VUZSERIES



TECHNICAL FEATURES AND OPTIONS

Available sizes
from 1/8" to 2"

Material
High strength carbon steel

Available threads
BSP - NPT - SAE

Standard cracking pressure
0,35 - 4,5 bar

Flow rate
Up to 1000 l/min

Sealing description
Metal to metal seal

Operating pressure
Up to 400 bar

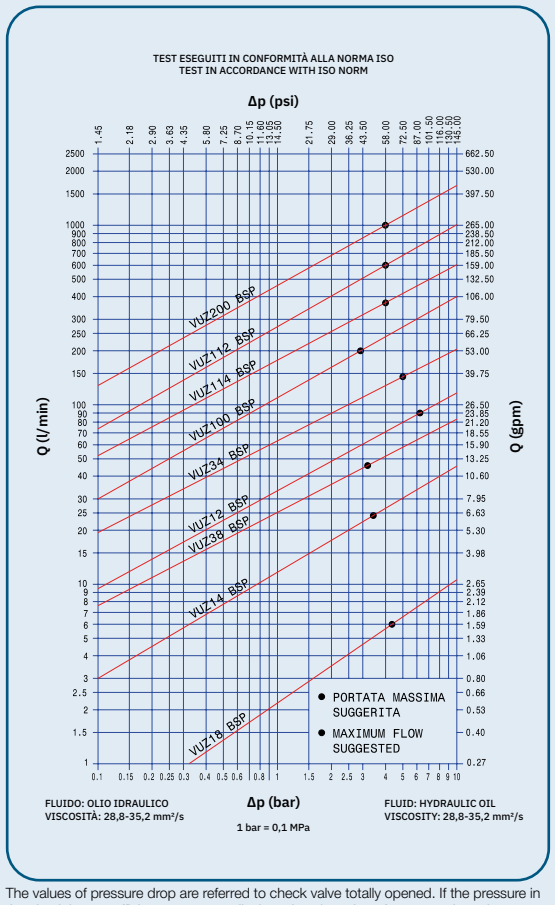
BENEFITS

- Optimal wearing resistance of the hardened sealing piston.
- Compact slim design.
- Different cracking pressure available upon request
- Simple to use.

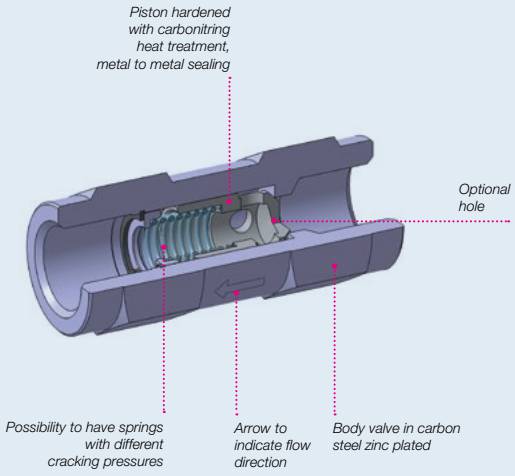
HOW TO USE

- Install the "VUZ" by matching the flow direction with the arrow stamped on the valve.
- To ensure a good efficiency of the system, it is important to select correctly the valve based on flow performances, pressure drop and application.

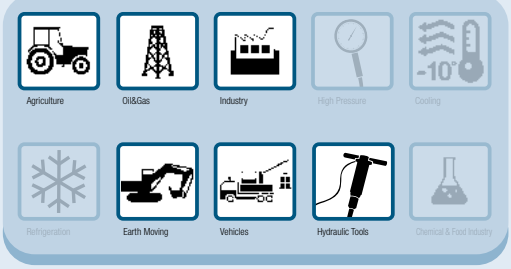
  See the pressure drop graph.



The values of pressure drop are referred to check valve totally opened. If the pressure in the circuit is not sufficient to open totally the valve, the value of pressure drop change.



