

Pressure Recommendations

Mark hose assembly with pressure from this chart or hose working pressure, whichever is lower all pressure recommendations are in pounds per square inch (PSI)

1. This chart is intended as a guide only. It only applies to metal couplings as shown, for ambient temperature (70°F) applications with true I.D. hose. It assumes new Dixon supplied couplings, new Dixon supplied clamps, new quality hose and proper installation by a qualified assembler using Dixon procedures and equipment.

Temperature can affect the coupling retention. For questions relating to temperatures other than ambient (70°F) contact the hose manufacturer or Dixon at 1-800-355-1991.

2. This chart does not apply to non-Dixon products, with used hose, in non-approved or unsupported applications or in non-standard assemblies.

3. Do not use this chart if it conflicts with the hose manufacturer's recommendations.

Hose (rubber covered)	Couplings	DPL Sect.	Clamps & Ferrules	*Assembly* Procedure	1/4"	3/8"	1/2"	5/8"	3/4"
Air textile reinforced rubber lined	Air King Universal	C	Preformed Band Clamp	2102			150	150	150
	Machined - Short Shank	D	Crimp	2304	200	150	150	100	100
	Machined - Short Shank	D	Preformed Band Clamp	2100-2101			150	100	100
	Reusable - Brass	E	N/A	2305	250	250	250		
	King Machined - Medium Shank	D	Preformed Band Clamp	2100-2101			250	200	200
	King Machined - Long Shank	D	Preformed Band Clamp	2100-2101			300	300	300
Air textile or wire reinforced rubber lined	Air King Universal	C	Air King or Boss Interlocking Clamp	2000		150	150		150
	Air King Universal	C	Swage/Crimp	See DPL			150		150
	Boss Couplings	B	Boss Interlocking Clamp	2000-2004	600	600	600		600
	Holedall Swage/Crimp	I	Swage/Crimp	see Ram Manual	600	600	600		600
Asphalt & Hot Tar	Boss Couplings	B	Boss Interlocking Clamp	2001-2002					
Chemical plastic lined for liquid service	King Machined - Medium Shank	D	Preformed Band Clamp	2100-2101			125		125
	King Machined - Medium Shank	D	Band & Buckle	2104					
	King Machined - Long Shank	D	Preformed Band Clamp	2100-2101			150		150
	King Machined - Long Shank	D	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Preformed Band Clamp	2100-2101			150		150
	Andrews/Boss-Lock Cam & Groove	A	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Swage/Crimp	see Ram Manual					250
	Holedall Swage/Crimp	I	Swage/Crimp	see Ram Manual			600		600
Chemical rubber lined for liquid service	King Machined - Medium Shank	D	Preformed Band Clamp	2100-2101			125		125
	King Machined - Medium Shank	D	Band & Buckle	2104					
	King Machined - Long Shank	D	Preformed Band Clamp	2100-2101			150		150
	King Machined - Long Shank	D	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Preformed Band Clamp	2100-2101			150		250
	Andrews/Boss-Lock Cam & Groove	A	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Swage/Crimp	see Ram Manual					250
	Boss Couplings	B	Boss Interlocking Clamp	2000-2004			600		600
	Holedall Internal Expansion	I	Internal Expansion	see Ram Manual					
	Holedall Swage/Crimp	I	Swage/Crimp	see Ram Manual			600		600
Food Grade conforming to 3A	Flow Chief Sanitary	I	Internal Expansion	see Ram Manual					
Food Grade rubber lined	King Machined - Medium Shank	D	Preformed Band Clamp	2100-2101			125		125
	King Machined - Medium Shank	D	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Preformed Band Clamp	2100-2101			150		250
	Andrews/Boss-Lock Cam & Groove	A	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Swage/Crimp	see Ram Manual					250
	Holedall Internal Expansion	I	Internal Expansion	see Ram Manual					
	Holedall Swage/Crimp	I	Swage/Crimp	see Ram Manual			600		600
	Layflat	Flat Seal	A/J	Flat Seal Clamps	2202				

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4. All hose assemblies should be pressure tested to hose manufacturers or Rubber Manufacturers Association (R.M.A.) specifications prior to being put into service.
5. Our test experience indicates that coupling retention can vary with changes in hose design. For pressure ratings other than those listed and shown, or if questions arise, please call Dixon Valve & Coupling Company at 1-800-355-1991 for assistance.
6. All hose assembly components must be compatible with the materials and environments with which they are to come in contact.
7. Dixon recommends that all hose assemblies be marked with the assembly working pressure and media of the intended application. Under no circumstances should the assembly working pressure exceed the working pressure of the lowest rated component (coupling, clamp, ferrule or hose).
8. For further safety information refer to pages 2-7.

