



15/40/80CN Series

Medium Pressure Filters



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Applications for CN series Filters

- Compressor Lube Oil
- Off-line Filter Loops
- Machine Tools (Automotive Standard)
- Hydrostatic Drive Charge Pumps
- Mobile Equipment
- Pilot Lines For Servo Controls
- Oil Patch Drilling Equipment
- Injection Molding

This partial list of applications for Parker "CN" series filters has a common factor, the need for an economical, medium pressure range filter with excellent fatigue pressure ratings. Prior to the availability of the "CN" filter, applications such as those listed were restricted by limitations of a spin-on can, or forced into the higher cost range of high pressure filters.

The "CN" series fills this gap, and now with the newly increased fatigue rating from 550 to 800 psi, the applications are expanded.

Ecoglass III Replacement Elements

Ecoglass III represents the merging of high performance filtration technology with environmentally conscious engineering. The Ecoglass III line of replacement elements feature 100% non-metallic construction. The design reduces solid waste and minimizes disposal costs for industry. The non-metallic construction means lightweight elements (60% less weight) for easier servicing.

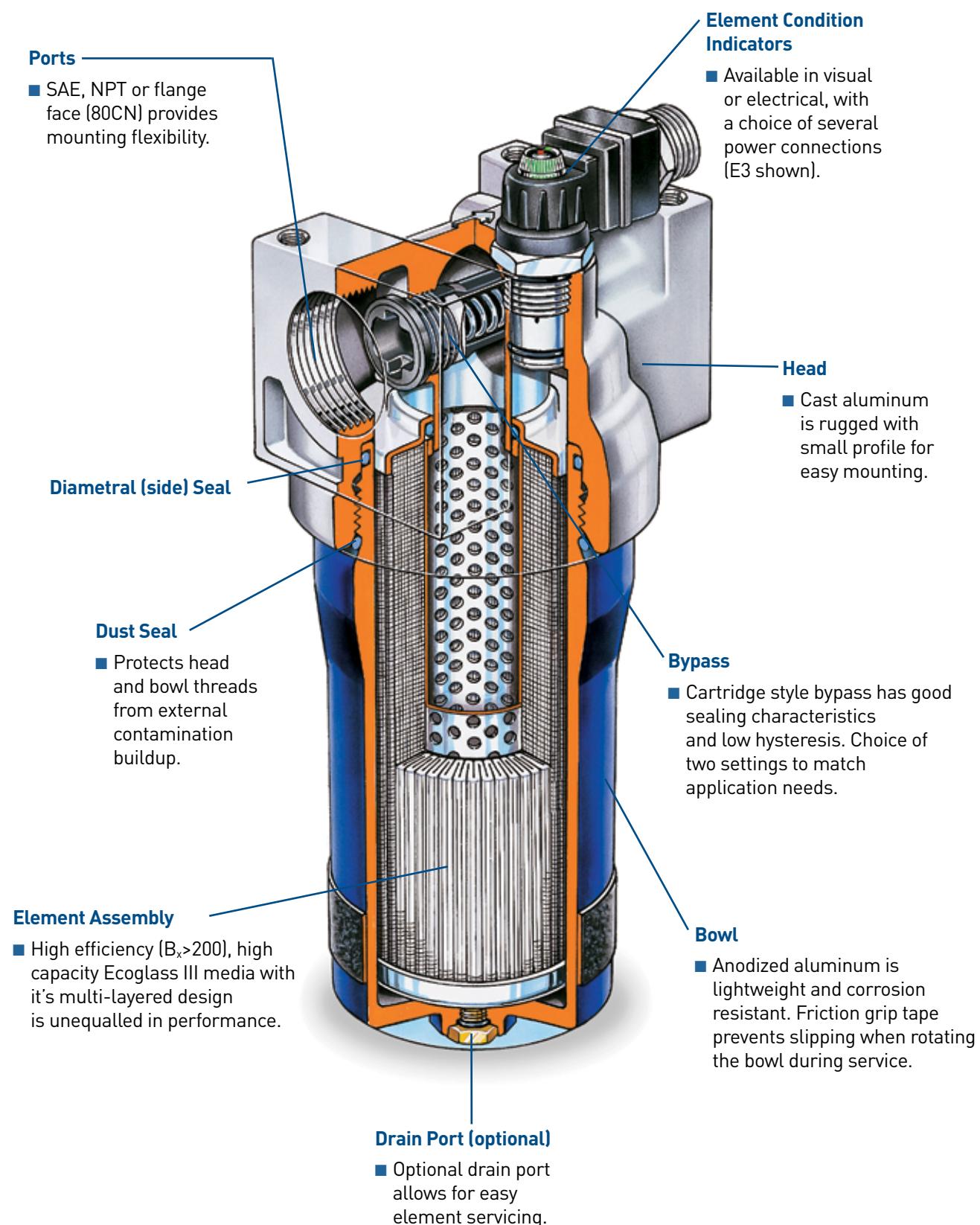
The Ecoglass III elements utilize the same proprietary media design as our Microglass III line of replacement elements.

With Ecoglass III, a reusable core is installed into the filter housing and remains in service throughout the life of the assembly.



Features	Advantages	Benefits
▪ 800 psi fatigue rating (eight times that of a spin-on)	▪ Ability to provide reliable service under tough cyclic operating conditions ▪ Can be utilized in applications where high pressure filters may have been only option	▪ Reduced downtime due to premature filter failures ▪ Reduced costs, better "fit" for the application
▪ Diametral (side) seal between head and bowl	▪ Proven reliability in cyclic applications ▪ Reduced importance of bowl torque	▪ No downtime, no leaks ▪ Performs with "real world" service
▪ Dust Seal	▪ Prevents contamination from building up on bowl / head threads	▪ Easier service, no galling
▪ 40CN-2 meets automotive HF3 standard ▪ 15CN meets automotive HF2 standard	▪ Automotive industry acceptance	▪ Satisfies specifications without need for further testing and/or approval
▪ Cast aluminum head	▪ Low profile, lightweight and durable	▪ Less weight, smaller envelop and cleaner appearance
▪ Standard Ecoglass III elements	▪ Multi-layered design produced high capacity and efficiency ▪ Reduces pleat bunching, keeps performance consistent	▪ Great performance value ▪ Reliable performance throughout element life ▪ Reduces downtime, maximizes element life
▪ Complete performance data disclosure	▪ All pertinent information is provided in an easy-to-compare format	▪ No hidden deficiencies ▪ Easy selection of proper filtration
▪ Visual, electrical or electrical/visual indicators available	▪ Check element condition at a glance ▪ Right style for the application	▪ Optimize element life, prevent bypassing ▪ Matches your system electrical connections

