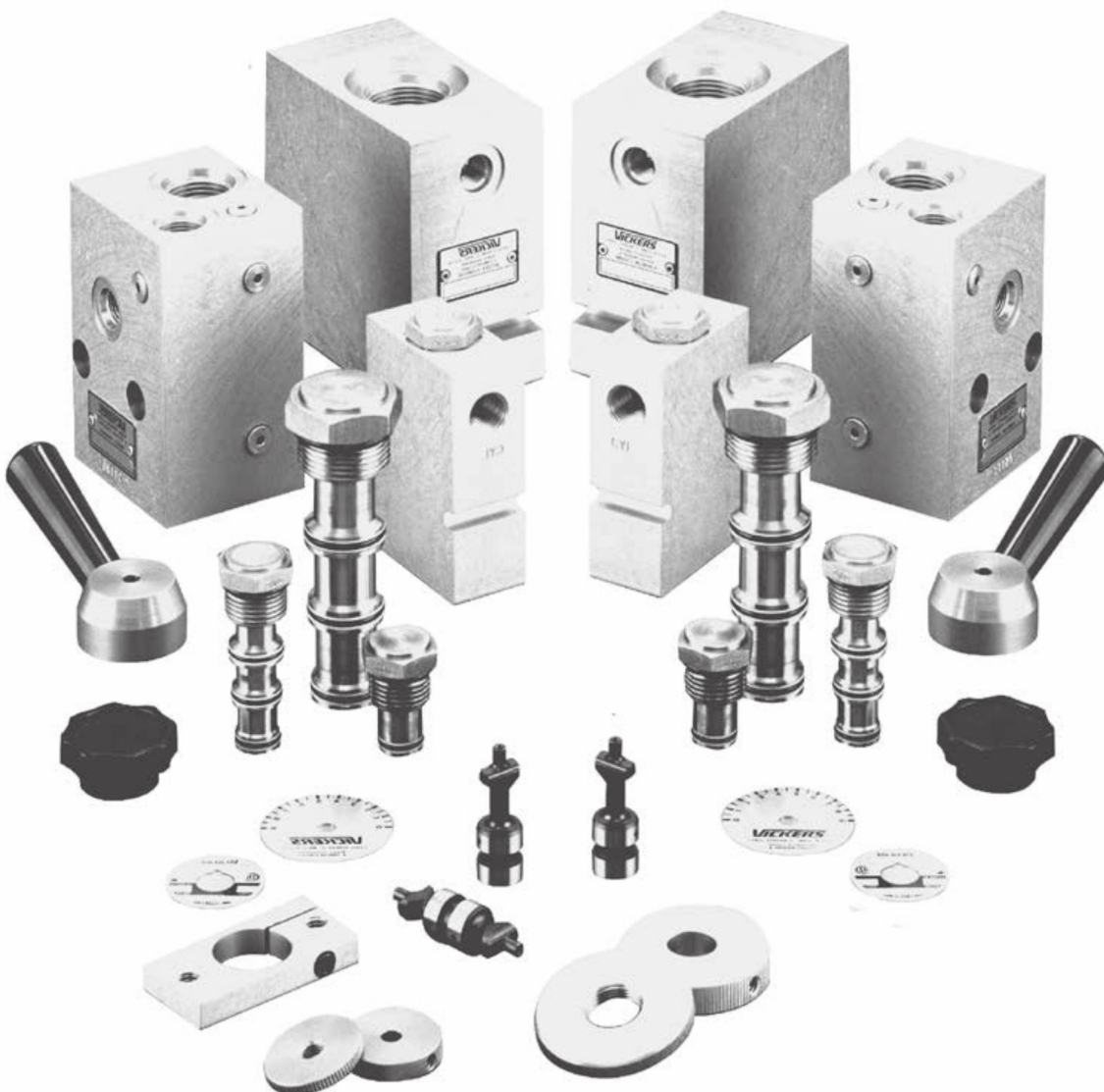


Housings and miscellaneous parts

Standard and special valve housings, orifice disks, orifice sizing charts, pilot pistons, adapters, adjustment kits and seal kits



HYDRAULIC CONTROLS Pty Ltd

Housing & miscellaneous parts

| | |
|---|------|
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| C-**-3..... | J-9 |
| C-**-3S..... | J-10 |
| C-16-3S..... | J-11 |
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| ORIFICE DISC - SIZING GUIDE (MM)..... | J-22 |
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| 1HP7 - HAND PUMP..... | J-29 |
| 1HP10 - HAND PUMP..... | J-31 |
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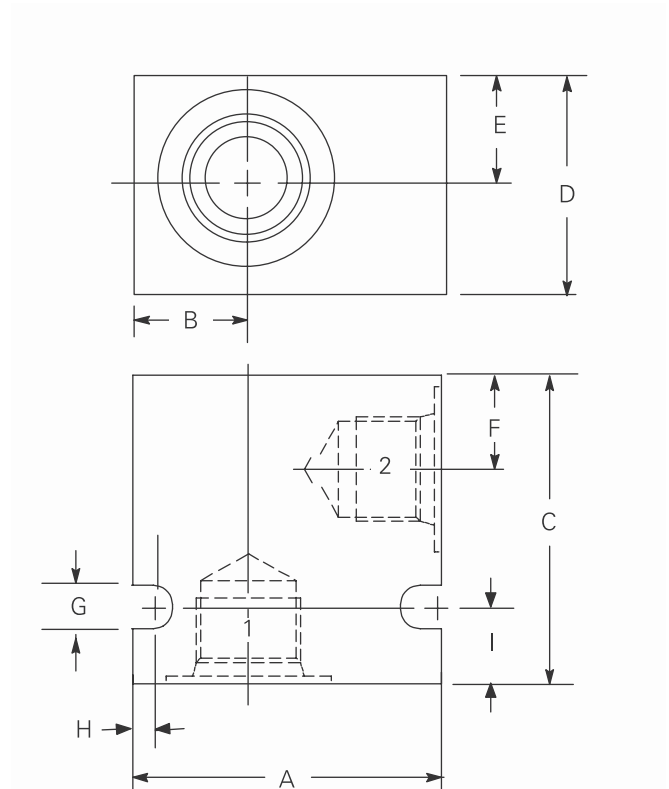
C-**-2

Aluminum housings (light duty)

| Housing | Ports 1 & 2 | Part number | Code |
|---------|---------------------|---------------------|-----------------|
| C-10-2 | 3/8" BSPP SAE 6 | 02-175462 566151 | (A)3B (A)6T |
| C-16-2 | 3/4" BSPP SAE 12 | 02-175463 566149 | (A)6B (A)12T |
| C-20-2 | 1" BSPP SAE 16 | 02-175464 566409 | (A)8B (A)16T |

Notes: BSPP porting is designated by "B" in the model code SAE porting is designated by "T" in the model code.

Light duty aluminum housings are intended for applications up to 210 bar (3000 psi) with light to moderate duty cycles.



| Dimensions | A | B | C | D | E | F | G | H | I | Mass |
|------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|---------------|
| mm (inch) | | | | | | | | | | kg (lb) |
| C-10-2 | 50,8 (2.00) | 19,0 (0.75) | 50,8 (2.00) | 31,7 (1.25) | 15,9 (0.62) | 19,0 (0.75) | 7,1 (0.28) | 3,1 (0.12) | 12,7 (0.50) | 0,1 (0.35) |
| C-16-2 | 76,2 (3.00) | 28,5 (1.12) | 76,2 (3.00) | 47,6 (1.87) | 23,8 (0.94) | 25,4 (1.00) | 8,6 (0.34) | 4,0 (0.16) | 19,0 (0.75) | 0,5 (1.21) |
| C-20-2 | 88,9 (3.50) | 34,3 (1.35) | 88,9 (3.50) | 68,5 (2.70) | 34,3 (1.35) | 36,8 (1.45) | 8,6 (0.34) | 4,0 (0.16) | 21,6 (0.85) | 0,8 (1.90) |

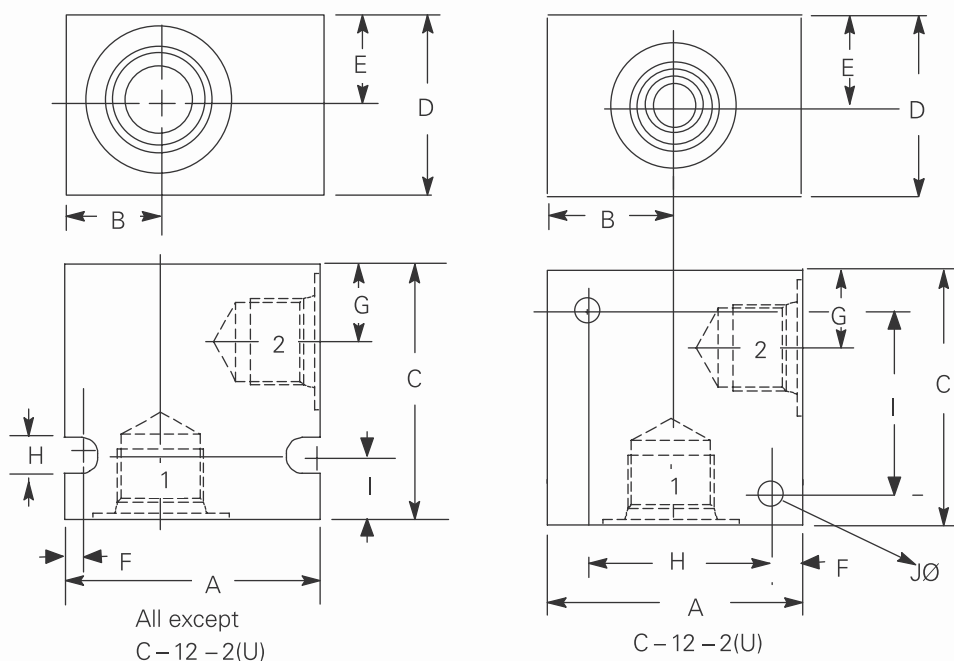
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

| Housing | Ports 1 & 2 | Part number | Code |
|---------|-------------|-------------|--------|
| C-8-2 | 1/4" BSPP | 02-160727 | (A)2G |
| | 3/8" BSPP | 02-160728 | (A)3G |
| | SAE 4 | 02-160730 | (A)4H |
| | SAE 6 | 02-160731 | (A)6H |
| | SAE 8 | 02-160732 | (A)8H |
| C-10-2 | 1/4" BSPP | 876702 | (A)2G |
| | 3/8" BSPP | 876703 | (A)3G |
| | SAE 6 | 876700 | (A)6H |
| | SAE 8 | 876701 | (A)8H |
| C-12-2 | 1/2" BSPP | 02-161118 | (A)4G |
| | 3/4" BSPP | 02-161117 | (A)6G |
| | SAE 10 | 02-160640 | (A)10H |
| | SAE 12 | 02-160644 | (A)12H |

| Housing | Ports 1 & 2 | Part number | Code |
|---------|-------------|-------------|--------|
| C-12-2U | 1/2" BSPP | 02-161116 | (A)4G |
| | 3/4" BSPP | 02-161115 | (A)6G |
| | SAE 10 | 02-160641 | (A)10H |
| | SAE 12 | 02-160645 | (A)12H |
| C-16-2 | 1/2" BSPP | 876716 | (A)4G |
| | 3/4" BSPP | 876718 | (A)6G |
| | SAE 10 | 876717 | (A)10H |
| | SAE 12 | 566113 | (A)12H |
| C-20-2 | 3/4" BSPP | 876732 | (A)6G |
| | 1" BSPP | 876734 | (A)8G |
| | SAE 12 | 876733 | (A)12H |
| | SAE 16 | 876735 | (A)16H |

Notes: BSPP porting is designated by "G" in the model code SAE porting is designated by either "H" or "T" in the model code.

Fatigue rated aluminum housings are intended for applications up to 210 bar (3000 psi) with harsh duty cycles. These housings have been fatigue rated to NFPA standards to one million cycles.



| Dimensions | A | B | C | D | E | F | G | H | I | J | Mass |
|------------|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| | mm (inch) | | | | | | | | | | kg (lb) |
| C-8-2 | 50,8 (2.00) | 19,0 (0.75) | 50,8 (2.00) | 38,1 (1.50) | 19,0 (0.75) | 3,4 (0.13) | 15,5 (0.61) | 7,1 (0.28) | 12,7 (0.50) | 7,1 (0.28) | 0,2 (0.46) |
| C-10-2 | 63,5 (2.50) | 25,4 (1.00) | 63,5 (2.50) | 50,8 (2.00) | 25,4 (1.00) | 9,5 (0.37) | 19,1 (0.75) | 7,1 (0.28) | 19,1 (0.75) | 7,1 (0.28) | 0,4 (1.00) |
| C-12-2(U) | 88,9 (3.50) | 44,5 (1.75) | 88,9 (3.50) | 50,8 (2.00) | 25,4 (1.00) | 12,7 (0.50) | 28,7 (1.13) | 63,5 (2.50) | 63,5 (2.50) | 10,3 (0.40) | 0,8 (1.96) |
| C-16-2 | 88,9 (3.50) | 34,9 (1.37) | 88,9 (3.50) | 63,5 (2.50) | 31,8 (1.25) | 10,3 (0.40) | 28,4 (1.11) | 8,7 (0.34) | 25,4 (1.00) | 10,3 (0.40) | 1,2 (2.75) |
| C-20-2 | 101,6 (4.00) | 38,1 (1.50) | 101,6 (4.00) | 82,5 (3.25) | 41,3 (1.62) | 10,3 (0.40) | 36,0 (1.41) | 8,7 (0.34) | 25,4 (1.00) | 10,3 (0.40) | 1,8 (4.00) |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

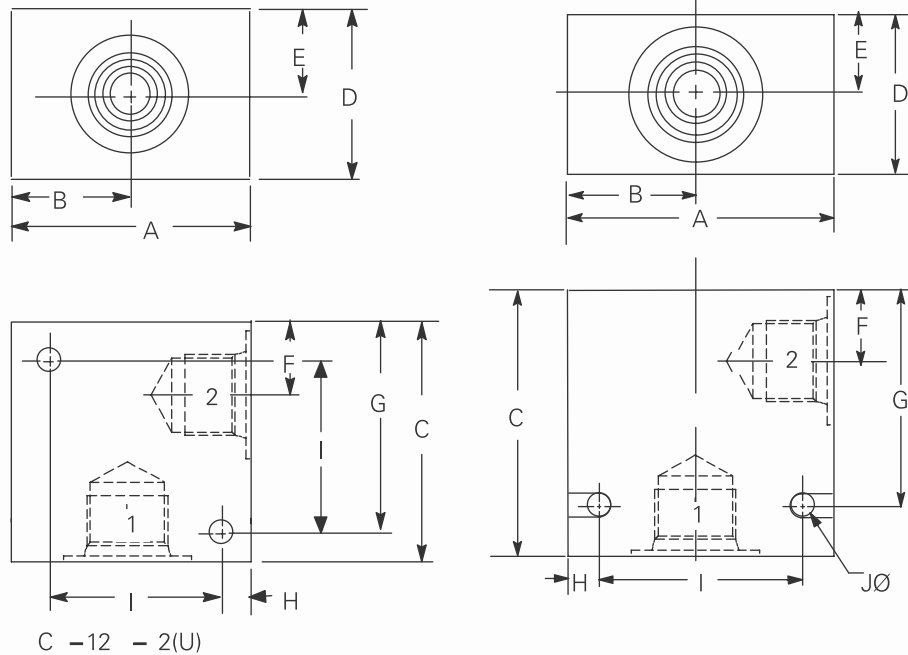
C-**-2

Steel housings (NFPA fatigue rated)

| Housing | Ports 1 & 2 | Part number | Code | Housing | Ports 1 & 2 | Part Number | Code |
|---------|-------------|-------------|--------|---------|-------------|-------------|--------|
| C-8-2 | 1/4" BSPP | 02-160733 | (S)2G | C-12-2U | 1/2" BSPP | 02-172512 | (S)4G |
| | 3/8" BSPP | 02-160734 | (S)3G | | 3/4" BSPP | 02-162922 | (S)6G |
| | SAE 4 | 02-160736 | (S)4T | | SAE 10 | 02-169817 | (S)10T |
| | SAE 6 | 02-160737 | (S)6T | | SAE 12 | 02-169790 | (S)12T |
| | SAE 8 | 02-160738 | (S)8T | | | | |
| C-10-2 | 1/4" BSPP | 02-175102 | (S)2G | C-16-2 | 1/2" BSPP | 02-175106 | (S)4G |
| | 3/8" BSPP | 02-175103 | (S)3G | | 3/4" BSPP | 02-175107 | (S)6G |
| | SAE 6 | 02-175100 | (S)6T | | SAE 10 | 02-175104 | (S)10T |
| | SAE 8 | 02-175101 | (S)8T | | SAE 12 | 02-175105 | (S)12T |
| | | | | | | | |
| C-12-2 | 1/2" BSPP | 02-172062 | (S)4G | C-20-2 | 3/4" BSPP | 02-175110 | (S)6G |
| | 3/4" BSPP | 02-169665 | (S)6G | | 1" BSPP | 02-175111 | (S)8G |
| | SAE 10 | 02-169744 | (S)10T | | SAE 12 | 02-175108 | (S)12T |
| | SAE 12 | 02-169782 | (S)12T | | SAE 16 | 02-175109 | (S)16T |
| | | | | | | | |

Notes: BSPP porting is designated by "G" in the model code SAE porting is designated by "T" in the model code.

