







Assembly Information

ALL ASHCROFT® ASSEMBLIES ARE DESIGNED BY OUR ENGINEERS TO MAXIMIZE DURABILITY AND MINIMIZE THE POTENTIAL FOR LEAKS AND DAMAGE TO INSTRUMENTS.

All fittings and adapters are made with high pressure 316 stainless steel fittings. For assemblies involving diaphragm seals or isolation rings, we strive to minimize fill volume to reduce temperature error. By using the compact "tee" or "cross" fittings we avoid "goalpost" configurations and the lengthy pipe sections prone to breakage.

Ordering Guidelines

- Order all products on separate line items.
- Always include the assembly code option in all part numbers involved in an assembly.
- For assemblies that include a diaphragm seal, always include the system fill code (e.g. CG, CK) on all products containing the fill.
- Many variations are specific to the connection codes involved.
 Note any connection code requirements when creating a part number.
- Contact Ashcroft for assistance with assemblies that do not fall under any of the variations contained in this guide.

Assembly coding may affect agency approvals for switches and transducers. Contact Ashcroft for assistance.

Coding example for XL5 assembly filled with 50 cSt silicone (XCK)

Code	Component	Coding Example		
	Gauge	451279SSL04LXCKL5100#		
1.5	Switch	B424BXCKL5100#		
L5	Snubber	501112SDXCKL5		
	Diaphragm Seal	50200SS04TXCKL5		





DU: INSTRUMENT WELDED TO DIAPHRAGM SEAL

XDU is the code for welding an instrument to the diaphragm seal. Welded surfaces must be of like materials. Instruments attached directly to diaphragm seals can be welded, and assemblies with capillaries or siphons can be welded at each connection. Fittings (e.g. tee, nipples) cannot be welded, nor can snubbers, dampeners, or PLVs.

07: TAMPER EVIDENT SEALANT

XQ7 instructs the assembler to apply a brightly-colored, tamper-evident, hardening sealant at each threaded joint on an assembly.

Q8: ELBOW FOR VERTICAL PIPING

XQ8 codes for an elbow installed (typically on an isolation ring, though available with diaphragm seals) between the instrument and the isolator. XQ8 is only available on assemblies with ½ NPT connections.

6G: MISCELLANEOUS CONFIGURATIONS

For assemblies not included in this guide, contact Ashcroft for assistance setting up a custom variation to suit your needs. In most cases, X6G can be used in conjunction with a custom-configured engineering drawing approved by the customer prior to ordering.

K2: INSTRUMENT, CAPILLARY, PLV, SNUBBER & DIAPHRAGM SEAL

XK2 applies to assemblies consisting of an instrument (gauge, switch, transducer) attached to a capillary, followed by a PLV, snubber, and finally a diaphragm seal. All connections must be ½ NPT. The snubber attaches to the diaphragm seal using a ½ NPT nipple.

For more detailed information about our assemblies, see our full assembly brochure.

Quick Guide



To use the below table, select the number of instruments and accessories required in your assembly; and whether a seal is required. Confirm that the accessories are available in the desired configuration, and note any connection size requirements. See the assembly illustrations on pages 4-7 for more detailed information for each assembly.

Code	Instruments (Gauge, Switch, or Transducer)	Connections	Diaphragm Seal	Number of Accessories	Snubber or Dampener	PLV	Siphon	Valve	Capillary	Notes
J9	1	1/4 NPT	✓	2	✓			✓		
K2	1	½ NPT	✓	3	✓	✓			✓	
K9	1	1/4 or 1/2 NPT	✓	1			✓			MicroTube™ siphon only
L2	2	1/4 NPT	✓	1		✓				
L3	2	1/4 NPT	✓	1	✓					
L4	2	Mix	✓							
L5	2	Mix	✓	1	✓					
L6	1	½ NPT	✓	2	✓			✓		
E8	1	1⁄4 or 1⁄2 NPT	✓	2	✓			✓		Snubber above diaphragm seal, valve below
F4	1	1/4 or 1/2 NPT	✓	1				✓		Valve below diaphragm seal
FL	1	1⁄4 or 1⁄2 NPT	✓	1				✓		Valve between diaphragm seal and instrument
НЗ	2	1/4 NPT	✓							Both instruments with 1/4 NPT Male connections
H5	2	½ NPT	✓							Both instruments with ½ NPT Male connections
Н6	3	½ NPT	✓							All instruments with ½ NPT Male connections
H7	2	1/4 NPT	✓							1 Male / 1 Female ¼ NPT instrument connections
Н8	3	1/4 NPT	✓							
Н9	2	Mix	✓							14 NPT Male gauge, 12 NPT Female switch/diaphragm seal
Q1	1	½ NPT	✓	2				✓		
Q4	3	½ NPT	✓	1	✓					



