


CHAPTER	FITTING	FITTING	WP	RECOMENDED FERRULE/CLAMPS (see Table A-B-C)
COMPRESSED AIR	EXPRESS NF E 29.573		WP = 10 bar	EXPRESS CLAMPS - 2 GRIPPING FINGER TYPE WORM GEAR CLAMP CRIMPING RING
COMPRESSED AIR	TYPE A CLAW COUPLING (EUROPEAN TYPE)		WP = 10 bar	CLAW CLAMPS TYPE A - DIN20039B WORM GEAR CLAMP TWO BOLT SADDLE CLAMP CRIMPING RING
COMPRESSED AIR	TYPE A CLAW COUPLING (EUROPEAN TYPE) WITH SAFETY PIN HOLES		WP = 10 bar Australian version: WP = 17,5 bar as per AS 2660/A requirements for air and water	CLAW CLAMPS TYPE A - DIN20039B WORM GEAR CLAMP TWO BOLT SADDLE CLAMP CRIMPING RING AUSTRALIAN VERSION: SERRATED FERRULE FOR COMPR. AIR TYPE S
COMPRESSED AIR	TYPE B CLAW COUPLING (U.S. TYPE)		WP = 10 bar	CLAW CLAMPS TYPE B CRIMPING RING
COMPRESSED AIR	SAFETY LOCK CLAW COUPLING (AUSTRALIAN TYPE)		WP = 17.5 bar as per AS 2660/A requirements for air and water	CLAW CLAMPS TYPE S - AUSTRALIAN TYPE CLAW CLAMPS TYPE S - AUSTRALIAN TYPE - WITH SAFETY CHAIN SERRATED FERRULE FOR COMPR. AIR TYPE S

INSERT TYPE	CONNECTION TYPE	APPLICATION	WARNING & NOTE
serrated insert without locking collar	symmetric coupling system. The two symmetrical half-couplings have two claws each, which are connected by pushing them together and rotating the two claws to be 45° apart to form a seal.	For air compressed and water applications	Internal claw distance = 41 mm Not interchangeable with Geka couplings and with other compressed air claw couplings (type A, type B, type S) Not to be used for steam application As the connecting heads are the same on all parts, hose and threads of all dimensions can be connected together with no adaptors being required.
serrated insert with safety collar	symmetric coupling system. The two symmetrical half-couplings have two claws each, which are connected by pushing them together and rotating the two claws to form a seal.	For air compressed and water applications	Internal claw distance = 42 mm Not interchangeable with Express, Geka couplings and with other compressed air claw couplings (type B, type S) Not to be used for steam application As the connecting heads are the same on all parts, hose and threads of all dimensions can be connected together with no adaptors being required.
serrated insert with safety collar	symmetric coupling system. The two symmetrical half-couplings have two claws each, which are connected by pushing them together and rotating the two claws to form a seal.	For air compressed and water applications	Internal claw distance = 42 mm Not interchangeable with Express, Geka couplings and with other compressed air claw couplings (type B, type S) Not to be used for steam application As the connecting heads are the same on all parts, hose and threads of all dimensions can be connected together with no adaptors being required.
serrated insert with safety collar	symmetric coupling system. The two symmetrical half-couplings have two claws each, which are connected by pushing them together and rotating the two claws to form a seal.	For air compressed and water applications	Internal claw distance = 41 mm Not interchangeable with Express, Geka couplings and with other compressed air claw couplings (type A, type S) Not to be used for steam application As the connecting heads are the same on all parts, hose and threads of all dimensions can be connected together with no adaptors being required.
serrated insert with safety collar	symmetric coupling system. The two symmetrical half-couplings have two claws each, which are connected by pushing them together and rotating the two claws to form a seal.	For air compressed and water applications	Internal claw distance = 45-74-117 mm (different for each DN) Not interchangeable with Express, Geka couplings and with other compressed air claw couplings (type A, type B)

