

Air Brake Push-In - Fittings

VOSS

The VOSS Plug-in 240,230 and 232 ranges of fittings allow fast and reliable connection of tubes in passenger cars and commercial vehicles.

Quality

The high specification of manufacture and use of corrosion resistant brass and high grade plastic components guarantees high reliability and a long service life.

Application

Fitted as Original Equipment to the majority of European Truck Manufacturers including Mercedes, MAN and DAF.

Operating Pressure

In excess of 12 bar

Operating Temperature

Ranges from - 40° C up to + 100° C.

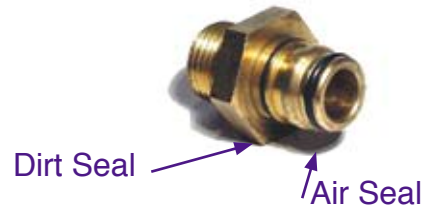
SYSTEM 240

Female Connector



Retaining Clip

Male Connector



Dirt Seal

Air Seal

SYSTEM 230

Straight Connector



Dirt Seal

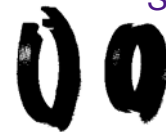
Air Seal

Male Nut



Air Seal

Clip

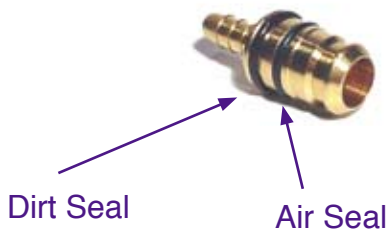


Rubber Seal



SYSTEM 232

Straight Connector



Dirt Seal

Air Seal

Male Nut



O Ring

Integral Rubber Seal

Phone: 01474 321954 Fax: 01474 321988

Air Brake Push-In - Fittings

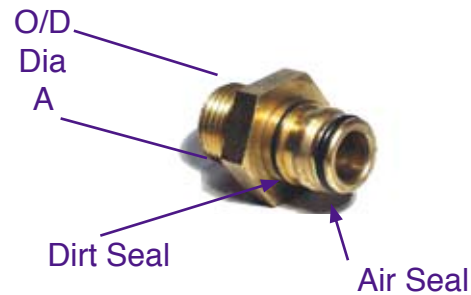
VOSS 240 RANGE

Female Connector



Retaining Clip

Male Connector



The original design of plug-in system is used with the following nylon tube sizes:-
6 x 1, 9 x 1.5, 11 x 1.5, 12 x 1.5, 14 x 2 and 16 x 2.

Applications

Predominantly O/E fitment on MAN up to the 2000 range of vehicles which use the newer 230 range of Voss fittings.

Main Features of Identification

This product range is split into two types, Type 9 and Type 13, to identify the different types measure distance A as shown on above picture.

Type 9 = 11.5mm Diameter OD/ID

Type 13 = 15 mm Diameter OD/ID

WORKSHOP KIT - Contains all necessary components to repair/maintain vehicles using VOSS 240 Range in a handy case.



Part
No
4990

Contents available on request

In addition
Tube Gear Maxi Stor Range

Exclusive to our customers
MSK490

Contains all popular 240
components

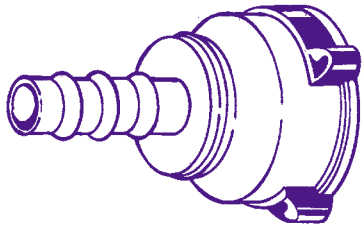
Ask our sales team for contents
and prices

Phone: 01474 321954 Fax: 01474 321988

Air Brake Push-In - Fittings

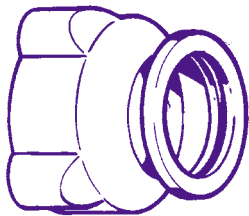
VOSS 240 RANGE

FEMALE CONNECTORS



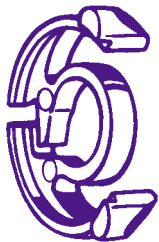
Tube Size	Type	Part No	Pkt No
6 x 1	9	4957	VOS957
9 x 1.5	9	4958	VOS958
11 x 1.5	9	4959	VOS959
12 x 1.5	9	4960	VOS960
6 x 1	13	4961	VOS961
9 x 1.5	13	4962	VOS962
11 x 1.5	13	4963	VOS963
12 x 1.5	13	4964	VOS964
14 x 2	13	4965	VOS965
16 x 2	13	4966	VOS966

