



Holedall™ Swage Coupling System Catalogue

Uncommon Excellence

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Holedall™ Swage Coupling System

Holedall™ Internal Expansion Couplings

Application

Recommended for concrete placement, plaster and grout, food, air, pharmaceutical and well as other applications where increased flow capacity is important.

Features

- Maximum flow of media being used
- Reduces turbulence through hoses
- Excellent sealing and retention characteristics
- Outperforms band clamps
- Easy and consistent installation
- Only one expansion tool is needed for each hose ID
- Available end configurations: male NPT & BSP, grooved & shouldered, other end configurations contact Dixon™

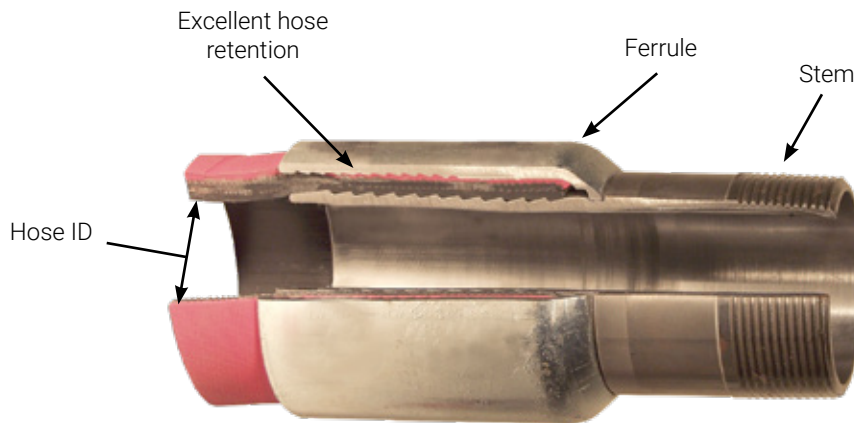
Material

- Carbon steel



Dixon recommends using a diameter tape to measure hose OD to determine the correct ferrule size refer to page 652

Cross-section of Holedall™ internally expanded assembly



- Holedall™ stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Holedall™ products

Holedall™ Internal Expansion Stems



Hose ID		Part Numbers				
mm	inch	BSP Male	NPT Male	Bevelled Weld End	Grooved End	Shouldered End
25	1	IXM16A	IXM16	-	-	-
32	1¼	IXM20A	IXM20	-	IXV20	-
40	1½	IXM24A	IXM24	IXP24-1	IXV24	-
50	2	IXM32A	IXM32	IXP32-1	IXV32	-
65	2½	IXM40A	IXM40	IXP40-1 ¹	IXV40	-
65	2½	-	-	IXP40-2 ²	-	-
75	3	IXM48A	IXM48	IXP48-1	IXV48	IXS48
100	4	IXM64A	IXM64	-	IXV64	IXS64

¹Pipe OD - 73mm
²Pipe OD - 76mm

Product Group: AU04

Holedall™ Internal Expansion Ferrules

Features

- For use with Holedall™ internal expansion stems - IXM, IXH, IXV and IXP styles



Hose ID	Hose OD (mm)		Ferrule ID	Part Numbers
	from	to		
25mm (1")	34.9	36.5	36.5	IXF16-1
	36.5	38.1	38.1	IXF16-2
	38.1	39.7	39.7	IXF16-3
32mm (1-1/4")	41.3	42.9	42.9	IXF20-Z
	42.9	44.5	44.5	IXF20-1
	44.5	46.0	46.0	IXF20-2
	46.0	47.6	47.6	IXF20-3
	47.6	49.2	49.2	IXF20-4
	49.2	50.8	50.8	IXF20-5
	50.8	52.4	52.4	IXF20-6
40mm (1-1/2")	47.6	49.2	49.2	IXF24-Z
	49.2	50.8	50.8	IXF24-1
	50.8	52.4	52.4	IXF24-2
	52.4	54.0	54.0	IXF24-3
	54.0	55.6	55.6	IXF24-4
	55.6	57.2	57.2	IXF24-5
	57.2	58.7	58.7	IXF24-6
50mm (2")	58.7	60.3	60.3	IXF24-7
	63.5	65.1	65.1	IXF32-Y
	65.1	66.7	66.7	IXF32-Z
	66.7	68.3	68.3	IXF32-1
	68.3	69.9	69.9	IXF32-2
	69.9	71.4	71.4	IXF32-3
	71.4	73.0	73.0	IXF32-4
	73.0	74.6	74.6	IXF32-5
	74.8	76.2	76.2	IXF32-6
	76.2	77.8	77.8	IXF32-7