Fatigue rated steel housings are intended for applications up to 350 bar (5000 psi) with harsh duty cycles. These housings have been fatigue rated to NFPA standards to one million cycles.



| Dimensions | A | B | C | D | E | F | G | H | I | J | Mass |
|------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| mm (inch) | | | | | | | | | | | kg (lb) |
| C-8-2* | 50,8 (2.00) | 19,0 (0.75) | 50,8 (2.00) | 38,1 (1.50) | 19,1 (0.75) | 15,5 (0.61) | 38,1 (1.50) | 3,3 (0.13) | 44,0 (1.73) | 7,1 (0.28) | 0,5 (1.19) |
| C-10-2 | 63,5 (2.50) | 25,4 (1.00) | 63,5 (2.50) | 44,4 (1.75) | 22,2 (0.87) | 19,0 (0.75) | 50,8 (2.00) | 9,5 (0.37) | 44,4 (1.75) | 7,1 (0.28) | 0,3 (0.83) |
| C-12-2(U) | 88,9 (3.50) | 44,5 (1.75) | 88,9 (3.50) | 50,8 (2.00) | 25,4 (1.00) | 28,7 (1.13) | 76,2 (3.00) | 12,7 (0.50) | 63,5 (2.50) | 10,3 (0.40) | 1,9 (4.28) |
| C-16-2 | 88,9 (3.50) | 38,1 (1.75) | 76,2 (3.00) | 50,8 (2.00) | 25,4 (1.00) | 25,4 (1.00) | 63,5 (2.50) | 12,7 (0.50) | 63,5 (2.50) | 10,3 (0.40) | 2,2 (5.00) |
| C-20-2 | 101,6 (4.00) | 40,6 (1.50) | 88,9 (3.50) | 63,5 (2.50) | 31,7 (1.25) | 31,7 (1.25) | 76,2 (3.00) | 12,7 (0.50) | 76,2 (3.00) | 10,3 (0.40) | 3,6 (7.96) |

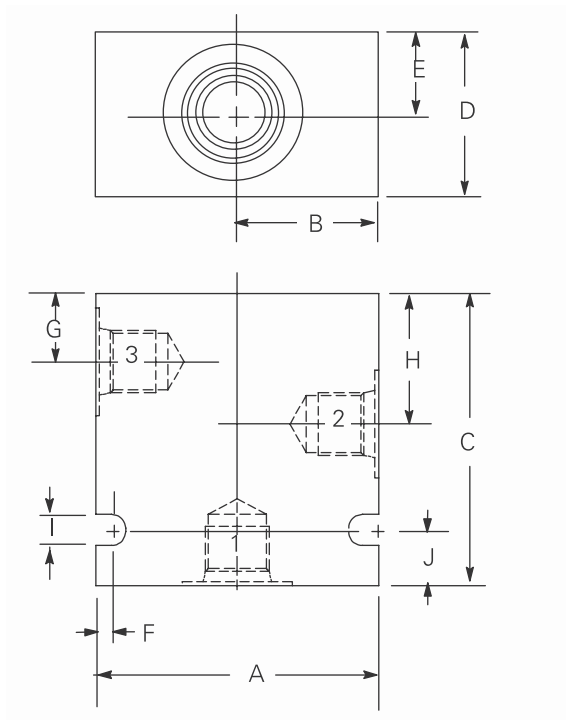
* 8 series housing utilize a slot instead of a mounting hole.

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

| Housing | Ports 1, 2 & 3 | Part number | Code |
|---------|---------------------|---------------------|-----------------|
| C-10-3 | 3/8" BSPP SAE 6 | 02-173358 566162 | (A)3B (A)6T |
| C-10-3S | 3/8" BSPP SAE 6 | 02-175470 566413 | (A)3B (A)6T |
| C-16-3 | 3/4" BSPP SAE 12 | 02-175465 566152 | (A)6B (A)12T |
| C-16-3S | 3/4" BSPP SAE 12 | 02-175471 566414 | (A)6B (A)12T |
| C-20-3 | 1" BSPP SAE 12 | 02-175466 566408 | (A)8B (A)12T |
| C-20-3S | 1" BSPP SAE 16 | 02-175472 566415 | (A)8B (A)16T |

Notes: BSPP porting is designated by "B" in the model code SAE porting is designated by "T" in the model code.

Light duty aluminum housings are intended for applications up to 210 bar (3000 psi) with light to moderate duty cycles.



| Dimensions | A | B | C | D | E | F | G | H | I | J | Mass |
|------------------|-----------------|----------------|-----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|
| mm (inch) | | | | | | | | | | | kg (lb) |
| C-10-3 | 63,5 (2.50) | 31,7 (1.25) | 66,6 (2.62) | 31,7 (1.25) | 15,8 (0.62) | 3,1 (0.12) | 19,0 (0.75) | 34,9 (1.37) | 7,1 (0.28) | 12,7 (0.50) | 0,3 (0.64) |
| C-10-3S | 63,5 (2.50) | 34,9 (1.37) | 69,8 (2.75) | 38,1 (1.50) | 19,1 (0.75) | 3,1 (0.12) | 12,7 (0.50) | 31,7 (1.25) | 7,1 (0.28) | 12,7 (0.50) | 0,2 (0.51) |
| C-16-3 | 101,6 (4.00) | 50,8 (2.00) | 107,9 (4.25) | 50,8 (2.00) | 25,4 (1.00) | 4,0 (0.16) | 25,4 (1.00) | 53,9 (2.12) | 8,6 (0.33) | 25,4 (1.00) | 1,0 (2.3) |
| C-16-3S | 88,9 (3.50) | 47,6 (1.87) | 88,9 (3.50) | 60,3 (2.37) | 30,1 (1.63) | 4,0 (0.16) | 17,4 (0.68) | 38,1 (1.50) | 8,7 (0.34) | 19,0 (0.75) | 0,7 (1.66) |
| C-20-3 | 114,3 (4.50) | 57,1 (2.25) | 139,7 (5.50) | 63,5 (2.50) | 31,7 (1.25) | 4,0 (0.16) | 31,7 (1.25) | 72,1 (2.84) | 10,4 (0.41) | 25,4 (1.00) | 1,7 (3.92) |
| C-20-3S | 101,6 (4.00) | 57,1 (2.25) | 107,9 (4.25) | 69,8 (2.75) | 34,9 (1.37) | 4,0 (0.16) | 20,6 (0.81) | 50,8 (2.00) | 8,7 (0.34) | 19,0 (0.75) | 1,2 (2.62) |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

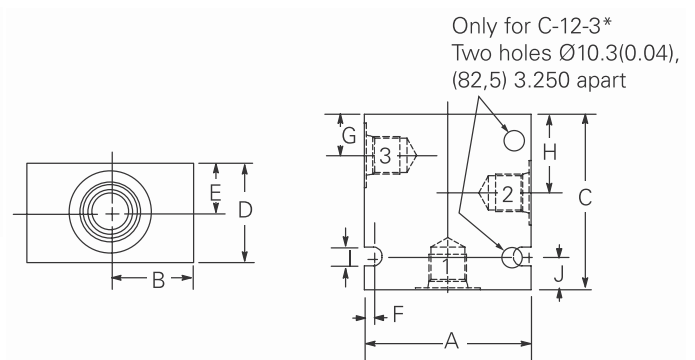
C-**-3/3S

Aluminum housings (NFPA fatigue rated)

| Housing | Ports 1, 2 & 3 | Part number | Code | Housing | Ports 1, 2 & 3 | Part number | Code | |
|---------|----------------|-------------|--------|---------|----------------|-------------|--------|------------------------|
| C-8-3 | 1/4" BSPP | 02-160739 | (A)2G | C-16-3 | 1/2" BSPP | 876720 | (A)4G | |
| | 3/8" BSPP | 02-160740 | (A)3G | | 3/4" BSPP | 876722 | (A)6G | |
| | SAE 4 | 02-160741 | (A)4H | | SAE 10 | 876721 | (A)10H | |
| | SAE 6 | 02-160742 | (A)6H | | SAE 12 | 876723 | (A)12H | |
| C-10-3 | 1/4" BSPP | 876705 | (A)2G | C-16-3S | 1/2" BSPP | 02-160676 | (A)4G | |
| | 3/8" BSPP | 876714 | (A)3G | | 3/4" BSPP | 876726 | (A)6G | |
| | SAE 6 | 876704 | (A)6H | | SAE 10 | 876725 | (A)10H | |
| | SAE 8 | 876711 | (A)8H | | SAE 12 | 876727 | (A)12H | |
| C-10-3S | 1/4" BSPP | 876707 | (A)2G | C-20-3 | 1/2" BSPP | 876737 | (A)4G | |
| | 3/8" BSPP*** | 876710 | (A)3G | | 3/4" BSPP*** | 876738 | (A)6G | |
| | SAE 6 | 876706 | (A)6H | | SAE 10 | 876757 | (A)10H | |
| | SAE 8** | 876712 | (A)8H | | SAE 12 | 876739 | (A)12H | |
| C-12-3 | 1/2" BSPP | 02-161817 | (A)4G | C-20-3S | 3/4" BSPP | 876740 | (A)6G | |
| | 3/4" BSPP | 02-161816 | (A)6G | | 1" BSPP | 876742 | (A)8G | |
| | SAE 10 | 02-160642 | (A)10H | | SAE 12 | 876741 | (A)12H | |
| | SAE 12 | 02-160646 | (A)12H | | SAE 16 | 876743 | (A)16H | |
| C-12-3S | 1/2" BSPP* | 02-178270 | (A)4G | | | | | * Port 3 = 3/8" BSPP |
| | 3/4" BSPP* | 02-178271 | (A)6G | | | | | ** Port 3 = SAE 6 |
| | SAE 10** | 02-178268 | (A)10H | | | | | *** Port 3 = 1/4" BSPP |
| | SAE 12** | 02-178269 | (A)12H | | | | | |

Notes: BSPP porting is designated by "G" in the model code SAE porting is designated by either "H" or "T" in the model code.

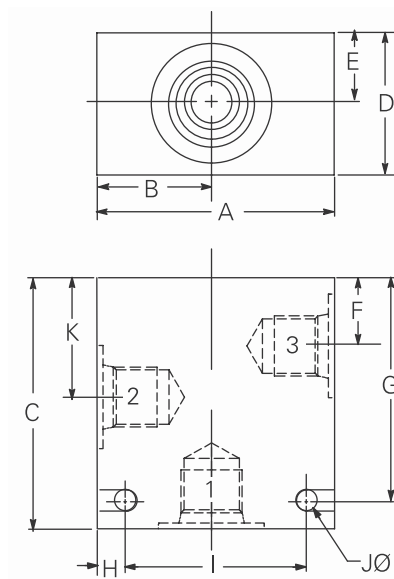
Fatigue rated aluminum housings are intended for applications up to 210 bar (3000 psi) with harsh duty cycles. These housings have been fatigue rated to NFPA standards to one million cycles.



| Dimensions | A | B | C | D | E | F | G | H | I | J | Mass |
|------------|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| mm (inch) | | | | | | | | | | | kg (lb) |
| C-8-3 | 63,5 (2.50) | 31,8 (1.25) | 67,3 (2.65) | 38,1 (1.50) | 19,1 (0.75) | 3,4 (0.13) | 15,5 (0.61) | 29,8 (1.17) | 7,1 (0.28) | 13,3 (0.52) | 0,4 (0.83) |
| C-10-3 | 75,4 (2.97) | 38,1 (1.50) | 75,4 (2.97) | 50,0 (1.97) | 24,6 (0.97) | 9,5 (0.37) | 18,8 (0.74) | 34,8 (1.37) | 7,1 (0.28) | 18,2 (0.72) | 0,7 (1.65) |
| C-10-3S | 76,2 (3.00) | 38,1 (1.50) | 76,2 (3.00) | 50,8 (2.00) | 25,4 (1.00) | 9,5 (0.37) | 15,1 (0.59) | 31,7 (1.25) | 7,1 (0.28) | 19,0 (0.75) | 0,7 (1.65) |
| C-12-3 | 88,9 (3.50) | 44,5 (1.75) | 107,9 (4.25) | 50,8 (2.00) | 25,4 (1.00) | 76,2 (3.00) | 28,7 (1.13) | 51,6 (2.03) | 10,3 (0.41) | 12,7 (0.50) | 0,8 (1.80) |
| C-12-3S | 88,9 (3.50) | 44,5 (1.75) | 101,6 (4.00) | 50,8 (2.00) | 25,4 (1.00) | 76,2 (3.00) | 23,0 (0.91) | 42,1 (1.66) | 10,3 (0.41) | 44,5 (1.75) | 0,8 (1.80) |
| C-16-3 | 114,3 (4.50) | 60,3 (2.37) | 114,3 (4.50) | 63,5 (2.50) | 31,8 (1.25) | 10,3 (0.41) | 28,4 (1.12) | 57,0 (2.24) | 8,7 (0.34) | 25,4 (1.00) | 2,0 (4.50) |
| C-16-3S | 114,3 (4.50) | 54,0 (2.12) | 114,3 (4.50) | 63,5 (2.50) | 31,7 (1.25) | 10,3 (0.40) | 20,5 (0.81) | 38,1 (1.50) | 8,7 (0.34) | 25,4 (1.00) | 2,0 (4.40) |
| C-20-3 | 127,0 (5.00) | 63,5 (2.50) | 139,7 (5.50) | 82,5 (3.25) | 41,2 (1.62) | 10,3 (0.40) | 31,7 (1.25) | 72,2 (2.84) | 8,7 (0.34) | 25,4 (1.00) | 3,5 (7.71) |
| C-20-3S | 127,0 (5.00) | 63,5 (2.50) | 127,0 (5.00) | 82,5 (3.25) | 41,2 (1.62) | 10,3 (0.40) | 20,6 (0.81) | 50,8 (2.00) | 8,7 (0.34) | 25,4 (1.00) | 3,6 (8.00) |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

| Housing | Ports 1, 2 & 3 | Part number | Code |
|---------|----------------|-------------|--------|
| C-8-3 | 1/4" BSPP | 02-160743 | (S)2G |
| | 3/8" BSPP | 02-160744 | (S)3G |
| | SAE 4 | 02-160745 | (S)4T |
| | SAE 6 | 02-160746 | (S)6T |
| C-10-3 | 1/4" BSPP | 02-175127 | (S)2G |
| | 3/8" BSPP | 02-175128 | (S)3G |
| | SAE 6 | 02-175124 | (S)6T |
| | SAE 8 | 02-175125 | (S)8T |
| C-12-3 | 1/2" BSPP | 02-169815 | (S)4G |
| | 3/4" BSPP | 02-169814 | (S)6G |
| | SAE 10 | 02-161070 | (S)10T |
| | SAE 12 | 02-169816 | (S)12T |
| C-16-3 | 1/2" BSPP | 02-175131 | (S)4G |
| | 3/4" BSPP | 02-175132 | (S)6G |
| | SAE 10 | 02-175129 | (S)10T |
| | SAE 12 | 02-175130 | (S)12T |
| C-20-3 | 3/4" BSPP | 02-175135 | (S)6G |
| | 1" BSPP | 02-175136 | (S)8G |
| | SAE 12 | 02-175133 | (S)12T |
| | SAE 16 | 02-175134 | (S)16T |



Notes: BSPP porting is designated by "G" in the model code SAE porting is designated by "T" in the model code.