CHAPTER	FITTING	FITTING	WP	RECOMENDED FERRULE/CLAMPS (see Table A-B-C)
WATER	GEKA		WP = 10 bar	BAND-IT SYSTEM CLAMPS WORM GEAR CLAMP CRIMPING RING SMOOTH FERRULE
WATER	TYPE B - BAUER COMPATIBLE		WP = 20 bar (DN 50mm --> 89mm) WP = 12 bar (DN 108mm --> 300mm)	BAND-IT SYSTEM CLAMPS PW-CLAMP
WATER	TYPE C - CARDAN / PERROT COMPATIBLE		WP = 12 bar	BAND-IT SYSTEM CLAMPS PW-CLAMP
WATER	VIDANGE		WP = 6 bar	BAND-IT SYSTEM CLAMPS PW-CLAMP SMOOTH FERRULE
WATER	TYPE 42		WP = 12 bar (liquids)	CLAMPS

INSERT TYPE	CONNECTION TYPE	APPLICATION	WARNING & NOTE
serrated insert without locking collar	symmetric coupling system. The two symmetrical half-couplings have two claws each, which are connected by pushing them together and rotating the two claws to form a seal.	For agricultural, gardening, irrigation, construction and public service applications	Internal claw distance = 40 mm Not interchangeable with Express couplings and with other compressed air claw couplings (type A, type B, type S) Not to be used for steam application As the connecting heads are the same on all parts, hose and threads of all dimensions can be connected together with no adaptors being required.
ridged insert for clamps	asymmetric coupling system: male & female part The male fitting has a double pin closure lever for smoother closing action. The male fitting is inserted into the female fitting and the joint closed by latching the lever over the head of the female fitting.	For different applications like: agriculture, irrigation, road construction, water delivery in the mines, suction line, civil projects, dewatering, by pass lines, chemical and food industry. Used in a wide range of water related applications and activities such as gully emptiers, sewage systems, fertiliser spraying and general water pumping.	Not interchangeable with type C - Cardan / Perrot compatible couplings
ridged insert for clamps	asymmetric coupling system: male & female part The female fitting incorporates a thick o-ring seal and a closure lever with two-claws. The male fitting is inserted into the female fitting and the joint closed by latching the lever over the conical head of the male fitting.	For agricultural, irrigation, cleaning and construction applications. Most commonly used with systems carrying water, mortar, bitumen, bulk products. They assure the delivery of several media like: potable drinking water, waste water, sludge, bentonite, cement, compressed air in the most various applications like the food, pharmaceutical and chemical industries, irrigation, mining and tunneling, civil projects and dewatering.	Not interchangeable with type B - Bauer compatible couplings
serrated insert without locking collar	asymmetric coupling system: male & female part	For water applications	
ridged insert for clamps	asymmetric coupling system: male & female part	For water applications (irrigation systems) For different applications like: chemical industry, paper industry, process industry, for mobile water pipes in mining, steel and heavy industry. On sewage vehicles, on trucks for bulk transport of granulates (grain, flour, feed, pellets), concrete and minerals.	Not interchangeable with type B - Bauer compatible couplings Not interchangeable with type C - Cardan / Perrot compatible couplings

CHAPTER	FITTING	FITTING	WP	RECOMENDED FERRULE/CLAMPS (see Table A-B-C)
HYGIENIC - FOOD	SMS		WP = 6 bar	SERRATED FERRULE FOR HYGIENIC COUPLING
HYGIENIC - FOOD	DIN 11851		WP = 40 bar --> 25 bar (DN 15 mm --> 100 mm)	SAFETY CLAMPS EN 14 420-3 / DIN 2817 SAFETY CLAMPS FLEXOLINE® SERRATED FERRULE FOR HYGIENIC COUPLING
HYGIENIC - FOOD	DIN 11851		WP = 40 bar --> 25 bar (DN 15 mm --> 100 mm)	SERRATED FERRULE FOR HYGIENIC COUPLING
HYGIENIC - FOOD	MACON		WP = 10 bar	SERRATED FERRULE FOR HYGIENIC COUPLING