Hose ID	Hose OD (mm)		Ferrule ID	Part Numbers
	from	to		
65mm (2-1/2")	76.2	77.8	77.8	IXF40-1
	77.8	79.4	79.4	IXF40-2
	79.4	81.0	81.0	IXF40-3
	82.6	84.1	84.1	IXF40-5
	84.1	85.7	85.7	IXF40-6
	85.7	87.3	87.3	IXF40-7
	87.3	88.9	88.9	IXF40-8
	88.9	90.5	90.5	IXF48-T
75mm (3")	90.5	92.1	92.1	IXF48-U
	92.1	93.7	93.7	IXF48-V
	93.7	95.3	95.3	IXF48-W
	95.3	96.8	96.8	IXF48-X
	96.8	98.4	98.4	IXF48-Y
	98.4	100.0	100.0	IXF48-Z
	100.0	101.6	101.6	IXF48-1
	101.6	103.2	103.2	IXF48-2
	103.2	104.8	104.8	IXF48-3
	104.8	106.4	106.4	IXF48-4
100mm (4")	106.4	108.0	108.0	IXF48-5
	115.9	117.5	117.5	IXF64-T
	117.5	119.1	119.1	IXF64-U
	119.1	120.7	120.7	IXF64-V
	120.7	122.2	122.2	IXF64-W
	122.2	123.8	123.8	IXF64-X
	123.8	125.4	125.4	IXF64-Y
	125.4	127.0	127.0	IXF64-Z
	127.0	128.6	128.6	IXF64-1
	128.6	130.2	130.2	IXF64-2
	130.2	131.8	131.8	IXF64-3
	131.8	133.4	133.4	IXF64-4
133.4	134.9	134.9	IXF64-5	



- Contact Dixon™ for working pressures if the hose you are using suits the following ferrules;
- IXF48-3 to IXF48-5
- IXF64-2 to IXF64-5

Product Group: AU04

Holedall™ Swage Coupling System

Holedall™ External Swage Couplings

External swage is a method of attaching couplings to a hose utilising a progressive swage. The patented Holedall™ couplings include a Holedall™ stem and a specially engineered ferrule. The hydraulic swaging of the coupling to the hose is accomplished by pushing the ferrule through a die which reduces the ferrule OD thus providing a 360° uninterrupted compression band around the hose. This multi-purpose, high-pressure coupling system requires no bolts and results in a clean coupling with no protrusions.

Applications

Recommended for use on most one and two-wire braid reinforced hoses, fibre reinforced (braided or spiralled) with or without helical wire such as oil & suction discharge hose, barge, and dock loading and unloading hose as well as LP gas hose, anhydrous ammonia hose, acid chemical hose, and, high-pressure air & water hose.

Features

- Provides long-lasting efficiency and safety
- Lightweight coupling consisting of ferrule and stem
- Streamlined, no protrusions to snag on equipment
- Available in stainless steel and carbon steel
- Available in multiple configurations: pipe thread, plain end, grooved or flanged ends
- Do not use wrench or vice on ferrule

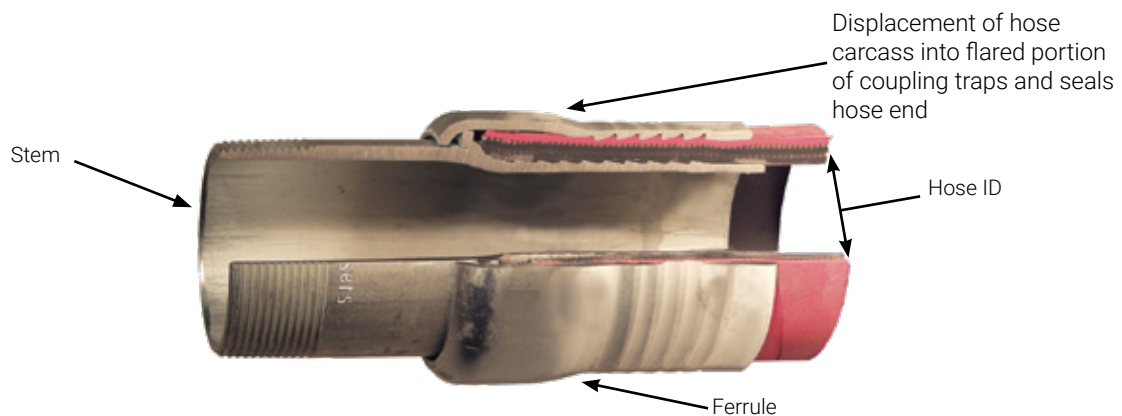
Material

- Carbon steel



Dixon recommends using a diameter tape to measure hose OD to determine the correct ferrule size refer to page 652

Cross-section of Holedall™ externally swaged assembly



- Holedall™ stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Holedall™ products

