

Ordering Code - Bladder Assembly

1	2	3	4	5	6
S	35	P	M50	C	V

1	Design	Refer Fig.8a & 8b	Standard Transfer Barrier Liquid Separator	= S (standard) = ST = SL
2	Nominal Capacity (Ltrs)	0.2 - 130 Ltrs (type : AS/ASHF/ASWD/ASWP) 100 - 575 Ltrs (type : ASLV/ASLVHF)		= 0.2-130 = 100-575
3	Bladder & Seal material	Nitrile (NBR) Butyl (IIR) Viton (FKM) Ehtylene-Propylene (EPDM) Hydrogenated Nitrile (HNBR) Neoprene (CR) Nitrile for Hydrocarbons Low Temp. Nitrile Epichlorohydrin (ECO) For foods		= P (standard) = B = V = E = K = N = H = F = Y = A
4	Gas Valve type (Refer page # 14 & 15)	Gas Valve Gas Fill Valve Without Without (only bladder) 5/8" UNF(M) Integral - 5/8" UNF M22x1.5(M) Various - screw-in M22x1.5(M) - special profile Various - screw-in M22x1.5(M) 50mm extra long Various - screw-in M30x1.5(M) Various - screw-in M50x1.5(M) Various - screw-in M50x1.5(M) 50mm extra long Various - screw-in 7/8" UNF(M) Various - screw-in 7/8" UNF(M) Integral - Vg8 7/8" UNF(M) - special profile Integral - Vg8 7/8" UNF(M) Integral - 7/8" UNF M50x1.5 with 7/8" UNF(M) Integral - 7/8" UNF M50x1.5 with 7/8" UNF(M) Integral - Vg8 Integral valve Integral ASLV/ASLVHF		= 0 = U5/8 = M22 = M22-B = M22L = M30 = M50 = M50L = U7/8 = U7/8V = U7/8V-B = U7/8U = MU7/8U = MU7/8V = LV
5	Gas Valve material	Without Valve (only bladder) Carbon steel Nickel Coated carbon steel Stainless Steel Zn-Ni Coated Carbon Steel		= 0 = C (standard) = N = X = Z
6	Gas Fill Valve connection	5/8" UNF 5/8" UNF in Stainless Steel Without Gas Fill Valve/Transfert/Liquid Separator type 5/16" UNEF/Vg8 1/4" BSP M16x2.0 5/16" UNEF (7/8 UNF Gas Fill Valve Body) Double Lock Military Valve 7/8" UNF (Integral in 7/8 UNF Gas Valve) M28x1.5		= V (standard) = X = 0 = 1 = 2 = 3 = 4 = 8 = 9 = M

* Before ordering, check for availability

Design

The main feature of the bladder lies in an original and well developed EPE process by which the standard bladder being of **a single piece construction** without splices or joints and with a unique method for connecting gas valves, allows **various valves** to be fitted thus promoting considerable economic savings, especially when several accumulators of the same size, but with differing gas valves, are to be used in the same plant.

In addition, valves do not have to be replaced at the same time as the bladder.

The assembly of the valve to the bladder is a simple operation by use of a special rubber coated washer (Fig.19).

Technical/constructional features

THE BLADDER used on standard version of the accumulator is in butadiene-acrilonitrile rubber, oil resistant (nitrile) suitable for operating temperature - 20°C to +85°C. Other materials as indicated in ordering code also available.

THE GAS VALVE is of phosphated carbon steel in the following three versions:

- S = STANDARD** - Fitted with gas fill valve suitable for stand-alone accumulators.
- ST = TRANSFERT** - For accumulators where additional gas bottles are used.
- SL = LIQUID SEPARATOR** - For applications where the bladder separates two liquids.

