



HPN/NSX Series

Interchanges Schroeder N series

Hy-Pro G6 Dualglass

High Performance Filter Elements

Performance

Temperature: -45f to 225f, -43c to 107c (buna)
-20f to 250f, -29c to 120c (viton)

Element collapse HPN = 290 psid (20 bar)
HPNSX = 3000 psid (210 bar)

Media

G6 media pleat pack features our latest generation of graded density glass media that delivers required cleanliness while optimizing dirt capacity.

Dynamic Filter Efficiency

DFE rated elements perform true to rating even under demanding variable flow and vibration conditions. Today's industrial and mobile hydraulic circuits require elements that deliver specified cleanliness under all circumstances. Wire mesh supports the media to ensure against cyclical flow fatigue, temperature, and chemical resistance failures possible in filters with synthetic support mesh.

Tested to ISO quality standards

ISO 2941	Collapse and burst resistance
ISO 2942	Fabrication and Integrity test
ISO 2943	Material compatibility with fluids
ISO 3724	Flow fatigue characteristics
ISO 3968	Pressure drop vs. flow rate
ISO 16889	Multi-pass performance testing

Fluid Compatibility

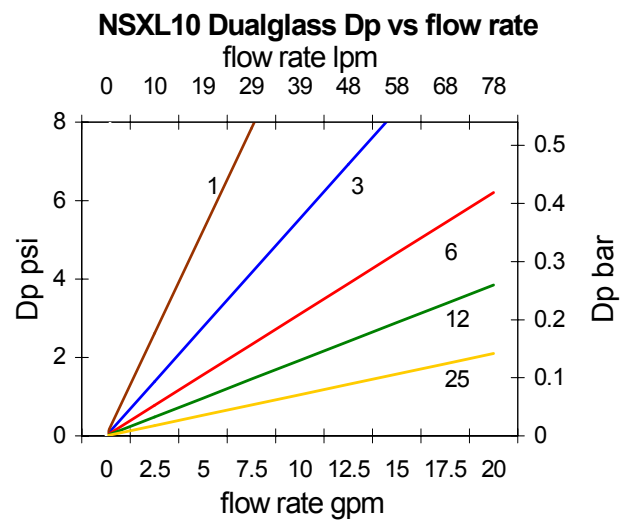
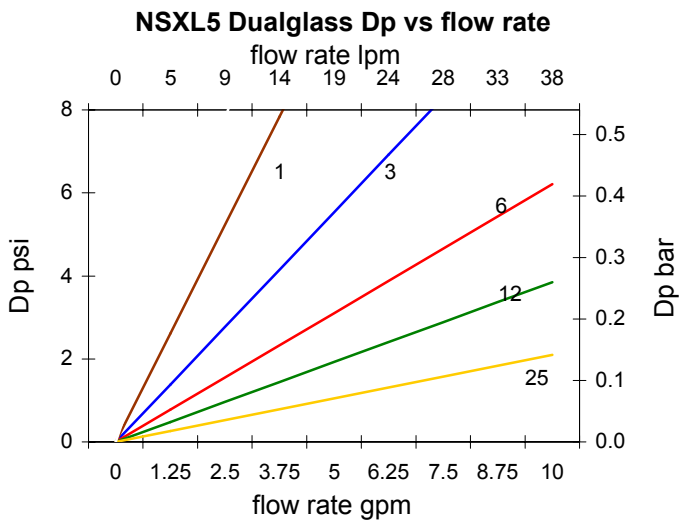
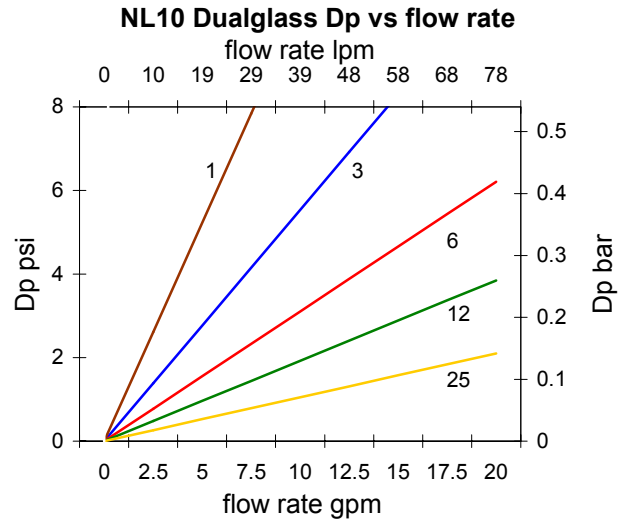
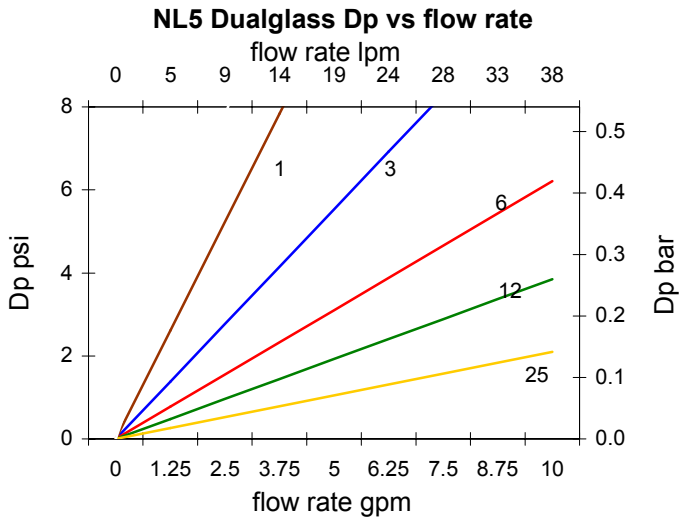
Petroleum based fluids, water glycols, polyol esters, phosphate esters, HWBF