MAIN APPLICATIONS



PERFORMANCES

Size	Series/Size		Max. suggested flow		Max. operating pressure		Burst pressure	
in	VUZ	VU	l/min	gpm	MPa	psi	MPa	psi
1/8	VUZ18	VU18	6	1,59	40	5800	160	23200
1/4	VUZ14	VU14	24	6,36	35	5075	140	20300
3/8	VUZ38	VU38	46	12,19	35	5075	140	20300
1/2	VUZ12	VU12	90	23,85	30	4350	120	17400
3/4	VUZ34	VU34	148	39,22	30	4350	120	17400
1	VUZ100	VU100	200	53,00	30	4350	120	17400
1-1/4	VUZ114	VU114	378	100,17	25	3625	100	14500
1-1/2	VUZ112	VU112	600	159,00	25	3625	100	14500
2	VUZ200	VU200	1000	265,00	15	2175	45	6525

Temperature range:
from -20 °C to +120 °C (from -4 °F to +248 °F).
Please read carefully Instructions and warnings for proper selection of the products.

Different possible configurations:
The VUZ series is also available (in addition to CR3 treatment) with phosphating surface treatment that help the adhesion of paint.
It can be recognized by the burnished black color.
For further information please contact Stucchi Technical support.

VU Series

VUZ series is also available with phosphate conversion coating to help painting adhesion; this series is called VU.

VU products differs from the standard VUZ for their black color.



WARNING

A defect, a wrong choice or an improper use of products, can cause injury to persons, animals and objects.
Make sure that the medium used is compatible with the material as indicate.
In case of doubt please contact Stucchi Technical Support.
The interchangeability is mentioned under the assumption that the manufacturer of the considered products has not changed any dimension.
It is mandatory to carefully read and closely follow the instructions before selecting or using any Stucchi products.
Always refer to the version uploaded in the Instructions and warning section of stucchigroup.com website for the latest release.
For specific, product-related, instructions, please contact Stucchi technical service.