Bladder dimensions

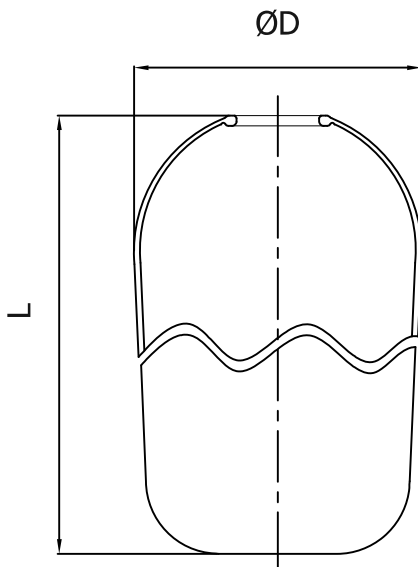
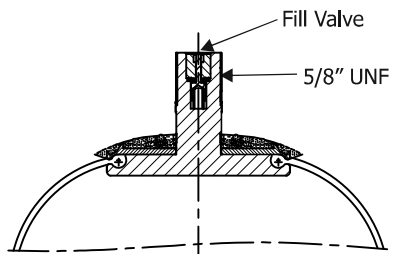


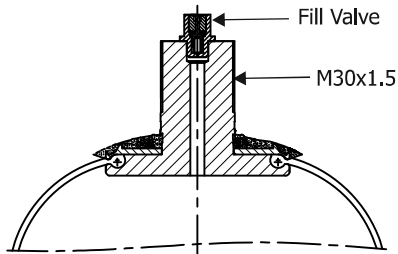
Fig.7

Model	ØD mm	L mm	Weight Kgs
S 0.2	38	148	0.03
S 0.7	74	120	0.06
S 1	95	131	0.13
S 1.5		193	0.17
S 2.5		318	0.30
S 3		362	0.35
S 4	145	198	0.39
S 5		273	0.42
S 6		343	0.46
S 10	198	305	0.92
S 12		360	1.10
S 15		440	1.30
S 20		580	1.75
S 25		750	2.15
S 28		910	2.50
S 35		1105	3.30
S 55		1538	4.60

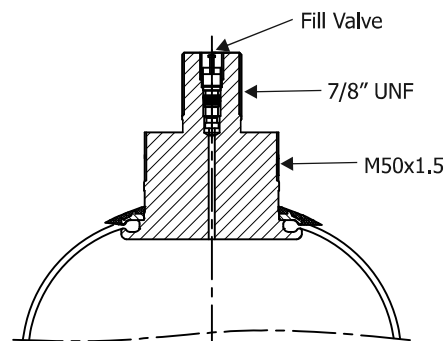
Gas Valve types (refer Bladder Ordering Code - Page # 12)



