Holedall® - Permanently Attached Coupling System



Based upon the already highly successful Holedall®/Mulconroy Coupling System, which has been manufactured and marketed by our parent company - Dixon Valve & Coupling since 1940 in the United States. This comprehensive range has been specifically designed and developed to service the needs of both industrial and the Offshore Oil & Gas markets.

Holedall couplings conform to all European specifications and quality requirements, including: EN1765 and EN14421.

IX Couplings are specified for use in Type Approved Hose Assemblies by Det Norsk Veritas, Lloyds Register of Shipping etc., and are in service with most of the World's major oil drilling companies on Offshore and hand rig applications.

The Holedall® Coupling System provides a safe and cost effective method of outstanding strength and durability of attaching couplings to hose. Ease of operation, flexibility and economy make the Holedall method an un-equalled hose assembly system.

With both Internal Expansion and External Swage Couplings, the Holedall system utilises a cold worked, draw type progressive swage method which gives a full 360° uninterrupted expansion or compression band aroun the hose, giving superb coupling retention and end load characteristics.

The Holedall range of External Crimp Couplings which includes an interlocking groove and collar offers an alternative safe and secure method of producing hose assemblies to 8" nominal bore.

Only quality assured, materials are used in the production of Holedall Couplings, with materials used for swaging having been selected to establish the proof/yield stress to ensure that brittle fracture does not occur. Certification in accordance with EN10204 3.1. is available with all couplings.

The Holedall system does not stop at couplings. We also manufacture and supply a range of machines for hose assembly including, Internal Expansion Machines, External Swaging Machines, Dual Swaging Machines, External Crimping Machines and Coupling Inserting Machines and Hydrostatic Test Pumps.

Definitions

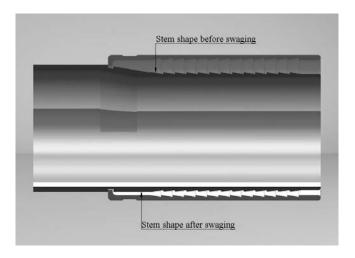
- "Stem", Nipple, Tail is an externally serrated coupling which fits inside the bore of the hose.
- "Ferrule" is an internally serrated steel cylinder which fits over the outside of the hose or pipe and interlocks with the stem.

П

What's the difference?

Internal Expansion (IX)

Internal expansion or swaging, is the process by which the stem is internally expanded to compress the hose material against the serrated internal ferrule wall to provide retention. Internal expansion also provides full flow through the bore of the stem significantly reducing turbulence and the possibility of bacteria becoming trapped between the end of the stem and the hose. This is particularly important for food grade hose assemblies and CIP applications.



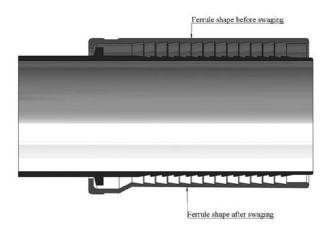
Internal expansion is achieved by pulling a hardened tool of the same size as the hose bore, called a dolly or plug down the inside of the stem in order to expand it. The compressive force exerted on the hose wall by the stem causes the hose material to flow into the serrated cavities of both stem and ferrule, providing a permanently attached secure mechanical bond.



External Swaging (ES)

External Swaging is the opposite process to internal expansion, in that it is the process of reducing the ferrule onto the hose outside diameter and subsequently compressing the hose material into the serrated cavities of both the stem and ferrule, providing a safe and secure method of attachment.

External swaging is achieved by pushing the hose and end coupling assembly through a hardened steel split-die.



The internal diameter of the die is smaller than the external diameter of the ferrule. Similar in process to internal expansion, the external diameter of the ferrule is permanently reduced which results in compressive force exerted onto the hose wall causing it to flow into the serrated cavities of both stem and ferrule, providing a permanently attached secure mechanical bond.



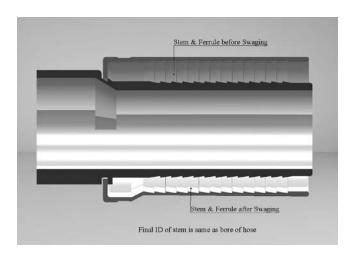
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Permanently Attached Couplings - Holedall® System

Dual Swaging (DS)

Dual swaging is mainly used to attach couplings to high pressure hose or hose with very thick wall section. This is accomplished by compressing both the stem and the ferrule onto the hose material in order to provide a secure method of attachment. Internal expansion and external swaging by themselves are perfectly adequate for low to medium pressure applications, however for higher pressure applications, it may be necessary to dual swage.

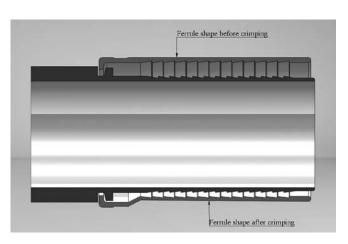


Dual swaging is effectively internal expansion and external swaging or crimping combined. The aim is to compress both stem and the ferrule onto the hose in order to provide the necessary grip. It is essential when dual swaging to compress both the inside and outside diameters of the hose by similar amounts in order to minimise any damage to the reinforcing layers. In some instances it may be necessary to skive the hose down to the wires/cables.



External Crimping (EC)

External crimping is a similar method of attaching couplings as external swage. All Holedall® External crimp couplings have an interlocking groove in which the ferrule is located/secured. External Crimp is the process of compressing the serrated ferrule onto the hose outside diameter and subsequently compressing the hose material into the serrated cavities of both the stem and ferrule, providing a safe and secure method of attachment.



Similar in principle to external swaging. The external diameter of the ferrule is permanently reduced radially by segmented Dies resulting in a compressive force being applied to the hose causing it to flow into the serrated cavities of both stem and ferrule thus providing a secure mechanical bond. At the same time, the retaining ring of the ferrule is secured in the groove of the stem.



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Coupling Inserter for Large Hose



- highly portable
- inserts 4", 5", 6", 8", 10" and 12" couplings
- includes CI96AH pump (shown below)

Coupling Inserters



• for insertion of hose shanks into hose with a 2¾" to 7¼" OD

PART NO.	SIZE
CI96	Supplied with a 10,000 PSI hand pump and 5 ton ram
CI96AH	Supplied with a 10,000 PSI air/hydraulic pump and 5 ton ram
CI9311SML	Small jaws for 1" to 3" OD hose

coupling inserter with hand pump



air/hydraulic foot pump

Hand Hydrotest Pump



- stainless steel piston, aluminum body
- designed for use in testing pipe lines, pressure tanks and pressure vessels
- uses efficient and long lasting check valves
- cylinder displacement: 1.37 cubic inches
- 0-1000 PSI pressure gauge, 10' pressure hose and quick disconnect coupler included
- piston: 7/8" with 2" stroke

PART NO.	INLET NPT	OUTLET NPT	WORKING PRESSURE PSI
ННТР	1/2"	1/2"	1000



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Hydrostatic Test Pumps

A safe, cost effective pump to test hose before putting it into service.



- 1.3 GPM fill rate
- test pressure: 200 to 2000 PSI
- suction strainer keeps dirt out of pump
- high pressure test gauge
- 115v motor
- 2 ft. power cord
- easy to use, portable

ELECTRIC		
PART NO.	DESCRIPTION	
ETP	Electric test pump	

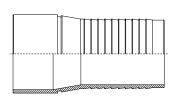


- 5.5 GPM fill rate
- test pressure: 0 to 1500 PSI
- stainless interior
- air gauge for quick, easy adjustment of maximum test pressure
- high pressure test gauge
- filter/regulator for clean, dry air to ensure long life of unit
- on off valve for air input
- 15 ft. of hose included
- easy to use, portable
- Use of coalescing filter and water filter recommended for prolonged life.