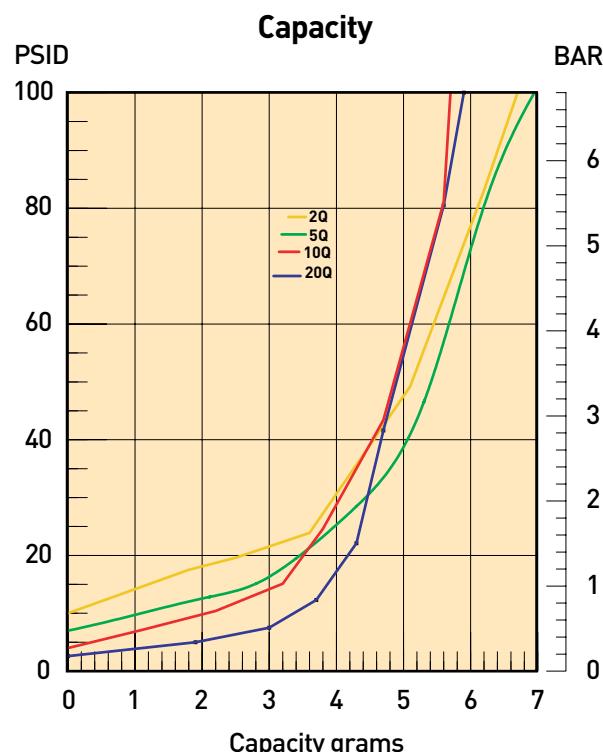
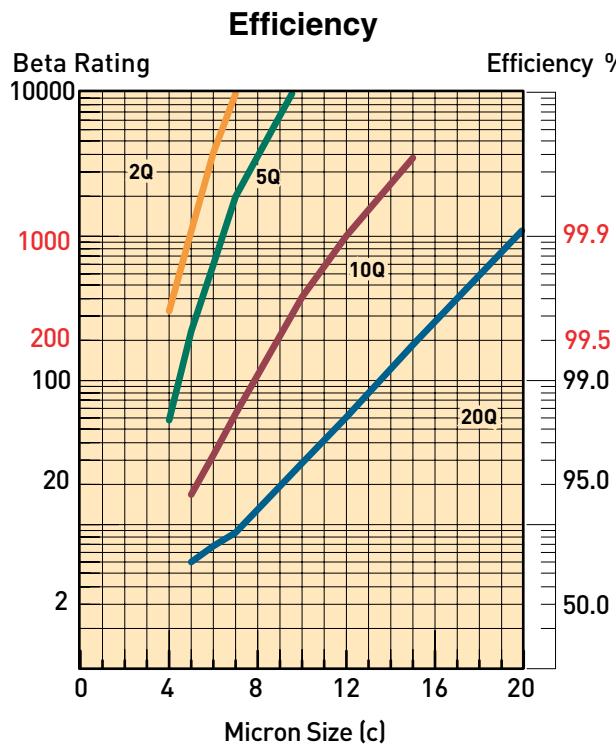
Features



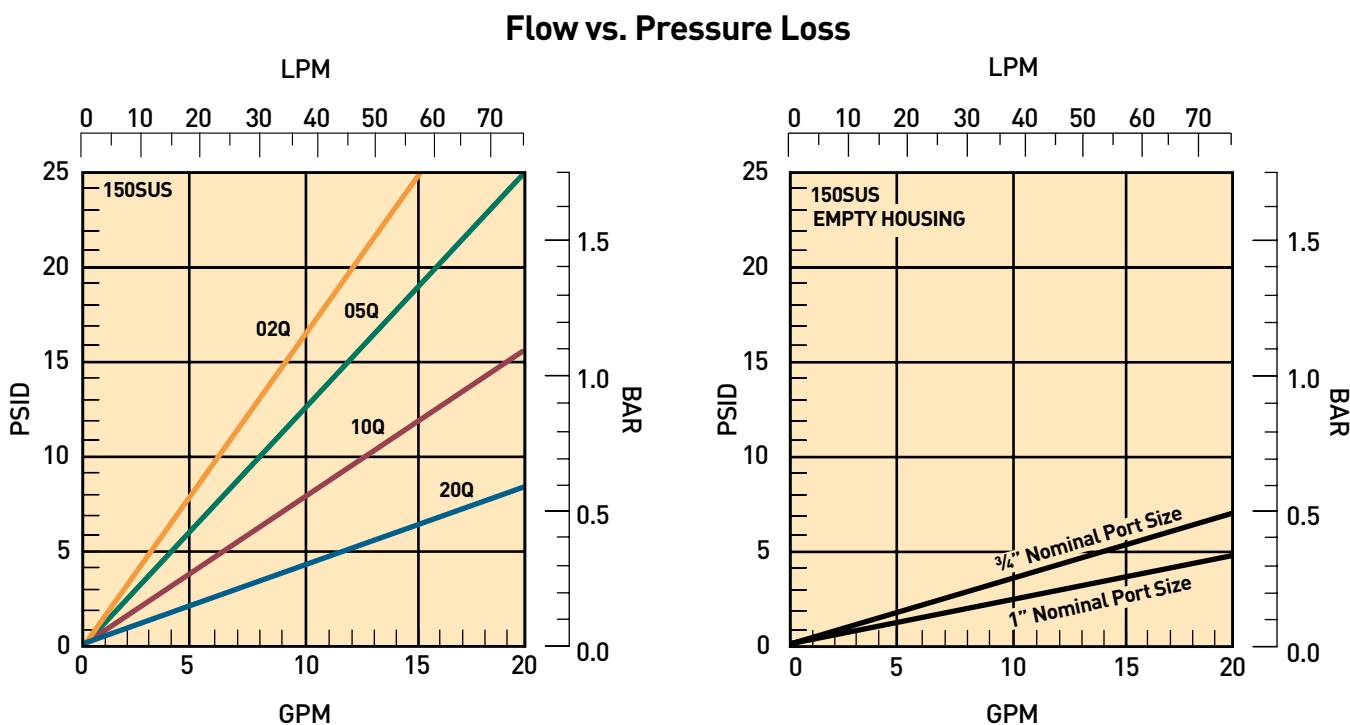
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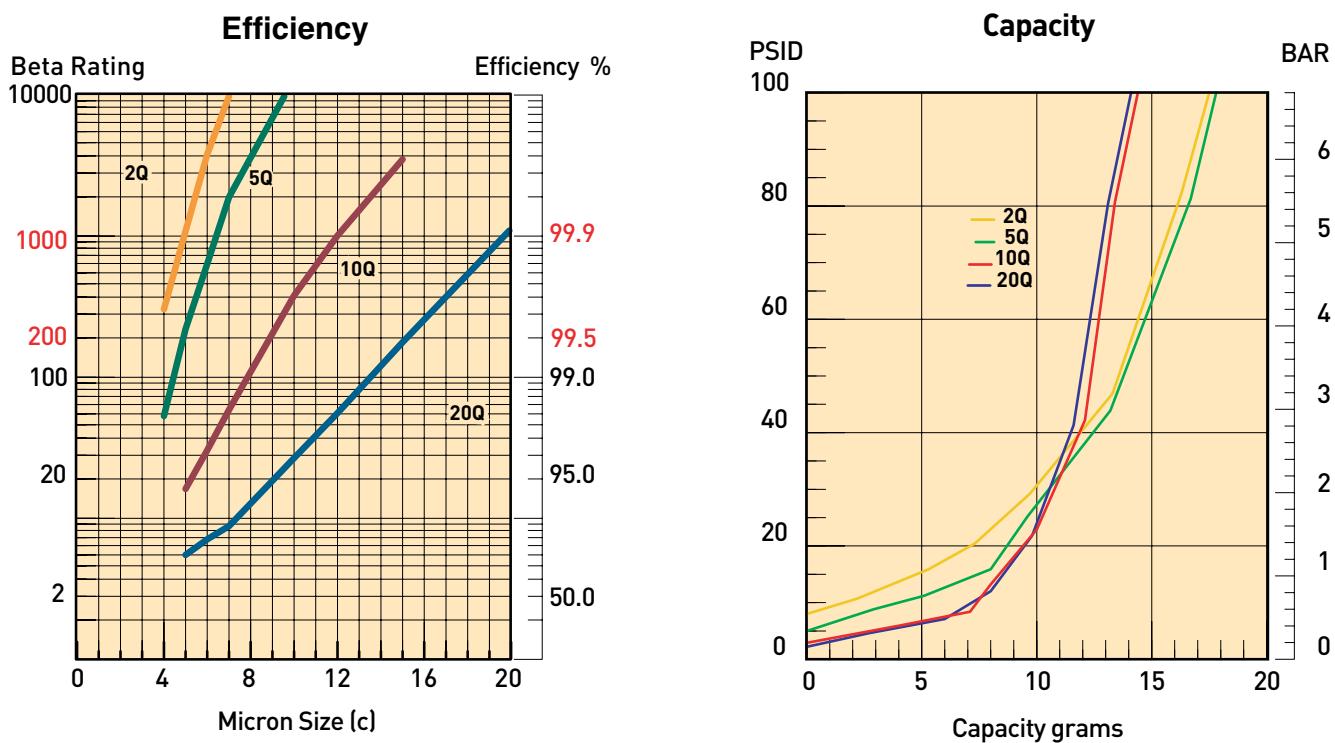
15CN-1 Element Performance