Fatigue rated steel housings are intended for applications up to 350 bar (5000 psi) with harsh duty cycles. These housings have been fatigue rated to NFPA standards to one million cycles.

| Dimensions | A | B | C | D | E | F | G | H | I | J | K | Mass |
|------------|-----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|
| mm (inch) | | | | | | | | | | | | kg (lb) |
| C-8-3* | 63,5 (2.50) | 31,8 (1.25) | 66,7 (2.63) | 38,1 (1.50) | 19,1 (0.75) | 15,5 (0.61) | 54,0 (2.13) | 3,3 (0.13) | 56,9 (2.24) | 7,1 (0.28) | 29,8 (1.17) | 0,9 (2.15) |
| C-10-3 | 76,2 (3.00) | 38,1 (1.50) | 76,2 (3.00) | 44,4 (1.75) | 22,4 (0.88) | 19,1 (0.75) | 63,5 (2.50) | 9,7 (0.38) | 57,0 (2.24) | 7,1 (0.28) | 35,1 (1.38) | 1,7 (3.75) |
| C-12-3 | 88,9 (3.50) | 44,4 (1.75) | 101,6 (4.00) | 50,8 (2.00) | 25,4 (1.00) | 28,7 (1.13) | 88,9 (3.50) | 12,7 (0.50) | 63,5 (2.50) | 10,3 (0.40) | 51,5 (2.03) | 3,0 (6.75) |
| C-16-3 | 101,6 (4.00) | 50,8 (2.00) | 107,9 (4.25) | 50,8 (2.00) | 25,4 (1.00) | 25,4 (1.00) | 88,9 (3.50) | 12,7 (0.50) | 76,2 (3.00) | 10,3 (0.40) | 54,0 (2.13) | 3,4 (7.70) |
| C-20-3 | 114,3 (4.50) | 57,1 (2.25) | 139,7 (5.50) | 63,5 (2.50) | 31,8 (1.25) | 31,8 (1.25) | 114,3 (4.50) | 19,0 (0.75) | 76,2 (3.00) | 11,9 (0.47) | 72,2 (2.84) | 6,4 (14.30) |

* 8 Series housings utilize a slot instead of mounting holes.

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

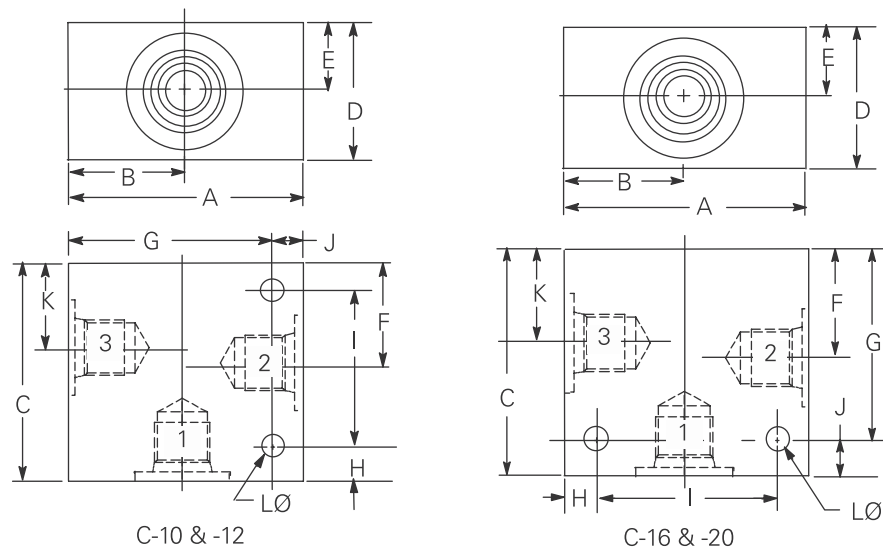
C-**-3S

Steel housings (NFPA fatigue rated)

| Housing | Ports 1 & 2 | Port 3 | Part number | Code |
|---------|-------------|-----------|-------------|--------|
| C-10-3S | 3/8" BSPP | 1/4" BSPP | 02-163313 | (S)3G |
| | 1/2" BSPP | 1/4" BSPP | 02-163324 | (S)4G |
| | SAE 6 | SAE 6 | 02-171961 | (S)6T |
| | SAE 8 | SAE 6 | 02-163322 | (S)8T |
| | SAE 10 | SAE 6 | 02-163323 | (S)10T |
| C-12-3S | 1/2" BSPP | 3/8" BSPP | 02-160994 | (S)4G |
| | 3/4" BSPP | 3/8" BSPP | 02-160995 | (S)6G |
| | SAE 10 | SAE 6 | 02-160996 | (S)10T |
| | SAE 12 | SAE 6 | 02-160997 | (S)12T |
| C-16-3S | 1/2" BSPP | 3/8" BSPP | 02-175118 | (S)4G |
| | 3/4" BSPP | 3/8" BSPP | 02-175119 | (S)6G |
| | SAE 10 | SAE 6 | 02-175116 | (S)10T |
| | SAE 12 | SAE 6 | 02-175117 | (S)12T |
| C-20-3S | 3/4" BSPP | 3/8" BSPP | 02-175122 | (S)6G |
| | 1" BSPP | 3/8" BSPP | 02-175123 | (S)8G |
| | SAE 12 | SAE 6 | 02-175120 | (S)12T |
| | SAE 16 | SAE 6 | 02-175121 | (S)16T |

Notes: BSPP porting is designated by "G" in the model code SAE porting is designated by "T" in the model code.

Fatigue rated steel housings are intended for applications up to 350 bar (5000 psi) with harsh duty cycles. These housings have been fatigue rated to NFPA standards to one million cycles.



| Dimensions | A | B | C | D | E | F | G | H | I | J | K | Lø | Mass |
|------------|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| mm (inch) | | | | | | | | | | | | | kg (lb) |
| C-10-3S | 63,5 (2.50) | 31,8 (1.25) | 76,2 (3.00) | 41,3 (1.63) | 20,7 (0.82) | 36,6 (1.44) | 53,8 (2.12) | 11,2 (0.44) | 53,8 (2.12) | 9,7 (0.38) | 19,8 (0.78) | 8,7 (0.34) | 1,08 (2.40) |
| C-12-3S | 88,9 (3.50) | 44,5 (1.75) | 101,6 (4.00) | 50,8 (2.00) | 25,4 (1.00) | 41,9 (1.65) | 76,2 (3.00) | 31,7 (1.25) | 57,1 (2.25) | 12,7 (0.50) | 23,1 (0.91) | 10,3 (0.40) | 2,4 (5.40) |
| C-16-3S | 88,9 (3.50) | 41,2 (1.62) | 88,9 (3.50) | 50,8 (2.00) | 25,4 (1.00) | 38,1 (1.50) | 69,8 (2.75) | 12,7 (0.50) | 63,5 (2.50) | 19,0 (0.75) | 17,4 (0.68) | 10,3 (0.40) | 2,6 (5.90) |
| C-20-3S | 101,6 (4.00) | 44,4 (1.75) | 114,3 (4.50) | 63,5 (2.50) | 31,7 (1.25) | 50,8 (2.00) | 88,9 (3.50) | 12,7 (0.50) | 76,2 (3.00) | 25,4 (1.00) | 20,6 (0.81) | 10,3 (0.40) | 4,6 (10.24) |

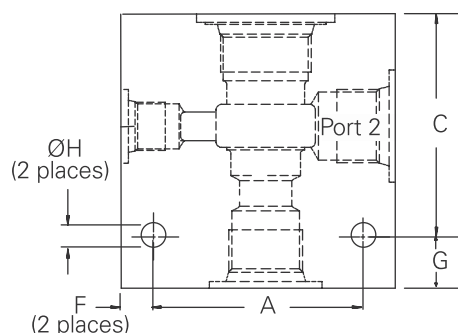
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

For use with EPV16-A or B only.
Housing Number

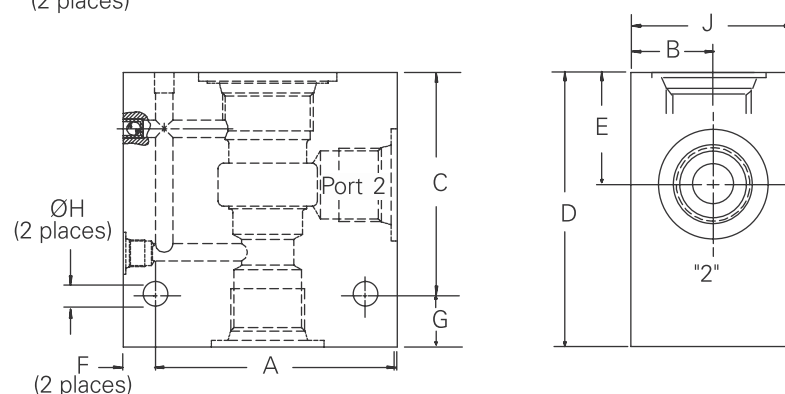
| Code | Port Size | Aluminum EPV16-A | EPV16-B | Steel EPV16-A | EPV16-B |
|------|--|------------------|-----------|---------------|-----------|
| 4G | 1/2" BSPP | 02-185448 | 02-166607 | 02-180050 | 02-165500 |
| 6G | 3/4" BSPP | 02-185449 | 02-161582 | 02-180051 | 02-164931 |
| 10H | SAE 10 | 02-185446 | 02-170238 | - | - |
| 12H | SAE 12 | 02-185447 | 02-166609 | - | - |
| 10T | SAE 10 | - | - | 02-180048 | 02-161983 |
| 12T | SAE 12 | - | - | 02-180049 | 02-161982 |
| 5C | CETOP5 (NFPA D05) interface (Requires steel housing) | | | | |

| Model | A | B | C | D | E | F | G | ØH | J | Mass kg (lb) | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|--------|
| | | | | | | | | | | Alum | Steel |
| Modified C-16-3S | 76,2 | 30,2 | 79,2 | 100,8 | 38,1 | 12,7 | 21,4 | 8,7 | 60,4 | 2,0 | 6,0 |
| body | (3.00) | (1.19) | (3.12) | (3.97) | (1.50) | (0.50) | (0.84) | (0.34) | (2.38) | (4.50) | (13.5) |

Modified housing for use with EPV16-A.



Modified housing for use with EPV16-B.



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

C-**-4

Aluminum housings (light duty)

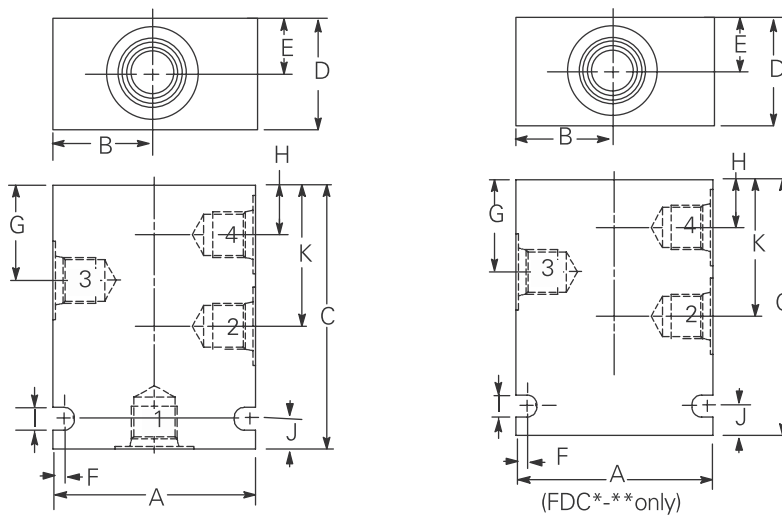
| Housing | Ports 1, 2, 3 & 4 | Part number | Code |
|---------|---------------------|---------------------|-----------------|
| C-10-4 | 3/8" BSPP SAE 6 | 02-179705 566161 | (A)3B (A)6T |
| C-12-4 | SAE10 | 6030517-001 | (A)10T |
| C-16-4 | 3/4" BSPP SAE 12 | 02-175468 566411 | (A)6B (A)12T |
| C-20-4 | 1" BSPP SAE 16 | 02-175469 566412 | (A)8B (A)16T |

Housing (FDC**-**only)

| | | | |
|--------|---------------------|---------------------|-----------------|
| C-10-4 | 3/8" BSPP SAE 6 | 02-175467 566234 | (A)3B (A)6T |
| C-16-4 | 3/4" BSPP SAE 12 | 02-175468 566200 | (A)6B (A)12T |

Notes: BSPP porting is designated by "B" in the model code SAE porting is designated by "T" in the model code.

Light duty aluminum housings are intended for applications up to 210 bar (3000 psi) with light to moderate duty cycles.



| Dimensions | A | B | C | D | E | F | G | H | I | J | K | Mass |
|------------|-----------------|----------------|-----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|-----------------|---------------|
| | mm (inch) | | | | | | | | | | | kg (lb) |
| C-10-4 | 63,5 (2.50) | 31,7 (1.25) | 82,5 (3.25) | 31,7 (1.25) | 15,8 (0.62) | 3,1 (0.12) | 34,9 (1.37) | 19,0 (0.75) | 7,1 (0.28) | 9,5 (0.37) | 50,8 (2.00) | 0,3 (0.72) |
| C-16-4 | 106,6 (4.00) | 50,8 (2.00) | 133,3 (5.25) | 50,8 (2.00) | 25,4 (1.00) | 3,8 (0.15) | 53,9 (2.12) | 25,4 (1.00) | 8,7 (0.34) | 22,2 (0.87) | 82,5 (3.25) | 1,4 (3.24) |
| C-20-4 | 114,3 (4.50) | 57,1 (2.25) | 117,8 (7.00) | 63,5 (2.50) | 31,7 (1.25) | 4,0 (0.16) | 72,1 (2.84) | 31,7 (1.25) | 10,4 (0.41) | 25,4 (1.00) | 113,5 (4.47) | 2,6 (5.76) |

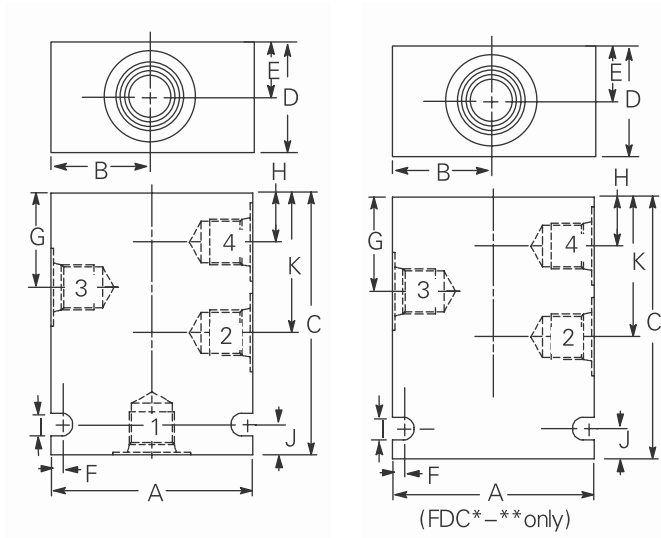
Note: For C-10-4 housings for VCB valves see page J-25.