INSERT TYPE	CONNECTION TYPE	APPLICATION	WARNING & NOTE
serrated insert with EN 14 420-2 / DIN 2817 collar	asymmetric coupling system: male & female threaded end SMS food couplings are connected in the same way as DIN 11851 food couplings. The nut is slid across the head of the female coupling and onto the male coupling. The flat face of the female coupling is brought into contact with the turned-up seal of the male coupling. The nut is then tightened by hand or using a wrench. Threaded food couplings complying with SMS have a rounded thread complying with DIN 405/1. This rounded thread ensures that SMS food couplings are easy to connect by hand or using a wrench.	Used in food, beverage, chemical and pharmaceutical industries.	Supplied in Stainless Steel in order to meet the specifications of the Food Processing, Brewing, Dairy and Pharmaceutical industries. Food couplings complying with SMS (Swedish Manufacturing Standard) are not interchangeable with DIN 11851 food couplings. Although the threads of both couplings comply with DIN 405/1, precise dimensions vary, making them non-interchangeable. Female coupling = flat face Male coupling = turned-up seal Seal = square seal
EN 14 420-2 / DIN 2817 smooth insert with collar	asymmetric coupling system: male & female threaded end The seal must be inserted correctly into the seal sitting of the male coupling before connection. The conical female coupling is then pushed onto the male threaded coupling. The two are secured by sliding the nut across the conical head of the female coupling and onto the thread of the male coupling. The flanged seal enables easy assembly and prevents any displacement by vacuum or pressure. Threaded food couplings complying with DIN 11851 have a rounded thread complying with DIN 405/1. This rounded thread ensures that DIN 11851 compliant food couplings are easy to connect by hand or using a wrench.	Used in food, beverage, pharmaceutical and chemical industries.	Food couplings complying with DIN 11851 are not interchangeable with SMS food couplings. Although the threads of both couplings comply with DIN 405/1, precise dimensions vary, making them non-interchangeable. Female coupling = conical face Male coupling = deep seal Seal = U-shape seal
serrated insert with EN 14 420-2 / DIN 2817 collar	asymmetric coupling system: male & female threaded end The seal must be inserted correctly into the seal sitting of the male coupling before connection. The conical female coupling is then pushed onto the male threaded coupling. The two are secured by sliding the nut across the conical head of the female coupling and onto the thread of the male coupling. The flanged seal enables easy assembly and prevents any displacement by vacuum or pressure. Threaded food couplings complying with DIN 11851 have a rounded thread complying with DIN 405/1. This rounded thread ensures that DIN 11851 food couplings are easy to connect by hand or using a wrench.	Used in food, beverage, pharmaceutical and chemical industries.	Supplied in Stainless Steel in order to meet the specifications of the Food Processing, Brewing, Dairy and Pharmaceutical industries. Food couplings complying with DIN 11851 are not interchangeable with SMS food couplings. Although the threads of both couplings comply with DIN 405/1, precise dimensions vary, making them non-interchangeable. Female coupling = conical face Male coupling = deep seal Seal = U-shape seal
serrated insert with locking collar	asymmetric coupling system: male & female threaded end	Especially designed for wine industry in France	

CHAPTER	FITTING	FITTING	WP	RECOMENDED FERRULE/CLAMPS (see Table A-B-C)
STEAM	EN 14 423 / DIN 2826		WP max = 100 bar	SAFETY CLAMPS EN 14 423 / DIN 2826
STEAM	GROUND JOINT SEAL		WP max = 41 bar	CLAMPS - 2 BOLT - 2 GRIPPING FINGER TYPE CLAMPS - 4 BOLT - 2 GRIPPING FINGER TYPE CLAMPS - 6 BOLT - 3 GRIPPING FINGER TYPE
STEAM	TURNEX P		WP = 25 bar	ALFACRIMP HYDRAULIC SERRATED FERRULE (H1200004-xx0000)
SYMMETRIC GUILLEMIN	SYMMETRIC GUILLEMIN EN 14 420-8 / NF E 29.572		WP = 16 bar	BAND-IT SYSTEM CLAMPS CRIMPING RING SMOOTH FERRULE
SYMMETRIC	SYMMETRIC DPS & AR NF S 61.704 - NF S 61.705		WP = 16 bar	BAND-IT SYSTEM WORM GEAR CLAMP CLAMPS CRIMPING RING SMOOTH FERRULE
GROS FILET ROND	GROS FILET ROND NF E 29-579		WP = 16 bar WP = 25 bar (DN20mm)	BAND-IT SYSTEM CLAMPS CRIMPING RING SMOOTH FERRULE