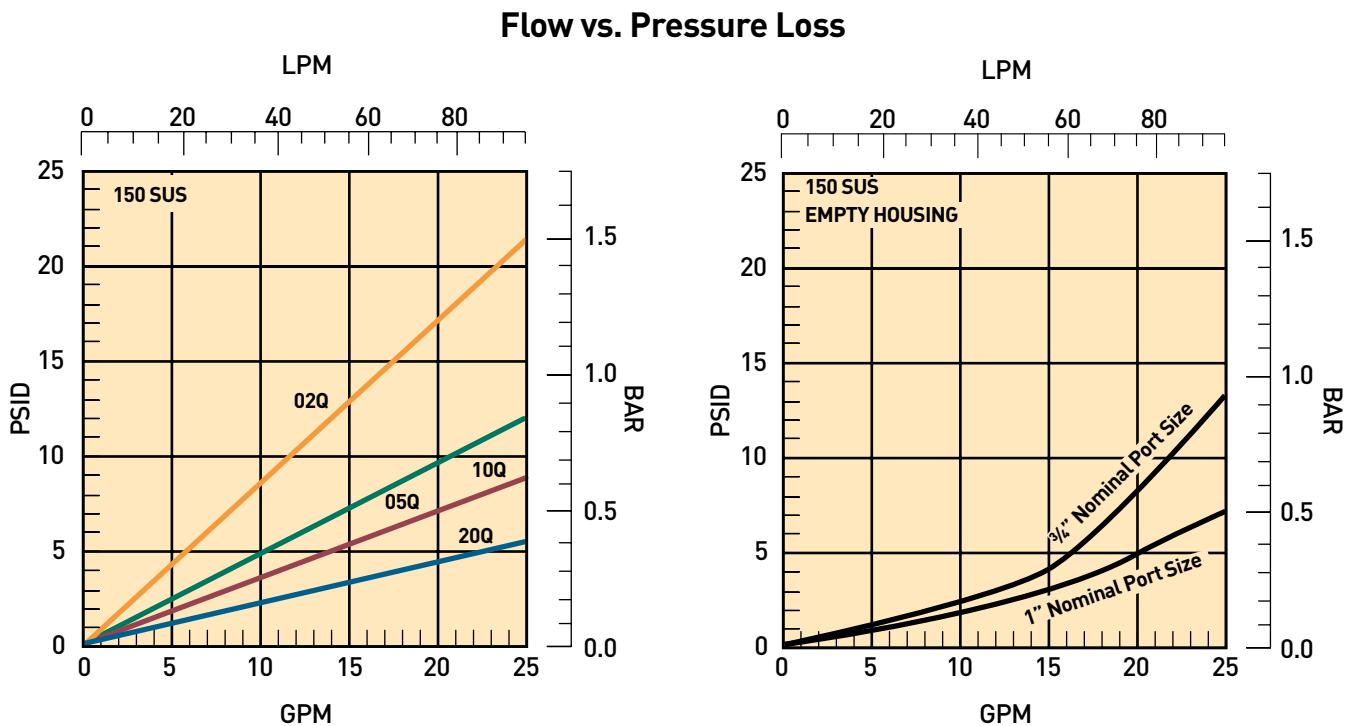
Results typical from Multi-pass tests run per test standard ISO 16889 @ 10 gpm to 100 psid terminal - 10 mg/L BUGL
Refer to Appendix on pages 227-228 for relationship to test standard ISO 4572.



15CN-2 Element Performance



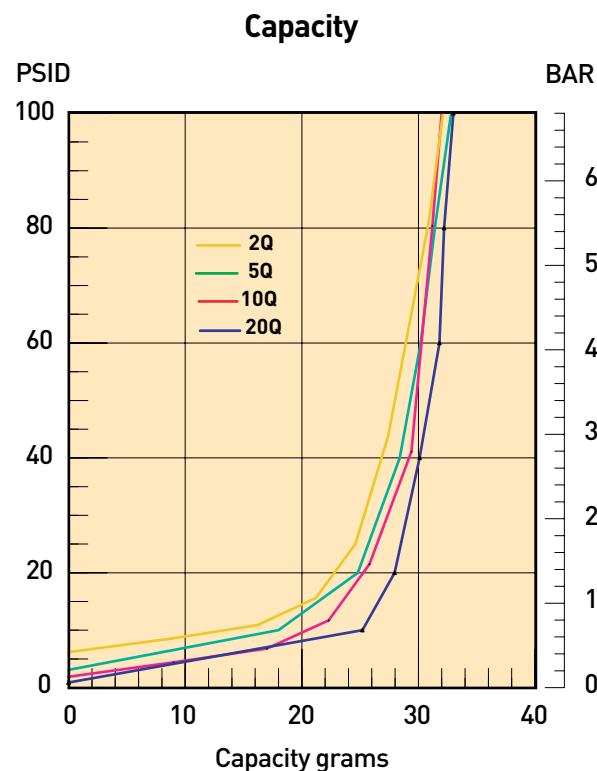
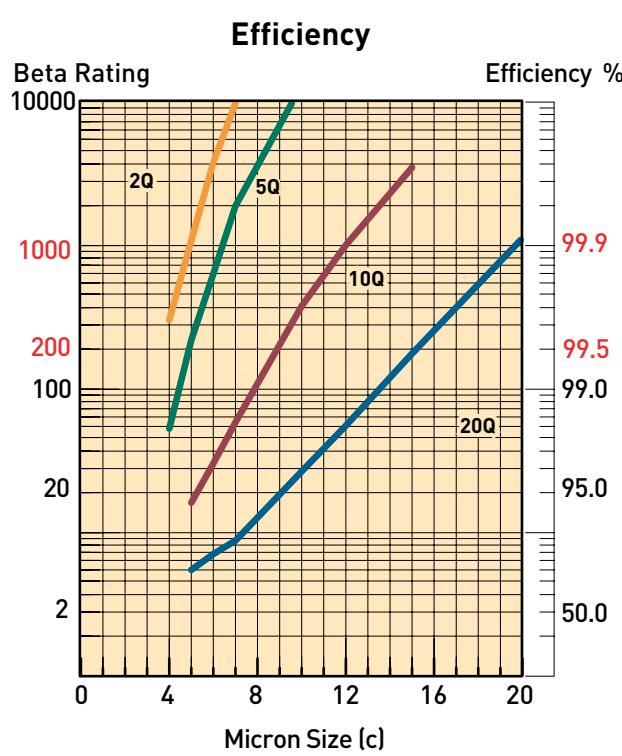
Results typical from Multi-pass tests run per test standard ISO 16889 @ 15 gpm to 100 psid terminal - 10 mg/L BUGL
Refer to Appendix on pages 227-228 for relationship to test standard ISO 4572.