PNEUMATIC			
PART NO. DESCRIPTION			
PTP	Pneumatic test pump		

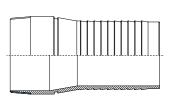


Holedall® IX Internal Expansion



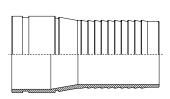
PLAI	PLAIN END STEM FOR WELDING - NATURAL FINISH				
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	NOMINAL BORE*			
HA0050 HA0037 HA0032 HA0029 HA0054 HA0058 HA0099 HA0369 HA0370	HA1050 HA1037 HA1032 HA1029 HA1054 HA1058 HA1099	2" 21/2" 3" 4" 5" 6" 8" 10" 12"			

Plain End Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970: 1983 Grade 316 S11. * Couplings are also available for metric sized hose bores.



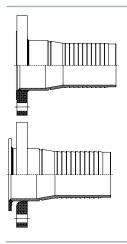
MALE THREAD STEM - YELLOW ZINC PLATED						
CARBON STEEL PART NO.S BSP BSPT API/NPT	STAINLESS STEEL PART NO.S BSP BSPT API/NPT	NOMINAL BORE*				
HA0051ZP HA0051TZP HA0052ZP HA0038ZP HA0038TZP HA0039ZP HA0033ZP HA0033TZP HA0034ZP HA0031ZP HA0031TZP HA0026ZP HA0055ZP HA0055TZP HA0056ZP HA0059ZP HA0059TZP HA0060ZP HA0144ZP HA0144TZP HA0145ZP	HA1051 HA1051T HA1052 HA1038 HA1038T HA1039 HA1033 HA1033T HA1034 HA1031 HA1031T HA1026 HA1055 HA1055T HA1056 HA1059 HA1059T HA1060 HA1144 HA1144T HA1145	2" 2 ¹ /2" 3" 4" 5" 6" 8"				
- HA0371TZP - - HA0372TZP -		10" 12"				

Threaded End Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970: 1983 Grade 316 S11. * Couplings are also available for metric sized hose bores.



	GROOVED STEM - YELLOW ZINC PLATED				
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	NOMINAL BORE*			
HA0053ZP	HA1053	2"			
HA0040ZP	HA1040	2 ¹ /2"			
HA0035ZP	HA1035	3"			
HA0030ZP	HA1030	4"			
HA0057ZP	HA1057	5"			
HA0061ZP	HA1061	6"			
HA0148ZP	HA1148	8"			

Grooved Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970: 1983 Grade 316 S11. * Couplings are also available for metric sized hose bores.



FLANGE	FLANGED STEM - FIXED & SWIVEL - YELLOW ZINC PLATED						
CARBON STEEL P FIXED SWIN		S STEEL PART NO.S SWIVEL	NOMINAL BORE*				
HA0135ZP HA0 HA0136ZP HA0 HA0137ZP HA0 HA0138ZP HA0 HA0139ZP HA0 HA0140ZP HA0 HA0924ZP HA0	150ZP HA1134 151ZP HA1135 152ZP HA1136 153ZP HA1137 154ZP HA1138 155ZP HA1139 156ZP HA1140 397ZP -	HA1150 HA1151 HA1152 HA1153 HA1154 HA1155 HA1156	2" 21/2" 3" 4" 5" 6" 8" 10"				

Flanged Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970:1983 Grade 316 S11. *Couplings are also available for metric sized hose bores

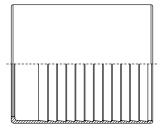


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Ferrules - Yellow Zinc

Ferrule Selection Chart (Standard 20 Bar Hose)

INTERNAL EXPANSION FERRULE SELECTION GUIDE												
PART NO. PREFIX		HOSE BORE SIZE (STANDARD INCH SIZING)										
WALL THK. (MM)	1IN	1.25IN	1.5IN	2IN	2.5IN	3IN	4IN	5IN	6IN	8IN	10IN	12IN
4.0	40.5-2.5	47-2.5										
4.5	41.5-2.5	48-2.5										
5.0	42.5-2.5	49-2.5	56-3									
5.5	43.5-2.5	50-2.5	57-3									
6.0	44.5-2.5	51-2.5	58-3	71-3	84-3	97-3						
6.5	45.5-2.5	52-2.5	59-3	72-3	85-3	98-3						
7.0	46.5-2.5	53-2.5	60-3	73-3	86-3	99-3	125-3	152-4				
7.5		54-2.5	61-3	74-3	87-3	100-3	126-3	153-4				
8.0		55-2.5	62-3	75-3	88-3	101-3	127-3	154-4				
8.5		56-2.5	63-3	76-3	89-3	102-3	128-3	155-4				
9.0		57-2.5	64-3	77-3	90-3	103-3	129-3	156-4	182-4.5			
9.5		58-2.5	65-3	78-3	91-3	104-3	130-3	157-4	183-4.5			
10.0		59-2.5	66-3	79-3	92-3	105-3	131-3	158-4	184-4.5	236-5		
10.5				80-3	93-3	106-3	132-3	159-4	185-4.5	237-5		
11.0				81-3	94-3	107-3	133-3	160-4	186-4.5	238-5		
11.5				82-3	94-3	108-3	134-3	161-4	187-4.5	239-5		
12.0				83-3	95-3	109-3	135-3	162-4	188-4.5	240-5		
12.5				84-3	96-3	110-3	136-3	163-4	189-4.5	241-5		
13.0							137-3	164-4	190-4.5	242-5	295-6	
13.5							138-3	165-4	191-4.5	243-5	296-6	
14.0							139-3	166-4	192-4.5	244-5	297-6	
14.5							140-3	167-4	193-4.5	245-5	298-6	349-6
15.0							141-3	168-4	194-4.5	246-5	299-6	350-6
15.5								169-4	195-4.5	247-5	300-6	351-6
16.0								170-4	196-4.5	248-5	301-6	352-6
16.5								171-4	197-4.5	249-5	302-6	353-6
17.0									198-4.5	250-5	303-6	354-6
17.5										251-5	304-6	355-6
18.0										252-5	305-6	356-6
18.5										253-5	306-6	357-6
19.0										254-5	307-6	358-6
19.5										255-5	308-6	359-6
20.0										256-5	309-6	360-6



Carbon Steel Ferrules are supplied Yellow Zinc Plated and Passivated in accordance with BS1706:1990 or alternatively Powder Painted in accordance with the Oil & Gas UK Colour Coding Scheme which can be found on Page XX of this catalogue Please specify Ferrule Finish on your purchase

Order Stainless Steel Ferrules are supplied in Grade 304/304L and are natural finish.

Ferrule Coding example: 4" Hose x 10mm wall thickness, for conveying Base Oil. The prefix is HA0065 from table 2. The Ferrule Coding for a 10mm wall thickness hose is 131-3 from table 1. The colour coding is from the Oil & Gas UK Colour Coding Scheme which can be found on Page 259 of this catalogue = RED. The complete part number is HA0065-131-3RED

CARBON STEEL				
PART NO. PREFIX	SIZE			
HA0350	1.0in			
HA0789	1.25in			
HA0332	1.5in			
HA0062	2.0in			
HA0063	2.5in			
HA0064	3.0in			
HA0065	4.0in			
HA0066	5.0in			
HA0167	6.0in			
HA0187	8.0in			
HA0367	10.0in			
HA0368	12.0in			

	STAINLESS STEEL				
PART NO. PREFIX	SIZE				
HA1350	1.0in				
HA1789	1.25in				
HA1332	1.5in				
HA1062	2.0in				
HA1063	2.5in				
HA1064	3.0in				
HA1065	4.0in				
HA1066	5.0in				
HA1067	6.0in				
HA1187	8.0in				
HA1367	10.0in				
HA1368	12.0in				

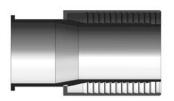
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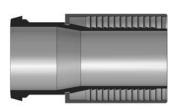
Holedall® Hygienic Stem & Ferrule

For the food, brewing, chemical and pharmaceutical industry. Stems are manufactured from AISI 316L Stainless Steel.