INSERT TYPE	CONNECTION TYPE	APPLICATION	WARNING & NOTE
EN 14 423 / DIN 2826 serrated insert with collar	asymmetric coupling system: male & female threaded end symmetric coupling system: flanged end Steam couplings complying with EN 14423/ DIN 2826 are available in female and male threaded screw couplings and in flanged couplings.	To be used for saturated steam up to +210°C, resp. hot water up to +120°C and up to 18 bar working pressure	Steam couplings complying with EN 14423 / DIN 2826 are used to assemble steam hoses complying with EN ISO 6134. The serrated hose shank with collar is designed to be assembled with steam clamps complying with EN 14423 / DIN 2826. Under no circumstances safety clamps EN 14420-3 / DIN 2817 shall be used. Compared with EN 14420-2 / DIN 2817 smooth hose shanks, steam hose shanks complying with EN 14423 / DIN 2826 are serrated and are physically longer and larger.
serrated insert with safety collar	asymmetric coupling system: male & female threaded end The coupling system consists of a male threaded insert (with a serrated hose shank with safety collar for safety clamps) and a female threaded complete coupling composed by 3 elements: a female stem (with a serrated hose shank with safety collar for safety clamps), a female threaded spud and a swivel nut.	Designed for steam and high pressure compressed air and other high pressure or hazardous applications requiring a safety coupling and clamp assembly. This reusable, rugged coupling can be fitted or re-attached in the field without special equipment. Widely used in oil refineries, chemical plants and other factories using steam as an essential service. Used for compressed air (especially in larger sizes), in quarrying, mining, pile driving, as well as other service duties. Also used for LPG, grouting, volatile liquids and similar applications.	
serrated insert with locking collar / serrated insert without locking collar	asymmetric coupling system: female threaded end	Used in petrochemical plants in France	
serrated insert with locking collar / serrated insert without locking collar	symmetric coupling system. A coupling system in which both halves are identical. Couplings have locking rings to connect and secure the other half. This is the French standard tanker connection. The coupling is connected by simply putting the two halves together and turning a tapered locking ring which tightens into a tapered channel on the other half of the coupling making a tight, secure connection. Couplings can be connected by hand or with the aid of spanners designed for the purpose.	For pressure and suction delivery of liquid (general industrial, water, hydrocarbons, chemicals) and solids (powders, granules)	Symmetric Guillemin Couplings are not interchangeable with DSP/AR couplings Not to be used for steam or liquid gas application.
serrated insert without locking collar	symmetric coupling system. These French hose couplings are symmetrical, clamp fitting and hose tail are one piece fitted with a locking ring. By turning the locking ring the bosses are pushed underneath the two strips of the mating coupling.	For fire fighting application. DSP couplings are used for pressure (delivery) purposes in the fire fighting field. AR couplings are used for suction & delivery purposes in the fire fighting field.	Symmetric DSP/AR Couplings are not interchangeable with Symmetric Guillemin Couplings They differ from Guillemin Couplings by the preformed bosses on the locking ring respect the strips on the lugs.
serrated insert without locking collar	asymmetric coupling system: male & female threaded end	For air, nitrogen and water in petrochemical plants and refineries in France.	