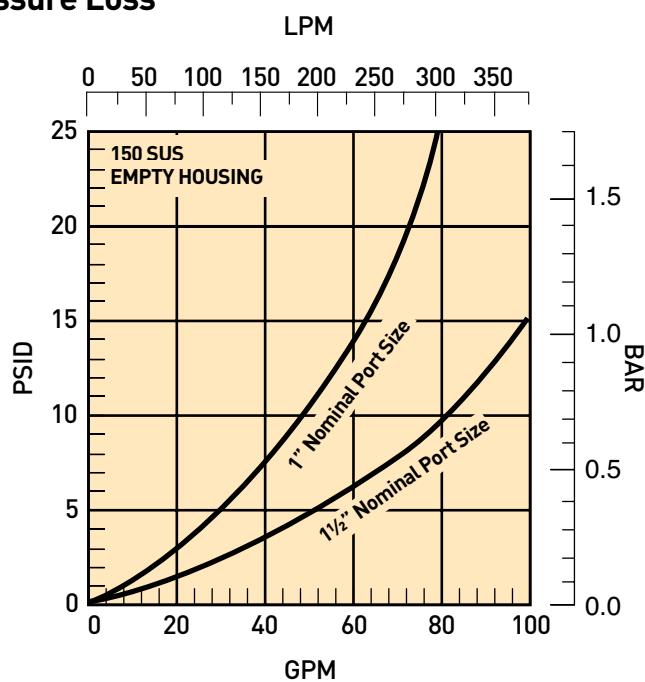
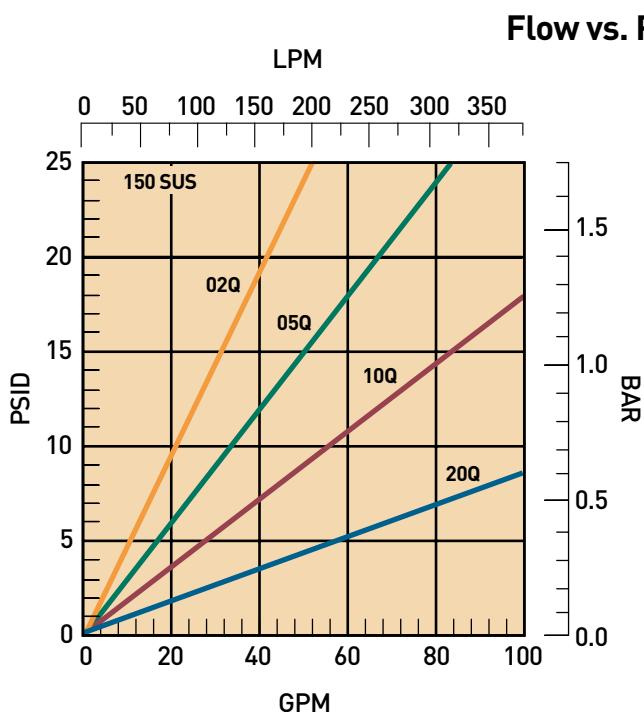
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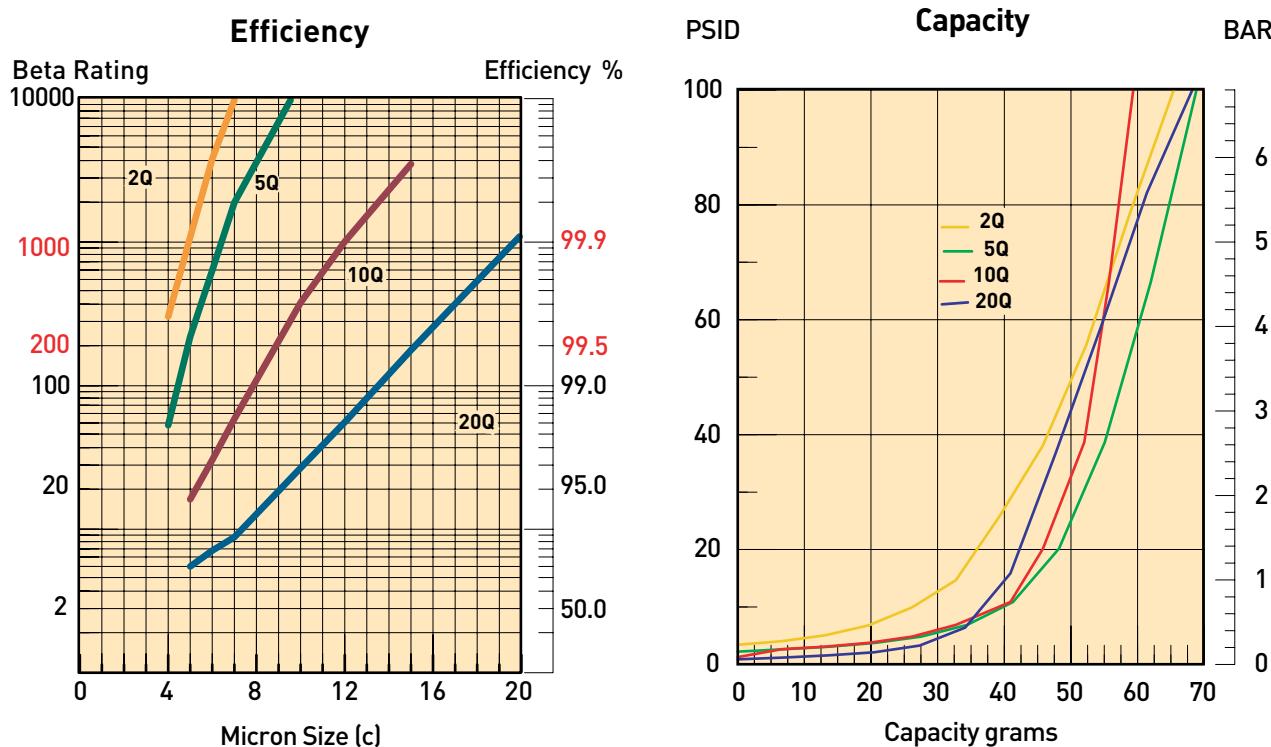
40CN-1 Element Performance