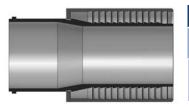




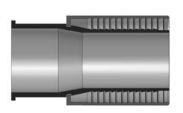
BS 4825: PART 5: TYPE RJT				
INTERNAL EXPANSION STEM PART NO. MALE FEMALE		NOMINAL BORE / DN*		
- - -	HA0229 HA0231 HA0232	1" / 25 2" / 50 2 ¹ /2" / 65		



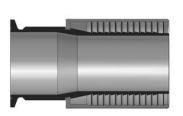
DIN 11887 / DIN 11851				
INTERNAL EXPAN	ISION STEM PART NO. FEMALE	NOMINAL BORE / DN*		
HA0274 HA0275 HA0276 HA0277 HA0278 HA0299	HA0244 HA0245 HA0246 HA0247 HA0248 HA0300	1" / 25 11/2" / 40 2" / 50 21/2" / 65 3" / 80 4" / 100		



BS 4825: PART 4: TYPE IDF					
INTERNAL EXPAN MALE	ISION STEM PART NO. FEMALE	NOMINAL BORE / DN*			
-	HA0650 HA0652	2 ¹ /2" / 65 4" / 100			



SMS					
INTERNAL EXPANS	SION STEM PART NO. FEMALE	NOMINAL BORE / DN*			
- - - -	HA0608 HA0609 HA0610 HA0611 HA0612	1 ¹ / ₂ " / 40 2" / 50 2 ¹ / ₂ " / 65 3" / 80 4" / 80			



BS 4825: PART 3: CLAMP TYPE					
INTERNAL EXPANSION STEM NOMINAL PART NO. BORE / DN*					
HA0665 HA0666 HA0667 HA0668 HA0669 HA0670	1" / 25 1 ¹ / ₂ " / 40 2" / 50 2 ¹ / ₂ " / 65 3" / 80 4" / 80				

^{*} Couplings are also available for metric sized hose bores.



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INTERNA	L EXPANSION STAINI	ESS STEEL HYGIENI	C FERRULES
PART NO.	NOMINAL	HOSE I	RANGE
INTERNAL	BORE / DN	FROM	ТО
HA0259-44-3	1" / 25	35.7	36.5
HA0259-45-3	1" / 25	36.9	37.7
HA0259-46-3	1" / 25	38.1	38.9
HA0259-48-3	1" / 25	39.3	40.1
HA0259-49-3	1" / 25	40.5	41.3
HA0260-57-3	1 ¹ /2" / 40	48.4	49.6
HA0260-58-3	1 ¹ /2" / 40	50	51.2
HA0260-60-3	1 ¹ /2" / 40	51.6	52.8
HA0260-62-3	1 ¹ /2" / 40	53.2	54.4
HA0261-71-3	2" / 50	62.7	63.9
HA0261-73-3	2" / 50	64.3	65.5
HA0261-74-3	2" / 50	65.9	67.1
HA0261-76-3	2" / 50	67.4	68.7
HA0262-85-3	2 ¹ /2" / 65	76.1	78.1
HA0263-100-3	3" / 80	91.7	92.9
HA0263-101-3	3" / 80	92.1	93.3
HA0263-102-3	3" / 80	93.6	94.9
HA0263-104-3	3" / 80	95.2	96.5
HA0263-105-3	3" / 80	96.8	98.0
HA0263-107-3	3" / 80	98.4	99.6
HA0303-127-3	4" / 100	117.5	118.7
HA0303-129-3	4" / 100	119.0	120.3
HA0303-130-3	4" / 100	120.6	121.9
HA0303-132-3	4" / 100	122.2	123.5
HA0303-134-3	4" / 100	123.8	125.0

Ferrules are manufactured from grade 304 S15 (1.4301) When ordering Ferrules, please state hose dimensions.



Please note: These fittings are available to suit RJT, IDF, SMS, DIN. Please advise your requirement.

INTERNAL EX	KPANSION HYGIENIC	ENGINEERING POLY	MER FERRULES			
PART NO.	SIZE	HOSE OD RANGE (MM)				
		то	FROM			
HA0259-46-4BLU	1"	35.7	36.5			
HA0259-47-4BLU	1"		36.5 37.7			
	· ·	36.9	****			
HA0259-48-4BLU	1"	38.1	38.9			
HA0259-50-4BLU	1"	39.3	40.1			
HA0259-51-4BLU	1"	40.5	41.3			
HA0260-59-4BLU	1 ¹ /2"	48.4	49.6			
HA0260-60-4BLU	1 ¹ /2"	50	51.2			
HA0260-62-4BLU	1 ¹ /2"	51.6	52.8			
HA0260-64-4BLU	1 ¹ /2"	53.2	54.4			
HA0261-73-4BLU	2"	62.7	63.9			
HA0261-75-4BLU	2"	64.3	65.5			
HA0261-76-4BLU	2"	65.9	67.1			
HA0261-78-4BLU	2"	67.4	68.7			
HA0262-89-5BLU	2 ¹ /2"	76.1	78.1			
HA0263-104-5BLU	3"	91.7	92.9			
HA0263-105-5BLU	3"	92.1	93.3			
HA0263-106-5BLU	3"	93.6	94.9			
HA0263-108-5BLU	3"	95.2	96.5			
HA0263-109-5BLU	3"	96.8	98			
HA0263-111-5BLU	3"	98.4	99.6			

Holedall Engineering Polymer Ferrules are also available in sizes 1" thru 3" for Industrial Hose applications, with a maximum working pressure of 20 Bar/300 psi.

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2-21/2"

Permanently Attached Couplings - Holedall® System

Internally Expanded Permanent Couplings - Scovill Style

Brass internally expanded permanent coupling are recommended for discharge and suction service. Commonly used in the transfer of fuel to homes, airplanes, ships, etc. The working pressure of the 520-H fitting varies with the size of the fitting, the size and construction of the hose and the media being conveyed. Dixon Holedall stems and ferrules are specifically designed to be used together as a coupling system.

Both the male and female have octagonal facets for tightening with a wrench. The female in 1½" and larger sizes has lugs fortightening. The stem is expanded to nominal ID of hose for a rigid, uniform, full-flow area.



- Male and female stems are machined from bar stock or solid brass forgings; ferrules are available in brass and stainless steel.
- Couplings are compact, light and streamlined to eliminate catching on curbs and shrubs.
- The H520 fittings are designed for internal expansion only
- · Couplings are pre-lubricated for assembly.
- Hand and electrically operated installation equipment is available. Consult factory for pricing and availability.





INTERNALLY EXPANDED PERMANENT COUPLINGS - SCOVILL STYLE - BRASS						
MALE NPT PART NO.	MALE NST PART NO.	FEMALE NPSH PART NO.	FEMALE NST PART NO.	VICTAULIC GROOVE PART NO.	HOSE ID	
H5192 H5212-A H5222-A H5272 ¹ H5232-A	- H5212NST - - H5232NST	H5191-BU H5211-A-BU H5221-A-BU H5271-BU ¹ H5231-A-BU	- H5211NST - - H5231NST ²	- G5212 - - - G5232	³ /4" 1" 1-1 ¹ /4" 1-1 ³ /8" 1-1 ¹ /2"	
H5242	-	H5241-BU	-	G5242	2"	

H5251 3

H5261 ³

1. 13/8" stem has 11/2" thread

H5252

H5262

- 2 . 11/2" NST requires special adapter, part # H5231NSTADT
- 3. 2¹/₂" and 3" parts have female NPSM thread

Note: The fittings on this page are intended for fuel delivery service.