VUZSERIES

Stucchi®

Reference table for different configuration

BSP THREAD				NPT THREAD				SAE THREAD			
BODY SIZE	CRACKING PRESSURES	DESCRIPTIVE CODE	ITEM CODE	BODY SIZE	CRACKING PRESSURES	DESCRIPTIVE CODE	ITEM CODE	BODY SIZE	CRACKING PRESSURES	DESCRIPTIVE CODE	ITEM CODE
1/8"	5 PSI	**VUZ18 BSP 5 PSI**	810500100	1/8"	5 PSI	**VUZ18 NPT 5 PSI**	810501100	1/4"	5 PSI	**VUZ14 SAE 5 PSI**	810504100
1/4"	5 PSI	**VUZ14 BSP 5 PSI**	810500101	1/4"	5 PSI	**VUZ14 NPT 5 PSI**	810501101	3/8"	5 PSI	**VUZ38 SAE 5 PSI**	810504101
3/8"	5 PSI	**VUZ38 BSP 5 PSI**	810500102	3/8"	5 PSI	**VUZ38 NPT 5 PSI**	810501102	1/2"	5 PSI	**VUZ12 SAE 5 PSI**	810504102
1/2"	5 PSI	**VUZ12 BSP 5 PSI**	810500103	1/2"	5 PSI	**VUZ12 NPT 5 PSI**	810501103	3/4"	5 PSI	**VUZ34 SAE 5 PSI**	810504103
3/4"	5 PSI	**VUZ34 BSP 5 PSI**	810500104	3/4"	5 PSI	**VUZ34 NPT 5 PSI**	810501104	1"	5 PSI	**VUZ100 SAE 5 PSI**	810504104
1"	5 PSI	**VUZ100 BSP 5 PSI**	810500105	1"	5 PSI	**VUZ100 NPT 5 PSI**	810501105	1-1/4"	5 PSI	**VUZ114 SAE 5 PSI**	810504105
1-1/4"	5 PSI	**VUZ114 BSP 5 PSI**	810500106	1-1/4"	5 PSI	**VUZ114 NPT 5 PSI**	810501106	1-1/2"	5 PSI	**VUZ112 SAE 5 PSI**	810504106
1-1/2"	5 PSI	**VUZ112 BSP 5 PSI**	810500107	1-1/2"	5 PSI	**VUZ112 NPT 5 PSI**	810501107	2"	5 PSI	**VUZ200 SAE 5 PSI**	810504107
2"	5 PSI	**VUZ200 BSP 5 PSI**	810500108	2"	5 PSI	**VUZ200 NPT 5 PSI**	810501108	1-1/4"	14 PSI	**VUZ114 SAE 14 PSI**	810504200
1/4"	14 PSI	**VUZ14 BSP 14 PSI**	810500200	1/4"	65 PSI	**VUZ14 NPT 65 PSI**	810501401	3/4"	30 PSI	**VUZ34 SAE 30 PSI**	810504300
3/8"	14 PSI	**VUZ38 BSP 14 PSI**	810500201	3/8"	65 PSI	**VUZ38 NPT 65 PSI**	810501402	1"	65 PSI	**VUZ100 SAE 65 PSI**	810504400
1/2"	14 PSI	**VUZ12 BSP 14 PSI**	810500202	1/2"	65 PSI	**VUZ12 NPT 65 PSI**	810501403	3/8"	65 PSI	**VUZ38 SAE 65 PSI**	810504401
3/4"	14 PSI	**VUZ34 BSP 14 PSI**	810500203	3/4"	65 PSI	**VUZ34 NPT 65 PSI**	810501404	1/2"	65 PSI	**VUZ12 SAE 65 PSI**	810504402
1"	14 PSI	**VUZ100 BSP 14 PSI**	810500204	1"	65 PSI	**VUZ100 NPT 65 PSI**	810501405	3/4"	65 PSI	**VUZ34 SAE 65 PSI**	810504403
3/4"	30 PSI	**VUZ34 BSP 30 PSI**	810500300	1-1/4"	65 PSI	**VUZ114 NPT 65 PSI**	810501406	1"	65 PSI	**VUZ14 SAE 65 PSI**	810504404
1/8"	65 PSI	**VUZ18 BSP 65 PSI**	810500400	1-1/2"	65 PSI	**VUZ112 NPT 65 PSI**	810501407	1-1/4"	65 PSI	**VUZ114 SAE 65 PSI**	810504405
1/4"	65 PSI	**VUZ14 BSP 65 PSI**	810500401	2"	65 PSI	**VUZ200 NPT 65 PSI**	810501408	1-1/2"	65 PSI	**VUZ112 SAE 65 PSI**	810504406
3/8"	65 PSI	**VUZ38 BSP 65 PSI**	810500402					2	65 PSI	**VUZ200 SAE 65 PSI**	810504407 ⬩
1/2"	65 PSI	**VUZ12 BSP 65 PSI**	810500403								
3/4"	65 PSI	**VUZ34 BSP 65 PSI**	810500404								
1"	65 PSI	**VUZ100 BSP 65 PSI**	810500405								
1-1/4"	65 PSI	**VUZ114 BSP 65 PSI**	810500406								
1-1/2"	65 PSI	**VUZ112 BSP 65 PSI**	810500407								
2"	65 PSI	**VUZ200 BSP 65 PSI**	810500408								
1-1/2"	73 PSI	**VUZ112 BSP 73 PSI**	810500500 ⬩								
1-1/2"	80 PSI	**VUZ112 BSP 80 PSI**	810500501 ⬩								
1/2"	115 PSI	**VUZ12 BSP 115 PSI**	810500602								
3/4"	115 PSI	**VUZ34 BSP 115 PSI**	810500603								
3/4"	145 PSI	**VUZ34 BSP 145 PSI**	810500600								
1"	145 PSI	**VUZ100 BSP 145 PSI**	810500601								
1"	174 PSI	**VUZ100 BSP 174 PSI**	810500604 ⬩								

⬩ Available upon request.

PRODUCT DEFINITION

VUZ — Check valve

38 — Size 3/8”