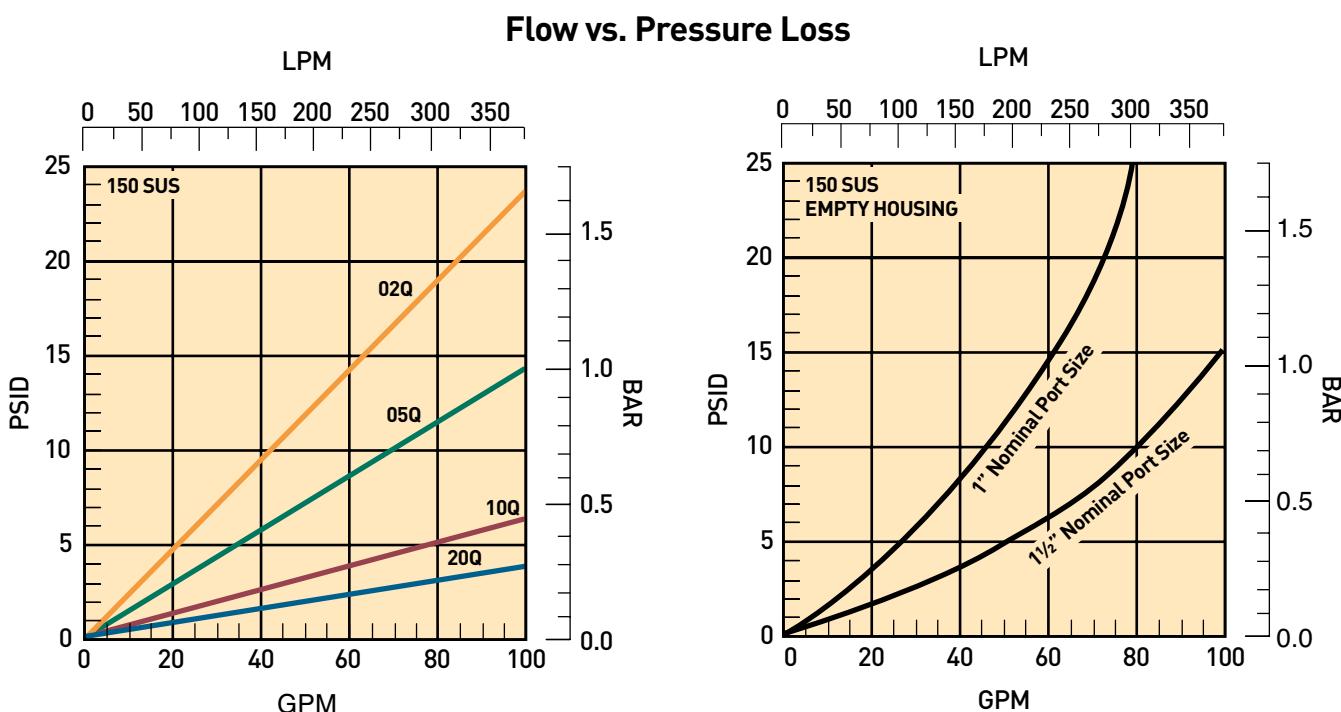
Results typical from Multi-pass tests run per test standard ISO 16889 @ 15 gpm to 100 psid terminal - 10 mg/L BUGL
Refer to Appendix on pages 227-228 for relationship to test standard ISO 4572.



40CN-2 Element Performance



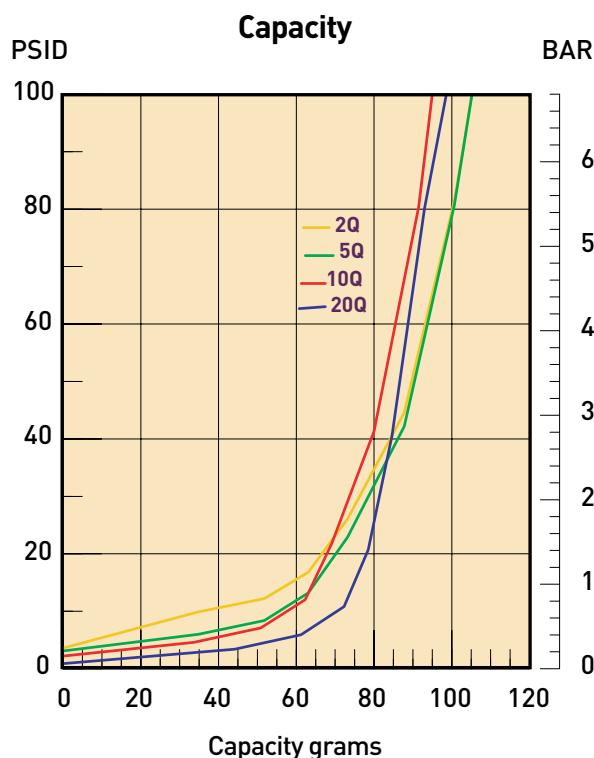
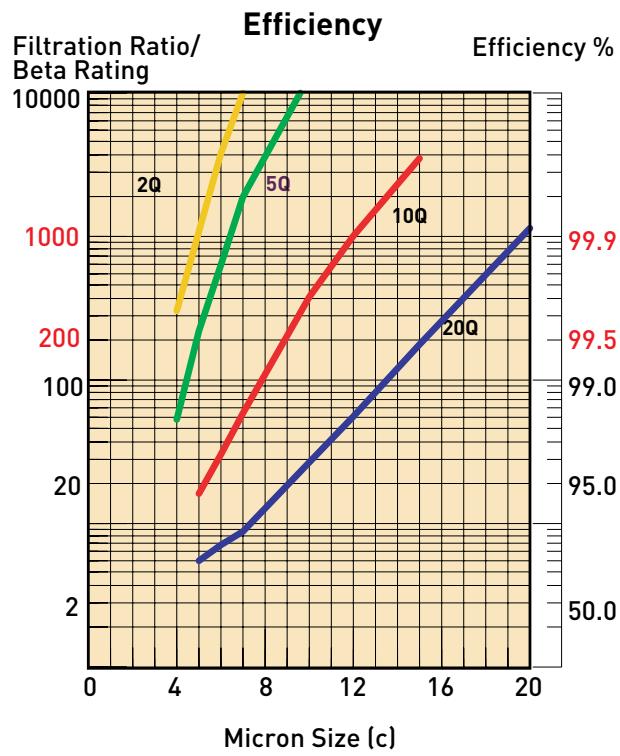
Results typical from Multi-pass tests run per test standard ISO 16889 @ 30 gpm to 100 psid terminal - 10 mg/L BUGL
Refer to Appendix on pages 227-228 for relationship to test standard ISO 4572.