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8 (800) 700-72-07

520-H Ferrules

A wide range of 520-H ferrules permits a perfect assembly of a coupling to a corresponding size of hose within commercial tolerances regardless of wall thickness. Eliminates need for large stock of coupling bodies. Consult Dixon for other hose OD's



520-H FERRULES - BRASS											
PART NO.	HOSE ID	HOS FROM	E OD TO	PART NO.	HOSE ID	HOSI FROM		PART NO.	HOSE ID	HOSI FROM	
R75AAS	3/4"	28.58	28.58	R1375BS	1 ³ /8"	44.05	45.24	R2AAS	2"	61.52	62.71
R75AS	3/4"	30.16	30.16	R1375CS	1 ³ /8"	45.64	46.83	R2AS	2"	63.10	52.39
R75BS	3/4"	31.35	31.35	R1375DS	1 ³ /8"	47.23	48.42	R2BS	2"	64.69	65.88
R75CS	3/4"	32.54	32.54	R1375ES	1 ³ /8"	48.82	50.01	R2CS	2"	66.28	67.47
R1AAAS-A	1"	34.93	35.72	R15AAAS-A	1 ¹ /2"	46.83	48.02	R2DS	2"	67.87	69.06
R1AAS-A	1"	36.12	36.91	R15AAS-A	1 ¹ /2"	48.42	50.01	R2ES	2"	69.45	70.64
R1AS-A	1"	37.31	38.10	R15AS-A	1 ¹ /2"	50.40	51.59	R2FS	2"	71.04	72.23
R1BS-A	1"	38.50	39.29	R15BS-A	1 ¹ /2"	51.99	53.18	R25AS	21/2"	75.41	76.60
R1CS-A	1"	39.69	40.48	R15CS-A	1 ¹ /2"	53.58	55.17	R25BS	2 ¹ /2"	76.99	78.58
R1DS-A	1"	40.88	41.67	R15DS-A	1 ¹ /2"	55.56	56.36	R25CS	2 ¹ /2"	78.98	80.57
R1ES-A	1"	42.07	42.86	R15ES-A	1 ¹ /2"	56.75	58.34	R25DS	21/2"	80.96	82.55
R125AAS-A	1 ¹ /4"	40.88	42.07	R15FS	1 ¹ /2"	58.74	60.33	R25ES	21/2"	82.95	84.53
R125AS-A	1 ¹ /4"	42.47	43.66	R15GS	1 ¹ /2"	60.72	61.91	R25FS	21/2"	84.93	86.52
R125BS-A	1 ¹ /4"	44.05	45.24					R3AAAS	3"	88.11	89.69
R125CS-A	1 ¹ /4"	45.64	46.83					R3AAS	3"	90.09	91.68
R125DS-A	1 ¹ /4"	47.23	48.42					R3AS	3"	92.08	94.06
ZTTR125ES	1 ¹ /4"	48.82	50.01					R3BS	3"	94.46	96.04
								R3CS	3"	96.44	97.63

250

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API Certified Permanently Attached Petroleum Couplings

The following fittings have been tested and are compliant with API 1529 6th edition.

Coupling procedures, ferrule recommendations and API test data are available upon request.



520-H SERIES MALE THREAD						
BRASS PART NO.	ALUMINIUM PART NO.	HOSE SIZE	THREAD TYPE			
H5212-A H5222-A H5232-A H5242L-A H5252L-A H5262L-A H5282L-A	- - - A5242L-A ¹ A5252L-A ¹ A5262L-A ¹	1" 1¼" 1½" 2" 2½" 3" 4"	NPT NPT NPT NPT NPT NPT NPT			

¹ requires a special thrust plate

2" **25000HTL24** 2½" **25000HTL25** 3" **25000HTL26**



	520-H SERIES FEMALE THREAD						
BRASS PART NO.	HOSE SIZE	THREAD TYPE					
H5211-A-BU H5221-A-BU H5231-A-BU H5241L-A-BU H5251L-A-BU H5261L-A-BU H5281L-A-BU	1" 11/4" 11/2" 2" 21/2" 3" 4"	NPSH NPSH NPSH NPSH NPSM NPSM NPSM					



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API 520-H Series Ferrules



API 520-H SERIES FERRULES								
BRASS PART NO.	HOSE ID	HOS FROM	E OD TO	304 STAINLESS STEEL PART NO.	ALUMINIUM PART NO.	HOSE ID	HOS FROM	E OD TO
R1AAAS-A	1"	34.93	35.72	R2ASS-A	R2AAL-A	2"	63.10	64.29
R1AAS-A	1"	36.12	36.91	R2BSS-A	R2BAL-A	2"	64.69	65.88
R1AS-A	1"	37.31	38.10	R2CSS-A	R2CAL-A	2"	66.28	67.47
R1BS-A	1"	38.50	39.29	R2DSS-A	R2DAL-A	2"	67.87	69.06
R1CS-A	1"	39.69	40.48	R2ESS-A	R2EAL-A	2"	69.45	70.64
R1DS-A	1"	40.88	41.67	R25ASS-A	R25AAL-A	21/2"	75.41	76.60
R1ES-A	1"	42.07	42.86	R25BSS-A	R25BAL-A	21/2"	76.99	78.58
R125AAS-A	1 ¹ /4"	40.88	42.07	R25CSS-A	R25CAL-A	21/2"	78.98	80.57
R125AS-A	1 ¹ /4"	42.47	43.66	R25DSS-A	R25DAL-A	21/2"	76.99	82.55
R125BS-A	1 ¹ /4"	44.05	45.24	R25ESS-A	R25EAL-A	21/2"	82.95	84.53
R125CS-A	1 ¹ /4"	45.64	46.83	R3AASS-A	R3AAAL-A	3"	90.09	91.68
R125DS-A	1 ¹ /4"	47.23	48.42	R3ASS-A	R3AAL-A	3"	92.08	94.06
R125ES-A	1 ¹ /4"	48.82	50.01	R3BSS-A	R3BAL-A	3"	94.46	96.04
R15AAAS-A	1 ¹ /2"	46.83	48.02	R3CSS-A	R3CAL-A	3"	96.44	97.63
R15AAS-A	1 ¹ /2"	48.42	50.01	R3DSS-A	R3DAL-A	3"	98.03	99.62
R15AS-A	1 ¹ /2"	50.40	51.59	R4ESS-A	-	4"	119.86	120.65
R15BS-A	1 ¹ /2"	51.99	53.18	R4FSS-A	-	4"	121.05	121.84
R15CS-A	1 ¹ /2"	53.58	55.17	R4GSS-A	-	4"	122.24	123.03
R15DS-A	1 ¹ /2"	55.56	56.36	R4HSS-A	-	4"	123.43	124.22
R15ES-A	1 ¹ /2"	56.75	58.34	R4KSS-A	-	4"	124.62	125.02
				R4LSS-A	-	4"	125.41	126.21
				R4MSS-A	-	4"	126.60	127.00

Replacement Washers



	REPLACEMENT WASHERS
PART NO.	SIZE
H5071-BU H5072-BU H5073-BU H5074-BU H5075-BU H5076-BU H5077-BU	3/4" 1" 11/4" 11/2" 2" 21/2" 3"
H5078-BU	4"

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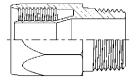


Permanent Couplings for Pump Hose

The most economical and trouble-free couplings for gas pump hose. Serrations on the stem become imbedded in the hose eliminating wicking and leakage. The shell extends beyond the stem to prevent cutting of interior walls. Tapered ends of stem and shell protect hose when flexed.

- Couplings provide tamper-proof static connection which cannot be broken without completely damaging coupling and hose
- internal expansion of stem to nominal ID of hose provides full flow
- Broad, firm grip of coupling extends hose life by making it possible for hose to withstand more flexings
- Hand and electrically operated installation equipment are available
- · Caution: Reattach static wire if required







PERMANENT COUPLINGS FOR PUMP HOSE - CHROME BRASS PLATED						
PART NO.	HOSE ID	MALE NPT	HOSE OD			
H5741 H5742 H5751 H5752 H5753 H5754 H5755 1 H5771 H5772 H5773	5/8" 5/8" 3/4" 3/4" 3/4" 3/4" 3/4" 1" 1" 1"	3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 1" 1" 1"	25.40 26.19 28.97 29.77 30.56 30.96 32.15 35.32 36.91 38.10 39.69			

1. thrust plate required 25000HTL15

HB Coupling Expander Machine



PART NO. 2500HB0000

- hand operated, pull-through type expander
- for use in a fixed location for small production runs or as a portable repair type expander
- attaches sizes ¾" through 2" of the 520-H Series couplings, and all sizes of 570-H and 580-H Series couplings
- expander tooling sold separately



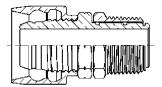
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Dubl-Grip® Re-attachable Couplings for Curb Pump Hose

Two-piece re-attachable coupling made of chrome-plated brass for pump hose. Streamlined design prevents damage to hose and fits smartly on new pump equipment. Wide, flat surfaces of body threads protect inside of hose from breaking. Tapered surfaces of sleeve and body cradle hose, prevent one-point strain from flexing. Hose is gripped on its full circumference in two places, insuring a rigid leakproof connection.