PLASTIC CAP



Colour	Type	Part No	Pkt No
White	9	4911	VOS911
Blue	9	4912	VOS912
Red	9	4913	VOS913
White	13	4914	VOS914
Blue	13	4915	VOS915
Red	13	4916	VOS916

RETAINING CLIP



Type	Part No	Pkt No
9	4909	VOS909
13	4910	VOS910

N.B. When replacing clips ensure that prongs of clips overlap lip of fitting

SEALS



Air Seals

Size	Type	Part No	Pkt No
7 x 1.5	9	4985	VOS985
11 x 1.5	13	4987	VOS987

Dirt Seals

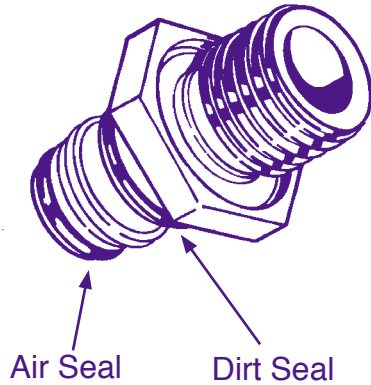
Size	Type	Part No	Pkt No
9 x 1	9	4986	VOS986
13 x 1	13	4988	VOS988

Phone: 01474 321954 Fax: 01474 321988

Air Brake Push-In - Fittings

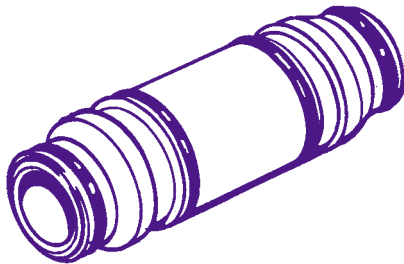
VOSS 240 RANGE

STRAIGHT STUD ADAPTOR



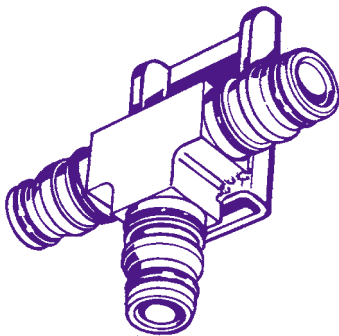
Thread Size	Type	Part No	Pkt No
10 x 1	9	4924	VOS924
12 x 1.5	9	4925	VOS925
14 x 1.5	9	4926	VOS926
16 x 1.5	9	4927	VOS927
16 x 1.5	13	4928	VOS928
22 x 1.5	13	4929	VOS929
1/4 NPT	9	4930	VOS930

EQUAL STRAIGHT CONNECTOR



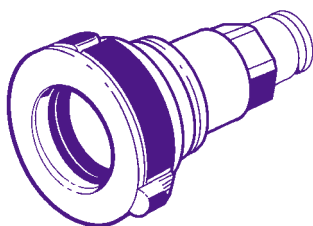
Type	Part No	Pkt No
9 - 9	4931	VOS931
13 - 13	4932	VOS932

TEE CONNECTOR



Type	Part No	Pkt No
9-9-9	4938	VOS938

STRAIGHT CONNECTOR

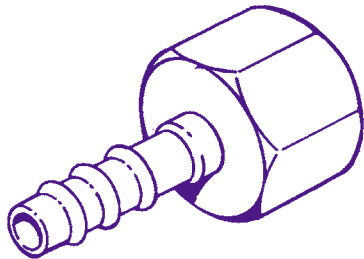


Type	Part No
6x1-13	4969
6x1-9	4970

Air Brake Push-In - Fittings

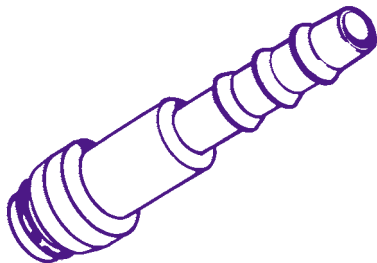
VOSS 240 RANGE

FEMALE FIR TREE



Tube Size	Thread Size	Part No	Pkt No
11 x 1.5	M16 x 1.5	4907	VOS907
13 x 1.5/14 x 2	M18 x 1.5	4908	VOS908