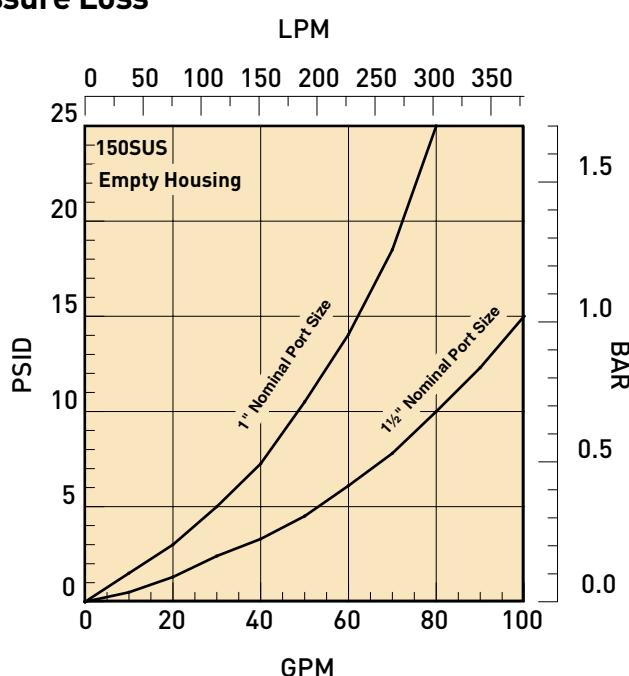
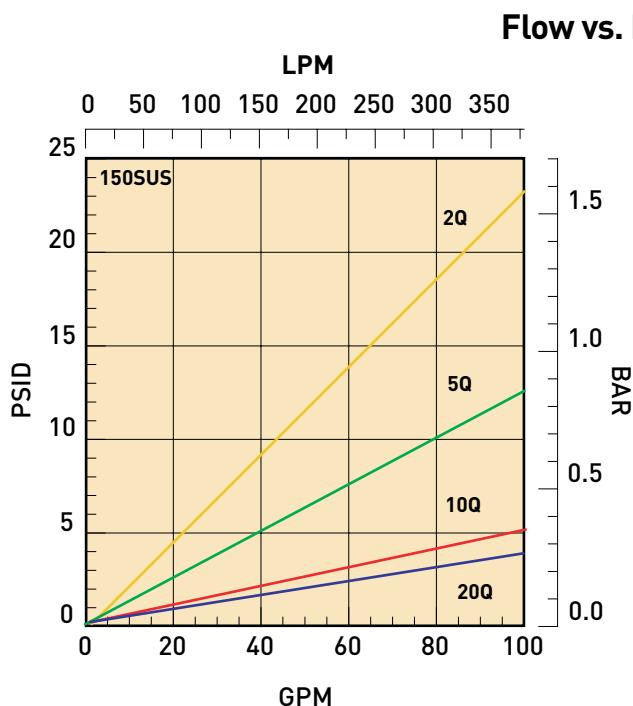
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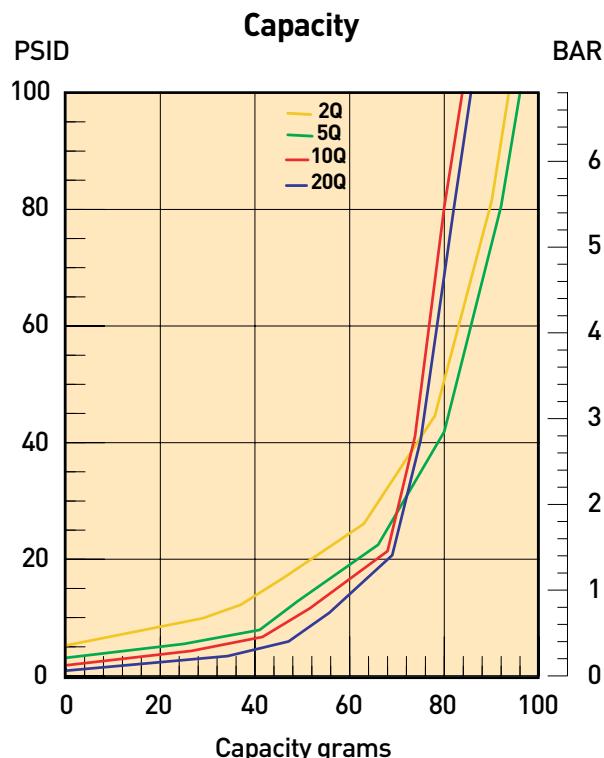
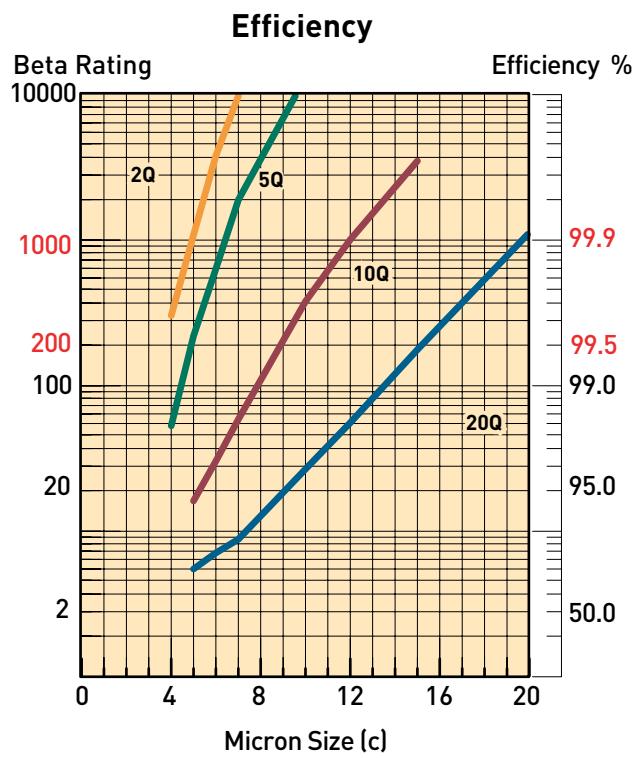
40CN-3 Element Performance



Results typical from Multi-pass tests run per test standard ISO 16889 @ 45 gpm to 100 psid terminal - 10 mg/L BUGL
Refer to Appendix on pages 227-228 for relationship to test standard ISO 4572.

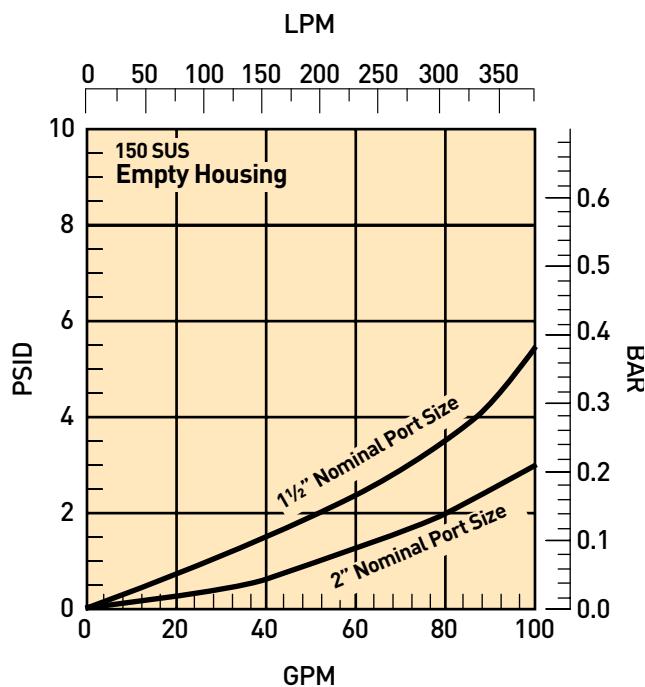
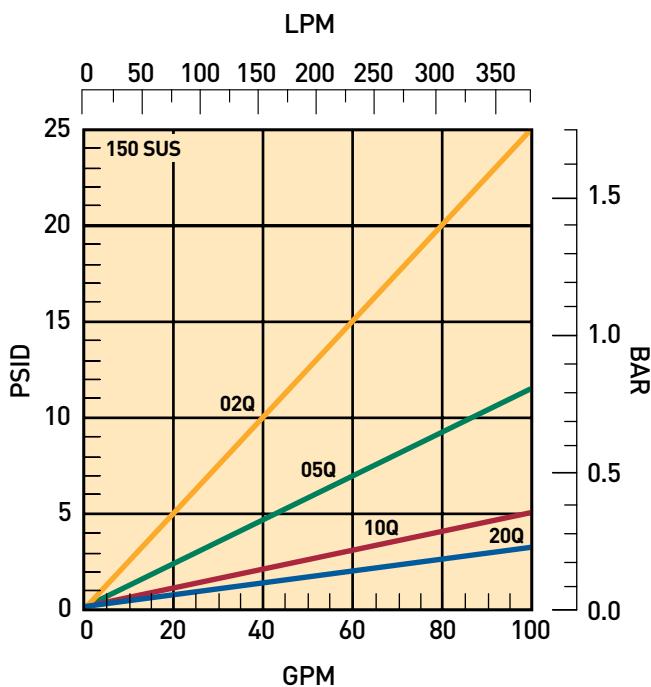


80CN-1 Element Performance



Results typical from Multi-pass tests run per test standard ISO 16889 @ 45 gpm to 100 psid terminal - 10 mg/L BUGL
Refer to Appendix on pages 227-228 for relationship to test standard ISO 4572.