- · couplings have standard male NPT threads
- worn portion of hose can be removed and Dubl-Grip[®] can be reapplied
- Hose is held in position by sleeve as body is threaded home Only a wrench is required to assemble the Dubl-Grip®
- · Caution: Reattach static wire if required



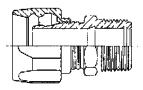




H-600 SERIES DUBL-GRIP [®] SWIVEL REATTACHABLES - CHROME PLATED BRASS					
PART NO.	HOSE ID	MALE NPT	HOSE OD		
H600 ¹ H601 ¹ H602 ¹ H603 H604 H605 H609 ² H610 ²	5/8" 5/8" 5/8" 3/4" 3/4" 3/4" 1" 1"	3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 1" 1"	26.99 25.40 26.19 28.58 30.56 31.75 34.93 36.51 38.10		

- 1. items will be discontinued when stock is depleted
- 2. octagonal shape







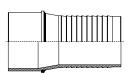
DUBL-GRIP® REATTACHABLES - CHROME PLATED BRASS					
PART NO.	HOSE ID	MALE NPT	HOSE OD		
850212	5/8"	3/4"	25.40		
850213	5/8"	3/4"	26.19		
850214	5/8"	3/4"	26.99		
850451	3/4"	3/4"	28.58		
850455	3/4"	3/4"	30.56		
850453	3/4"	3/4"	31.75		
850841 ¹	1"	1"	34.93		
850801 ¹	1"	1"	36.51		
850811 ¹	1"	1"	38.10		

1. octagonal shape

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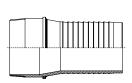


Holedall® ES External Swage Couplings



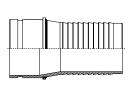
PLAIN END STEM FOR WELDING - NATURAL FINISH				
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	NOMINAL BORE*		
HA0074 HA0075 HA0076 HA0077 HA0078 HA0079 HA0100	HA1074 HA1075 HA1076 HA1077 HA1078 HA1079 HA1100	2" 21/2" 3" 4" 5" 6" 8"		

Plain End Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970: 1983 Grade 316 S11.



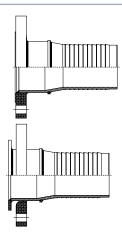
MALE THREAD STEM - YELLOW ZINC PLATED						
CARBON STEEL PART NO.S STAINLESS STEEL PART NO.S NOMINAL BSP BSPT API/NPT BORE*						
HA0084ZP HA0087ZP HA0090ZP HA0093ZP HA0096ZP	HA0081TZP HA0084TZP HA0087TZP HA0090TZP HA0093TZP HA0096TZP HA0146TZP	HA0082ZP HA0085ZP HA0088ZP HA0091ZP HA0094ZP HA0097ZP HA0147ZP	HA1081 HA1084 HA1087 HA1090 HA1093 HA1096	HA1081T HA1084T HA1087T HA1090T HA1093T HA1096T HA1146T	HA1082 HA1085 HA1088 HA1091 HA1094 HA1097	2" 2 ¹ /2" 3" 4" 5" 6" 8"

Threaded End Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970: 1983 Grade 316 S11.



GROOVED STEM - YELLOW ZINC PLATED					
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	NOMINAL BORE*			
HA0083ZP	HA1083	2"			
HA0086ZP	HA1086	2 ¹ /2"			
HA0089ZP	HA1089	3"			
HA0092ZP	HA1092	4"			
HA0095ZP	HA1095	5"			
HA0098ZP	HA1098	6"			
HA0149ZP	HA1149	8"			

Grooved Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970: 1983 Grade 316 S11.



FLANGED STEM - FIXED & SWIVEL - YELLOW ZINC PLATED							
CARBON STEE	L PART NO.S SWIVEL	STAINLESS S	STEEL PART NO.S SWIVEL	NOMINAL BORE*			
HA0173ZP H HA0174ZP H HA0175ZP H HA0176ZP H	HA0157ZP HA0158ZP HA0159ZP HA0160ZP HA0161ZP HA0162ZP HA0163ZP	HA1172 HA1173 HA1174 HA1175 HA1176 HA1177	HA1157 HA1158 HA1159 HA1160 HA1161 HA1162 HA1163	2" 2 ¹ /2" 3" 4" 5" 6"			

^{*} Couplings are also available for metric sized hose bores

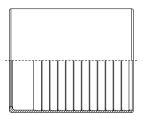


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Permanently Attached Couplings - Holedall[®] System

Ferrules - Yellow Zinc Plated. Ferrule Selection Chart (Standard 20 Bar Hose)

			RNAL SW							
PART NO. PREFIX WALL	HOSE BORE SIZE (STANDARD INCH SIZING)									
THK. (MM)	1IN	1.25IN	1.5IN	2IN	2.5IN	3IN	4IN	5IN	6IN	8IN
4.0										
4.5										
5.0										
5.5										
6.0	44.5-2.5	51-2.5	58-3	71-3	84-3	97-3				
6.5	45.5-2.5	52-2.5	59-3	72-3	85-3	98-3				
7.0	46.5-2.5	53-2.5	60-3	73-3	86-3	99-3	125-3	152-4		
7.5		54-2.5	61-3	74-3	87-3	100-3	126-3	153-4		
8.0		55-2.5	62-3	75-3	88-3	101-3	127-3	154-4		
8.5		56-2.5	63-3	76-3	89-3	102-3	128-3	155-4		
9.0		57-2.5	64-3	77-3	90-3	103-3	129-3	156-4	182-4.5	
9.5		58-2.5	65-3	78-3	91-3	104-3	130-3	157-4	183-4.5	
10.0		59-2.5	66-3	79-3	92-3	105-3	131-3	158-4	184-4.5	236
10.5				80-3	93-3	106-3	132-3	159-4	185-4.5	237
11.0				81-3	94-3	107-3	133-3	160-4	186-4.5	238
11.5				82-3	94-3	108-3	134-3	161-4	187-4.5	239
12.0				83-3	95-3	109-3	135-3	162-4	188-4.5	240
12.5				84-3	96-3	110-3	136-3	163-4	189-4.5	241
13.0							137-3	164-4	190-4.5	242
13.5							138-3	165-4	191-4.5	243
14.0							139-3	166-4	192-4.5	244
14.5							140-3	167-4	193-4.5	245
15.0							141-3	168-4	194-4.5	246
15.5								169-4	195-4.5	247
16.0								170-4	196-4.5	248
16.5								171-4	197-4.5	249
17.0									198-4.5	250
17.5										251
18.0										252
18.5										253
19.0										254
19.5										255
20.0										256



Carbon Steel Ferrules are supplied Yellow Zinc Plated and Passivated in accordance with BS1706:1990 or alternatively All Ferrule Part Numbers end in ZP Stainless Steel Ferrules are supplied in Grade 304/304L and are natural finish.

Ferrule Coding example:

4" Hose x 10mm wall thickness. The prefix is HA0071 from the CARBON STEEL' table. The Ferrule Coding for a 10mm wall thickness hose is 131-3 from the table above. The complete part number is HA0072-131-3ZP.