Interchange

Schroeder	Hy-Pro
NNS.5	HPNL10-1MB
NNS1	HPNL10-3MB
NNS15	HPNL10-25MB
NNS3	HPNL10-6MB
NNS7	HPNL10-12MB
NNSX15	HPNSXL10-12MB
NNSX3	HPNSXL10-3MB
NNSX7	HPNSXL10-6MB
NNZ1	HPNL10-1MB
NNZ3	HPNL10-3MB
NNZ5	HPNL10-6MB
NNZ10	HPNL10-12MB
NNZ25	HPNL10-25MB
NS.5	HPNL5-1MB
NS1	HPNL5-3MB
NS15	HPNL5-25MB
NS3	HPNL5-6MB
NS7	HPNL5-12MB
NSX15	HPNSXL5-12MB
NSX3	HPNSXL5-3MB
NSX7	HPNSXL5-6MB
NZ1	HPNL5-1MB
NZ3	HPNL5-3MB
NZ5	HPNL5-6MB
NZ10	HPNL5-12MB
NZ25	HPNL5-25MB

*For Viton seals (where Schroeder p/n ends with V) replace the B in Hy-Pro p/n with a V.

*For cellulose replacements (where Schroeder p/n does not have a S or Z after the N call or consult interchange guide



Pressure Drop Calculation

Pressure drop curves based on oil viscosity of 150 SSU, and specific gravity = 0.9. Dp across element is proportionally related to viscosity and specific gravity. For new DP use the following conversion formula:

$$DP \text{ element} = DP \text{ curve} \times \text{Viscosity}/150 \times SG/0.86$$

table 1

table 2

table 3

table 4

table 5

HPN _ _ L _ _ - _ _ _ _ _

table 1	
code	collapse
omit	290 psid
SX	3000 psid

table 2	
code	length
5	single
10	double

table 3	
code	filtration rating
1	B2.5[c] = 1000 (B1 = 200)
3	B5[c] = 1000 (B3 = 200)
6	B7[c] = 1000 (B6 = 200)
12	B12[c] = 1000 (B12 = 200)
25	B22[c] = 1000 (B25 = 200) or 25u nominal wire mesh
74	74u nominal wire mesh
149	149u nominal wire mesh

table 4	
code	media type
M	G6 Dualglass
SF	Dynafuzz
W	wire mesh

table 5	
code	seal
B	Nitrile (buna)
V	Fluorocarbon
E	EPR

Hy-Pro filters are tested to the latest industry standard ISO16889 (replacing ISO4572) resulting in A new scale for defining particle sizes and determining filtration ratio (formerly known as beta ratio)

New (ISO16889) vs Old (ISO4572) size comparison

Bx(c)=1000 (ISO16889)	2.5	5	7	12	22
Bx=200 (ISO4572)	<1	3	6	12	25