* Procedures can be found at www.dixonvalve.com or by calling 1-800-355-1991.

Hose (rubber covered)	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	Special Notes
Air textile reinforced rubber lined	150									(2) bands on 5/8" or larger; Must use mating Dixon Air King fittings with safety clip installed.
	100									
	100									(2) bands on 1/2" to 1"
	150									
	300									
Air textile or wire reinforced rubber lined	150									Must use mating Dixon Air King fittings with safety clip installed. Coupling and Ferrule are sold assembled.
	150									Must use mating Dixon Air King fittings with safety clip installed.
	600	600	600	600	450	450	250		250	
	600	600	600	600	600	600	500	450	400	
Asphalt & Hot Tar	200	200	200	200	200	200	200			Consult factory
Chemical plastic lined for liquid service	125	125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
		125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
	150	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; except for KHN & KRN nipples
		150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; except for KHN & KRN nipples
	250	250	250	250	150	125	100			
		250	250	250	150	125	100			
	250		250	250		125	100			Requires properly matched Stem and Ferrule.
600	600	600	600	600	600	500				
Chemical rubber lined for liquid service	125	125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
		125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
	150	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; except for KHN & KRN nipples
		150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; except for KHN & KRN nipples
	250	250	250	250	150	125	100			
		250	250	250	150	125	100			
	250		250	250		125	100			Requires properly matched Stem and Ferrule.
	600	600	600	600	450	450	250			
800	800	800	800	600	600	500			Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules.	
600	600	600	600	600	600	500				
Food Grade conforming to 3A			250	250		250				Use Stainless Steel Food Grade Ferrule ONLY.
Food Grade rubber lined	125	125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
		125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
	250	250	250	250	150	125	100	75	75	
		250	250	250	150	125	100	75	75	
	250		250	250		125	100			Requires properly matched Stem and Ferrule.
	250		250	250	250	250	200			
600	600	600	600	600	600	500	450	400		
Layflat			300	300	300	300	225		150	To be used as a set ONLY. 6" Cam & Groove couplings are rated to 75PSI.

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Hose (rubber covered)	Couplings	DPL Sect.	Clamps & Ferrules	*Assembly* Procedure	1/4"	3/8"	1/2"	5/8"	3/4"
Material Handling <i>rubber lined</i>	Cast Short Shank	D	Preformed Band Clamp	2100-2101					
	Cast Short Shank	D	Band & Buckle	2104					
	King Machined - Medium Shank	D	Preformed Band Clamp	2100-2101					
	King Machined - Medium Shank	D	Band & Buckle	2104					
	King Machined - Long Shank	D	Preformed Band Clamp	2100-2101					
	King Machined - Long Shank	D	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Preformed Band Clamp	2100-2101					
	Andrews/Boss-Lock Cam & Groove	A	Band & Buckle	2104 see Ram					
	Andrews/Boss-Lock Cam & Groove	A	Swage/Crimp	Manual					
	Holedall Swage/Crimp	I	Swage/Crimp	see Ram Manual					
Holedall Internal Expansion	I	Internal Expansion	see Ram Manual						
Material Handling <i>no helical wire</i> <i>rubber lined</i>	Cast Short Shank	D	Double Bolt Clamp	2201					
	King Machined - Medium Shank	D	Double Bolt Clamp	2201					
	King Machined - Long Shank	D	Double Bolt Clamp	2201					
Material Handling <i>cement</i> <i>rubber lined</i>	Boss Couplings	B	Boss Interlocking Clamp	2000-2004					
	Holedall Swage/Crimp	I	Swage/Crimp	see Ram Manual					
	Holedall Internal Expansion	I	Internal Expansion	see Ram Manual					
Petroleum Transfer	King Machined - Medium Shank	D	Preformed Band Clamp	2100-2101			125		125
	King Machined - Medium Shank	D	Band & Buckle	2104					
	King Machined - Long Shank	D	Preformed Band Clamp	2100-2101			150		150
	King Machined - Long Shank	D	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Preformed Band Clamp	2100-2101			150		250
	Andrews/Boss-Lock Cam & Groove	A	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Swage/Crimp	see Ram Manual					250
	Holedall Internal Expansion	I	Internal Expansion	see Ram Manual					
Holedall Swage/Crimp	I	Swage/Crimp	see Ram Manual			600		600	
Air Craft Refueling <i>conforming to API 1529</i>	Holedall Internal Expansion - Petroleum	I	Internal Expansion - Petroleum	see Ram Manual					
Push-On	Push-On	E	N/A	2001-2002	175	175	175	175	175
Steam	Boss Couplings	B	Boss Interlocking Clamp	2000-2004			250		250
Water	Air King Universal	C	Preformed Band Clamp	2100-2101			150	150	150
	Air King Universal	C	Air King or Boss Interlocking Clamp	2000-2001		150	150		150
	Machined - Short Shank	D	Preformed Band Clamp	2100-2101			150	100	100
	Machined - Short Shank	D	Crimp	2304	200	150	150	100	100
	Cast Short Shank	D	Preformed Band Clamp	2100-2101			150	100	100
	Cast Short Shank	D	Band & Buckle	2104					
	King Machined - Medium Shank	D	Preformed Band Clamp	2100-2101			250	200	200
	King Machined - Long Shank	D	Preformed Band Clamp	2100-2101			300	300	300
	Andrews/Boss-Lock Cam & Groove	A	Preformed Band Clamp	2100-2101			150		250
	Andrews/Boss-Lock Cam & Groove	A	Band & Buckle	2104					
	Andrews/Boss-Lock Cam & Groove	A	Swage/Crimp	see Ram Manual					250
	Boss Couplings	B	Boss Interlocking Clamp	2000-2002	600	600	600		600
	Holedall Swage/Crimp	I	Swage/Crimp	see Ram Manual	600	600	600		600
Water <i>no helical wire</i>	Cast Short Shank	D	Double Bolt Clamp	2201					
	King Machined - Medium Shank	D	Double Bolt Clamp	2201					
	King Machined - Long Shank	D	Double Bolt Clamp	2201					