CARBON STEEL				
PART NO. PREFIX	SIZE			
HA0068	2.0in			
HA0069	2.5in			
HA0070	3.0in			
HA0071	4.0in			
HA0072	5.0in			
HA0073	6.0in			
HA0188	8.0in			

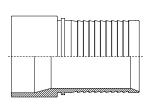
STAINLESS STEEL				
PART NO. PREFIX	SIZE			
HA1068	2.0in			
HA1069	2.5in			
HA1070	3.0in			
HA1071	4.0in			
HA1072	5.0in			
HA1073	6.0in			
HA1188	8.0in			



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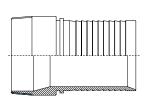


Holedall® EC External Crimp Couplings



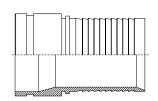
PLAIN END STEM FOR WELDING - NATURAL FINISH				
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	NOMINAL BORE*		
HA0101 HA0102 HA0103 HA0104 HA0105 HA0106 HA0107 HA0108	HA1101 HA1102 HA1103 HA1104 HA1105 HA1106 HA1107 HA1108	3/4" 1" 11/4" 11/2" 2" 21/2" 3" 4"		

Plain End Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970: 1983 Grade 316 S11.



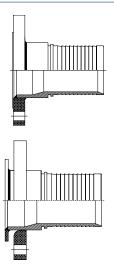
MALE THREAD STEM - YELLOW ZINC PLATED						
CARBON STEEL PART NO.S STAINLESS STEEL PART NO.S NOMINAL BSP BSPT API/NPT BORE*						
HA0109ZP HA0109TZP HA0117 HA0110ZP HA0110TZP HA0118 HA0111ZP HA0111TZP HA0119 HA0112ZP HA0112TZP HA0120 HA0113ZP HA0113TZP HA0121 HA0114ZP HA0114TZP HA0122 HA0116ZP HA0115TZP HA0123 HA0116ZP HA0116TZP HA0124	ZP HA1110 HA1110T ZP HA1111 HA1111T ZP HA1112 HA1112T ZP HA1113 HA1113T ZP HA1114 HA1114T ZP HA1115 HA1115T	HA1117 HA1118 HA1119 HA1120 HA1121 HA1122 HA1123 HA1124	3/4" 1" 11/4" 11/2" 2" 21/2" 3" 4"			

Threaded End Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970: 1983 Grade 316 S11.



GROOVED STEM - YELLOW ZINC PLATED				
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	NOMINAL BORE*		
HA0125ZP HA0126ZP	HA1125 HA1126	3/4" 1"		
HA0127ZP	HA1127	11/4"		
HA0128ZP HA0129ZP	HA1128 HA1129	1 ¹ /2" 2"		
HA0130ZP	HA1130	21/2"		
HA0131ZP HA0132ZP	HA1131 HA1132	3" 4"		

Grooved Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970: 1983 Grade 316 S11.



FLANGED STEM - FIXED & SWIVEL - YELLOW ZINC PLATED					
CARBON ST FIXED	EEL PART NO.S SWIVEL	STAINLESS FIXED	STEEL PART NO.S SWIVEL	NOMINAL BORE*	
HA0179ZP	HA0164ZP	HA1179	HA1164	3/4"	
HA0180ZP	HA0165ZP	HA1180	HA1165	1"	
HA0181ZP	HA0166ZP	HA1181	HA1166	1 ¹ /4"	
HA0182ZP	HA0167ZP	HA1182	HA1167	11/2"	
HA0183ZP	HA0168ZP	HA1183	HA1168	2"	
HA0184ZP	HA0169ZP	HA1184	HA1169	2 ¹ /2"	
HA0185ZP	HA0170ZP	HA1185	HA1170	3"	
HA0186ZP	HA0171ZP	HA1186	HA1171	4"	

Flanged Stems are usually manufactured in Carbon Steel: ASTM A106 Grade A/B or API 5L Grade A/B, and Stainless Steel: BS970:1983 Grade 316 S11. Flange materials:- Carbon Steel - ASTM A105N: Stainless Steel - ASTM A182 Grade 316L Both fixed (Slip-on-Weld) and Loose (Swivel) Flanged Stems are available with Flanges in accordance with ASME/ANSI B16.5 class 150/300 lb, BS4504 PN10/16, BS10 Tables D-H. Please specify Flange type and Flange Facing with Order. For information regarding Ferrules, please refer to page 258.

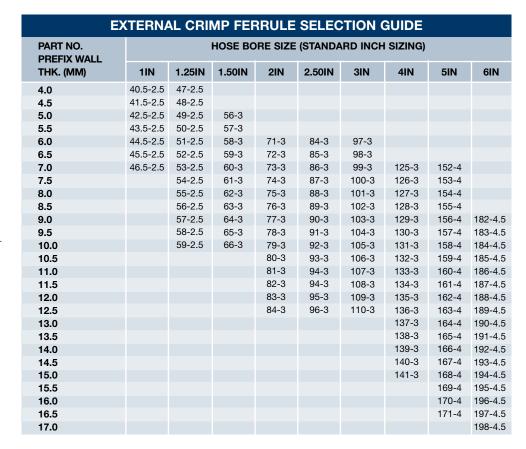
*Couplings are also available for metric sized hose bores



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Ferrules - Yellow Zinc Plated. Ferrule Selection Chart (Standard 20 Bar Hose)





Carbon Steel Ferrules are supplied Yellow Zinc Plated and Passivated in accordance with BS1706:1990 with the part number ending in ZP Stainless Steel Ferrules are supplied in Grade 304/304L and are natural finish.

Ferrule Coding example:

4" Hose x 10mm wall thickness. The prefix is HA0196 from 'CARBON STEEL' table. The Ferrule Coding for a 10mm wall thickness hose is 131-3 from the table above. The colour coding is from Oil & Gas UK Colour Coding Scheme which can be found on Page 259 of this catalogue = Red. The complete part number is HA0196-131-3ZP

CARBON STEEL			
PART NO. PREFIX	SIZE		
HA0190	1.0in		
HA0191	1.25in		
HA0192	1.5in		
HA0193	2.0in		
HA0194	2.5in		
HA0195	3.0in		
HA0196	4.0in		
HA0417	5.0in		
HA0418	6.0in		

STAINLESS STEEL		
PART NO. PREFIX SIZE		
HA1190	1.0in	
HA1191	1.25in	
HA1192	1.5in	
HA1193	2.0in	
HA1194	2.5in	
HA1195	3.0in	
HA1196	4.0in	
HA1417	5.0in	
HA1418	6.0in	

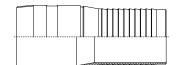
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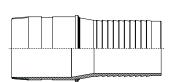


Holedall® Hookie – Hook Stem & Ferrules

Hookie - Hook Stems & Ferrules are predominantly used for Bulk Loading/Rig Supply Hose operations on Offshore applications.



Stems are supplied Yellow Zinc Plated in accordance with BS1706: 1990 as standard, with threads to API Standard 5B: 1988. (NPT)



	HOOKIE HOOK STEM	
INTERNAL EXPANSION STEM CARBON STEEL - PART NO.	EXTERNAL SWAGE STEM CARBON STEEL - PART NO.	NOMINAL BORE / DN
HA0141ZP HA0142ZP HA0143ZP	HA0197ZP HA0198ZP HA0199ZP	3" / 80 4" / 100 5" / 125

Internal Swage Ferrules can be supplied in either, natural, Yellow Zinc Plated or Powder Coat Painted finishes in accordance with Oil & Gas UK colour coding scheme or to suit specific requirements.

Ferrule Colour Coding

FERRULI	FERRULE COLOUR CODING		
FERRULE COLOUR CODE	HOSE APPLICATION		
Yellow Orange Blue Brown Red Green Black Purple Pink (Black/ Brown Strip)	Dry Cement Dry Baryte Potable Water Diesel Oil / Fuel Base Oil / Brine Drill Water Oil Based Mud Glycol Base Oil / Fuel Oil		
No Colour	Scale Inhibitor		



External Swage or Crimp Ferrules are usually supplied in Yellow Zinc Plated finish.

Hookie - Hook Hose Lifter



Dixon are able to supply hose lifters specifically designed for use with Bulk Loading Hose/ Hookie Hook Stems.

Manufactured in forged carbon steel. All Hoselifters are supplied with proof load test and material (3.1) certificates and are available in bore sizes 3", 4" and 5". Safe working load is 4 Tons, with a proof load test of 8 Tons. Hose Lifters are supplied complete with retaining clamp.

