oil volume		Power	R.p.m.	Oil flow				Dimensions mm/in.						Weight		
	kg/cm²	psi.	l.	Gal.			kW	1st stage		2nd stage		A		B		C		Kg.	lbs.
								l/min	in³/min	l/min	in³/min								
BES-5	700	10000	5	1,32	0,552	1390	0,8	48,8	0,5	30,5	215	8 1/2	250	9 7/8	443	17 7/16	36	79	
BES-10	700	10000	10	2,65	0,736	1400	1,1	67	0,7	42,7	285	11 1/4	255	10	485	19 3/32	48	106	
BES-20	700	10000	20	5,3	1,472	1390	2,1	128	1,3	79,3	325	12 3/4	325	12 3/4	615	24 3/16	73	161	
BES-30	700	10000	30	7,95	1,472	1390	2,1	128	1,3	79,3	365	14 3/8	365	14 3/8	625	24 5/8	95	210	
BED-10	700	10000	10	2,65	0,736	1400	1,1	67	0,7	42,7	285	11 1/4	255	10	485	19 3/32	48	106	
BED-20	700	10000	20	5,3	1,472	1390	2,1	1,28	1,3	79,3	325	12 3/4	325	12 3/4	615	24 3/16	73	161	
BED-30	700	10000	30	7,95	1,472	1390	2,1	1,28	1,3	79,3	365	14 3/8	365	14 3/8	625	24 5/8	95	210	