CHAPTER	FITTING	FITTING	WP	RECOMENDED FERRULE/CLAMPS (see Table A-B-C)
STORZ	STORZ		WP = 16 bar	BAND-IT SYSTEM CLAMPS CRIMPING RING SMOOTH FERRULE
TANKWAGEN	TANKWAGEN EN 14 420-6 / DIN 28 450		WP = 25 bar	
CAM & GROOVE	CAM & GROOVE MIL C - 27.487		WP = 11 bar --> 3 bar (DN 1/2" --> 8")	BAND-IT SYSTEM WORM GEAR CLAMP CLAMPS SMOOTH FERRULE
CAM & GROOVE	CAM & GROOVE EN 14420-7 / DIN 2828		WP = 18 bar --> 7 bar (DN 3/4" --> 4")	SAFETY CLAMPS EN 14 420-3 / DIN 2817 SAFETY CLAMPS FLEXOLINE®
COMBINATION NIPPLE	COMBINATION NIPPLE - INSERT FOR CLAMPS		WP max = 10 bar the WP varies with size of the comb.nipple, the size and construction of the hose and the type of clamping system used	BAND-IT SYSTEM WORM GEAR CLAMP CLAMPS SMOOTH FERRULE
COMBINATION NIPPLE	COMBINATION NIPPLE - THREADED SERRATED INSERT			DN < 3": H1200203-xxxxxx hydraulic serrated ferrule
COMBINATION NIPPLE	COMBINATION NIPPLE - MALE THREADED INSERT COMPLETE WITH PRE CRIMPED FERRULE - HEAVY DUTY		WP = 25 bar	DN > = 3": INDUSTRIAL PRECRIMPED FERRULE

INSERT TYPE	CONNECTION TYPE	APPLICATION	WARNING & NOTE
ridged insert for clamps	symmetric coupling system. A straight through coupling in which both halves are identical. Each half has forward projecting lugs and mating recesses. Any two parts with the same lug dimensions will connect together. This is the standard German tanker connection. The coupling is connected by simply locating the lugs into the recesses of each half and turning clockwise up to the stop (a 120° rotation). One half of the coupling normally has a swivel head which prevents hose / pipe twists when connecting. Couplings can be connected by hand or with the aid of spanners designed for the purpose.	Used for liquids, powders and granulates. The storz system was originally designed for fire fighting equipment. It is suitable for water and a wide range of other fluids. It has also been adopted for use with powder blowing systems.	Different lug spaced units can be used to prevent accidental cross line contamination.
	asymmetric coupling system: male & female part. To be screwed on BSPP male fittings. The locking lever fitted to the female (MK) coupling engages in the rim of the male (VK) part. It's turned until both halves are tightly compressed. The locking lever is then pushed downwards.	Used for trasport of liquids, solids and gases, with exception of liquefied gas and steam. Potential areas of application are stationary and mobile tanking facilities, forwarding/ tanking and silo vehicles, chemical industry, food industry, plant and power station construction and shipbuilding.	
ridged insert for clamps / serrated insert without locking collar	asymmetric coupling system: male adapter & female coupler The coupling is connected by simply opening the coupler arms and inserting the adapter into the coupler. The cam arms are then closed under normal hand pressure to complete joint.	Used for trasfer of liquid or dry bulk products with exception of liquid gas or steam. For pipe, hose, tubing and tanks conveying liquids, powders, vapours & gases including cooling water, fuels, chemicals, cosmetics, foodstuffs, offshore, pumps, adhesives, dyes, pharmaceuticals, pellets and many more. Couplings applicable to almost any industry that uses liquids, powders and gases.	Not to be used for compressed air and steam application
EN 14 420-2 / DIN 2817 smooth insert with collar	asymmetric coupling system: male adapter & female coupler The coupling is connected by simply opening the coupler arms and inserting the adaptor into the coupler. The cam arms are then closed under normal hand pressure to complete joint.	Used for trasfer of liquid or dry bulk products with exception of liquid gas or steam. For pipe, hose, tubing and tanks conveying liquids, powders, vapours & gases including cooling water, fuels, chemicals, cosmetics, foodstuffs, offshore, pumps, adhesives, dyes, pharmaceuticals, pellets and many more. Couplings applicable to almost any industry that uses liquids, powders and gases.	Not to be used for compressed air and steam application Couplings CAM & GROOVE (EN 14420-7 / DIN 2828) are interchangeable with couplings CAM & GROOVE (MIL C - 27.487) as coupling side but differ in term of hose shank design and thread side. A flat PTFE thread seal has been added to the female threaded parts compared to Cam & Groove (MIL C - 27.487)
serrated insert without locking collar	asymmetric coupling system: male threaded end symmetric coupling system: plain end	For all suction and discharge hose applications at low pressure. For oil, petroleum, water (widely used in offshore rig operations by oil companies), volatile fluids, abrasives and dry products.	Not to be used for compressed air application Hose nipples made from tubular stock; threaded male end, in all style, has the same size as hose
hydraulic serrated insert	asymmetric coupling system: male & female threaded end		DN < 3": male and female threaded hydraulic fittings to be used. (CONSULT AG HYDRAULIC CATALOGUE)
industrial "one-piece" (precrimped serrated insert)	asymmetric coupling system: male threaded end	For all suction and discharge hose applications at low pressure. For oil, petroleum, water (widely used in offshore rig operations by oil companies), volatile fluids, abrasives and dry products.	