Holedall™ External Swage Stems



Style TM & TML
NPT & BSP end



Style TP & TPL
plain end, unplated

Hose ID		Part Numbers		
mm	inch	BSP Male	NPT Male	Bevelled End
32	1¼	TM20A	TM20	TP20
40	1½	TM24A	TM24	TP24
50	2	TM32A	TM32	TP32
65	2½	-	TM40	TP40
75	3	TM48A	TM48	TP48
100	4	TM64A	TM64	TP64
125	5	TM80A	TM80	TP80
150	6	TM96A	TM96	TP96
200	8	TM128A	TM128	TP128

Product Group: AU03

Holedall™ External Swage Ferrules

Features

- The style F ferrules are used with all standard-length external swage stems - TM, TMR, TP, TPR, TG, and TGR styles
- The selection of ferrules is very important to achieve proper coupling-to-hose assembly

Hose ID mm	Hose OD (mm)		Part Numbers
	from	to	
32	42.9	44.5	F20-1
32	44.8	57.6	F20-2
32	48.0	50.8	F20-3
32	51.2	54.0	F20-4
40	48.4	50.8	F24-1
40	51.2	54.0	F24-2
40	54.4	57.2	F24-3
40	57.5	60.3	F24-4
50	61.9	66.7	F32-1
50	67.1	69.9	F32-2
50	70.2	73.0	F32-3
50	73.4	77.0	F32-4
65	77.4	79.4	F40-1
65	79.8	82.6	F40-2
65	82.9	85.7	F40-3
65	86.1	88.9	F40-4
65	89.3	92.1	F40-5
75	88.1	92.1	F48-1
75	92.5	95.3	F48-2
75	95.6	98.4	F48-3
75	98.8	101.6	F48-4
75	102.0	104.8	F48-5
100	117.5	119.1	F64-1
100	119.5	122.2	F64-2
100	122.8	125.4	F64-3
100	125.8	128.6	F64-4
100	129.0	131.8	F64-5
100	132.2	134.9	F64-6
100	135.3	138.1	F64-7
100	138.5	141.3	F64-8
125	149.2	150.8	F80-1
125	151.2	154.0	F80-2
125	154.4	157.2	F80-3
125	157.6	160.3	F80-4
125	160.7	163.5	F80-5
125	163.9	166.7	F80-6
125	167.1	169.9	F80-7



Dixon recommends using a diameter tape for determining the correct ferrule size refer to page 652

Product Group: AU03

Holedall™ Swage Coupling System

Holedall™ External Swage Ferrules



Hose ID	Hose OD (mm)		Part Numbers
	mm	from to	
150	169.9	177.4	F96-Z
150	177.8	179.4	F96-1
150	179.8	182.6	F96-2
150	183.0	185.7	F96-3
150	186.1	188.9	F96-4
150	189.3	192.1	F96-5
150	192.5	195.3	F96-6
150	195.7	198.4	F96-7
150	198.8	201.6	F96-8
150	202.0	203.2	F96-9
200	236.5	238.1	F128-1
200	238.5	241.3	F128-2
200	241.7	244.5	F128-3
200	244.9	247.7	F128-4
200	248.0	250.8	F128-5
200	251.2	254.0	F128-6
200	254.4	255.6	F128-7

Product Group: AU03

Holedall™ Uni-Range External Swage Couplings

Applications

- Designed for smaller hose systems, these couplings may be used for hose ID's from 6mm - 25mm and come complete with a factory assembled stem and ferrule combination. Can be used with swage or crimp equipment.



Hose ID	Hose OD (mm)		Part Numbers
	mm	from to	
6	13	15	4P1
6	15	17	4P2
6	17	18	4P3
10	18	20	6P1
10	20	21	6P2
10	21	23	6P3
15	21	23	8P1
15	23	25	8P2
15	25	30	8P3
20	29	31	12P1
20	31	32	12P2
20	32	37	12P3
25	37	39	16P1
25	39	40	16P2
25	40	42	16P3
25	42	44	16P4

Product Group: AU03

Holedall™ High-Pressure Couplings

Applications

- Intended for services requiring a fitting to withstand extremely high pressures up to 3,000 PSI at 21°C (70°F) and severe operating conditions including, small and medium size drilling rigs, slim hole applications and core drill, workover, seismographs, water well, blast, or shot holes.

Features

- Sold as a complete coupling, including stem and ferrule
- Stems are machined from seamless pipe and tubing with specially designed serrations
- Ferrules are machined from a heavy wall material incorporating matching serrations
- API and NPT are interchangeable
- Must be swaged with 50 or 100 Ton Ram
- An accurate hose outside diameter (OD) must be provided to complete the part number and to ensure proper retention

Working Pressure

- Maximum working pressure 3,000 PSI

Materials

- Zinc-plated steel

Hose ID		Thread Size (inch)	Part Numbers	
mm	inch		Male NPT	Male API
50	2	2	LM32*	LM3240*
65	2½	2½	LM40*	LM4048*
75	3	3	LM48*	LM4864*



* The LM fitting is sold as a complete coupling including stem and ferrule. Accurate hose OD must be provided to complete the part number and to insure proper retention.