	HOOKIE - HOOK HOSE LIFTER			
PART NO.	SIZE			
HA0900-3 HA0900-4 HA0900-5	3" 4" 5"			



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Holedall® Swaging Machines

This latest range of Holedall Internal Expansion & External Swage Machines have been specifically designed and developed to provide a fast, effective, economic and safe method of attaching couplings to hose.

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Benefits of Internal Expansion:

- Easy safe & consistent assembly.
- Virtual full
- Full 360° un

			,					
- flow bore		• Reduc	• Reduced turbulence through the hose	through the l	Jose			
ninterrupted internal expansion.	pansion.	• Fully o	omplies with	BSEN 1765/E	• Fully complies with BSEN 1765/ BS:EN 1435/ EN: 14421	N: 14421		
ut performs clamps & bands.	ands.	• Reduc	ed risk of bac	teria traps in	• Reduced risk of bacteria traps in hygienic hose assemblies	assemblies		
SWAGING	HYDRAIIIIC	SWAGING HYDBAIII IC OII	ē	PRESSURE	PRESSURE ELECTRICAL OPERATION	OPFRATION	SIZE	

Excellent sealing & retention between coupling & hose

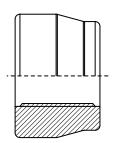
SAFETY FEATURES	CE Marked in accordance with European Legislation	CE Marked in accordance with European Legislation	CE Marked in accordance with European Legislation	CE Marked in accordance with European Legislation
SIZE	345 × 200 × 205	1000 × 550 × 785	1000 × 650 × 700	3600 × 2554 × 1016
OPERATION	Power Supply: 230 v, 1ph, 50Hz	Main Motor 3Kw, Power Supply: 380/415 v, 3ph, 50Hz	Main Motor 4Kw, Power Supply: 380/415 v, 3ph, 50Hz	Main Motor 11Kw, Power Supply: 380/415 v, 3ph, 50/60Hz
ELECTRICAL POWER	100mm diameter guage 0-700 bar	100mm diameter guage 0-350 bar	100mm diameter guage 0-700 bar	100mm diameter guage 0-1000 bar Digital Chart Recorder Available
PRESSURE	100mm diameter guage 0-700 bar	100mm diameter guage 0-350 bar	100mm diameter guage 0-700 bar	100mm diameter guage 0-1000 bar Digital Chart Recorder Available
OIL RESERVOIR	4.5 litre capacity with sight glass	70 litre capacity with sight glass	70 litre capacity with sight glass	100 litre capacity with sight glass
HYDRAULIC	Power Team 2 Stage 300cu.ir/min	Submerged 3/16L/min Gear/Piston Pump Assembly	Submerged 18L/min Gear/Piston Pump Assembly	4 Galls/min @3,500 psi sight glass @10,000 psi
HYDRAULIC RAM	160mm Stroke x20 ton pull @10,000 psi (700bar)	400mm Stroke x52 ton pull @5,000 (350bar)	550mm Stroke x75 ton pull, @10,000psi (700bar)	915mm Strokex188 ton pull and 2 Galls/min 354 ton push
SWAGING	1"-3" Nominal Bore, Threaded, Grooved End Fittings, Flanged, Hygienic Couplings etc Internal Swage	1"-6" Nominal Bore, Threaded, Grooved End Fittings, Flanged, Hygienic Couplings etc Internal Swage	1"- 12" Nominal Bore, Threaded, Grooved End Fittings, Flanged, Hygienic Couplings etc Internal Swage	2"- 14" Nominal Bore, Specially, developed for, Swaging Rotary Drilling Hose Dual Swage
MACHINE RANGES				T-350

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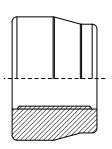


Holedall® Internal Expansion Machine Tooling

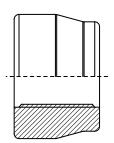


MODEL T-20 OPTIONAL TOOLING LIST			
PART NO. DESCRIPTION			
HA0812	Master Adapter Swaging Plate		
HA0844	Draw-Bar for 2", 2.5", 3" IX Dolly		
HA0829	Draw-Bar for 1", 1.25", 1.5" IX Dolly		
HA0307	1" Internal Expansion Dolly		
HA0308	1.5" Internal Expansion Dolly		
HA0012	2" Internal Expansion Dolly		
HA0013	2.5" Internal Expansion Dolly		
HA0014	3" Internal Expansion Dolly		

Swaging Plates are available to suit various end terminations.



MODEL T - 50 OPTIONAL TOOLING LIST		
PART NO.	DESCRIPTION	
HA0019	Adapter Kit for 2", 21/2", 3" Unflanged Couplings Consisting of: Spool Piece (HA0019A): 2", 21/2", 3" Swaging Plates (HA0019B/C/D): Adapter for 2", 21/2", 3" Dolly's (HA0019E)	
HA0012 HA0013 HA0014 HA0020	2" Internal Expansion Dolly 21/2" Internal Expansion Dolly 3" Internal Expansion Dolly 4" Internal Expansion Dolly	



MODEL T - 100 OPTIONAL TOOLING LIST		
PART NO.	DESCRIPTION	
HA0011	Adapter Kit for 2", 21/2", 3" Unflanged Couplings Consisting of: Spool Piece (HA0011A): 2", 21/2", 3" Swaging Plates (HA0011B/C/D): Adapter for 2", 21/2", 3" Dolly's (HA0011E): Ram Sleeve and Extension (HA0011F).	
HA0012 HA0013 HA0014 HA0015 HA0016 HA0017 HA0018 HA0005 HA0365	2" Internal Expansion Dolly 21/2" Internal Expansion Dolly 3" Internal Expansion Dolly 4" Internal Expansion Dolly 5" Internal Expansion Dolly 6" Internal Expansion Dolly 8" Internal Expansion Dolly 10" Internal Expansion Dolly 10" Internal Expansion Dolly	

Additional Adapter Kits and Dolly's are available for all machines to internally Expand couplings below 2" nominal bore.

Dixon Group Europe Ltd are able to supply external swaging dies, Internal Expansion Dolly's and tooling to suit Mulcorams, Shand UK and other manufacturers Swaging machines. Contact Dixon for details.

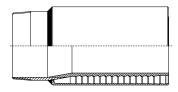
NOTE: Internal Expansion Dollys are also available for metric bore hose



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Holedall[®] High Pressure & Custom Made Couplings

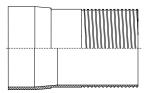
Dixon Group Europe Ltd, whilst being the manufacturer and distributor of the standard range of HOLEDALL High Performance Hose Couplings are also able to supply a variety of custom designed couplings with a wide range of end configurations and service applications. Design variables of coupling length, materials, wall thickness and serration detail provide for installations ranging from lightweight industrial hose to high pressure hoses used in hazardous environments offshore.



Holedall® High Pressure Coupling Assembly

The Holedall High Pressure Coupling Assembly can be supplied for either Internal Expansion or External Swage for working pressures of up to 2,500 psi (170 bar) in size 2" through 10". The assembly is supplied as a one-piece unit with the ferrule being welded to the stem. The assembly can be supplied in various materials including: Stainless Steel and Carbon Steels with Charpy Impact Testing conforming to NACE STD MR-01-75 for both Sour and Non-Sour services.

End terminations include: Welding Neck Flange, API/NPT Thread and Hammer Lug Union.



Holedall® Composite Hose Scroll Tails

Composite Hose Tails are produced for leading Composite Hose Manufacturers in both Carbon and Stainless Steels with fixed and swivel flanged, grooved and threaded end terminations for External Crimping and Swaging in nominal bore sizes up to 10".



Holedall® Hammer Lug Union End Termination

Holedall IX stem with integral 4" fig 206 hammer lug union end termination. Holedall EC stem with integral 4" fig 206 hammer lug union end termination for UHMWPE, XLPE and chemical hose.

- · Male sub and Dixon branded nut
- Female sub



Whatever your application, the Holedall brand of high integrity hose couplings are engineered for the exacting service that is demanded by industry today.