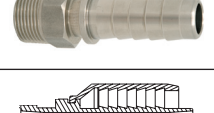
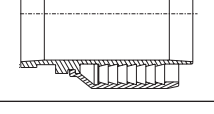
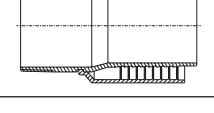
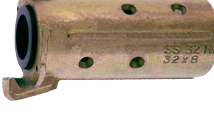


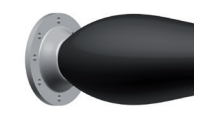
CHAPTER	FITTING	FITTING	WP	RECOMENDED FERRULE/CLAMPS (see Table A-B-C)
EN 14420-5 / DIN 2817	EN 14420-5 / DIN 2817		WP = 25 bar	SAFETY CLAMPS EN 14 420-3 / DIN 2817 SAFETY CLAMPS FLEXOLINE® SERRATED FERRULE SUITABLE TO EN 14 420-2 / DIN 2817
AVIATION	SCREW HOSE COUPLINGS EN 14420-5 / DIN 2817 - aviation refuelling service approved		WP = 25 bar	(aviation refuelling service approved) SAFETY CLAMPS EN 14 420-3 / DIN 2817 SAFETY CLAMPS FLEXOLINE® SERRATED FERRULE
AVIATION	SCREW HOSE COUPLINGS MALE BSPP - SERRATED INSERT WITH COLLAR - aviation refuelling service approved		WP = 25 bar	(aviation refuelling service approved) SAFETY CLAMPS EN 14 420-3 / DIN 2817 SERRATED FERRULE
SANDBLAST	SANDBLAST		WP = 12 bar	
MORTAR	MORTAR - INSERT FOR CLAMPS		WP max = 50 bar	BAND-IT SYSTEM CRIMPING RING SMOOTH FERRULE
MORTAR	MORTAR - INSERT FOR SERRATED FERRULE		WP max = 50 bar	SERRATED FERRULE
CONCRETE	CONCRETE - HARDENED INSERT COMPLETE WITH PRECRIMPED FERRULE		WP = 85 bar	CONCRETE PRECRIMPED FERRULE