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

| Housing | Ports 1, 2, 3 & 4 | Part number | Code |
|---------|-------------------|-------------|--------|
| C-8-4 | 1/4" BSPP | 02-160747 | (A)2G |
| | 3/8" BSPP | 02-160748 | (A)3G |
| | SAE 4 | 02-160749 | (A)4T |
| | SAE 6 | 02-160750 | (A)6T |
| C-10-4 | 1/4" BSPP | 876709 | (A)2G |
| | 3/8" BSPP | 876715 | (A)3G |
| | SAE 6 | 876708 | (A)6H |
| | SAE 8 | 876713 | (A)8H |
| C-12-4 | 3/4" BSPP | 5986432-001 | (A)6G |
| | SAE 10 | 5986434-001 | (A)10T |
| | SAE 12 | 5986436-001 | (A)12T |
| C-16-4 | 1/2" BSPP | 876728 | (A)4G |
| | 3/4" BSPP | 876730 | (A)6G |
| | SAE 10 | 876279 | (A)10H |
| | SAE 12 | 876731 | (A)12H |
| C-20-4 | 3/4" BSPP | 876744 | (A)6G |
| | 1" BSPP | 876746 | (A)8G |
| | SAE 12 | 876745 | (A)12H |
| | SAE 16 | 876747 | (A)16H |

Housing (FDC-**only)**

| | | | |
|--------|-----------|-----------|-------|
| C-10-4 | 1/4" BSPP | 02-185804 | (A)2G |
| | 3/8" BSPP | 02-185805 | (A)3G |
| | SAE 6 | 02-185802 | (A)6H |
| | SAE 8 | 02-185803 | (A)8H |



Notes: BSPP porting is designated by "G" in the model code SAE porting is designated by either "H" in the model code.

Fatigue rated aluminum housings are intended for applications up to 210 bar (3000 psi) with harsh duty cycles. These housings have been fatigue rated to NFPA standards to one million cycles.

For C-10-4 and C-12-4 housings for VCB valves see pages J-25 & J-27 respectively.

| Dimensions | A | B | C | D | E | F | G | H | I | J | K | Mass |
|------------|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|-----------------|---------------|
| mm (inch) | | | | | | | | | | | | kg (lb) |
| C-8-4 | 63,5 (2.50) | 31,8 (1.25) | 82,6 (3.25) | 38,1 (1.50) | 19,1 (0.75) | 3,2 (0.13) | 29,8 (1.17) | 15,5 (0.61) | 7,1 (0.28) | 9,6 (0.38) | 44,0 (1.73) | 0,8 (1.76) |
| C-10-4 | 76,2 (3.00) | 38,1 (1.50) | 88,9 (3.50) | 50,8 (2.00) | 25,4 (1.00) | 9,5 (0.37) | 36,6 (1.44) | 20,8 (0.82) | 7,1 (0.28) | 12,7 (0.50) | 52,5 (2.07) | 0,9 (2.00) |
| C-12-4 | 88,9 (3.50) | 44,5 (1.75) | 127,0 (5.00) | 63,5 (2.50) | 31,8 (1.25) | 10,3 (0.40) | 51,6 (2.03) | 28,7 (1.13) | 8,7 (0.34) | 25,4 (1.00) | 74,4 (2.93) | 1,6 (3.6) |
| C-16-4 | 114,3 (4.50) | 60,3 (2.37) | 139,7 (5.50) | 63,5 (2.50) | 31,8 (1.25) | 10,3 (0.40) | 57,0 (2.24) | 28,4 (1.12) | 8,7 (0.34) | 25,4 (1.00) | 85,5 (3.37) | 2,4 (5.29) |
| C-20-4 | 127,0 (5.00) | 63,5 (2.50) | 177,8 (7.00) | 82,5 (3.25) | 41,3 (1.63) | 10,3 (0.40) | 76,5 (3.01) | 36,0 (1.42) | 8,7 (0.34) | 19,0 (0.75) | 117,8 (4.63) | 4,7 (10.5) |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

C-**-4

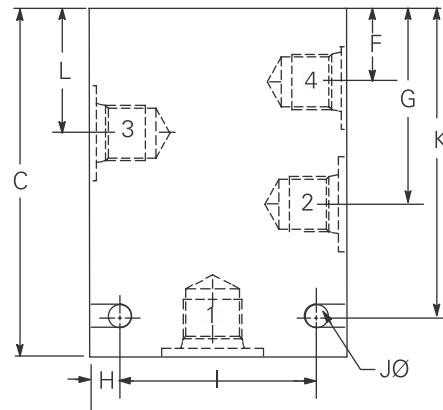
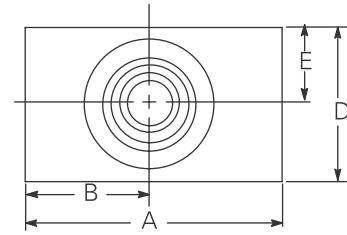
Steel housings (NFPA fatigue rated)

| Housing | Ports 1, 2, 3 & 4 | Part number | Code |
|---------|-------------------|-------------|--------|
| C-8-4 | 1/4" BSPP | 02-160751 | (S)2G |
| | 3/8" BSPP | 02-160752 | (S)3G |
| | SAE 4 | 02-160753 | (S)4T |
| | SAE 6 | 02-160754 | (S)6T |
| C-10-4 | 1/4" BSPP | 02-175139 | (S)2G |
| | 3/8" BSPP | 02-175140 | (S)3G |
| | SAE 6 | 02-175137 | (S)6T |
| | SAE 8 | 02-175138 | (S)8T |
| C-16-4 | 1/2" BSPP | 02-175143 | (S)4G |
| | 3/4" BSPP | 02-175144 | (S)6G |
| | SAE 10 | 02-175141 | (S)10T |
| | SAE 12 | 02-175142 | (S)12T |
| C-20-4 | 1/2" BSPP | 02-175147 | (S)4G |
| | 3/4" BSPP | 02-175148 | (S)6G |
| | SAE 12 | 02-175145 | (S)12T |
| | SAE 16 | 02-175146 | (S)16T |

Notes: BSPP porting is designated by "G" in the model code SAE porting is designated by "T" in the model code 8 series utilize slot in place of mounting hole.

Fatigue rated steel housings are intended for applications up to 350 bar (5000 psi) with harsh duty cycles. These housings have been fatigue rated to NFPA standards to one million cycles.

For C-10-4 and C-12-4 housings for VCB valves see pages J-24 & J-27 respectively.



| Dimensions | A | B | C | D | E | F | G | H | I | J | K | L | Mass |
|------------|-----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|
| mm (inch) | | | | | | | | | | | | | kg (lb) |
| C-8-4* | 63,5 (2.50) | 31,8 (1.25) | 82,6 (3.25) | 38,1 (1.50) | 19,1 (0.75) | 15,5 (0.61) | 44,0 (1.73) | 3,3 (0.13) | 57,1 (2.25) | 7,1 (0.28) | 73,0 (2.88) | 29,8 (1.17) | 1,2 (2.70) |
| C-10-4 | 76,2 (3.00) | 38,1 (1.50) | 88,9 (3.50) | 44,4 (1.75) | 22,2 (0.87) | 19,1 (0.75) | 50,8 (2.00) | 9,5 (0.37) | 57,1 (2.25) | 7,1 (0.28) | 76,2 (3.00) | 34,9 (1.37) | 1,9 (4.35) |
| C-16-4 | 101,6 (4.00) | 50,8 (2.00) | 139,7 (5.50) | 50,8 (2.00) | 25,4 (1.00) | 25,4 (1.00) | 82,5 (3.25) | 12,7 (0.50) | 76,2 (3.00) | 10,3 (0.40) | 120,6 (4.75) | 53,9 (2.12) | 5,6 (12.40) |
| C-20-4 | 114,3 (4.50) | 57,1 (2.25) | 177,8 (7.00) | 63,5 (2.50) | 31,8 (1.25) | 31,8 (1.25) | 113,5 (4.47) | 19,1 (0.75) | 76,2 (3.00) | 11,8 (0.47) | 152,4 (6.00) | 72,1 (2.84) | 8,2 (18.20) |

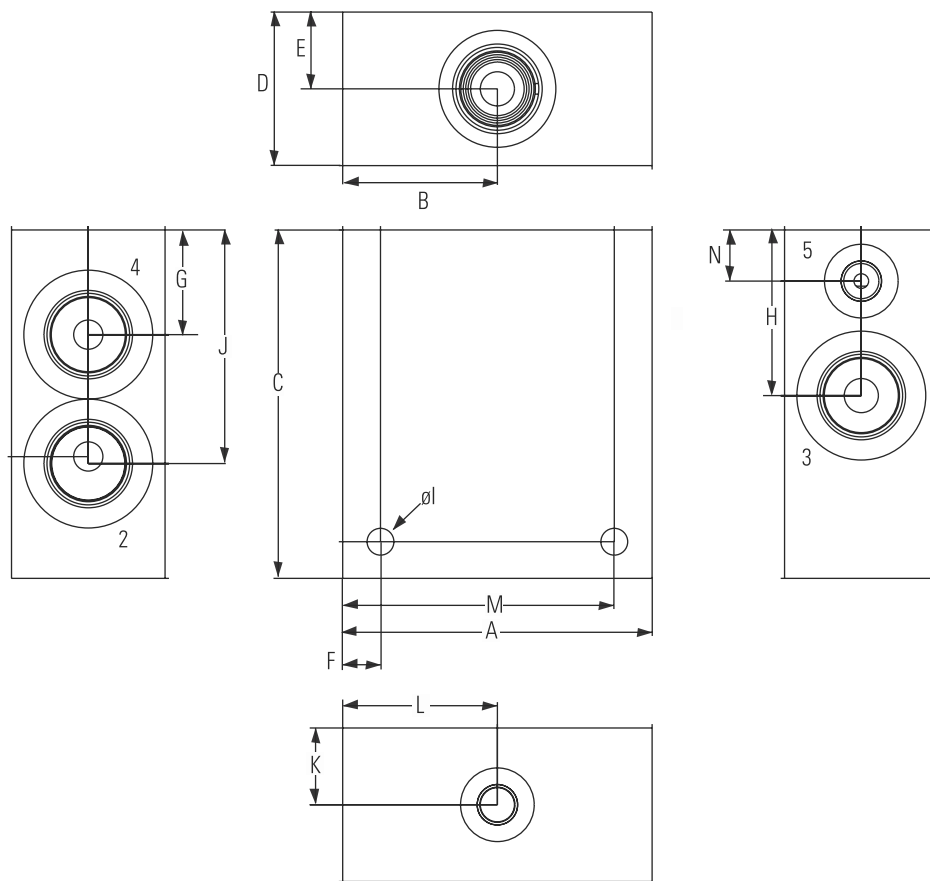
* 8 Series housings utilize slot instead of mounting holes.

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

| Housing | Ports 2,3,4 | Port 1,5 | Aluminum part number | Code | Steel part number | Code |
|---------|-------------|-----------|----------------------|--------|-------------------|--------|
| C-12-5S | SAE 10 | SAE 4 | 4998820-001 | (A)10T | 4998821-001 | (S)10T |
| | SAE 12 | SAE 4 | 4998820-002 | (A)12T | 4998821-002 | (S)12T |
| | 1/2" BSPP | 1/4" BSPP | 4998820-003 | (A)04G | 4998821-003 | (S)04G |
| | 3/4" BSPP | 1/4" BSPP | 4998820-004 | (A)06G | 4998821-004 | (S)06G |
| C-16-5S | SAE 12 | SAE 4 | 4994880-001 | (A)12T | 4994881-001 | (S)12T |
| | SAE 16 | SAE 4 | 4994880-002 | (A)16T | 4994881-002 | (S)16T |
| | 3/4" BSPP | 1/4" BSPP | 4994880-003 | (A)06G | 4994881-003 | (S)06G |
| | 1" BSPP | 1/4" BSPP | 4994880-004 | (A)08G | 4994881-004 | (S)08G |
| C-20-5S | SAE 12 | SAE 4 | 4998822-001 | (A)12T | 4998823-001 | (S)12T |
| | SAE 16 | SAE 4 | 4998822-002 | (A)16T | 4998823-002 | (S)16T |
| | 3/4" BSPP | 1/4" BSPP | 4998822-003 | (A)06G | 4998823-003 | (S)06G |
| | 1" BSPP | 1/4" BSPP | 4998822-004 | (A)08G | 4998823-004 | (S)08G |

Notes: BSPP porting is designated by "G" in the model code SAE porting is designated by "T" in the model code.

Fatigue rated aluminum and steel housings are intended for applications up to 210 bar (3000 psi) and 350 bar (5000 psi) respectively with harsh duty cycles. These housings have been fatigue rated to NFPA standards to one million cycles.



| Dimensions | A | B | C | D | E | F | G | H | DIA. I | J | K | L | M | N |
|------------------|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|
| mm (inch) | | | | | | | | | | | | | | |
| C-12-5S | 100.8 (3.97) | 50.4 (1.99) | 113.5 (4.47) | 50 (1.97) | 25 (0.99) | 12.3 (0.49) | 34.1 (1.34) | 54 (2.13) | 8.7 (0.34) | 76.1 (3.00) | 25 (0.99) | 50.4 (1.99) | 88.5 (3.49) | 16.7 (0.66) |
| C-16-5S | 113.5 (4.47) | 56.8 (2.24) | 126.2 (4.97) | 62.7 (2.47) | 31.4 (1.24) | 9.5 (0.38) | 36.1 (1.42) | 58.7 (2.31) | 8.7 (0.34) | 85.7 (3.38) | 31.4 (1.24) | 56.8 (2.24) | 104.8 (4.13) | 16.9 (0.66) |
| C-20-5S | 126.2 (4.97) | 63.1 (2.49) | 138.9 (5.47) | 75.4 (2.97) | 37.7 (1.49) | 12.7 (0.50) | 37.6 (1.48) | 62.3 (2.45) | 10.3 (0.40) | 87.4 (3.44) | 37.7 (1.09) | 63.1 (2.49) | 114.3 (4.50) | 16.8 (0.66) |

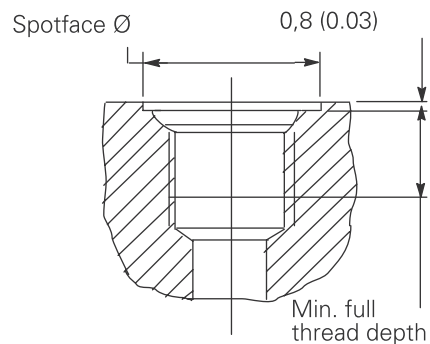
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Port dimensions

Key dimensions in all standard housings

| SAE Size | Thread size | Minimum spotface \varnothing | Minimum full thd depth |
|----------|------------------|--------------------------------|------------------------|
| 4 | 0.437"-20 UNF-2B | 21,1 (0.82) | 11,5 (0.45) |
| 6 | 0.563"-18 UNF-2B | 24,7 (0.96) | 12,7 (0.50) |
| 8 | 0.750"-16 UNF-2B | 30,2 (1.18) | 14,2 (0.56) |
| 10 | 0.875"-14 UNF-2B | 34,2 (1.34) | 16,6 (0.65) |
| 12 | 1.062"-12 UN-2B | 41,3 (1.62) | 19,0 (0.75) |
| 16 | 1.312"-12 UN-2B | 48,6 (1.91) | 19,0 (0.75) |