F1,5 — Diameter optional hole

BSP — Thread

5 PSI — Cracking pressure

Reference table for different configuration

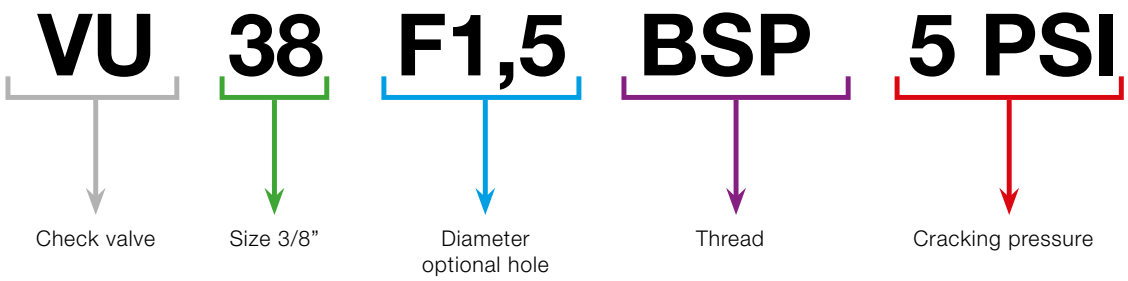
BSP THREAD			
BODY SIZE	CRACKING PRESSURE	DESCRIPTIVE CODE	ITEM CODE
1/8"	5 PSI	**VU18 BSP 5 PSI**	810200100
1/4"	5 PSI	**VU14 BSP 5 PSI**	810200101
3/8"	5 PSI	**VU38 BSP 5 PSI**	810200102
1/2"	5 PSI	**VU12 BSP 5 PSI**	810200103
3/4"	5 PSI	**VU34 BSP 5 PSI**	810200104
1"	5 PSI	**VU100 BSP 5 PSI**	810200105
1-1/4"	5 PSI	**VU114 BSP 5 PSI**	810200106
1-1/2"	5 PSI	**VU112 BSP 5 PSI**	810200107
2"	5 PSI	**VU200 BSP 5 PSI**	810200108
1/4"	14 PSI	**VU14 BSP 14 PSI**	810200200
3/8"	14 PSI	**VU38 BSP 14 PSI**	810200206
1/2"	14 PSI	**VU12 BSP 14 PSI**	810200201
3/4"	14 PSI	**VU34 BSP 14 PSI**	810200202
1"	14 PSI	**VU100 BSP 14 PSI**	810200203
1-1/4"	14 PSI	**VU114 BSP 14 PSI**	810200204
1-1/2"	14 PSI	**VU112 BSP 14 PSI**	810200205
2"	14 PSI	**VU200 BSP 14 PSI**	810200207
1/8"	65 PSI	**VU18 BSP 65 PSI**	810200400
1/4"	65 PSI	**VU14 BSP 65 PSI**	810200401
3/8"	65 PSI	**VU38 BSP 65 PSI**	810200402
1/2"	65 PSI	**VU12 BSP 65 PSI**	810200403
3/4"	65 PSI	**VU34 BSP 65 PSI**	810200404
1"	65 PSI	**VU100 BSP 65 PSI**	810200405
1-1/4"	65 PSI	**VU114 BSP 65 PSI**	810200406
1 1/2"	65 PSI	**VU112 BSP 65 PSI**	810200407
2"	65 PSI	**VU200 BSP 65 PSI**	810200408
1/2"	115 PSI	**VU12 BSP 115 PSI**	810200600
3/4"	115 PSI	**VU34 BSP 115 PSI**	810200601
1/2"	145 PSI	**VU12 BSP 145 PSI**	810200605
3/4"	145 PSI	**VU34 BSP 145 PSI**	810200603
1"	145 PSI	**VU100 BSP 145 PSI**	810200602
1-1/4"	145 PSI	**VU114 BSP 145 PSI**	810200608 *
2"	145 PSI	**VU200 BSP 145 PSI**	810200607

NPT THREAD			
BODY SIZE	CRACKING PRESSURE	DESCRIPTIVE CODE	ITEM CODE
1/8"	5 PSI	**VU18 NPT 5 PSI**	810201100
1/4"	5 PSI	**VU14 NPT 5 PSI**	810201101
3/8"	5 PSI	**VU38 NPT 5 PSI**	810201102
1/2"	5 PSI	**VU12 NPT 5 PSI**	810201103
1/2"	5 PSI	**VU12EI NPT 5 PSI**	810201112
3/4"	5 PSI	**VU34 NPT 5 PSI**	810201104
1"	5 PSI	**VU100 NPT 5 PSI**	810201105
1-1/4"	5 PSI	**VU114 NPT 5 PSI**	810201106
1-1/2"	5 PSI	**VU112 NPT 5 PSI**	810201107
2"	5 PSI	**VU200 NPT 5 PSI**	810201108
1/4"	14 PSI	**VU14 NPT 14 PSI**	810201200
1/2"	14 PSI	**VU12 NPT 14 PSI**	810201201
3/4"	14 PSI	**VU34 NPT 14 PSI**	810201202
1"	14 PSI	**VU100 NPT 14 PSI**	810201203
1-1/4"	14 PSI	**VU114 NPT 14 PSI**	810201204
1-1/2"	14 PSI	**VU112 NPT 14 PSI**	810201205
1/8"	65 PSI	**VU18 NPT 65 PSI**	810201400
1/4"	65 PSI	**VU14 NPT 65 PSI**	810201401
3/8"	65 PSI	**VU38 NPT 65 PSI**	810201402
1/2"	65 PSI	**VU12 NPT 65 PSI**	810201403
3/4"	65 PSI	**VU34 NPT 65 PSI**	810201404
1"	65 PSI	**VU100 NPT 65 PSI**	810201405
1-1/4"	65 PSI	**VU114 NPT 65 PSI**	810201406
1-1/2"	65 PSI	**VU112 NPT 65 PSI**	810201407
2"	65 PSI	**VU200 NPT 65 PSI**	810201408
1/2"	115 PSI	**VU12 NPT 115 PSI**	810201600
3/4"	115 PSI	**VU34 NPT 115 PSI**	810201601
1"	145 PSI	**VU100 NPT 145 PSI**	810201602