INSERT TYPE	CONNECTION TYPE	APPLICATION	WARNING & NOTE
EN 14 420-2 / DIN 2817 smooth insert with collar	asymmetric coupling system: male & female threaded end	Potential Areas of Application are chemical, petrochemical, pharmaceutical industry, food industry and blast furnaces.	Screw hose couplings EN 14420-5 / DIN 2817 are not interchangeable with steam hose couplings EN 14 423 / DIN 2826, due to differences in application and overall dimensions.
EN 14 420-2 / DIN 2817 smooth insert with collar	asymmetric coupling system: male & female threaded end	For aircraft ground fuelling and defuelling application.	Different from the standard screw hose couplings EN 14420-5 / DIN 2817 for the material: produced in tinned brass for aviation refuelling service.
serrated insert with EN 14 420-2 / DIN 2817 collar	asymmetric coupling system: male threaded end	For aircraft ground fuelling and defuelling application.	
external insert secured with screws on the hose external diameter	symmetric coupling system. A coupling system related to claw couplings, always identical head dimensions and therefore always interchangeable	Used on all stationary and mobile blasting machines and plants.	Internal claw distance = 58 mm
serrated insert without locking collar	asymmetric coupling system: male adapter & female coupler asymmetric coupling system: male threaded end The principle of the Mortar coupling is similar to Cam & Groove Coupling, but both are not interchangeable.	For mortar and concrete lines on pumps, spraying-devices, plastering machine, ect..	Note that there are two different Systems used in the market: System 22 and System 23,5 Attention: only fittings with same coupling-size and same system are interchangeable
serrated insert with locking collar	asymmetric coupling system: male adapter & female coupler asymmetric coupling system: male threaded end The principle of the Mortar coupling is similar to Cam & Groove Coupling, but both are not interchangeable.	For mortar and concrete lines on pumps, spraying-devices, plastering machine, ect..	Note that there are two different Systems used in the market: System 22 and System 23,5 Attention: only fittings with same coupling-size and same system are interchangeable Not present in AG catalogue
concrete "one-piece" (precrimped serrated insert)	symmetric coupling system: grooved end - indirect connection through joint clamps asymmetric coupling system: male & female threaded end asymmetric coupling system: male & female part	For high pressure concrete pumping.	




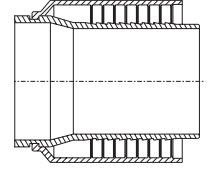
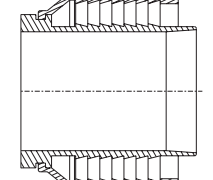
CHAPTER	FITTING	FITTING	WP	RECOMENDED FERRULE/CLAMPS (see Table A-B-C)
FLANGE	FIXED FLANGE - SERRATED INSERT COMPLETE WITH PRE-CRIMPED FERRULE SWIVEL FLANGE - SERRATED INSERT COMPLETE WITH PRE-CRIMPED FERRULE		WP = 16 / 25 bar	DN = 3"- 6": INDUSTRIAL PRECRIMPED FERRULE
FLANGE	FIXED FLANGE - SERRATED INSERT SWIVEL FLANGE - SERRATED INSERT		WP = 16 / 25 bar	SERRATED FERRULE
FLANGE	SWIVEL FLANGE - EN 14 420-2 / DIN 2817 INSERT		WP = 25 bar	SAFETY CLAMPS EN 14 420-3 / DIN 2817 SAFETY CLAMPS FLEXOLINE®
MUFF COUPLING	MUFF COUPLING - FIXE FLANGED COUPLING FOR 706AA & 707AA HOSE		WP = 10 bar	
COMPOSITE HOSE FITTINGS			WP = 10 / 25 bar The WP varies with the type of fittings	SMOOTH FERRULE FOR COMPOSITE HOSE

INSERT TYPE	CONNECTION TYPE	APPLICATION	WARNING & NOTE
industrial "one-piece" (precrimped serrated insert)	symmetric coupling system: flanged end	For all suction and discharge hose applications at low pressure. For oil, petroleum, water and other fluids (chemicals included).	
serrated insert with locking collar	symmetric coupling system: flanged end	For all suction and discharge hose applications at low pressure. For oil, petroleum, water and other fluids (chemicals included).	
EN 14 420-2 / DIN 2817 smooth insert with collar	symmetric coupling system: flanged end	For all suction and discharge hose applications at low pressure. For oil, petroleum, water and other fluids (chemicals included).	
muff coupling with external insert clamped with screwed bolts on hose external diameter	symmetric coupling system: flanged end	For bulk material and abrasive slurries suction and delivery in heavy duty mining.	
Helical insert for composite hose		For acid, chemical, fuel, oil and solvents suction and delivery	