MALE FIR TREE



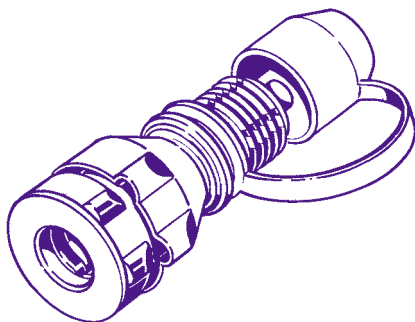
Tube Size	Tube Nut ID	Part No	Pkt No
6 x 1	6	4900	VOS900
6 x 1	8	4905	VOS905
8 x 1 & 9 x 1.5	8	4901	VOS901
12 x 1.5	12	4902	VOS902
16 x 2	16	4903	VOS903

BLANKING CAPS



Type	Part No	Pkt No
9 (Plastic)	4955	VOS955
13 (Brass)	4956	VOS956

TEST POINTS

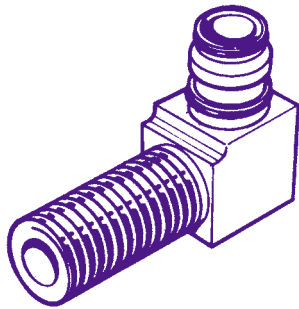


Type	Part No	Pkt No
9	4967	VOS967
13	4968	VOS968

Air Brake Push-In - Fittings

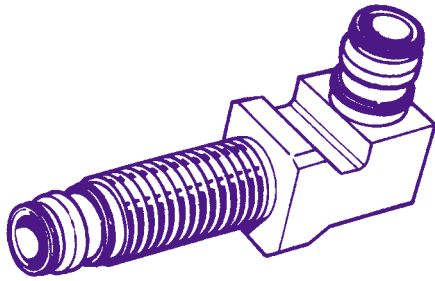
VOSS 240 RANGE

ELBOW STUD



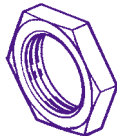
Thread	Type	Part No	Pkt No
M16 x 1.5	13	4934	VOS934

BULKHEAD ELBOW



Thread	Type	Part No	Pkt No
M14 x 1.5	9 - 9	4937	VOS937

LOCK NUT (Without Recess for Seal)



Thread	Part No	Pkt No
M14 x 1.5	4917	VOS917
M18 x 1.5	4918	VOS918

LOCK NUT (With Recess for Seal) *



Thread	Part No	Pkt No
M10 x 1	4919	VOS919
M12 x 1.5	4920	VOS920
M14 x 1.5	4921	VOS921
M16 x 1.5	4922	VOS922
M22 x 1.5	4923	VOS923

O RINGS N.B. For use only with VOSS Locknuts



To Suit Thread	Part No	Pkt No
M10 & M12	4980	VOS980
M14	4983	VOS983
M16	4982	VOS982
M22	4984	VOS984

*Nuts & 'O' Rings need to be ordered separately

Phone: 01474 321954 Fax: 01474 321988

Air Brake Push-In - Fittings

VOSS 230 & 232 RANGE

SYSTEM 230

Straight Connector



Male Nut



Clip



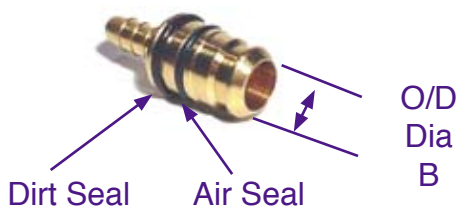
Rubber Seal



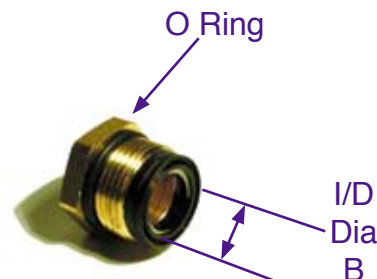
The new 230 system is used with the following tube sizes 6 x 1, 8 x 1, 12 x 1.5 & 16 x 2.

SYSTEM 232

Straight Connector



Male Nut



Applications

230

Original equipment fitment on most Mercedes approximately after 1980 and also to most DAF's after 1995. Also fitted to MAN 2000 range of vehicles.