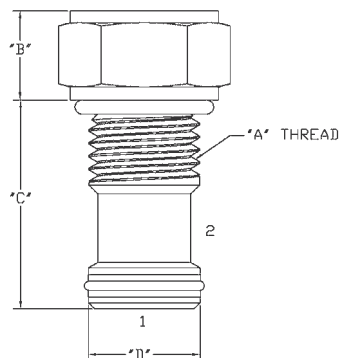
| BSPP thread size | Minimum spotface \varnothing | Minimum full thd depth |
|------------------|--------------------------------|------------------------|
| 1/4" | 24 (0.94) | 12,2 (0.48) |
| 3/8" | 27 (1.06) | 12,2 (0.48) |
| 1/2" | 33 (1.29) | 15,0 (0.59) |
| 3/4" | 42 (1.65) | 16,3 (0.64) |
| 1" | 47 (1.85) | 19,1 (0.75) |



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Standard plugs

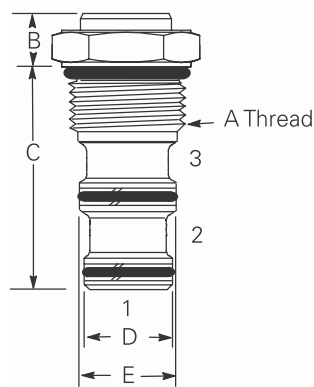
C-**-2 Cavity Plugs



| Size | To fit cavity | | | | Assy. no. | Seal kit |
|--------|---------------|----------------|----------------|----------------------------|-------------|----------------------------|
| | A | B | C | øD | | Buna-N Viton® |
| C-4-2 | 0.4375"-20 | 5,1 (0.20) | 21,8 (0.86) | 8,61/8,66 (0.339/0.341) | 5986597-001 | 9900174-000 9900175-000 |
| C-8-2 | 0.750"-16 | 9,1 (0.36) | 27,4 (1.08) | 12,6/12,5 (0.498/0.496) | 02-171585 | 02-165877 02-165875 |
| C-10-2 | 0.875"-14 | 7,9 (0.31) | 31,7 (1.25) | 15,8/15,7 (0.62/0.62) | 565814 | 565806 889627 |
| C-12-2 | 1.062"-12 | 18,7 (0.74) | 44,5 (1.75) | 23,7/23,7 (.936/.934) | 02-171710 | 02-165889 02-165888 |
| C-16-2 | 1.312"-12 | 12,7 (0.50) | 44,7 (1.76) | 28,5/28,5 (1.12/1.12) | 565816 | 889631 889635 |
| C-20-2 | 1.625"-12 | 13,5 (0.53) | 57,2 (2.25) | 36,4/36,4 (1.43/1.43) | 566440 | 889639 889643 |

Note: To block flow from between the ports in any unused standard cavity, in a housing or manifold. Order cavity plugs by part number.

C-**-3(S) cavity plugs



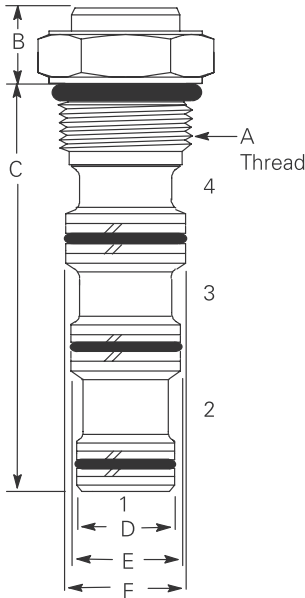
| Size | To fit cavity | | | | | Assy. no. | Seal kit |
|---------|---------------|----------------|----------------|----------------------------|----------------------------|-------------|----------------------------|
| | A | B | C | D | E | | Buna-N Viton® |
| C-4-3 | 0.4375"-20 | 5,1 (0.20) | 37,3 (1.47) | 7,82/7,87 (0.308/0.310) | 8,61/8,66 (0.339/0.341) | 5986599-001 | 9900176-000 9900177-000 |
| C-8-3 | 0.750"-16 | 9,1 (0.36) | 40,7 (1.60) | 14,2/14,0 (0.56/0.55) | 15,8 (0.623/0.621) | 02-171708 | 02-160755 02-160765 |
| C-10-3S | 0.875"-14 | 7,9 (0.30) | 74,2 (1.86) | 17,4/17,4 (0.68/0.68) | 19,0/18,9 (0.74/0.74) | 566436 | 02-173019 |
| C-10-3 | | | 46,0 (1.81) | 15,8/15,7 (0.62/0.62) | 17,4/17,3 (0.68/0.68) | | 889624 889628 |
| C-12-3S | 1.062"-12 | 18,7 (0.74) | 57,7 (2.27) | 22,1/22,1 (0.874/0.872) | 23,7/23,7 (0.936/0.934) | 02-171711 | 02-180095 |
| C-12-3 | | | 67,1 (2.64) | - | - | | 02-165887 02-165872 |
| C-16-3S | 1.312"-12 | 12,7 (0.50) | 55,6 (2.18) | 25,3/25,3 (0.99/0.99) | 28,5/28,5 (1.2/1.2) | 566438 | 889633 |
| C-16-3 | | | 73,1 (2,87) | 26,9/26,9 (1.06/1.06) | 28,5/28,5 (1.2/1.2) | | 889637 889636 |
| C-20-3S | 1.625"-12 | 13,5 (0.53) | 76.2 (3.0) | 33,3/33,2 (1.31/1.30) | 36,4/36,4 (1.43/1.43) | 566442 | 02-113153 |
| C-20-3 | | | 98.5 (3.87) | 33,3/33,2 (1.31/1.30) | 36,4/36,4 (1.43/1.43) | | 889640 889644 |

Note: C-16-2 cavity plug can be used to block port 3 of C-16-3

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Cavity plugs

C-**-4 cavity plugs



| To Fit cavity size | A | B | C | D | øE | øF | øG | Assy no. |
|--------------------|-----------|---|----------------|-----------------|--------------------------|--------------------------|--------------------------|-----------|
| C-8-4 | 0.750"-16 | 22,2 (0.87) hex. Torque 35-40 Nm(25-30 lbf ft) | 8,6 (0.34) | 54,6 (2,15) | 12,6 (0.49) | 14,2 (0.55) | 15,8 (0.62) | 02-171709 |
| C-10-4(U) | 0.875"-14 | 25,4 (1.0) hex. Torque 47-54 Nm (35-40 lbf ft) | 7,9 (0.31) | 61,9 (2.43) | 15,8/15,7 (0.62/0.62) | 17,4/17,3 (0.68/0.68) | 19,0/18,9 (0.74/0.74) | 566244 |
| C-16-4 | 1.312"-12 | 38,1 (1.50) hex. Torque 109-122 Nm (80-90 lbf ft) | 12,7 (0.50) | 101,6 (4.00) | 25,3/25,3 (0.99/0.99) | 26,9/26,9 (1.06/1.05) | 28,5/28,5 (1.12/1.12) | 566439 |
| C-20-4 | 1.625"-12 | 47,6 (1.87) hex. Torque 129-156 Nm (95-115 lbf ft) | 13,5 (0.53) | 139,7 (5.50) | 31,7/31,6 (1.24/1.24) | 33,3/33,2 (1.31/1.30) | 36,4/36,4 (1.43/1.43) | 566443 |

⚠ Important

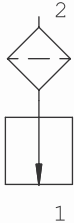
The cartridges listed are complete with seals compatible with antiwear hydraulic oil. If cartridges are to be compatible with antiwear

and phosphate ester, order cartridges by part number plus the appropriate Viton seal kit as listed in Spare parts. Before using the cartridge, change the seals to Viton.

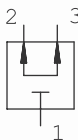
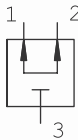
Special purpose cavity plugs

Functional symbols

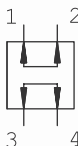
Filter cartridge plugs



Special 3 way cavity plugs



Special 4 way cavity plugs



| To fit cavity size | Assy. no. | Seal kit |
|--------------------|-----------|------------------------------------|
| C-10-2 | 02-186758 | 566806 (Buna-N) 889627 (Viton®) |

Screen fitted on cartridge, intended direction of flow is from port 2 to 1 only. Maximum rated flow is 76 L/min (20 USgpm), maximum operating pressure is 350 bar (5000 psi)

| To fit cavity size | Assy. no. | Seal kit |
|--------------------|-----------|--|
| C-8-3 | 02-186664 | 02-160755 (Buna-N) 02-160756 (Viton®) |
| C-10-3S | 02-185257 | 02-173019 (Buna-N) 02-173020 (Viton®) |

| To fit cavity size | Assy. no. | Seal kit |
|--------------------|-----------|------------------------------------|
| C-10-3 | 02-161831 | 889624 (Buna-N) 889628 (Viton®) |

| To fit cavity size | Assy. no. | Seal kit |
|--------------------|-----------|--|
| C-8-4 | 02-179151 | 02-160757 (Buna-N) 02-160758 (Viton®) |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

ECF - Pressure filters

Flows to 19 L/min (5 USgpm) fi Pressures to 207 bar (3000 psi)



Features and benefits

- Integrated disposable element which is screwed into the manifold port for last chance filtration
- Catches particles in a variety of sizes (20, 50, 70 microns)
- Universally adaptable to all sizes of standard manifolds

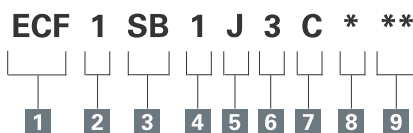
Design Specifications

| | | |
|--------------------------|--|----------|
| Rated flow | 19 L/min (5 USgpm) | |
| Fluid compatibility | Compatible with all petroleum, oil based and synthetic fluids. Not rated for use with fluoro-rubber or ethylene propylene seals. | |
| Temp range | -30°C to +121°C (-22°F to 250°F) | |
| Collapse pressure rating | 10 bar (145 psi) | |
| Cavity | BC20-S3 | |
| Material | Head | Aluminum |
| | Bowl | Aluminum |
| Dry weight | 0.11 kg (0.25 lbs) | |

Filter and element model code

Sample model code

ECF1SB1J3CB25



1 Filter Series - ECF

2 Element collapse rating

1 – 250 PSI low collapse

3 Port options

SB – 1.312-12 UN SAE-16 straight thread 1" O.D. tube

4 Valve options

1 – Non-Bypass (Screw directly into cavity)

5 Indicator options

J – No indicator

6 Assembly length

3 – 80.2mm (3.157")

7 Element construction

C – Standard construction

8 Seal material

B – Buna-N
V – Viton-A

9 Fluid cleanliness

| Code | Fluid cleanliness rating | Element construction |
|------|--------------------------|----------------------|
| 15 | 20/18/15 | C-Pak |
| 25 | | Wirescreen |
| 149 | | Wirescreen |

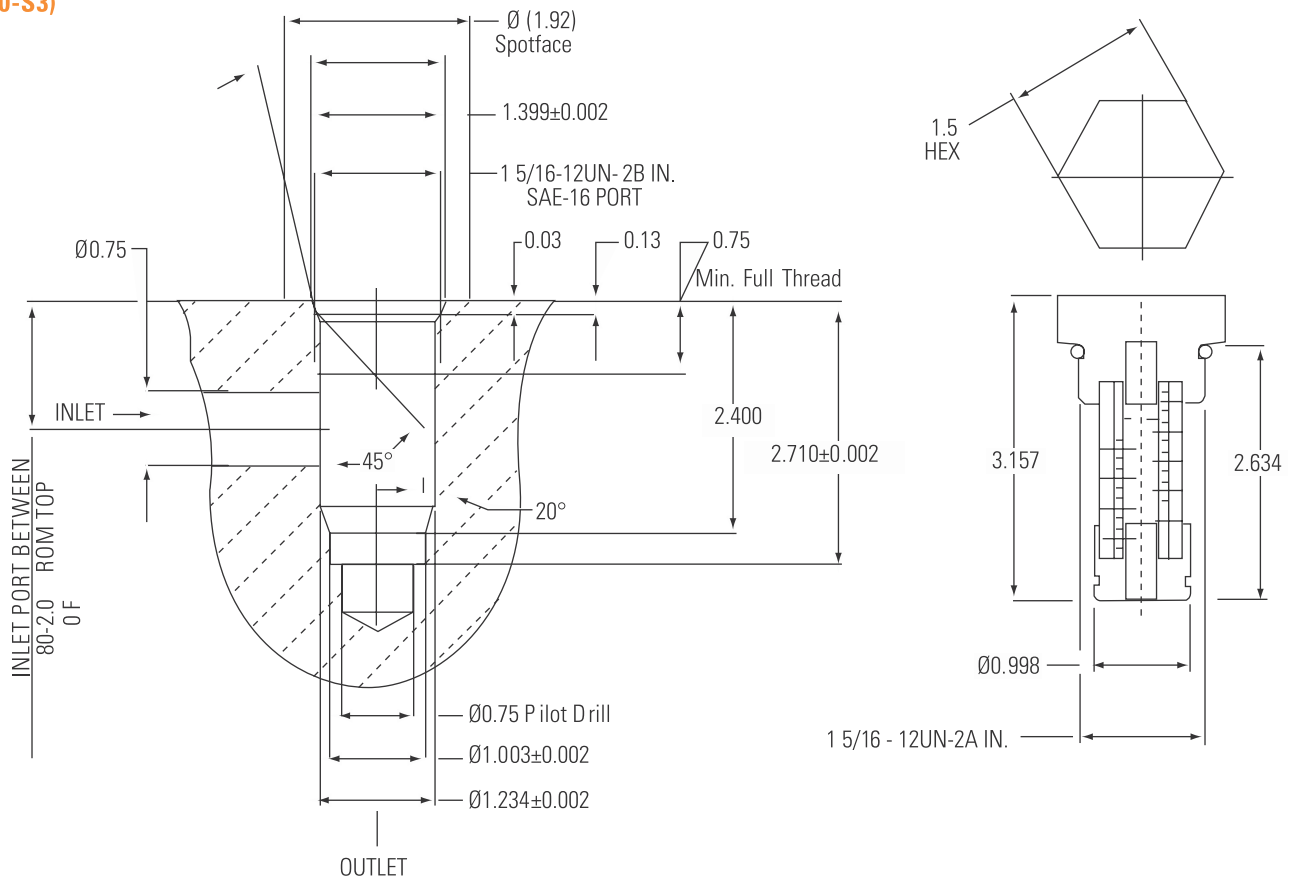
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

ECF - pressure filters

Flows to 19 L/min (5 USgpm) • Pressures to 207 bar (3000 psi)

Cavity dimensions (BC20-S3)

inch

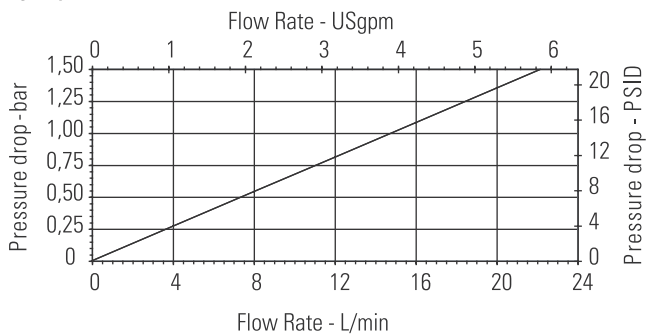


Housing/element flow data

Flow versus pressure drop:

150 SUS (32 cSt) oil with specific gravity of < 0.9

ECF-15



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Blank orifice discs (flat)

Note: For predrilled orifice discs, consult factory.