Leak-free sealing, coupling retention and maximum end-load capability is achieved with this permanently attached interlocking coupling system.

The Holedall design is simple...the performance impressive.

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Holedall[®] Swaged Rotary Drilling Hose Coupling System

In conjunction with the World's leading Rotary/Vibrator Drilling Hose manufacturers, Dixon have developed the Holedall Swaged Rotary Hose Coupling Assembly System. This technology enables both Hose manufacturers and distributors alike to produce safe and secure High Pressure Mud/Rotary Hose Assemblies, in a fraction of the time it traditionally takes using built-in couplings.

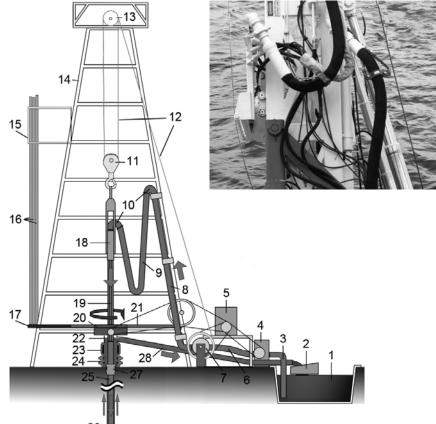
These couplings are used for both land-based and offshore drilling operations involving down linking, directional drilling, negative pressure pulses etc. which occur in today's advanced drilling technologies

Typical Drilling Rig Components.

- 1 Mud tank
- 2 Shale shakers
- 3 Suction line (mud pump)
- 4 Mud pump
- 5 Motor or power source
- Vibrating hose
- 7 Draw-works (winch)
- Standpipe
- Rotary/Kelly hose
- 10 Goose-neck

- 11 Traveling block
- 12 Drill line
- 13 Crown block
- 14 Derrick
- 15 Monkey board
- 16 Stand (of drill pipe)
- 17 Pipe rack (floor)
- 18 Swivel (On modern rigs this may be replaced by a top drive)
- 19 Kelly drive
- 20 Rotary table

- 21 Drill floor
- 22 Bell nipple
- 23 Blowout preventer (BOP) Annular
- 24 Blowout preventers (BOPs) pipe ram & shear ram
- 25 Drill string
- 26 Drill bit
- 27 Casing head
- 28 Flow lin







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Testing

Dixon Holedall Rotary Couplings have been fully tested and certified by DNV in Hose Assemblies which comply with API 7K fifth edition (June 2010). Couplings are suitable for FSL1 and FSL2 service. Qualification testing and additional testing includes:

- Deformation Test under Pressure
- Ambient Temperature Bending Test
- Low Temperature Bending Test
- · Low frequency pulsation test
- Hydrostatic Test
- Burst test





Rotary Couplings

Dixon Holedall Rotary Hose Couplings are available in API Line Pipe Thread and Butt Weld end terminations in nominal bore sizes 2½", 3", 3½" & 4" grades C, D & E, and are available to suit most Rotary Hose manufacture's hose.

Other end terminations are available; e.g. Hammer Lug Unions, Flanges, Hubs etc. A selection Two different classes of coupling are available: 'API 7K' and 'Standard' All 'API 7K' couplings, have a identified by a unique serial number, low stress stamped on the coupling and are supplied with a full certification dossier which includes Material, NDE and Welding Certification in accordance with ASME IX. 'Standard' Couplings are supplied with material certification only. Couplings are also available to suit Russian Gost 25676 Standard.

Dixon-Holedall T-350 Swaging Machine

To complement the Dixon-Holedall Rotary Coupling we have designed and developed a Swaging machine specifically for assembling Rotary Hose. 350 tons of swaging force and 190 tons of pulling force permit swaging in one pass, eliminating the need to use multiple dies. The machines are available with a number of options, Digital Chart Recorder, Overhead Gantry, Electric Hoists etc.

The machine is also suitable for both External and Internal Swaging of general industrial hose up to 14" nominal bore with a ASA 150lb Flange, and is available to suit all International electrical power requirements. Machines supplied into the EC carry the CE Mark.







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Dixon Hammer Unions - Standard Service



Note: Buttweld and socket weld configurations and other materials

• Used on low pressure manifolds and lines and in applications running air, water, oil or gas up to 1,000 psi NSCWP (non-shock cold working pressure)

100 SERIES			
PART NO.	SIZE	DESCRIPTION	NSCWP
HU100200 HU100250 HU100300 HU100400 HU100600 HU100800	2" 21/2" 3" 4" 6" 8"	2" Hammer Union - 100 series, yellow, black nut 21/2" Hammer Union - 100 series, yellow, black nut 3" Hammer Union - 100 series, yellow, black nut 4" Hammer Union - 100 series, yellow, black nut 6" Hammer Union - 100 series, yellow, black nut 6" Hammer Union - 100 series, yellow, black nut	1000 1000 1000 1000 1000 1000



 Used in general service applications running air, water, oil or gas up to 2,000 psi NSCWP (non-shock cold working pressure)



200 SERIES			
PART NO.	SIZE	DESCRIPTION	NSCWP
HU200100 HU200150 HU200200 HU200250 HU200300 HU200400 HU200600	1" 11/2" 2" 21/2" 3" 4"	1" Hammer Union - 200 series, grey sub, blue nut 11/2" Hammer Union - 200 series, grey sub, blue nut 2" Hammer Union - 200 series, grey sub, blue nut 21/2" Hammer Union - 200 series, grey sub, blue nut 3" Hammer Union - 200 series, grey sub, blue nut 4" Hammer Union - 200 series, grey sub, blue nut 6" Hammer Union - 200 series, grey sub, blue nut	2000 2000 2000 2000 2000 2000 2000

- O-ring mounted sub provides excellent sealing properties
- Runs air, water, oil or gas up to 2,000 psi NSCWP (non-shock cold working pressure)



206 SERIES			
PART NO.	SIZE	DESCRIPTION	NSCWP
HU206100 HU206150 HU206200 HU206250 HU206300 HU206400 HU206600	1" 11/2" 2" 21/2" 3" 4" 6"	1" Hammer Union - 206 series, grey sub, blue nut 11/2" Hammer Union - 206 series, grey sub, blue nut 2" Hammer Union - 206 series, grey sub, blue nut 21/2" Hammer Union - 206 series, grey sub, blue nut 3" Hammer Union - 206 series, grey sub, blue nut 4" Hammer Union - 206 series, grey sub, blue nut 6" Hammer Union - 206 series, grey sub, blue nut	2000 2000 2000 2000 2000 2000 2000



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- Lip type seal ring minimises fluid flow turbulence while creating a pressure seal
- For use in mud, manifold service and truck mounting applications running air, water, oil, gas or mud up to 6,000 psi NSCWP (non-shock cold working pressure)

602 SERIES			
PART NO.	SIZE	DESCRIPTION	NSCWP
HU602100	1"	1" Hammer Union - 602 series, orange sub, black nut	6000
HU602200	2"	2" Hammer Union - 602 series, orange sub, black nut	6000



- Lip type seal ring minimises fluid flow turbulence while creating a pressure seal
- For use in high pressure systems and truck mounting applications running air, water, oil, gas or mud up to 10,000 psi NSCWP (non-shock cold working pressure)

1002 SERIES			
PART NO.	SIZE	DESCRIPTION	NSCWP
HU1002100 HU1002200 HU1002400	1" 2" 4"	1" Hammer Union - 1002 series, blue sub, red nut 2" Hammer Union - 1002 series, blue sub, red nut 4" Hammer Union - 1002 series, blue sub, red nut	1000 1000 1000



- Lip type seal ring minimises fluid flow turbulence while creating a pressure seal
- For use in extreme high pressure applications running air, water, oil, gas or mud up to 15,000 psi NSCWP (non-shock cold working pressure)

1502 SERIES			
PART NO.	SIZE	DESCRIPTION	NSCWP
HU1502200	2"	2" hammer union - 1502 series, red sub, blue nut	15000

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