232

The new range to supercede the 230 range.

Main Features of Identification

This product range splits into two main types, type NG 8 and type NG 12. To identify the different types measure Diameter B and refer to table below:-

230 I/D & O/D Diameter B		232 I/D & O/D Diameter B	
Type NG 8	= 9.4mm	Type NG 8	= 9.1mm
Type NG 12	= 14.9mm	Type NG 12	= 14.6mm

Air Brake Push-In - Fittings

VOSS 230 & 232 RANGE

WORKSHOP KIT 230

Contains all necessary components to repair/maintain vehicles using VOSS 230 RANGE in a handy case



Part
No

4989

Contents available on request

ASSEMBLY TOOL



Part
No

4992

The recommended gripping pliers for the quick and easy assembly of 230 and 232 range of fittings into nylon tube

In addition

Tube Gear Maxi Stor Range
Exclusive to our customers

MSK470

VOSS 230

Contains all popular 230 components

MSK475

VOSS 232

Contains all popular 232 components

Ask our sales team for contents and prices

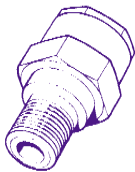
Phone: 01474 321954 Fax: 01474 321988

Air Brake Push-In - Fittings

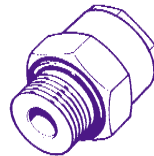
VOSS 230 RANGE

These Port Adaptors are used to convert standard ported air brake equipment to be used with 230 range Voss fittings. They are supplied complete ready to accept the male connector.

PORT ADAPTORS



Style A
Longer Thread
without O Ring

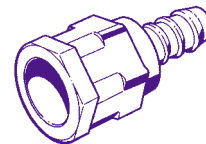


Style B
Shorter Thread
comes with O
Ring

Thread Size	Type	Part No	Pkt No	Style
M16 x 1.5	NG8	4706	VOS706	B
M16 x 1.5	NG12	4712	VOS712	A
M22 x 1.5	NG12	4709	VOS709	A
M22 x 1.5	NG12	4714	VOS714	B

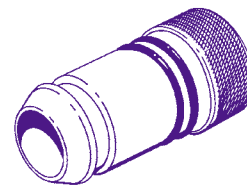
STRAIGHT CONNECTORS

Tube Size	Type	Part No
8 x 1	NG 8	4772
12 x 1.5	NG12	4773



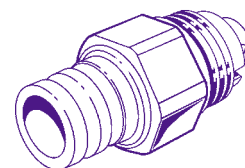
BLANKING PLUG

Type	Part No
NG 8	4718
NG12	4719



ASSEMBLY UNIT

Thread Size	Tube Size	Part No
M8x1	4x1	4777
M10x1	6x1	4778



Phone: 01474 321954 Fax: 01474 321988

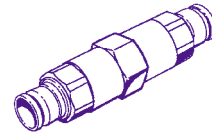
Air Brake Push-In - Fittings

VOSS 230 RANGE

STRAIGHT CONNECTORS

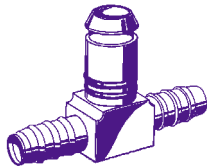


Tube Size	Type	Part No	Pkt No
6 x 1	NG 8	4740	VOS740
8 x 1	NG 8	4741	VOS741
6 x 1	NG12	4742	VOS742
8 x 1	NG12	4743	VOS743
10 x 1.25	NG12	4745	
12 x 1.5	NG12	4744	VOS744

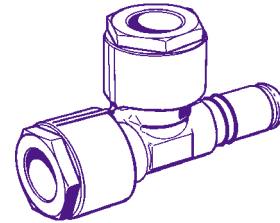


Tube Size	Part No
4x1	4774
6x1	4775

TEES



Tube Size	Type	Part No
12 x 1.5	NG12	4776



Tube Size	Type	Part No
12 x 1.5	NG12	4753

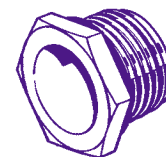
ELBOWS

Tube Size	Type	Part No	Pkt No
6 x 1	NG 8	4746	VOS746
8 x 1	NG 8	4747	VOS747
6 x 1	NG12	4748	VOS748
8 x 1	NG12	4749	VOS749
10 x 1.25	NG12	4752	
12 x 1.5	NG12	4750	VOS750
16 x 2	NG12	4751	VOS751