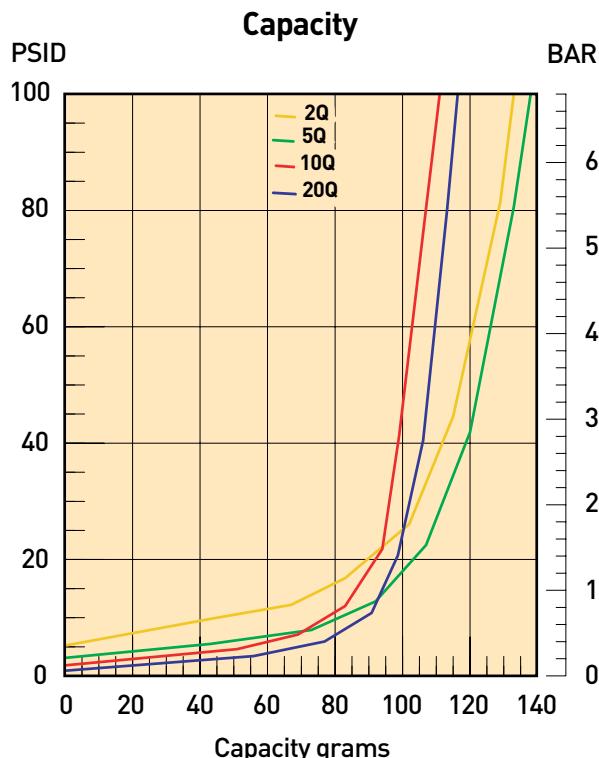
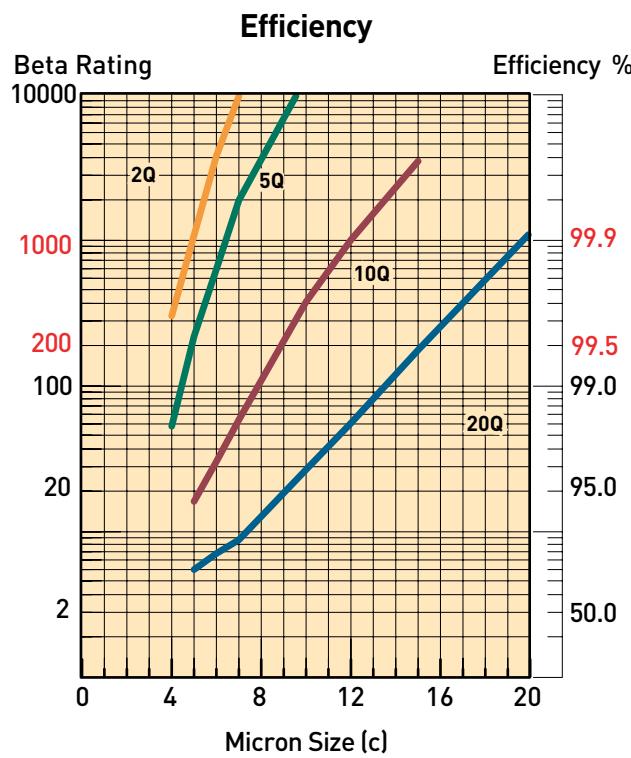
Flow vs. Pressure Loss



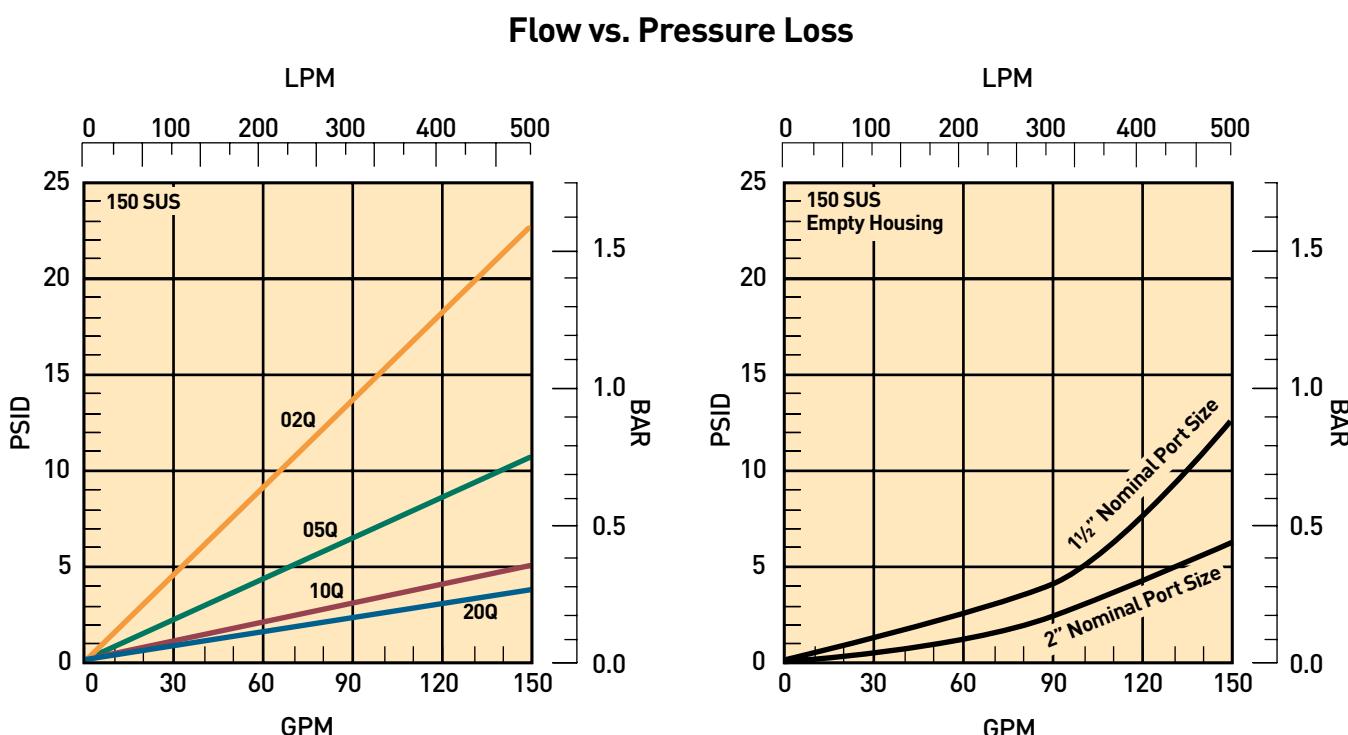
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80CN-2 Element Performance



Results typical from Multi-pass tests run per test standard ISO 16889 @ 70 gpm to 100 psid terminal - 10 mg/L BUGL
Refer to Appendix on pages 227-228 for relationship to test standard ISO 4572.