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Hose (rubber covered)	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	Special Notes
Material Handling rubber lined			75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"
			75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"
			125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; <i>except for KHN, KRN & PF nipples</i>
			125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; <i>except for KHN, KRN & PF nipples</i>
			150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; <i>except for KHN & KRN nipples</i>
			150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; <i>except for KHN & KRN nipples</i>
			250	250	150	125	100	75	75	
			250	250	150	125	100	75	75	
			250	250		125	100			Requires properly matched Stem and Ferrule.
			600	600	600	600	500	450	400	Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules. <i>Internal Expansion is NOT recommended for XLPE, UHMWPE & Gum Rubber lined hoses.</i>
		800	800	600	600	500		400		
Material Handling no helical wire rubber lined			75	75	50	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest
			125	75	75	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest; <i>except for KHN, KRN & PF nipples</i>
			150	125	100	75	75			(3) double bolt clamps on all sizes; <i>except for KHN & KRN nipples</i>
Material Handling cement rubber lined	600	600	600	600	450	450	250		250	Cement will erode I.D.
	600	600	600	600	600	600	500	450	400	Cement will erode I.D.
	800	800	800	800	600	600	500		400	Cement will erode I.D. Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules.
Petroleum Transfer	125	125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; <i>except for KHN, KRN & PF nipples</i>
		125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; <i>except for KHN, KRN & PF nipples</i>
	150	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; <i>except for KHN & KRN nipples</i>
		150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; <i>except for KHN & KRN nipples</i>
	250	250	250	250	150	125	100	75	75	
		250	250	250	150	125	100	75	75	
	250		250	250		125	100			Requires properly matched Stem and Ferrule.
	800	800	800	800	600	600	500		400	Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules.
600	600	600	600	600	600	500	450	400		
Air Craft Refueling conforming to API 1529	300	300	300	300	300	300	300			
Push-On										Push-On fittings should ONLY be used on Push-On hose.
Steam	250	250	250	250	250	250	250		250	
Water	150									(2) bands on 5/8" or larger; Must use mating Dixon Air King fittings with safety clip installed.
	150									Must use mating Dixon Air King fittings with safety clip installed.
	100									
	100									
		75	75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest
		75	75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest
	150	150	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; <i>except for KHN, KRN & PF nipples</i>
	300	300	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; <i>except for KHN & KRN nipples</i>
	250	250	250	250	150	125	100	75	75	
	250	250	250	250	150	125	100	75	75	
250		250	250		125	100			Requires properly matched Stem and Ferrule.	
600	600	600	600	450	450	250		250		
600	600	600	600	600	600	500	450	400		
Water no helical wire			75	75	50	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest
			125	75	75	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest; <i>except for KHN, KRN & PF nipples</i>
			150	125	100	75	75			(3) double bolt clamps on all sizes; <i>except for KHN & KRN nipples</i>