MALE NUT

Thread	Type	Part No	Pkt No
M16 x 1.5	NG 8	4702	VOS702
M22 x 1.5	NG12	4703	VOS703



Phone: 01474 321954 Fax: 01474 321988

Air Brake Push-In - Fittings

VOSS 230 RANGE

SPRING ELEMENT

Type	Part No
NG 8	4704
NG12	4705



REPAIR KIT Containing Spring Element, Clip, O Ring
Air Seal and Dirt Seal



Type	Part No	Pkt No
NG 8	4720	VOS720
NG12	4721	VOS721

CLIP ONLY



Type	Part No	Pkt No
NG 8	4700	VOS700
NG12	4701	VOS701

Phone: 01474 321954 Fax: 01474 321988

Air Brake Push-In - Fittings

VOSS 232 RANGE

AIR SEAL O RING



Type	Size	Part No
NG 8	7x1.5	4725
NG12	12x1.6	4726

DIRT SEAL O RING (BLACK)

Type	Size	Part No
NG 8	7.5x2	4730
NG12	12x2	4731



Air Brake Push-In - Fittings

VOSS 232 RANGE

STRAIGHT CONNECTORS



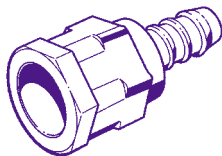
Tube Size	Type	Part No	Pkt No
6 x 1	NG 8	4754	VOS754
8 x 1	NG 8	4755	VOS755
6 x 1	NG12	4756	VOS756
8 x 1	NG12	4757	VOS757
12 x 1.5	NG12	4758	VOS758

MALE NUT

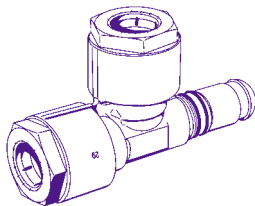


Thread	Type	Part No	Pkt No
M16 x 1.5	NG 8	4759	VOS759
M22 x 1.5	NG12	4760	VOS760

Tube Size	Type	Part No
8 x 1	NG 8	4780



TEES



Tube Size	Type	Part No
12 x 1.5	NG12	4771

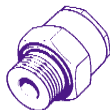
SIDE ELBOW PLUG



Tube Size	Type	Part No
8 x 1 & 6 x 1	NG12	4779

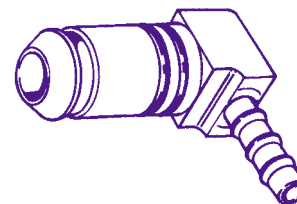
PORT ADAPTORS

These Port Adaptors are used to convert standard ported air brake equipment to be used with 232 range Voss fittings. They are supplied complete ready to accept the male connector.



Thread Size	Type	Part No	Pkt No
M12 x 1.5	NG8	4767	VOS767
M16 x 1.5	NG8	4768	VOS768
M16 x 1.5	NG12	4769	VOS769
M22 x 1.5	NG12	4770	VOS770

ELBOWS



Tube Size	Type	Part No	Pkt No
6 x 1	NG 8	4761	VOS761
8 x 1	NG 8	4762	VOS762
6 x 1	NG12	4763	VOS763
8 x 1	NG12	4764	VOS764
12 x 1.5	NG12	4765	VOS765
16 x 2	NG12	4766	VOS766

Phone: 01474 321954 Fax: 01474 321988

Air Brake Push-In - Fittings

VOSS MANIFOLDS

230 Range

Voss Part No

0233264200

can be used to make

0233264249

0233314249

5232820249

5232820270

5232820500

5232820570

Tube Gear Part No

4939



Voss Part No

0233304200

can be used to make

0233304249

0233324249

0233334200

5232820449

5232820470

5232820749

Tube Gear Part No

4940



Voss Part No

0833124200

can be used to make

0233124200

0230494200

5232820300

Tube Gear Part No

4941



Voss Part No

0228744271

can be used to make

5232811000

5232811070

Tube Gear Part No

4942



Voss Part No

0233634270

Tube Gear Part No

4943



Ask our sales team for details

Phone: 01474 321954 Fax: 01474 321988