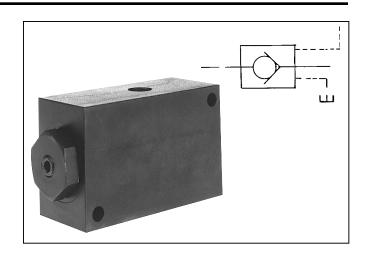
Series CP check valves permit free flow in one direction; flow in the opposite direction is blocked until pilot pressure unseats the poppet and permits flow in the opposite direction.

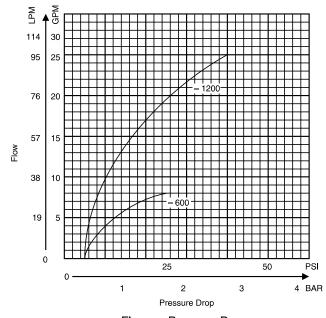
Choice of pilots operated by either air or oil.

For fast response without decompression, select the single-stage poppet having a 5 to 1 ratio of pilot piston area to check valve area.

To eliminate hydraulic shock and surge on opening, select the decompression type 2-stage poppet which has a 40 to 1 ratio of pilot piston area to decompression poppet area. This valve is ideal for controlling 207 Bar (3000 PSI) line pressures by means of 5.5 Bar (80 PSI) pilot pressure.



Performance Curves



Flow vs. Pressure Drop

Specifications

| Maximum Operating Pressure | Poppet Type B: 7 Bar (100 PSI) Poppet Type N: 60 Bar (800 PSI) Poppet Type M: 210 Bar (3000 PSI) |
|----------------------------------|---|
| Maximum Pilot Pressure | Air: BACP, BACPS 6 Bar (80 PSI) Oil: CP1200, CPS1200 70 Bar (1000 PSI) CP600, CPS600 210 Bar (3000 PSI) |
| Cracking Pressure | 0.4 Bar (5 PSI) Free flow direction |
| Material | Type B: Nitrile Type N: Nylon Type M: Solid Metal |

Flow Data

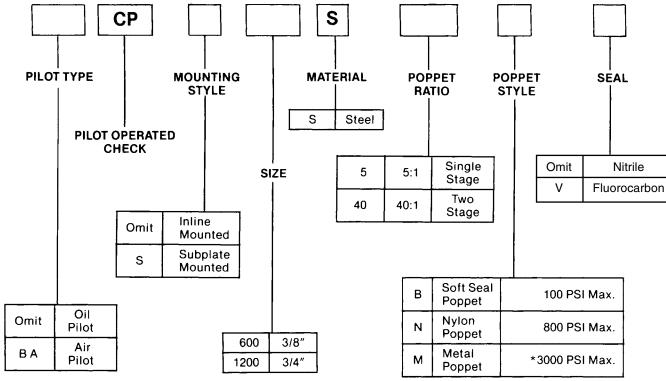
| Valve Model | 1 | | Pilot Piston Area To Check Valve Area | Port Size | |
|----------------------------|---------|--------------|---|--------------|--|
| CP*600S5 BACP*600S5 | 8 (30) | _ | 5:1 | 3/8 NPTF | |
| CP*600S40 BACP*600S40 | 8 (30) | 40:1 | 5:1 | 3/8 NPTF | |
| CP*1200S5 BACP*1200S5 | 25 (95) | - | 5:1 | 3/4 NPTF | |
| CP*1200S40 BACP*1200S40 | 25 (95) | 40:1 | 5:1 | 3/4 NPTF | |

Note: Models CP/CPS are oil-operated pilot Models BACP/BACPS are air-operated pilots



^{*}Insert "S" in model code for subplate mounted valve.

Example: "BACP600S40N" means air pilotoperated 3/8" in-line check valve, steel, two-stage 40-to-1 pilot ratio, nylon poppet for 800 PSI maximum line pressure, with nitrile seals.



*3000 PSI is the system pressure rating. The pilot pressure rating is 80 PSI for Air Pilot, 1000 PSI for Oil Pilot 1200 size and 3000 PSI for Oil Pilot 600 size.

Bolt Kits

| Valve | Bolt Kit | Bolt Specification* SAE Grade 8 or Better | Bolt Torque |
|------------------------|----------|--|-------------|
| CPS600S BACPS600S | BK10 | 5/16-18 x 2-1/2" | 20-25 FTLB. |
| CPS1200S BACPS1200S | BK14 | 3/8-16 x 3" | 45-50 FTLB. |

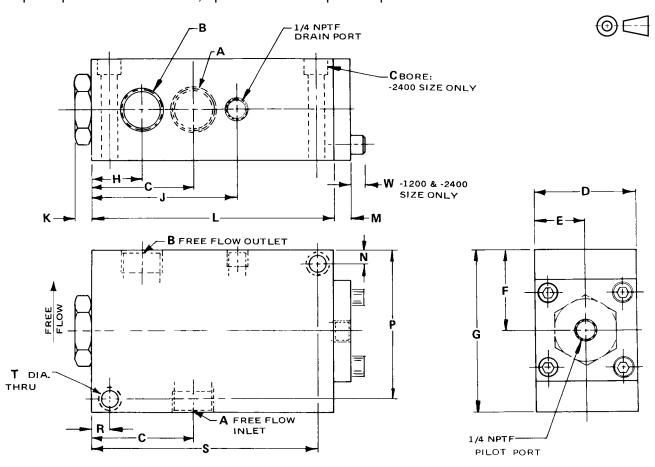
F31



Millimeter equivalents for inch dimensions are shown in (**)