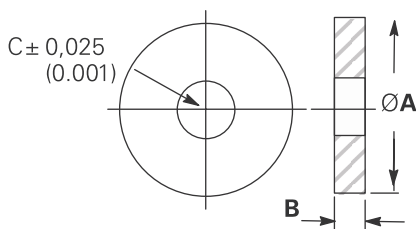
An orifice disc is installed at the bottom of a standard cavity to create a local pressure drop in the flow to and from port 1 of the cartridge.

Two series of discs are available according to the maximum pressure drop required:

1. Flat discs/maximum pressure drop/13,8 bar (200 psi).
2. Conical discs/maximum pressure drop/210 bar (3000 psi).

| Cavity sizes | Max pressure drop bar (psi) | øA | B | øC | Assy number |
|--------------|-----------------------------|-----------------------------|--------------|----|-------------|
| C-8-2/4 | 13,8 (200) | 12,45 (0.490) | 1,27 (0.050) | ● | 02-163254 |
| C-10-2/3/4 | 13,8 (200) | 5,80 (0.622) 15,75 (0.620) | 1,52 (0.060) | * | 02-162850 |
| C-16-2 | 13,8 (200) | 28,58 (1.125) 28,52 (1.123) | 2,03 (0.08) | * | 566247 |
| C-16-3 | 13,8 (200) | 26,97 (1.062) 26,92 (1.060) | 2,03 (0.08) | * | 02-162872 |
| C-16-3S/4 | 13,8 (200) | 25,4 (1.00) 25,35 (0.998) | 2,03 (0.08) | * | 02-174504 |

*User to specify

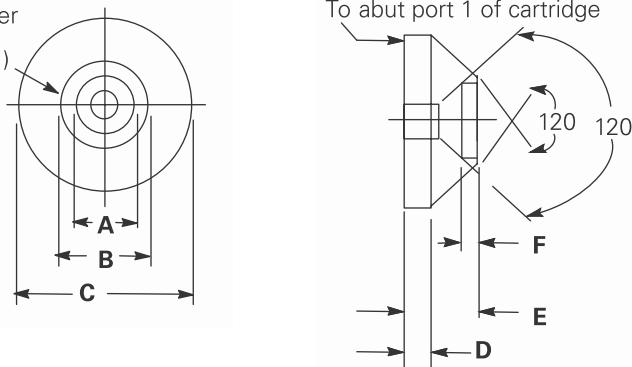


Blank orifice discs (conical)

| Cavity sizes | Max pressure drop bar (psi) | øA | øB | øC | d | E | F | Assy number |
|--------------|-----------------------------|--------------|--------------|--------------------------------|--------------|--------------|--------------|-------------|
| C-8-2/4 | 210 (3000) | 3,96 (0.156) | 5,84 (0.230) | 12,45 (0.490) | 1,90 (0.075) | 3,05 (0.120) | - | 02-174854 |
| C-8-3 | 210 (3000) | 3,96 (0.156) | 5,84 (0.230) | 14,05 (0.553) | 1,90 (0.075) | 3,05 (0.120) | - | 02-178181 |
| C-10-2 | 210 (3000) | 5,54 (0.218) | 6,35 (0.250) | 15,80 (0.622) 15,75 (0.620) | 1,14 (0.045) | 3,56 (0.140) | - | 566478 |
| C-12-2 | 210 (3000) | 7,14 (0.281) | - | 23,70 (0.933) 23,65 (0.931) | 2,41 (0.095) | 3,56 (0.140) | 1,14 (0.045) | 02-182842 |

Orifice diameter

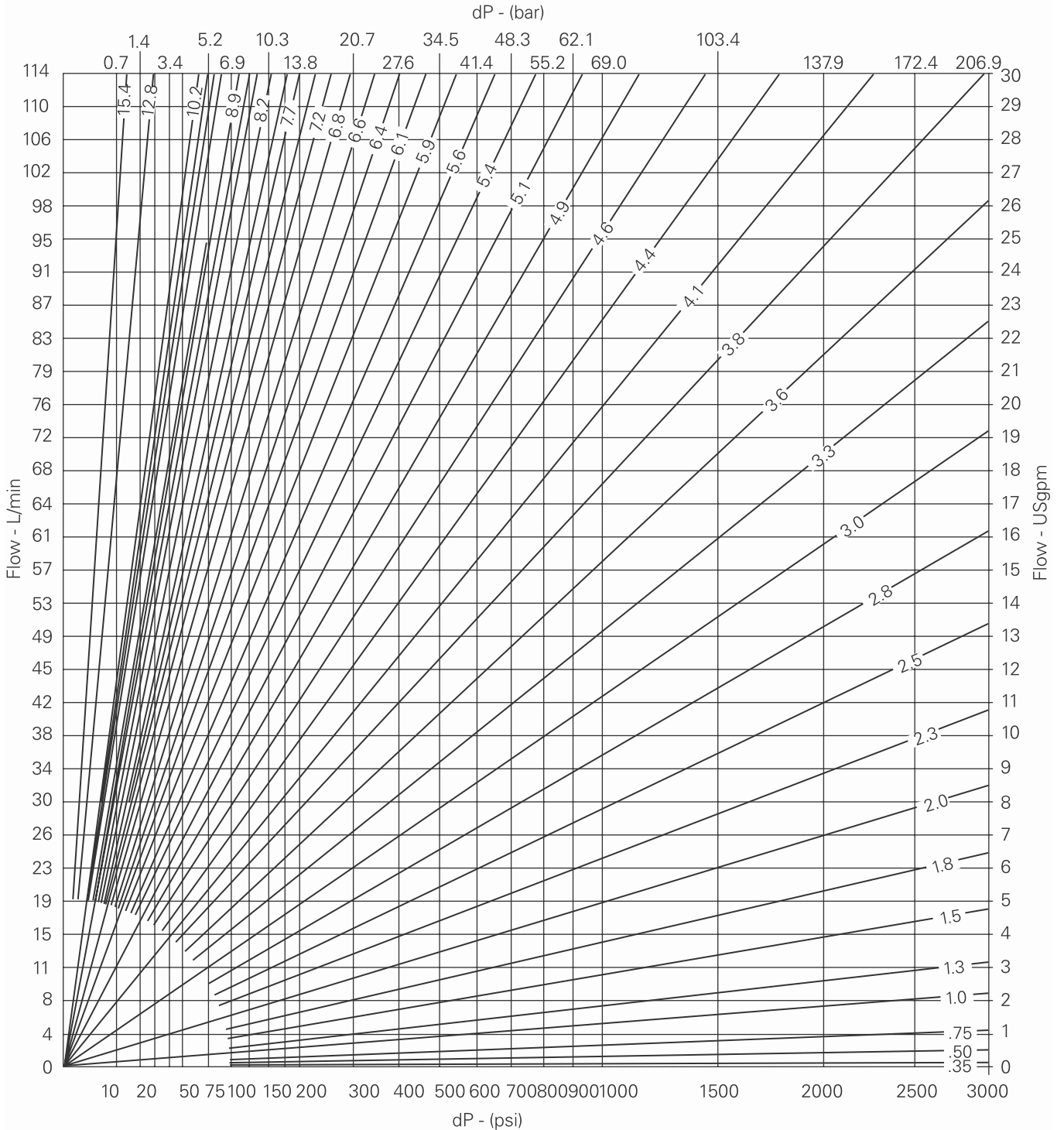
± 0,025 (0.001)



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Orifice disc - sizing guide (mm)

Select required orifice diameter using the graph below



Notes:

This chart is calculated at 21.8 cSt and 49°C for ISO VG32 fluid (DTE-24), values will change with viscosity changes.

To calculate orifice diameter at other flows and differential pressures use the following formula:

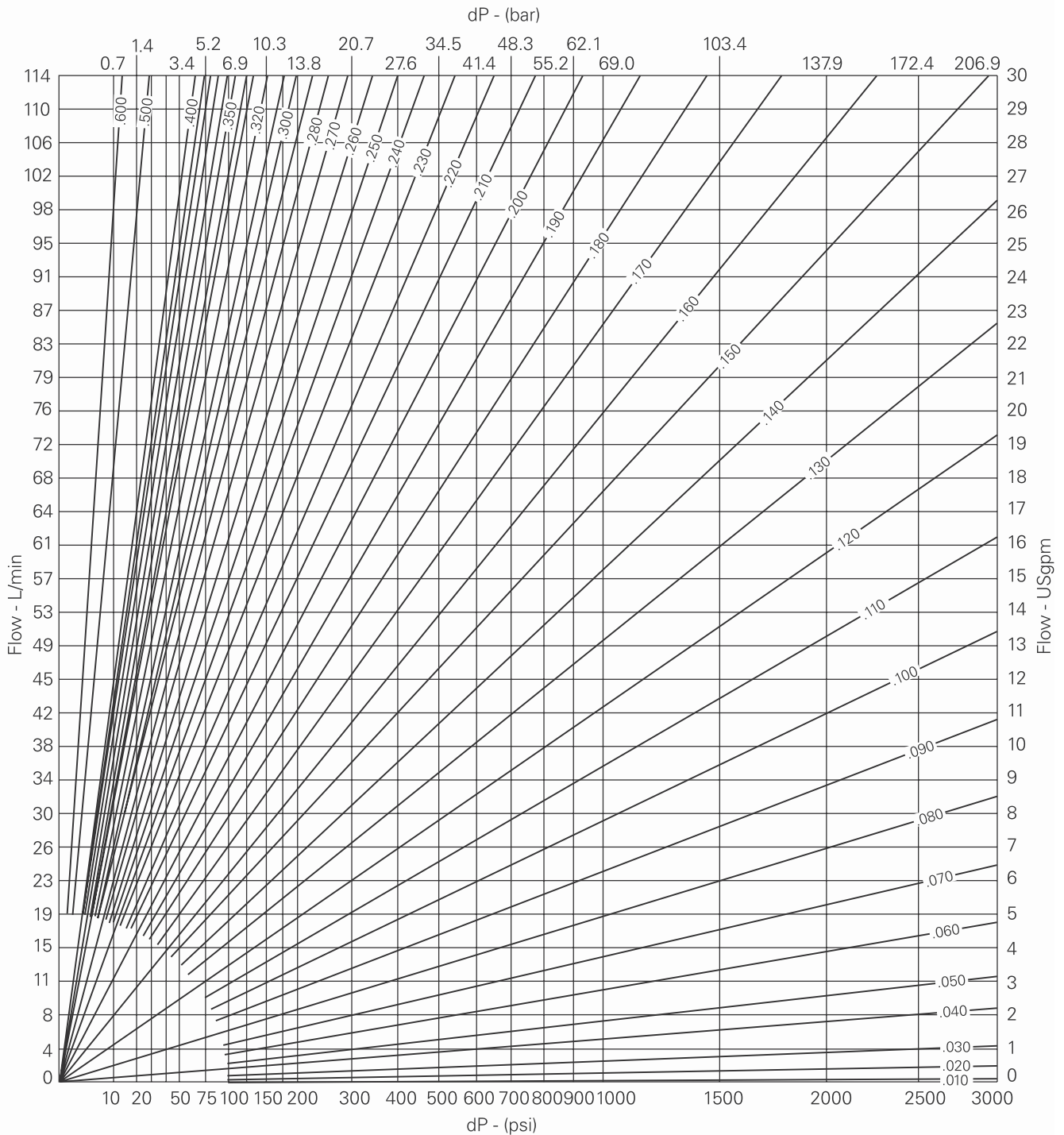
$$D = 1.350 \times \sqrt{Q / (\sqrt{\Delta P})}$$

where **D**= orifice diameter in inches; **Q**= flow in US gallons per minute; **ΔP**= differential pressure across orifice in bar.

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Orifice disc - sizing guide (inches)

Select required orifice diameter using the graph below



Notes:

This chart is calculated at 105 SUS and 120°F for ISO VG32 fluid (DTE-24), values will change with viscosity changes.

To calculate orifice diameter at other flows and differential pressures use the following formula:

$$D=0.203 \times \sqrt{Q/(\sqrt{\Delta P})}$$

where **D**= orifice diameter in inches; **Q**= flow in US gallons per minute; **ΔP**= differential pressure across orifice in PSI.

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Pilot pistons

Pilot piston assemblies dimensions

| Nominal cartridge size | Single or double acting | With or without stops | A | B | C | Required housing bore |
|------------------------|-------------------------|-----------------------|-------------|--------------|-------------|-----------------------|
| 8 | Single | Without | 15,1 (0.60) | 34,1(1.34) | 8,3 (0.33) | 12,73 (0.500) |
| | Double | Without | 15,1 (0.60) | 53,2 (2.10) | 8,3 (0.33) | 12,75 (0.502) |
| 10 | Single | Without | 19,1 (0.75) | 41,3 (1.63) | 13,5 (0.53) | 15,88 (0.625) |
| | Double | Without | 19,1 (0.75) | 57,2 (2.25) | 10,3 (0.41) | 15,88 (0.625) |
| | Single | With | 19,1 (0.75) | 45,7 (1.80) | 6,7 (0.26) | 15,90 (0.626) |
| | Double | With | 19,1 (0.75) | 54,8 (2.16) | 6,7 (0.26) | 15,90 (0.626) |
| 12 | Single | Without | 17,5 (0.69) | 44,5 (1.75) | 14,3 (0.56) | 23,80 (0.937) |
| | Double | Without | 17,5 (0.69) | 71,4 (2.81) | 14,3 (0.56) | 23,85 (0.939) |
| 16 | Single | Without | 31,8 (1.25) | 63,5 (2.50) | 12,7 (0.50) | 28,58 (1.125) |
| | Double | Without | 31,8 (1.25) | 95,3 (3.75) | 12,7 (0.50) | 28,60 (1.126) |
| 20 | Single | Without | 38,1 (1.50) | 77,8 (3.06) | 19,0 (0.75) | 36,50 (1.437) |
| | Double | Without | 38,1 (1.50) | 117,5 (4.63) | 19,0 (0.75) | 36,53 (1.438) |

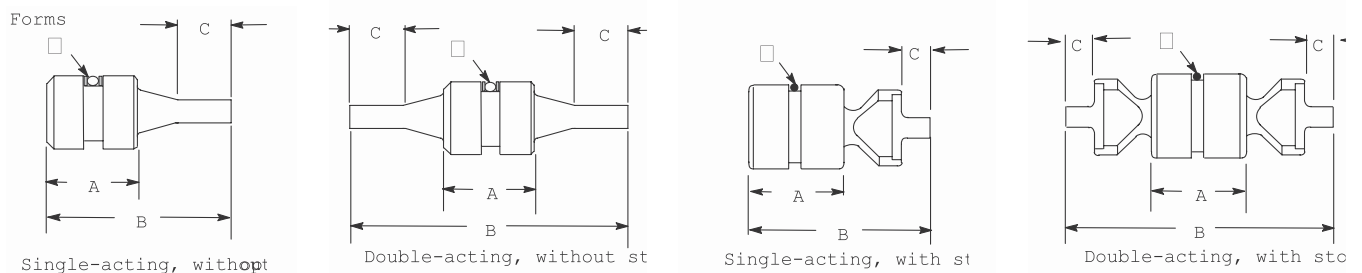
Note: Use with cartridges to form pilot operated check and similar functions in HIC and standard valve packages.

Warning

The use of pilot pistons with check valve assemblies may increase the load applied to the valve poppet which may result in reduced fatigue life of the cartridge

Part numbers

| Nominal cartridge size | Single or double acting | With or without stops | Piston with buna-N seals | Piston with viton® seal | Piston without seals |
|------------------------|-------------------------|-----------------------|--------------------------|-------------------------|----------------------|
| 8 | Single | Without | 02-178662 | 02-178663 | 02-178653 |
| | Double | Without | 02-178669 | 02-178670 | 02-178654 |
| 10 | Single | Without | 02-166275 | 566418 | 566417 |
| | Double | Without | 566419 | 566420 | 02-166313 |
| | Single | With | 566421 | 566422 | 566337 |
| | Double | With | 566423 | 566424 | 566338 |
| 12 | Single | Without | 02-185700 | 02-185701 | 02-185699 |
| | Double | Without | 02-185703 | 02-185704 | 02-185702 |
| 16 | Single | Without | 566425 | 566426 | 889052 |
| | Double | Without | 566428 | 566429 | 566427 |
| 20 | Single | Without | 566431 | 566432 | 566430 |
| | Double | Without | 566434 | 566435 | 566433 |



Note:

Sealed models have a central O-ring with a back-up ring on both sides.