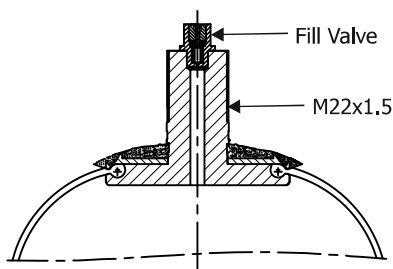
Type : **U5/8**



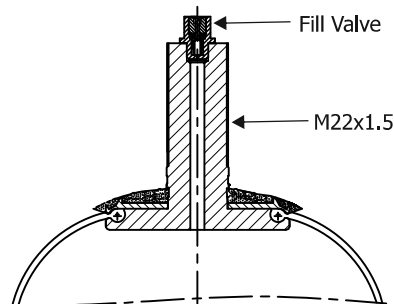
Type : **M30**



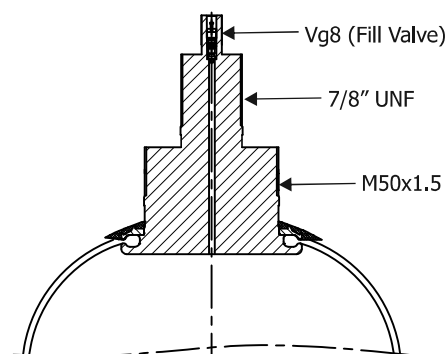
Type : **MU7/8U**



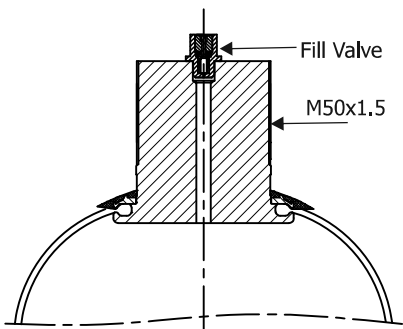
Type : **M22 & M22-B**



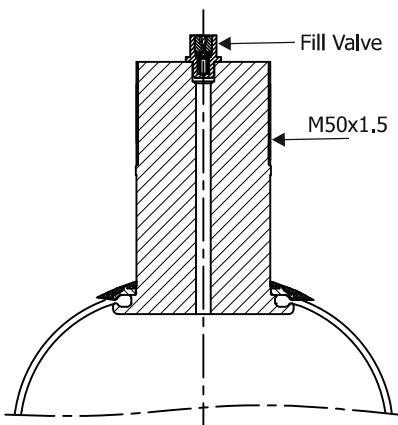
Type : **M22L**



Type : **MU7/8V**



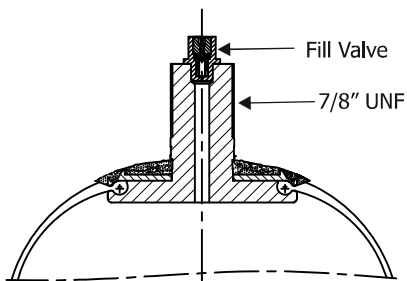
Type : **M50**



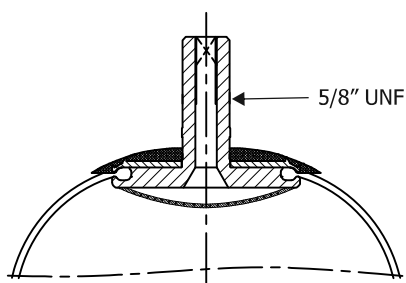
Type : **M50L**

Fig.8a

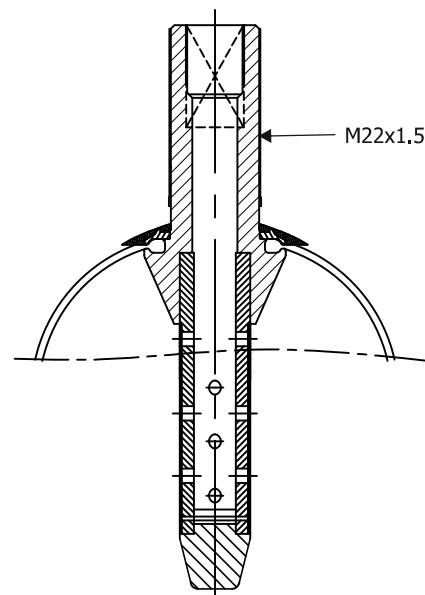
Gas Valve types (refer Bladder Ordering Code - Page # 12)