Product Group: AU03

External Notched Stem & Ferrule

Applications

- This stem can be removed from a damaged hose by cutting away the ferrule, without necessarily damaging the fitting. After inspection to determine its suitability for reuse, it can be reinstalled into another hose by using a new ferrule. You can now stock one nipple and two ferrules, and thereby cover the same hose range with less inventory. 316 stainless steel stem with wrench flat, 304 stainless steel ferrule. You must purchase a fitting and the matching ferrule to create an assembly. Can be swaged on or crimped on.

Size (mm)	Hose OD (mm)		Part Numbers		
	from	to	Male BSP	Male NPT	Notched Ferrule
40	48.8	54.8	RST150NOSA	RST150NOS	GAS2334NOS
40	51.6	58.7	RST150NOSA	RST150NOS	GAS2370NOS
50	61.9	67.5	RST200NOSA	RST200NOS	GAS2709NOS
50	66.7	71.4	RST200NOSA	RST200NOS	GAS2885NOS
75	86.9	93.3	RST300NOSA	RST300NOS	GAS3760NOS
75	93.7	96.4	RST300NOSA	RST300NOS	GAS3885NOS



Only use NOS hose tails with NOS ferrules

For hose OD of 52.4 and below, these couplings are crimp only

For hose OD of 52.8 and above, these couplings can be crimped or swaged

Product Group: AU03

Holedall™ Swage Coupling System

Maximum Recommended Working Pressures PSI at 21°C Ambient Temperature

Holedall™ couplings are never to be used for steam service at any pressure regardless of coupling style.

Holedall™ fittings listed below are not to be used with cable-reinforced high-pressure hose, 4 or 6-braid wire hydraulic hose, or any other service not listed in recommendations. Contact Dixon™ for recommendations on usage.

For satisfactory performance, Holedall™ (external crimp) ferrules must be crimped to a specific diameter relating to the hose outside diameter (OD), please contact Dixon™ for the final crimp dimension. Holedall™ (internally expanded) couplings require strict adherence to the ferrule OD range for each assembled hose end.

Size NB		Externally Swaged Couplings					Internally Expanded Couplings	
		Standard Fittings	Long Style Fittings	Light Duty Fittings		Cam & Groove	Internally Expanded	Flow Chief Fittings
				ferrules, notched fittings	notched short fittings			
mm	inch	TM, TP, TG	TML, TPL, TGL	TM, TP, TG, RN-NO	RST***NOS GAS****NOS	GAS****NOS	IXM, IXV, IXH	IXSE, IXFS, IXMS
25	1	-	-	-	-	250	600	-
32	1¼	600	1000	350	-	250	600	-
40	1½	600	1000	350	250	250	600	250
50	2	600	1000	350	250	250	600	250
65	2½	600	1000	250	-	150	600	250
75	3	600	1000	250	***	125	600 **	250
100	4	500	850	250	-	100	500 **	250
125	5	450	750	-	-	-	-	-
150	6	400	700	-	-	-	500	-
200	8	350	600	-	-	-	-	-
250	10	300	550	-	-	-	-	-

** For hoses which use IXF48-3 to IXF48-5 contact Dixon™ for working pressures

*** Contact Dixon™ for pressure recommendations

Holedall™ Swage Coupling System

Standard Fittings	Long Style Fittings	Holedall™ Fittings	Internally Expanded Couplings	Light Duty Fittings
<p>Recommended for use on most one and two-wire braid reinforced hoses, fibre braided and helical wire reinforced hose, such as oil suction and discharge hose, barge and dock loading hose LP gas hose, anhydrous ammonia hose, aircraft refuelling hose, and acid chemical hose</p>	<p>Recommended for use on hose as listed under standard fittings where additional retention is required due to higher working pressures or end pull. Consult maximum working pressure chart.</p>	<p>Recommended for Royalflex 1193 and 1196 hose or hoses with similar construction, having helical wire for a given OD range.</p>	<p>Recommended for use in the same applications as standard fittings, except helical wire reinforced hose such as A210 water suction and discharge. A430 petrol/oil suction and discharge hose.</p>	<p>Recommended for use in the same applications as standard fittings, except that the hose rated working pressure is never to exceed the maximum recommended working pressure listed in the chart above.</p>



- Hose service working pressure (including surges and spikes) is never to exceed the maximum recommended working pressure for the fitting (reference chart above)
- Whipcheck safety cables are recommended for use whenever possible.
- Media being transported through the hose should be compatible with the stem and ferrule material whenever possible.
- Refer to Dixon's™ compatibility chart for material compatibility - refer to page 668