WARNING

Seals should not be used with check valves that have < 50 psi crack pressure

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

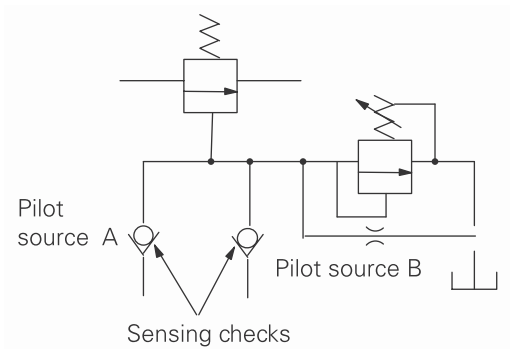
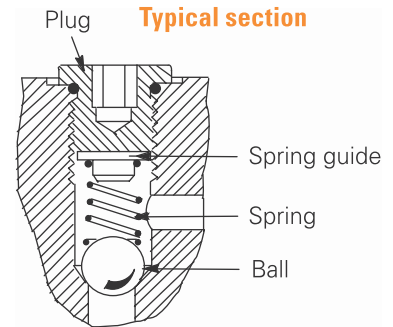
Sensing check/panel mount adapter

Sensing check

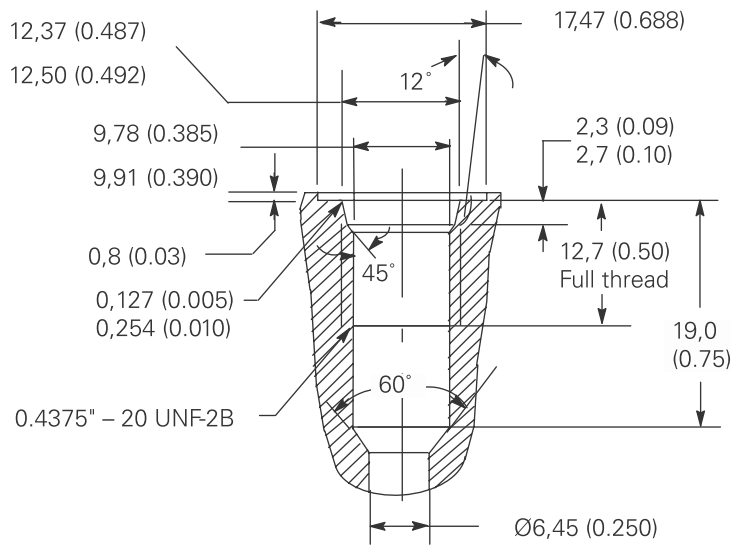
Sensing check kits can be built into customized manifolds to permit pilot control from two or more alternate sources, as example here:

Kit part numbers

| Sense Check kit | Part. no. |
|-------------------|-----------|
| with Buna-N seals | 566395 |
| with Viton® seals | 02-183199 |



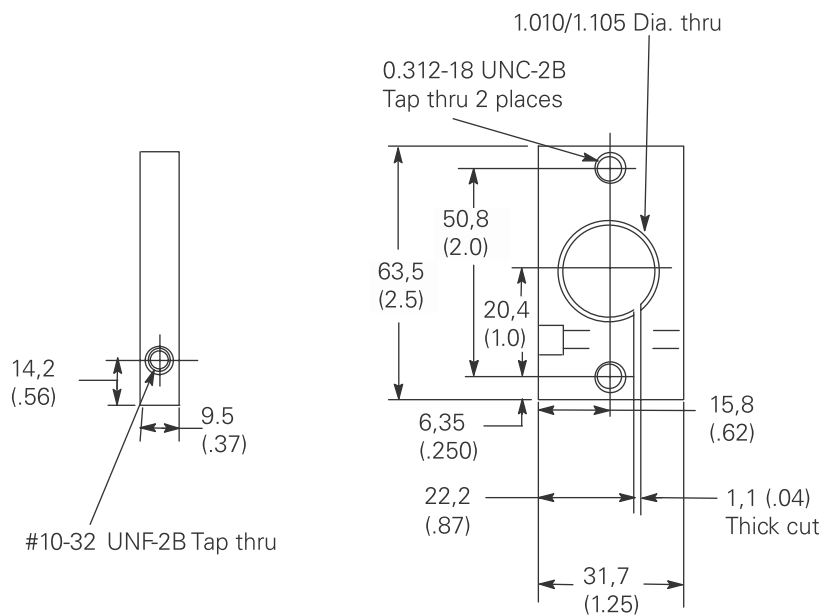
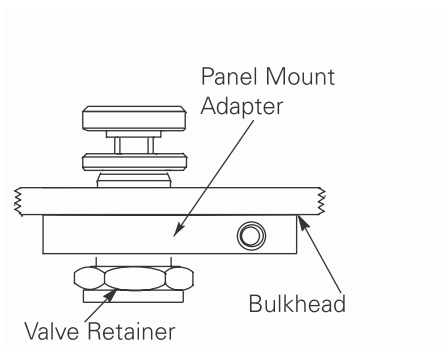
Sensing check cavity



Panel mount adapter for 10 & 12 series valves

Used for mounting an adjustable pressure valve through a bulkhead or panel surface.

Part number 02-161837



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Miscellaneous parts

Solenoid valve parts

Note:

When a solenoid valve is ordered as a cartridge only, the nut is included.

| Description | Part number |
|--|-------------|
| Nut for standard core tube valves | |
| 8 Series | 02-170821 |
| 10, 12, 16, 20 Series and SV9-8 | 565558 |
| 10, 12, 16, 20 Series 350 bar valves | 02-175698 |
| Coil Spacers | |
| Spacer for SV9-8 | 02-186730 |
| Spacer for SV9-10 | 02-179226 |
| Nut for extended core tube valves | |
| | 565559 |



Nut for standard core tube valves.



Nut for extended core tube valves.

Spare parts

| SPC1/DPC1/11 | | | | |
|--------------|-----------------------|--------------------|-----------------|-----------------|
| Model code | Check valve (Qty) | Pilot piston (QTY) | Buna-N seal kit | Viton® seal kit |
| SPC1-10-P | CV1-10(V)-P-0-15 (1) | 566417 (1) | 565803 | 566086 |
| SPC1-16-P | CV1-16(V)-P-0-20 (1) | 889052 (1) | 565810 | 889609 |
| SPC1-20-P | CV2-20(V)-P-0-15 (1) | 566430 (1) | 889615 | 889619 |
| DPC1-10-P | CV1-10(V)-P-0-15 (2) | 02-166313 (1) | 565803 | 566086 |
| DPC11-12-P | CV11-12(V)-P-0-15 (2) | 02-185702 (1) | 02-165889 | 02-165888 |
| DPC1-16-P | CV1-16(V)-P-0-20 (2) | 566427 (1) | 565810 | 889609 |
| DPC1-20-P | CV2-20(V)-P-0-15 (2) | 566433 (1) | 889615 | 889619 |

| MCV | | | | | | |
|------------|--------------|-------|----------------|-------|--------|-------|
| Model code | Check valve | (Qty) | Relief valve | (Qty) | Piston | (Qty) |
| MCV1-16 | CV1-16-P-0-5 | (1) | RV3-16-S-0-35/ | (1) | 889052 | (1) |
| MCV4-16 | CV1-16-P-0-5 | (4) | RV3-16-S-0-35/ | (2) | 889052 | (2) |
| MCV1-20 | CV2-20-P-0-5 | (1) | RV3-16-S-0-35/ | (1) | 889052 | (1) |
| MCV2-20 | CV2-20-P-0-5 | (2) | RV3-16-S-0-35/ | (2) | 889052 | (2) |

Adjustment kits

| PFR2-16 Series Knob Kit | | NV1 8-series | | Mcv series knob kit | |
|-------------------------|-------------|---------------------|-------------|-----------------------------------|--------------------|
| Description | Part number | Description | Part number | Description | Part number |
| K (Knob kit) | 565586 | C (Cap kit): | 02-170163 | K (Knob kit): | 565586 |
| Knob | 02-162137 | Cap | 02-170163 | Knob | 02-162137* |
| Jam nut | 02-170637 | Nut | 02-170161 | Jam nut | 02-170637* |
| Set screw | 000805 | K (Knob kit) | 02-171892 | Set screw | 000805* |
| | | Knob | 02-174439 | S (nut) | 565558 |
| | | Jam nut | 02-174515 | * Supplied as part of kit 565586 | |
| | | Set screw | 001016 | FCV11-12-S series knob kit | |
| | | S Kit: | | Description | Part number |
| | | Nut | 02-170159 | K (Knob kit): | 565585 |
| | | | | Knob | 02-184877 |
| | | | | Jam nut | 02-184878 |
| | | | | Set screw | 001016* |
| | | | | * Supplied as part of kit 565585 | |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

Adjustment Kits

(cont.)

Note: The only difference between the "D/B" and the "L/E" adjustment option is the orientation of the detent plate. The B/E options are not available in kit form. The only difference between these and the D/L versions is that the lever is replaced with 02-165925 and an additional 310204 set screw is required.

| NV1 10- Series | Part number |
|----------------|-------------|
| Knob | 888963 |
| Acorn nut | 02-162993 |
| Nameplate | 02-165920 |

| NV1 16-&20-Series | Part number |
|---------------------|-------------|
| Knob | 02-162130 |
| Acorn nut | 02-162992 |
| Nameplate(attached) | 02-165922 |

| FAR1-10/12 & 16 series | Part number |
|------------------------|-------------|
| Knob kit | 02-185169 |

| MRV2-10-D/L, B/E 10-series | Part number |
|----------------------------|-------------|
| Lever kit: | 565610 |
| Hub | 02-169085 |
| Lever | 888980 |
| Spring | 888986 |
| Plunger | 02-163705 |
| Insert | 02-169956 |
| Spring | 888874 |
| Detent pla. | 02-170023 |
| Plate supp. | 02-165090 |
| Nameplate | 888964 |
| Acorn nut | 02-162993 |

| MRV2-10-K 10-series | Part number |
|---------------------|-------------|
| Knob | 888963 |
| Acorn nut | 02-162993 |
| Nameplate | 888964 |

| MRV2-16-D/L, 16-series | Part number |
|------------------------|-------------|
| Lever kit: | 565611 |
| Hub | 02-169453 |
| Lever | 888988 |
| Spring | 888986 |
| Plunger | 02-163705 |
| Insert | 02-170103 |
| Spring | 888993 |
| Detent plate | 02-170102 |
| Plate supp. | 02-161901 |
| Nameplate | 02-165922 |
| Acorn nut | 02-162992 |

| MRV2-16-K 16- series | Part number |
|----------------------|-------------|
| Knob | 02-162130 |
| Acorn nut | 02-162992 |
| Nameplate | 888967 |

| Pressure control, 8-series | Part number |
|----------------------------|-------------|
| Retaining ring | 02-166712 |
| K (Knob kit) | 02-170164 |
| Cap | 02-162806 |
| Nut | 02-170159 |

Retaining ring is required for C and S controls. When converting from the "S" or "C" option to the "K" option, remove retaining ring and nut before installing the knob kit.

| Pressure control, 10 & 12-Series | Part number |
|----------------------------------|-------------|
| C (Cap) | 02-170616* |
| S (Nut) | 565558* |
| K (Knob kit) | 565585 |
| Knob | 02-165873 |
| Jam nut | 02-170635 |
| Set screw | 001016 |

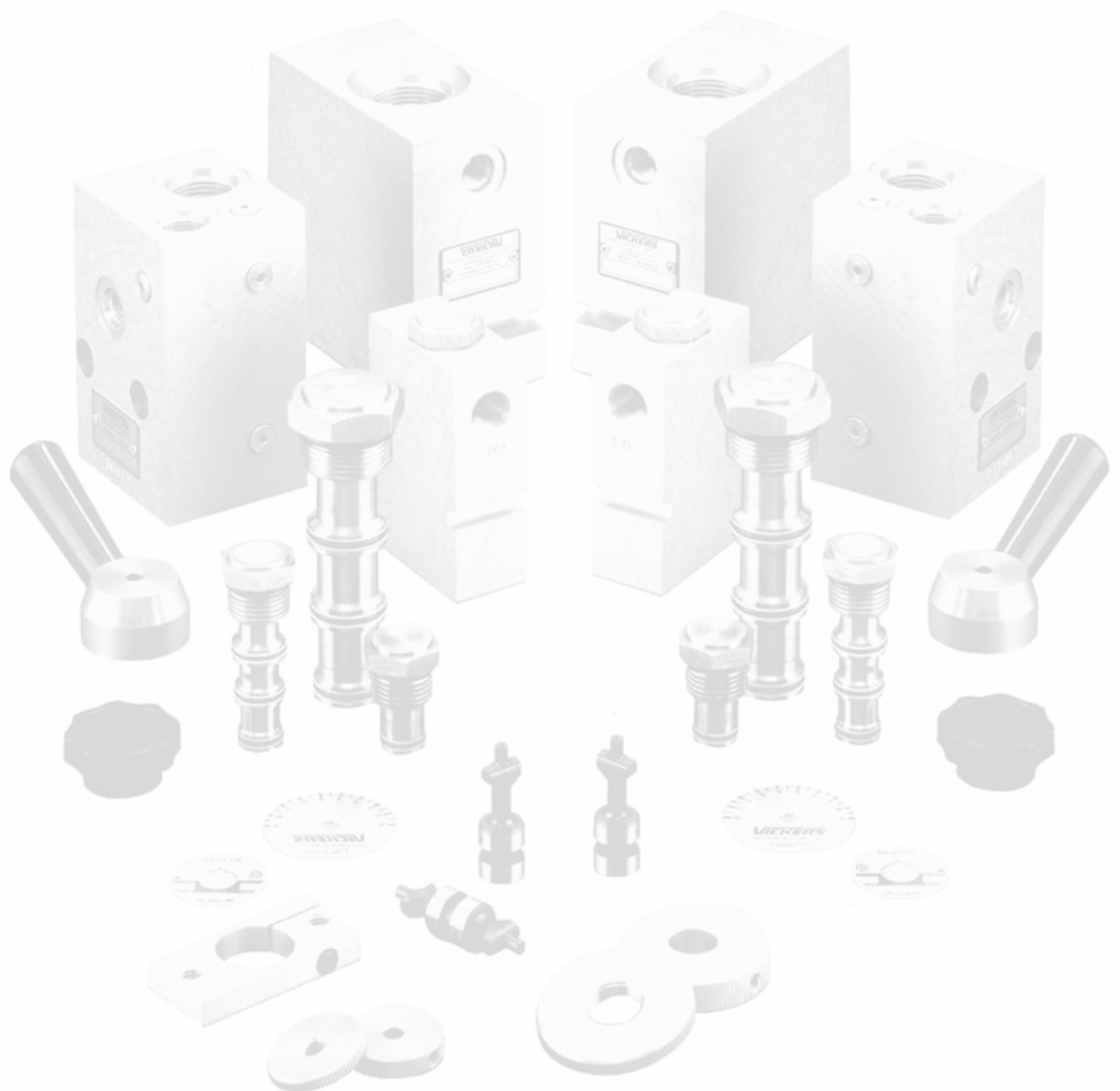
*These parts also used to service PUV3-10 models.

| Pressure control, 16-series | Part number |
|-----------------------------|-------------|
| S (Nut) | 565558 |
| RV3 K (Knob kit) | 565586 |
| Knob | 02-162137 |
| Jam nut | 02-170637 |
| Set screw | 000805 |
| RV5 K (Knob Kit) | 565585 |
| Knob | 02-165873 |
| Jam nut | 02-160635 |
| Set screw | 001016 |
| RV5 C (Cap) | 02-170616 |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

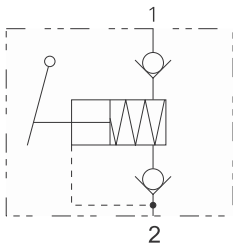


HYDRAULIC CONTROLS Pty Ltd



IHP7 - Hand pump

50 bar (725 psi)



Description

This hand pump has been designed to be used on machines which require emergency release of brakes or for pilot supply for emergency lowering of access platforms. It can also be utilized in the lubrication circuits.