Specifications: CN Series

Pressure Ratings:

Maximum Allowable Operating Pressure (MAOP): 1000 psi (69 bar)
 Rated Fatigue Pressure: 800 psi (55.2 bar)
 Design Safety Factor: 2.5:1

Operating Temperatures:

Buna: -40°F (-40°C) to 225°F (107°C)
 Fluorocarbon: -15°F (-26°C) to 275°F (135°C)

Element Collapse Rating:

Standard: 150 psi (10.3 bar)

Materials:

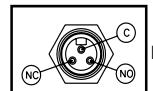
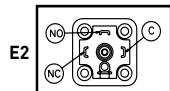
Head and Bowl: Aluminum
 Indicators: Aluminum body, plastic connectors
 Bypass: Nylon

Element Condition Indicators:

Visual 360° green/red auto reset

Electrical/Visual

5A @ 240VAC, 3A @ 28VDC



Electrical-Heavy Duty

.25A(resistive) MAX 5 watts

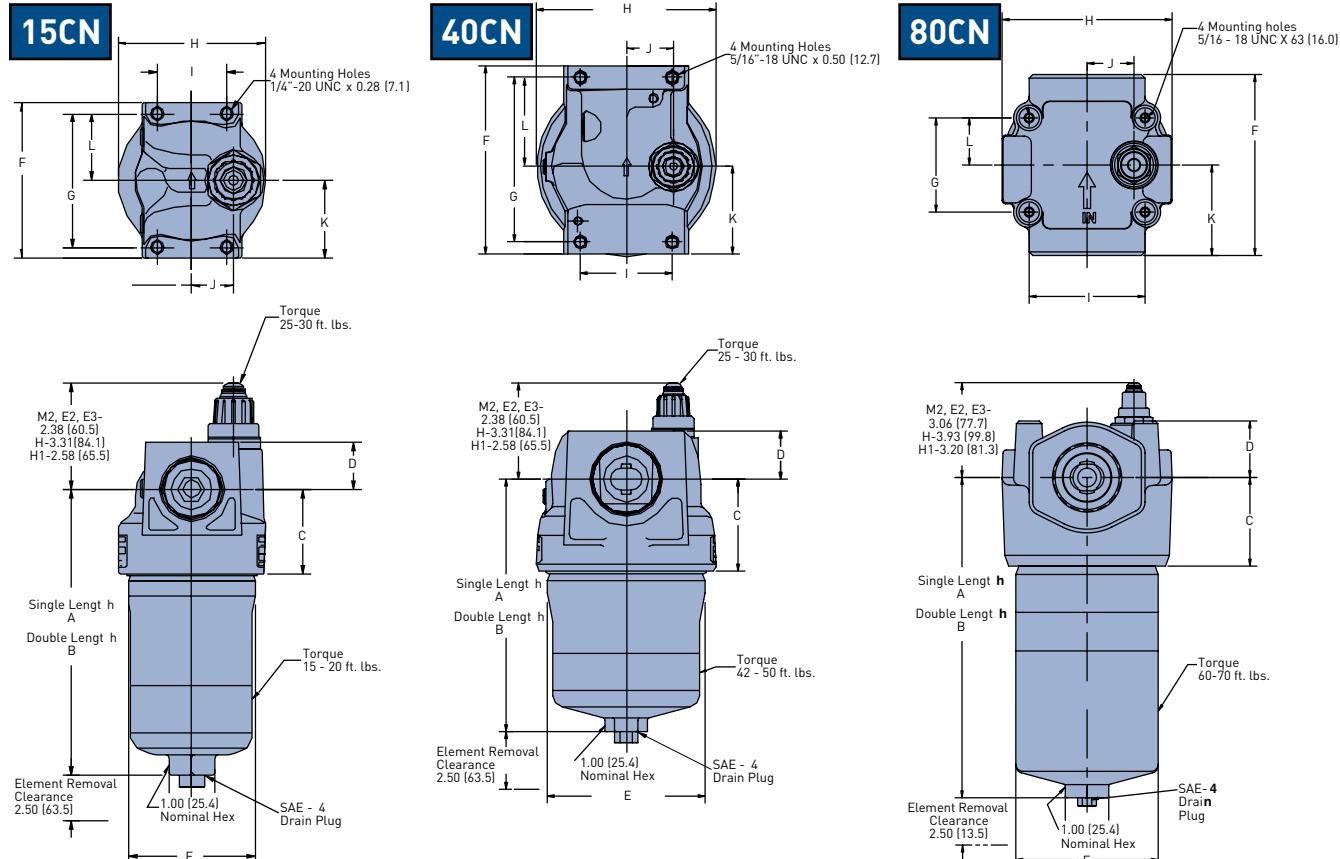
12 to 28 VDC & 110 to 175 VAC

Color code: White (common), Black (normally open), Blue (normally closed)

Weights (approximate):

Model	Single length	Double length
15CN	2.5 lb. (1.13 kg)	3.5 lb. (1.6 kg)
40CN	4.5 lb. (2.00 kg)	5.5 lb. (2.49 kg)
80CN	12.4 lb. (5.62 kg)	15.2 lb. (6.89 kg)

Dimensions are in(mm)	A	B	C	D	E	F	G	H	I	J	K	L
15CN	6.17(156.6)	9.87(250.7)	1.83(46.5)	1.09(25.4)	2.80(71.1)	3.38(85.9)	2.88(73.2)	3.25(82.6)	1.50(88.1)	.90(22.9)	1.69(42.9)	1.44(36.6)
40CN	6.73(170.8)	10.33(262.4)	2.44(62.0)	1.28(32.6)	4.22(107.2)	5.00(127.0)	4.37(111.0)	4.80(121.9)	2.44(62.0)	1.25(31.8)	2.32(58.8)	2.37(60.2)
80CN	11.06(280.9)	15.81(401.6)	3.06(77.7)	1.95(49.5)	4.91(124.8)	6.25(158.7)	3.25(82.6)	5.96(151.4)	4.00(101.6)	1.62(41.1)	3.12(79.4)	1.63(41.3)



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HOW TO ORDER:

Select the desired symbol (in the correct position) to construct a model code.

Example:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
40CN	1	10QE	B	M2	K	N24	4
BOX 1: Filter Series							
Symbol Description							
15CN	In line Filter						
40CN	In line Filter						
80CN	In line Filter						
BOX 2: Element Length							
Symbol Description							
1	Single						
2	Double						
3	Triple (40CN Only)						
BOX 3: Media Code							
Symbol Description							
02QE	Ecoglass III, 2 micron						
05QE	Ecoglass III, 5 micron						
10QE	Ecoglass III, 10 micron						
20QE	Ecoglass III, 20 micron						
BOX 4: Seals							
Symbol Description							
B	Nitrile						
E	EPR						
V	Fluorocarbon						
BOX 5: Indicator							
Symbol Description							
M2	Visual auto reset						
H	Electrical indicator, w/½"-14 NPT connection and 12" leads						
E	Electrical/visual w/½ NPT conduit connection and wire leads						
E2	Electrical/visual (DIN 43650 Hirschman style connection)						
E3	Electrical /visual (ANSI/B.9355M 3-Pin Brad Harrison style connection)						
P	Port plugged						
BOX 6:							
Symbol Description							
G	25 PSI (1.7 bar) setting						
K	50 PSI (3.5 bar) setting						
BOX 7: Port							
Symbol Description							
15CN							
N12	¾" NPT						
N16	1" NPT						
S12	SAE-12 straight thread						
S16	SAE-16 straight thread						
40CN							
N16	1" NPT						
N24	1½" NPT						
S16	SAE-16 straight thread						
S24	SAE-24 straight thread						
80CN							
N24	1½" NPT						
N32	2" NPT						
S24	SAE-24 straight thread						
S32	SAE-32 straight thread						
Y32	Flange face, SAE-2"						
BOX 8: Options							
Symbol Description							
4	Standard drain port on bowl						
21	No bypass and drain port						

Please note the bolded options reflect standard options with a reduced lead-time. Consult factory on all other lead-time options.

Replacement Elements (Ecoglass)

MEDIA	15CN-1	15CN-2	40CN-1	40CN-2	40CN-3	80CN-1	80CN-2
20Q	936701Q	936705Q	936709Q	936712Q	936721Q	936715Q	936719Q
10Q	936700Q	936704Q	936708Q	936601Q	936720Q	936602Q	936718Q
05Q	936699Q	936703Q	936707Q	936711Q	936623Q	936714Q	936718Q
02Q	936698Q	936702Q	936706Q	936710Q	936622Q	93613Q	936716Q



Global products as identified are offered worldwide through all Parker locations and utilize a common ordering code.

Notes