Models CP and BACP

In-line pilot operated check valves, optional air or oil operated pilots



| Valve Size | A&B Thread | С | D | E | F | G | Н | J | K |
|------------|-------------|--------|--------|--------|--------|---------|--------|--------|--------|
| CP600S | 3/8—18 NPTF | 2.10 | 2.00 | 1.00 | 1.50 | 3.00 | 1.00 | 3.00 | .41 |
| BACP600S | | (53.3) | (50.8) | (25.4) | (38.1) | (76.2) | (25.4) | (76.2) | (10.4) |
| CP1200S | 3/4—14 NPTF | 2.50 | 2.50 | 1.25 | 2.00 | 4.00 | 1.25 | 3.61 | .42 |
| BACP1200S | | (63.5) | (63.5) | (31.8) | (50.8) | (101.6) | (31.8) | (91.2) | (10.7) |

| Valve Size | A&B Thread | L | М | 2 | Р | R | S | T | W |
|----------------------|-------------|-----------------|----------------|---------------|----------------|---------------|-----------------|---------------|--------------|
| CP600S BACP600S | 3/8—18 NPTF | 4.75 (120.7) | .42 (10.7) | .37 (9.4) | 2.62 (66.5) | .37 (9.4) | 4.37 (111) | .36 (9.1) | |
| CP1200S BACP1200S | 3/4—14 NPTF | 6.00 (152.4) | .45 (11.43) | .44 (11.2) | 3.56 (90.4) | .44 (11.2) | 5.56 (141.2) | .42 (10.7) | .31 (7.9) |

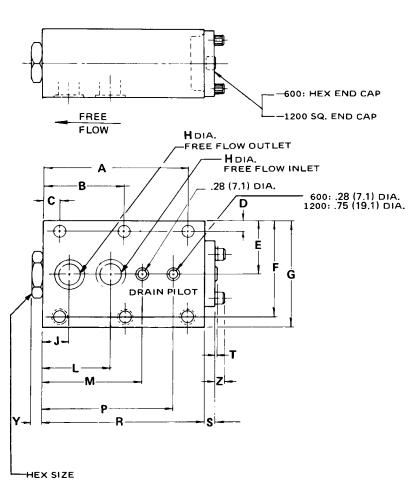
F32

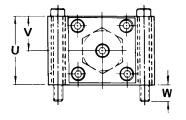


Millimeter equivalents for inch dimensions are shown in (**)

Models CP and BACP

Manifold mounted pilot operated check valves, optional air or oil operated pilots







| | Valve Model | | | | |
|--------------------|----------------------|------------------------|--|--|--|
| | CPS600S BACPS600S | CPS1200S BACPS1200S | | | |
| Α | 4.25 (108.0) | 5.37 (136.4) | | | |
| В | 2.37 (60.2) | 3.00 (76.2) | | | |
| С | .50 (12.7) | .62 (15.7) | | | |
| D | .34 (8.6) | .40 (10.2) | | | |
| E | 1.50 (38.1) | 2.00 (50.8) | | | |
| F | 2.65 (67.3) | 3.59 (91.2) | | | |
| G | 3.00 (76.2) | 4.00 (101.6) | | | |
| Н | .44 (11.2) | .75 (19.1) | | | |
| J | .84 (21.3) | 1.00 (25.4) | | | |
| L | 2.10 (53.3) | 2.50 (63.5) | | | |
| M | 3.00 (76.2) | 3.69 (93.7) | | | |
| Р | 4.00 (101.6) | 5.00 (127.0) | | | |
| R | 4.75 (120.7) | 6.00 (152.4) | | | |
| S | .42 (10.7) | .45 (11.4) | | | |
| T | .04 (1.0) | .04 (1.0) | | | |
| U | 2.00 (50.8) | 2.50 (63.5) | | | |
| V | 1.00 (25.4) | 1.25 (31.8) | | | |
| W | .50 (12.7) | .50 (12.7) | | | |
| Υ | .31 (7.9) | .40 (10.2) | | | |
| Z | _ | .31 (7.9) | | | |
| Weight Lb. (Kg) | 7.7 (4) | 16 (7) | | | |



600: 1.00 (25.4) 1200: 1.50 (38.1) Millimeter equivalents for inch dimensions are shown in (**)

| | Valve Model | | | | |
|---|------------------------|----------------------|--|--|--|
| | 600 | 1200 | | | |
| С | .344 (8.7) | .375 (9.5) | | | |
| D | 1.875 (47.6) | 2.375 (60.3) | | | |
| E | 1.600 (40.6) | 1.880 (47.8) | | | |
| G | 2.500 (63.5) | 3.067 (77.9) | | | |
| Н | | _ | | | |
| J | 3.500 (88.9) | 4.192 (106.5) | | | |
| K | 3.750 (95.3) | 4.750 (120.7) | | | |
| М | 4.750 (120.7) | 6.000 (152.4) | | | |
| R | 1.156 (29.4) | 1.594 (40.5) | | | |
| S | 2.312 (58.7) | 3.187 (81.0) | | | |
| U | 4.500 (114.3) | 5.440 (138.2) | | | |
| ٧ | 5/16-18 | 3/8-16 | | | |
| w | .281 (7.1) | .281 (7.1) | | | |
| Х | .469 (11.9) | .750 (19.1) | | | |
| Υ | .620 (15.7) | .620 (15.7) | | | |