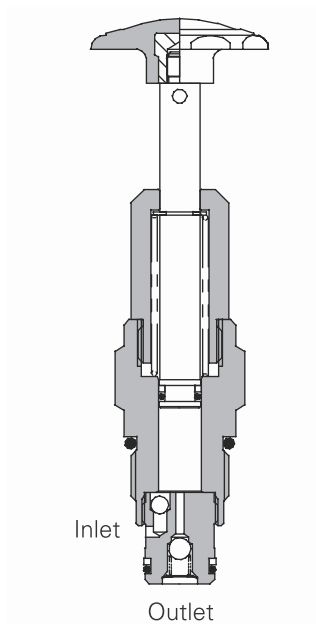
Operation

Depressing the plunger will force oil out through a check valve and into the system. The plunger will then retract drawing oil into the chamber through a second check valve.

Features

Built in pressure and suction checks. Self contained cartridge element. Low leakage ball and seat design. Minimal effort required for plunger movement.

Sectional view



Performance data

Ratings and specifications

Figures based on oil temperature of 40° C and viscosity of 32 cSt (150 SUS)

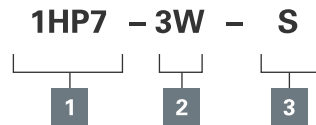
| | |
|------------------------------|--|
| Bore Diameter | 9.5 mm (0.375") |
| Stroke | 19 mm (0.75") |
| Displacement | 1.3 cc (1.3 ml)/stroke |
| Generated pressure | 50 bar (725 psi) |
| Cartridge material | Working parts hardened & ground steel |
| Body material | Zinc plated steel & anodised aluminium |
| Cavity Number | A12370 (See Section M) |
| Torque cartridge into cavity | 40 Nm (30 lbs ft) |
| Weight | 0.16 kg (0.35 lbs.) |
| Seal kit number | SK1224 (Nitrile) SK1224V (Viton) |
| Recommended filtration level | BS5540/4 Class 18/13 (25 micron nominal) |
| Operating Temperature | -30°C to +90°C (-22° to 194°F) |
| Leakage | 0.3 milliliters/min nominal (5 dpm) |
| Nominal viscosity range | 5 to 500 cSt |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

1HP7 - Hand pump

50 bar (725 psi)

Model code



1 Basic code

1HP7- Cartridge only
1HP75 - Cartridge and body

2 Port Size

| Code | Port size | Aluminum |
|-------------|----------------|----------|
| Omit | Cartridge only | |
| 3W | 3/8" BSP | B19053 |
| 8T | 1/2" SAE | B19402 |

3 Seals

S - Nitrile (for use with most industrial hydraulic oils)

SV - Viton® (for high temperature & most special fluid applications)

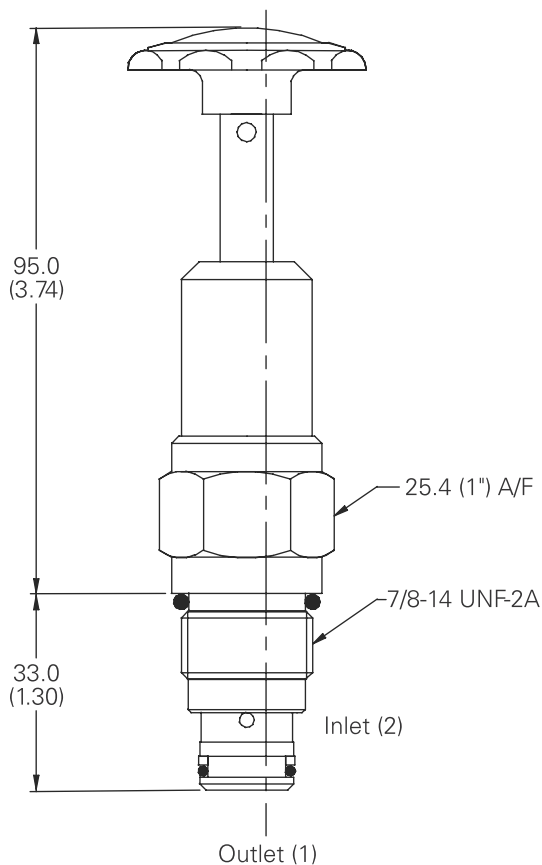
Dimensions

mm (inch)

Torque cartridge in aluminum housing 108-122 Nm (80-90 ft lbs)

Cartridge only

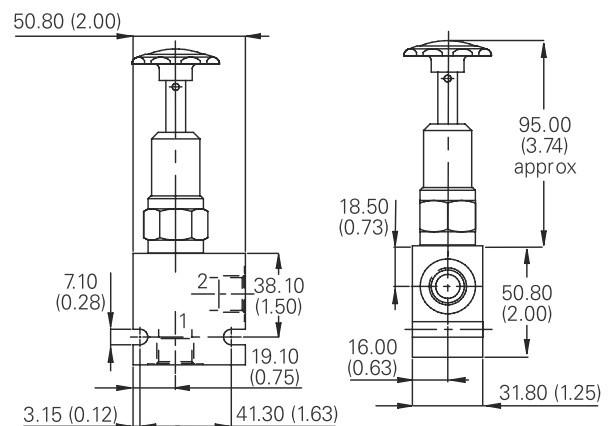
Basic Code: 1HP7



Installation drawing

Basic Code: 1HP75

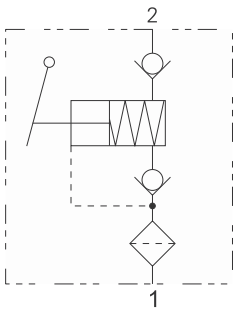
3/8" Ports



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

IHP10 - Hand pump

250 bar (3625 psi)



Description

This hand pump has been designed to be used on machines which require emergency release of brakes or for pilot supply for emergency lowering of access platforms. It can also be utilized in the lubrication circuits.

Operation

Depressing the plunger will force oil out through a check valve and into the system. The plunger will then retract drawing oil into the chamber through a second check valve.

Features

Built in pressure and suction checks and inlet strainer . Self contained cartridge element. Low leakage ball and seat design. Minimal effort required for plunger movement. Handle rotates on body to suit user.

Performance data

Ratings and specifications

Performance data is typical with fluid at 32 cST (150 SUS)

| | |
|------------------------------|--|
| Displacement | 1.9cc/stroke |
| Generated pressure | 250 bar (3625 psi) |
| Cartridge material | Steel with hard chrome piston |
| Cavity number | A878 (see Section M) |
| Torque cartridge into cavity | 45-50 Nm |
| Weight | 0.8 Kg (1.76 lbs) |
| Recommended Filtration Level | BS5540/4 Class 18/13 (25 micron nominal) |
| Operating temperature | -30° to +90° C (-22° to 194° F) |
| Nominal viscosity range | 5 to 500 cSt |

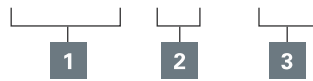
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

IHP10 - Hand pump

250 bar (3625 psi)

Model code

1HP10 - 3W - S



1 Basic code

- 1HP10** - Cartridge only
- 1HP15** - Cartridge and body

2 Port Size

| Code | Port Size | Aluminum |
|-------------|----------------|----------|
| Omit | Cartridge only | BXP16234 |
| 3W | 3/8" BSP | BXP16235 |
| 4W | 1/2" BSP | BXP16235 |

3 Seals

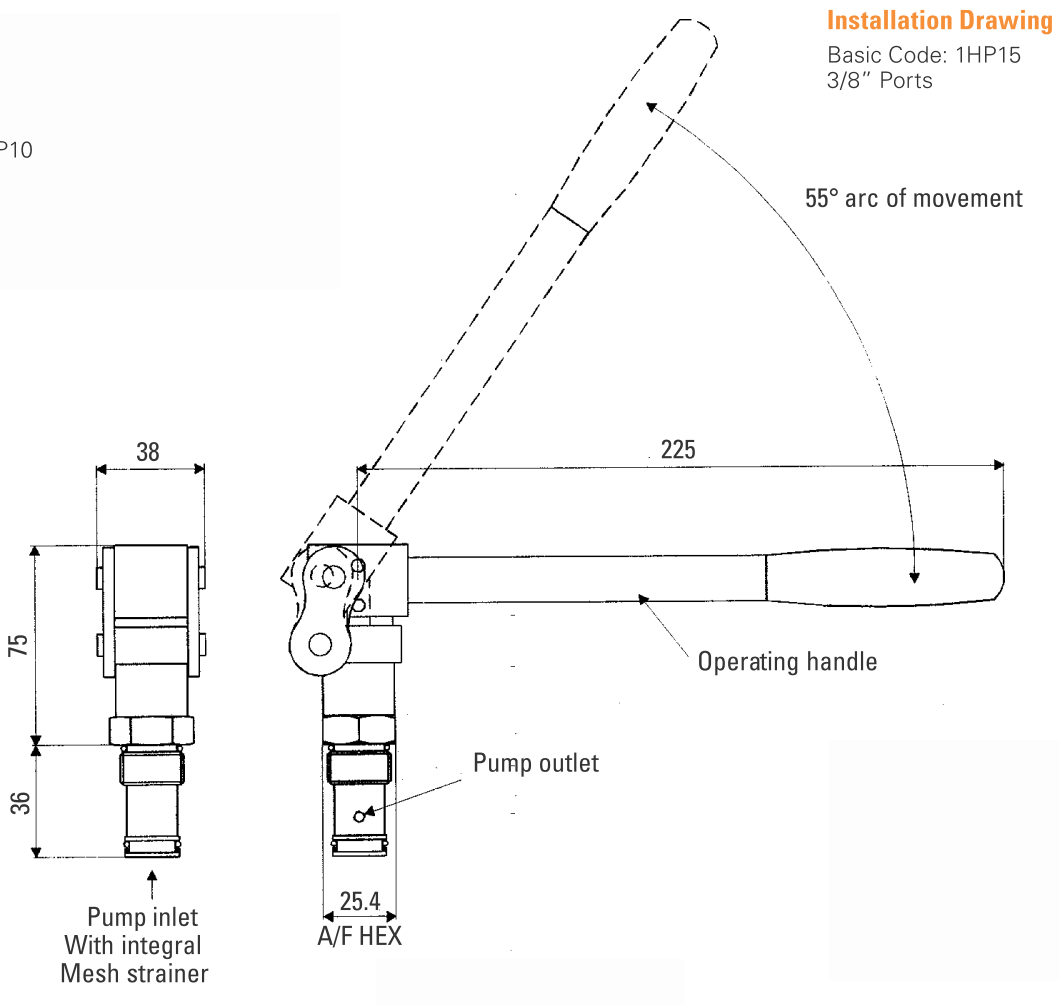
- S** - Nitrile (for use with most industrial hydraulic oils)
- SV** - Viton® (for high temperature & most special fluid applications)

Dimensions

mm (inch)

Cartridge only

Basic Code: 1HP10



Installation Drawing

Basic Code: 1HP15
3/8" Ports

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

IT162W6S - Pressure intensifier

Hydraulic integrated circuits

Description

This valve is used to convert low input pressure from a small low pressure pump or sub-circuit to high pressure up to 700 bar (10000 psi) and can eliminate the need for high pressure pump, or high-low type circuit. It is best suited for use with low horsepower, variable volume pumps. Contact main office for full specifications.

Operation

The pressure intensifier allows free flow of oil through the inlet to the actuator until high pressure is required, then reciprocates to intensify the pressure with a ratio of 6.5-1 between the inlet pressure and the intensified pressure up to a maximum 700 bar. The unit automatically makes up for any leakage to prevent loss of pressure during clamping or cutting operations. The flow to the 'P' port should be regulated to prevent a too rapid cycle rate.

Features

Eliminates the need for single stroke air/oil systems. Continuous automatic make up for leakage. Light weight and compact. Reliable high quality.

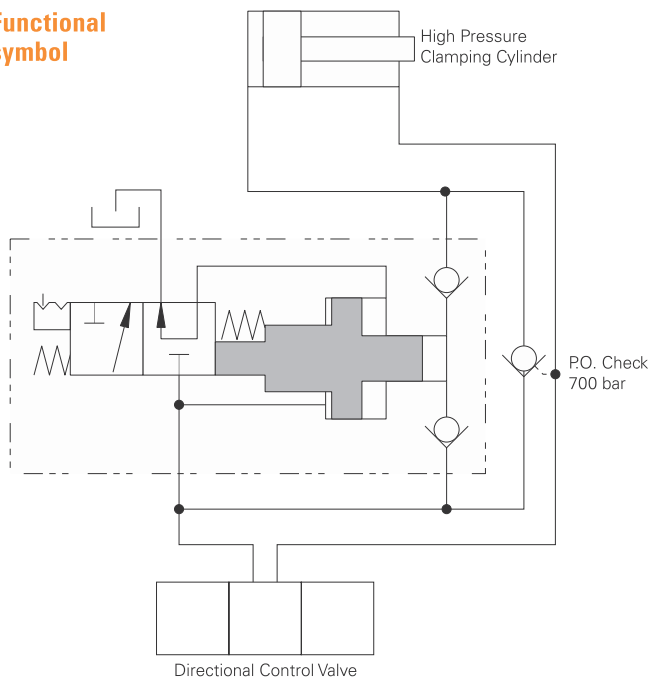
Max pressure:

Inlet 110 bar (1600 psi)
Output 700 bar (10,000 psi)

Rated flow:

Inlet 1.5 L/min (0.4 USgpm)
Output 165 mL/min
(10 in³/min)

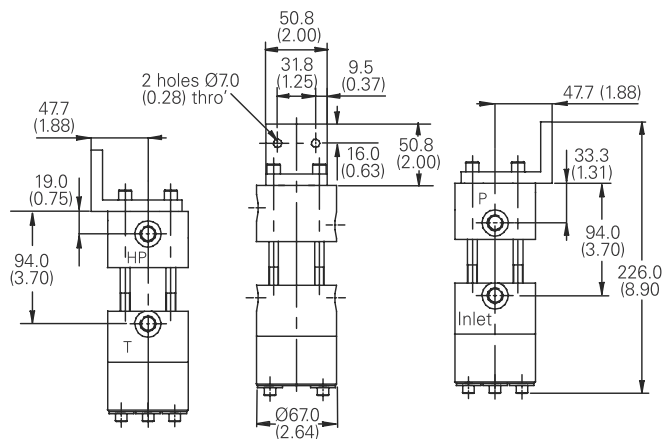
Functional symbol



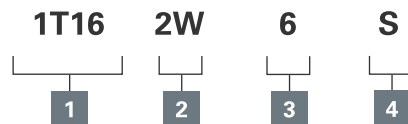
Dimensions

mm (inch)

Installation drawing



Model code



1 Basic code
IT16 - Intensifier

2 Port sizes
2W - 1/4" BSP

3 Pressure intensification ratio
6 - 6:5:1

4 Seals
S - Nitrile (for use with most industrial hydraulic oils)
SV - Viton (for high temperature & most special fluid applications)

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

For enquiries please contact our
Technical Sales Team directly;

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Neal Tuituu: 0455 025 706

Alternatively contact us via
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