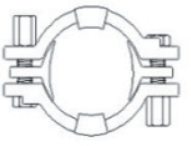


CLAMPS & FERRULES FOR ASSEMBLY**INSERT TYPE**

INSERT TYPE (IND)	Drawing Example	FERRULE/CLAMPS TO BE USED X ASSEMBLY
SERRATED INSERT WITH LOCKING COLLAR		SERRATED FERRULE
SERRATED INSERT WITHOUT LOCKING COLLAR		SMOOTH FERRULE - CRIMPING RING - CLAMPS - BAND-IT
STANDARD INSERT FOR CLAMP / RIDGED INSERT FOR CLAMP		SMOOTH FERRULE - CRIMPING RING - CLAMPS - BAND-IT
SERRATED INSERT WITH EN 14 420-2 / DIN 2817 COLLAR		EN 14 420-3 / DIN 2817 SAFETY CLAMPS - SERRATED FERRULE SUITABLE X EN 14 420-2 / DIN 2817 HOSE SHANK
EN 14 420-2 / DIN 2817 SMOOTH INSERT WITH COLLAR		EN 14 420-3 / DIN 2817 SAFETY CLAMPS
EN 14 423 / DIN 2826 SERRATED INSERT WITH COLLAR		EN 14 423 / DIN 2826 SAFETY CLAMPS
CONCRETE "ONE-PIECE" - PRECRIMPED SERRATED INSERT (FULL FLOW)		CONCRETE SERRATED FERRULE ALREADY PRECRIMPED TO THE FITTING
INDUSTRIAL "ONE-PIECE" - PRECRIMPED SERRATED INSERT		INDUSTRIAL SERRATED FERRULE ALREADY PRECRIMPED TO THE FITTING
EXTERNAL INSERT FIXED BY SCREWS		SECURED WITH SCREWS TO THE HOSE EXTERNAL DIAMETER (NO FERRULE & CLAMPS NEEDED)
EXTERNAL INSERT - MUFF COUPLING		CLAMPED WITH SCREWED BOLTS ON HOSE EXTERNAL DIAMETER (NO FERRULE & CLAMPS NEEDED)
COMPOSITE INSERT		COMPOSITE SMOOTH FERRULE
BUILT IN INSERT		INSERT BONDED TO HOSE DURING CONSTRUCTION (NO FERRULE NEEDED)

CLAMPS & FERRULES FOR ASSEMBLY**TABLE A: FERRULES**

FERRULE TYPE (IND)	FERRULE DRAWING
CRIMPING RING	
SMOOTH FERRULE X COMPOSITE HOSE (SUITABLE FOR INDUSTRIAL HOSE)	 
SERRATED FERRULE	 
INDUSTRIAL PRECRIMPED SERRATED FERRULE	
CONCRETE PRECRIMPED SERRATED FERRULE	

CLAMPS & FERRULES FOR ASSEMBLY**TABLE B: CLAMPS**

CLAMP FAMILY	CLAMPS DRAWING
EXPRESS CLAMPS	
TYPE A CLAW CLAMPS - DIN20039B	
TYPE B CLAW CLAMPS	
TYPE S (AUSTRALIAN TYPE) CLAW CLAMPS	
LOOSE SADDLE&SAF.CLAW CLAMPS	
BOSS CLAMPS - GROUND JOINT	
SAFETY CLAMPS EN 14 423 / DIN 2826	
SAFETY CLAMPS EN 14 420-3 / DIN 2817	
LOOSE SADDLE CLAMPS	
LOOSE SADDLE CLAMPS - DIN20039A	

CLAMPS & FERRULES FOR ASSEMBLY**TABLE B: CLAMPS**

CLAMP FAMILY	CLAMPS DRAWING
EAR PINCH ON CLAMP	
MINICLAMP	
WORM GEAR CLAMP	
SPIRAL CLAMP - DOUBLE BRIDGE	
BOLT SUPERCLAMP	
POWER CLAMP	
BAND-IT BAND & BAND-IT BUCKLES	
PREFORMED BAND CLAMP	
RUBBER LINED CLIPS	
EXHAUST PIPE CLAMP	