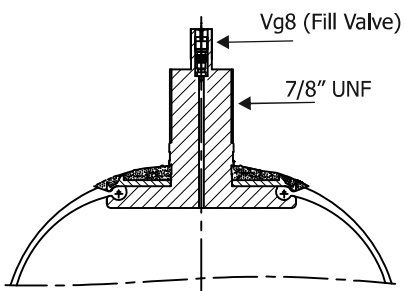
Type : **U7/8**



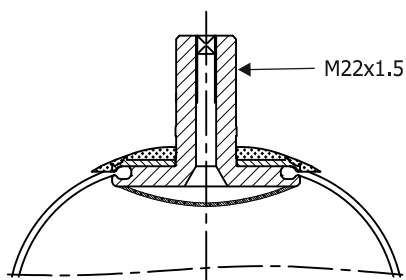
Type : **U5/8 (SL)**



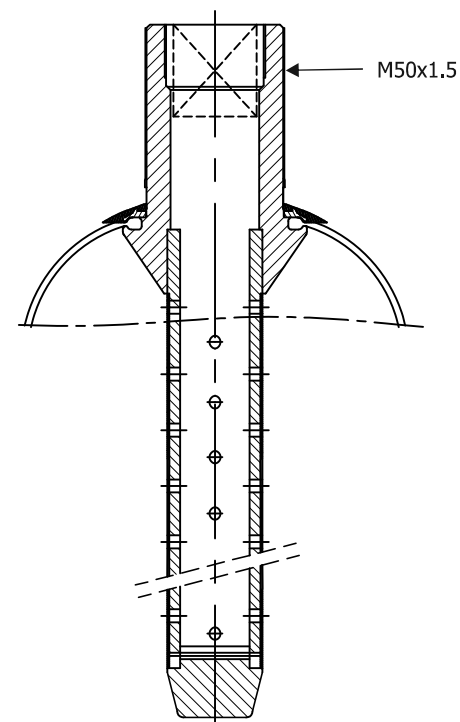
Type : **M22 (ST)**



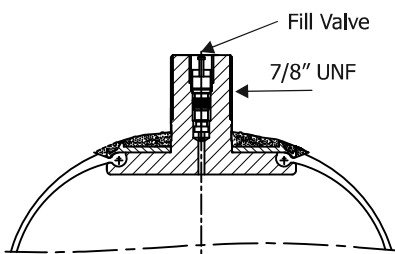
Type : **U7/8V & U7/8V-B**



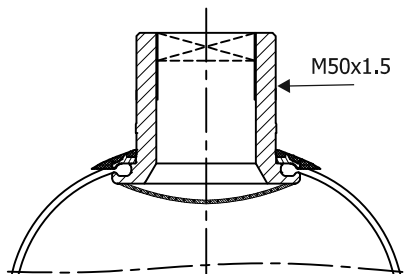
Type : **M22 (SL)**



Type : **M50 (ST)**



Type : **U7/8U**



Type : **M50 (SL)**

Fig.8b

Valve Designs | Availability

Gas Valve types availability (refer Bladder Ordering Code - Page # 12)

Code	Description ↓ Capacity ⇒	0.2	0.7	1~3	4~6	10~55	60~130
0	Without Gas Valve (only bladder)	✓	✓	✓	✓	✓	✗
U5/8	5/8" UNF(M) with Integral 5/8" fill valve	✓	✓	✓	✓	✗	✗
M22	M22x1.5(M) Body for screw-in fill valve	✗	✓	✓	✓	✓	✓
M22-B	M22x1.5(M) Body for screw-in fill valve - for Bosch	✗	✗	✓	✓	✓	✗
M22L	M22x1.5(M) Body for screw-in fill valve - long body	✗	✓	✓	✓	✓	✓
M30	M30x1.5(M) Body for screw-in fill valve	✗	✗	✓	✓	✓	✗
M50	M50x1.5(M) Body for screw-in fill valve	✗	✗	✗	✗	✓	✓
M50L	M50x1.5(M) Body for screw-in fill valve - long body	✗	✗	✗	✗	✓	✓
U7/8	7/8" UNF(M) Body for screw-in fill valve	✗	✓	✓	✓	✓	✓
U7/8V	7/8" UNF(M) with Integral Vg8 fill valve	✗	✓	✓	✓	✓	✓
U7/8V-B	7/8" UNF(M) with Integral Vg8 fill valve - for Bosch	✗	✗	✓	✓	✓	✗
U7/8U	7/8" UNF(M) with Integral 7/8" fill valve	✗	✓	✓	✓	✓	✓
MU7/8U	M50x1.5/7/8" UNF(M) with Integral 7/8" fill valve	✗	✗	✗	✗	✓	✓
MU7/8V	M50x1.5/7/8" UNF(M) with Integral Vg8 fill valve	✗	✗	✗	✗	✓	✓
U5/8	5/8" UNF(M) - Liquid Separator design	✓	✗	✗	✗	✗	✗
M22	M22x1.5(M) - Liquid Separator design	✗	✓	✓	✓	✗	✗
M50	M50x1.5(M) - Liquid Separator design	✗	✗	✗	✗	✓	✓
M22	M22x1.5(M) - Transfert design	✗	✓	✓	✓	✗	✗
M50	M50x1.5(M) - Transfert design	✗	✗	✗	✗	✓	✓

✓=Available. ✗=Not available.