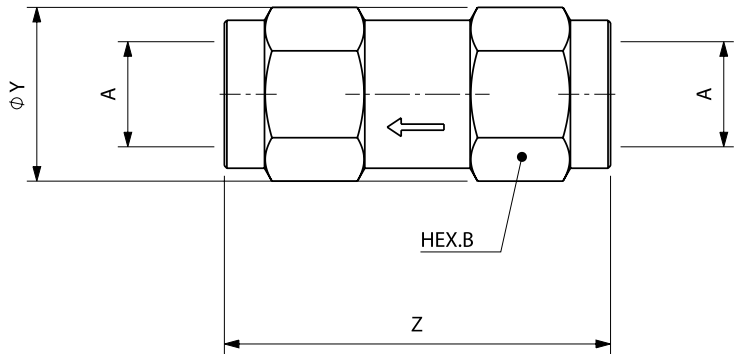
SAE THREAD			
BODY SIZE	CRACKING PRESSURE	DESCRIPTIVE CODE	ITEM CODE
1/4"	5 PSI	**VU14 SAE 5 PSI**	810204100
3/8"	5 PSI	**VU38 SAE 5 PSI**	810204101
1/2"	5 PSI	**VU12 SAE 5 PSI**	810204102
1/2"	5 PSI	**VU12EI SAE 5 PSI**	810204111
3/4"	5 PSI	**VU34 SAE 5 PSI**	810204103
1"	5 PSI	**VU100 SAE 5 PSI**	810204104
1-1/4"	5 PSI	**VU114 SAE 5 PSI**	810204105
1-1/2"	5 PSI	**VU112 SAE 5 PSI**	810204106
2"	5 PSI	**VU200 SAE 5 PSI**	810204107
3/8"	65 PSI	**VU38 SAE 65 PSI**	810204401
1/2"	65 PSI	**VU12 SAE 65 PSI**	810204402
3/4"	65 PSI	**VU34 SAE 65 PSI**	810204403
1"	65 PSI	**VU100 SAE 65 PSI**	810204404
1-1/4"	65 PSI	**VU114 SAE 65 PSI**	810204405
1-1/2"	65 PSI	**VU112 SAE 65 PSI**	810204406
2"	65 PSI	**VU200 SAE 65 PSI**	810204407
1"	145 PSI	**VU100 SAE 145 PSI**	810204600

* Available upon request.

PRODUCT DEFINITION



VALVE



Port description: FEMALE THREAD BSPP (ISO 1179-1)

Descriptive Code		Item Code	PORT (A)	Overall Length			Hex			Diameter			Weight	
VUZ	VU				mm	in		mm	in		mm	in	kg	lb
VUZ18 BSP	VU18 BSP	see reference table	1/8"	Z	44,0	1,73	B	14,0	0,55	Y	16,2	0,64	0,04	0,08
VUZ14 BSP	VU14 BSP	see reference table	1/4"	Z	60,0	2,36	B	19,0	0,75	Y	21,9	0,86	0,09	0,20
VUZ38 BSP	VU38 BSP	see reference table	3/8"	Z	70,0	2,76	B	24,0	0,94	Y	27,7	1,09	0,18	0,39
VUZ12 BSP	VU12 BSP	see reference table	1/2"	Z	77,0	3,03	B	30,0	1,18	Y	34,6	1,36	0,30	0,66
VUZ34 BSP	VU34 BSP	see reference table	3/4"	Z	90,0	3,54	B	36,0	1,42	Y	41,6	1,64	0,49	1,08
VUZ100 BSP	VU100 BSP	see reference table	1"	Z	106,0	4,17	B	45,0	1,77	Y	52,0	2,05	0,87	1,92
VUZ114 BSP	VU114 BSP	see reference table	1-1/4"	Z	125,0	4,92	B	55,0	2,17	Y	63,5	2,50	1,49	3,28
VUZ112 BSP	VU112 BSP	see reference table	1-1/2"	Z	140,0	5,51	B	65,0	2,56	Y	75,1	2,96	2,43	5,35
VUZ200 BSP	VU200 BSP	see reference table	2"	Z	160,0	6,30	B	75,0	2,95	Y	86,6	3,41	3,13	6,90