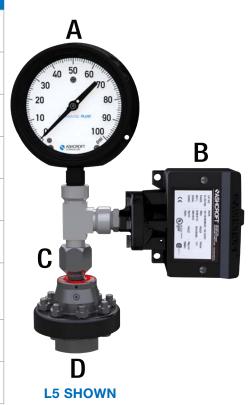
Code	Instruments (Gauge, Switch, or Transducer)	Connections	Diaphragm Seal	Number of Accessories	Snubber or Dampener	PLV	Siphon	Valve	Capillary	Notes
5G	1	1/4 or 1/2 NPT		1	✓	✓	✓		✓	Direct connection only
E7	2	½ NPT		1	✓					
E9	1	1/4 or 1/2 NPT		2		✓	✓			
FC	1	1/4 or 1/2 NPT		2			✓	✓		
F2	1	1/4 or 1/2 NPT		1			✓			
FA	1	1/4 or 1/2 NPT	✓	2	✓				✓	
F3	1	1/4 or 1/2 NPT	✓	1			✓			Siphon below diaphragm seal
F6	1	1/4 or 1/2 NPT	✓	1	✓					
F7	1	1/4 or 1/2 NPT	✓	1		✓				
F8	1	1/4 or 1/2 NPT	✓	1					√	Capillary between instrument and diaphragm seal
F9	1	1/4 or 1/2 NPT	✓	2		✓			✓	

	3 instruments attached to a diaphragm seal							
Code	Instrument A	Instrument B	Accessory C	Seal D				
Н6	½ NPT Male	2x ½ NPT Male	N/A	½ NPT Female diaphragm seal or ring				
Н8	1/4 NPT Male	2x ¼ NPT Female	N/A	¼ NPT Female diaphragm seal or ring				
Q4	½ NPT Male	2x ½ NPT Male	Snubber or Dampener	½ NPT Female diaphragm seal or ring				

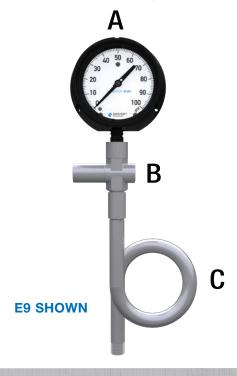




	Assemblies consisting of 2 instruments							
Code	Instrument A	Instrument B	Accessory C	Isolator D				
E7	½ NPT Male	½ NPT Male ⁽¹⁾	½ NPT Snubber or Dampener	N/A				
L2	½ NPT Male	1/4 NPT Female	1/4 NPT PLV	1/4 NPT diaphragm seal or isolation ring				
L3	1/4 NPT Male	1/4 NPT Female	1/4 NPT Snubber or Dampener	1/4 NPT diaphragm seal or isolation ring				
L4	½ NPT Male	1/4 NPT Female	N/A	½ NPT diaphragm seal or isolation ring				
L5	½ NPT Male	1/4 NPT Female	½ NPT Snubber or Dampener	½ NPT diaphragm seal or isolation ring				
НЗ	1/4 NPT Male	1/4 NPT Male	N/A	½ NPT diaphragm seal or isolation ring				
H5	½ NPT Male	½ NPT Male	N/A	½ or ¼ NPT diaphragm seal or isolation ring				
H7	1/4 NPT Male	1/4 NPT Female	N/A	1/4 NPT diaphragm seal or isolation ring				
Н9	½ NPT Male	½ NPT Female ⁽¹⁾	N/A	½ NPT diaphragm seal or isolation ring				



1. Instrument B installed in the 9 o'clock position

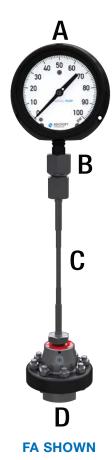


· ·	Assemblies for 1 instrument without a diaphragm seal						
Code	Instrument A	Accessory B	Accessory C				
5G	½ or ¼ NPT	½ or ¼ NPT	N/A				
E9	½ or ¼ NPT Male	Snubber, Dampener, or PLV with Male process connection	Siphon with Female instrument connection				
FC	½ or ¼ NPT Male	Needle valve with Female inlet and outlet	Siphon with Male instrument connection				
F2	½ or ¼ NPT Male	N/A	Siphon with Female instrument connection				

Note: All components must mate without the use of adapter fittings: all connections must be $\frac{1}{2}$ or $\frac{1}{4}$ NPT for a given assembly.



	Assemblies with 1 instrument, accessory(ies), and isolators						
Code	Instrument A	Accessory B	Accessory C	Diaphragm Seal D			
FA	½ or ¼ NPT Male	Snubber or Dampener	Capillary	Diaphragm seal or isolation ring			
FL	½ or ¼ NPT Male	Needle valve	N/A	Diaphragm seal			
F6	½ or ¼ NPT Male	Snubber or Dampener	N/A	Diaphragm seal or isolation ring			
F7	½ or ¼ NPT Male	PLV	N/A	Diaphragm seal or isolation ring			
F8	½ or ¼ NPT	N/A	Capillary	Diaphragm seal or isolation ring			
F 9	½ or ¼ NPT Male	PLV	Capillary	Diaphragm seal or isolation ring			
K9	½ or ¼ NPT Male	N/A	MicroTube [™] siphon	Diaphragm seal			
L6	½ NPT Male	½ NPT Snubber or Dampener	½ NPT Needle valve	Diaphragm seal			



	Diaphragm seals with accessories attached at process connection							
Code	Instrument A	Accessory B	Diaphragm Seal C	Accessory D				
F3	½ or ¼ NPT Male	N/A	Diaphragm seal	Siphon or Capillary				
J 9	1/4 NPT Male	N/A	Diaphragm seal with 1/4 NPT Female PC	Snubber or Dampener and valve				
E8	½ or ¼ NPT Male	Snubber or Dampener	Diaphragm seal	Valve				
F4	½ or ¼ NPT Male	N/A	Diaphragm Seal	Valve				
Q1	½ or ¼ NPT Male	N/A	Diaphragm Seal with XDB or ½ NPT model 82 ring	2x ½ NPT Valves				



