



BRAND
HYDRAULICS Co.

Made in the Heartland of America
Serving the World

Engineering & Manufacturing Solutions

B300

Non-Adjustable Proportional
Combiner

Specifications:

- Rated for 3000 psi (207 bar).
- Rated for 1-16 gpm (3.8-60.6 lpm).
- 20-Micron filtration recommended.
- Weight 4.8 lbs. (2.2 kg).
- Standard port sizes.
 - 1/2" NPT all ports.
 - Consult factory for other sizes (Avail. in production qnty. only).



PB300-1/2



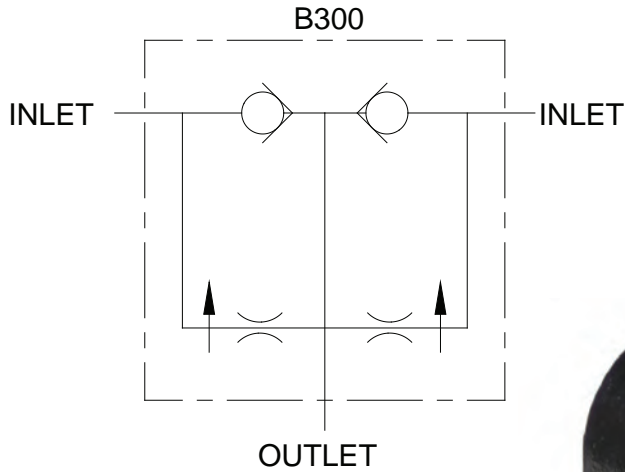
ISO 9001:2008 WITH DESIGN
Certificate #02.002.1



402.344.4434 • www.brand-hyd.com

B300

Non-Adjustable Proportional Combiner



PB300-1/2

MATERIALS:

- Cast Iron Body
- Heat Treated Steel Spool

FEATURES:

- PRECISION GROUND HEAT TREATED SPOOL that assures long life.
- COMBINES TWO STREAMS INTO ONE at a fixed ratio.
- NON-METERED FREE REVERSE FLOW allows fluid to travel from the outlet to the inlet ports.
- PAINT (Optional) (P) painted black (other colors available, consult factory), (MP) epoxy coating.

FB300 – GENERAL INFORMATION

The Brand, B300 non-adjustable proportional combiner takes two streams of flow and combines them into one stream and it also offers free reverse flow from each outlet port. Flow can travel in reverse through the outlet port and is non-metered when it goes in reverse. The non-metered flow travels through the outlet, up the center of the valve, past both ball checks and then out the inlet port. This valve gives the customer the ability to synchronize two single acting cylinders when lowering two different gravity loads. It also gives the customer the ability to synchronize two double acting cylinders by plumbing a B300 at the inlet of both cylinders and another B300 at the outlet of both cylinders. The ratio of combination is dependent on pre-drilled orifices in the valves spool. It can combine two streams into one stream of unequal size up to 85:15 ratio. The B300's advantage over the divider is that it combines the flows instead of separating the flows. By combining the flows, the integrator spool provides back pressure that prevents cavitation and lunging.

B300 – COMPLETE LIST OF MODEL CODES:

B300-1/2.....Non-adjustable proportional combiner, free reverse flow, 1 to 16 gpm (3.8 to 60.6 lpm) combiner, 50:50 ratio and 1/2" NPT all ports

Note: Other ratios available upon request, please consult factory (50:50 ratio is standard).

DIMENSIONAL DATA (B300-1/2 SHOWN): inches & [millimeters]