Port description: FEMALE THREAD NPT (ANSI B.1.20.1)

Descriptive Code		Item Code	PORT (A)	Overall Length			Wrench Flat			Diameter			Weight	
VUZ	VU				mm	in		mm	in		mm	in	kg	lb
VUZ18 NPT	VU18 NPT	see reference table	1/8"	Z	44,0	1,73	B	14,0	0,55	Y	16,2	0,64	0,04	0,08
VUZ14 NPT	VU14 NPT	see reference table	1/4"	Z	60,0	2,36	B	19,0	0,75	Y	21,9	0,86	0,09	0,20
VUZ38 NPT	VU38 NPT	see reference table	3/8"	Z	70,0	2,76	B	24,0	0,94	Y	27,7	1,09	0,18	0,39
VUZ12 NPT	VU12 NPT	see reference table	1/2"	Z	77,0	3,03	B	30,0	1,18	Y	34,6	1,36	0,30	0,66
VUZ34 NPT	VU34 NPT	see reference table	3/4"	Z	90,0	3,54	B	36,0	1,42	Y	41,6	1,64	0,49	1,08
VUZ100 NPT	VU100 NPT	see reference table	1"	Z	106,0	4,17	B	45,0	1,77	Y	52,0	2,05	0,87	1,92
VUZ114 NPT	VU114 NPT	see reference table	1-1/4"	Z	125,0	4,92	B	55,0	2,17	Y	63,5	2,50	1,49	3,28
VUZ112 NPT	VU112 NPT	see reference table	1-1/2"	Z	140,0	5,51	B	65,0	2,56	Y	75,1	2,96	2,43	5,35
VUZ200 NPT	VU200 NPT	see reference table	2"	Z	160,0	6,30	B	75,0	2,95	Y	86,6	3,41	3,13	6,90

Port description: FEMALE THREAD SAE (ISO 11926-1 & SAE J1926-1)

Descriptive Code		Item Code	PORT (A)	Overall Length			Wrench Flat			Diameter			Weight	
VUZ	VU				mm	in		mm	in		mm	in	kg	lb
VUZ14 SAE	VU14 SAE	see reference table	7/16-20UNF	Z	60,0	2,36	B	19,0	0,75	Y	21,9	0,86	0,10	0,22
VUZ38 SAE	VU38 SAE	see reference table	9/16-18UNF	Z	70,0	2,76	B	24,0	0,94	Y	27,7	1,09	0,19	0,42
VUZ12 SAE	VU12 SAE	see reference table	3/4-16UNF	Z	77,0	3,03	B	30,0	1,18	Y	34,6	1,36	0,32	0,69
VUZ34 SAE	VU34 SAE	see reference table	1-1/16-12UN	Z	94,0	3,70	B	36,0	1,42	Y	41,6	1,64	0,49	1,08
VUZ100 SAE	VU100 SAE	see reference table	1-5/16-12UN	Z	106,0	4,17	B	45,0	1,77	Y	52,0	2,05	0,87	1,92
VUZ114 SAE	VU114 SAE	see reference table	1-5/8-12UN	Z	125,0	4,92	B	55,0	2,17	Y	63,5	2,50	1,49	3,28
VUZ112 SAE	VU112 SAE	see reference table	1-7/8-12UN	Z	140,0	5,51	B	65,0	2,56	Y	75,1	2,96	2,41	5,31
VUZ200 SAE	VU200 SAE	see reference table	2-1/2-12UN	Z	160,0	6,30	B	75,0	2,95	Y	86,6	3,41	3,00	6,60

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